

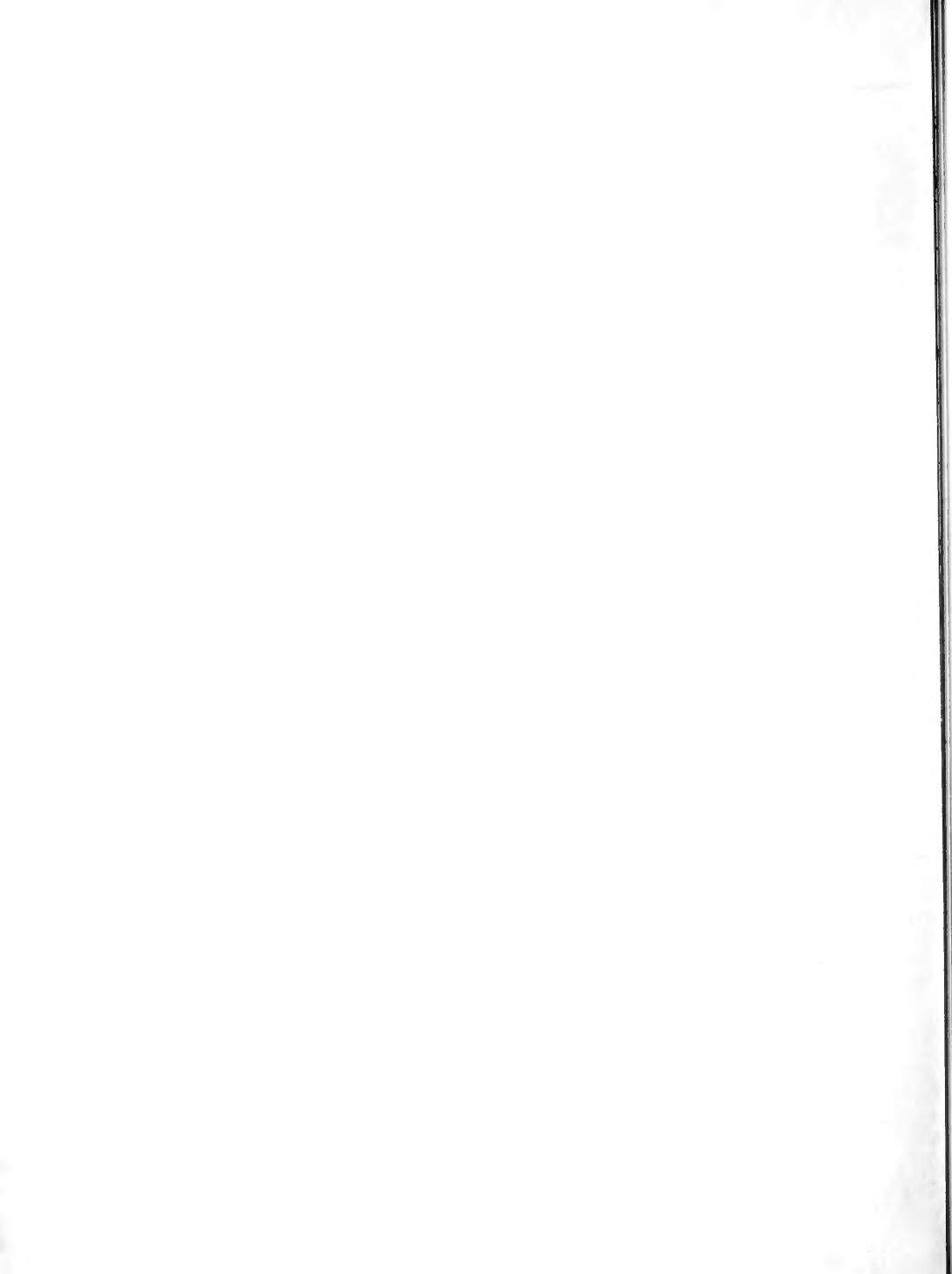


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THE  
**CYCLOPÆDIA;**  
OR,  
**Universal Dictionary**  
OF  
**ARTS, SCIENCES, AND LITERATURE.**

PLATES. VOL. V.  
NATURAL HISTORY.



THE  
CYCLOPÆDIA;

OR,

UNIVERSAL DICTIONARY

OF

Arts, Sciences, and Literature.

BY

ABRAHAM REES, D.D. F.R.S. F.L.S. *S. Amer. Soc.*

WITH THE ASSISTANCE OF  
EMINENT PROFESSIONAL GENTLEMEN.

---

ILLUSTRATED WITH NUMEROUS ENGRAVINGS,  
BY THE MOST DISTINGUISHED ARTISTS.

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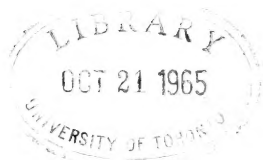
PLATES. VOL. V.  
NATURAL HISTORY.

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LONDON:

PRINTED FOR LONGMAN, HURST, REES, ORME, & BROWN, PATERNOSTER-ROW,  
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1820.



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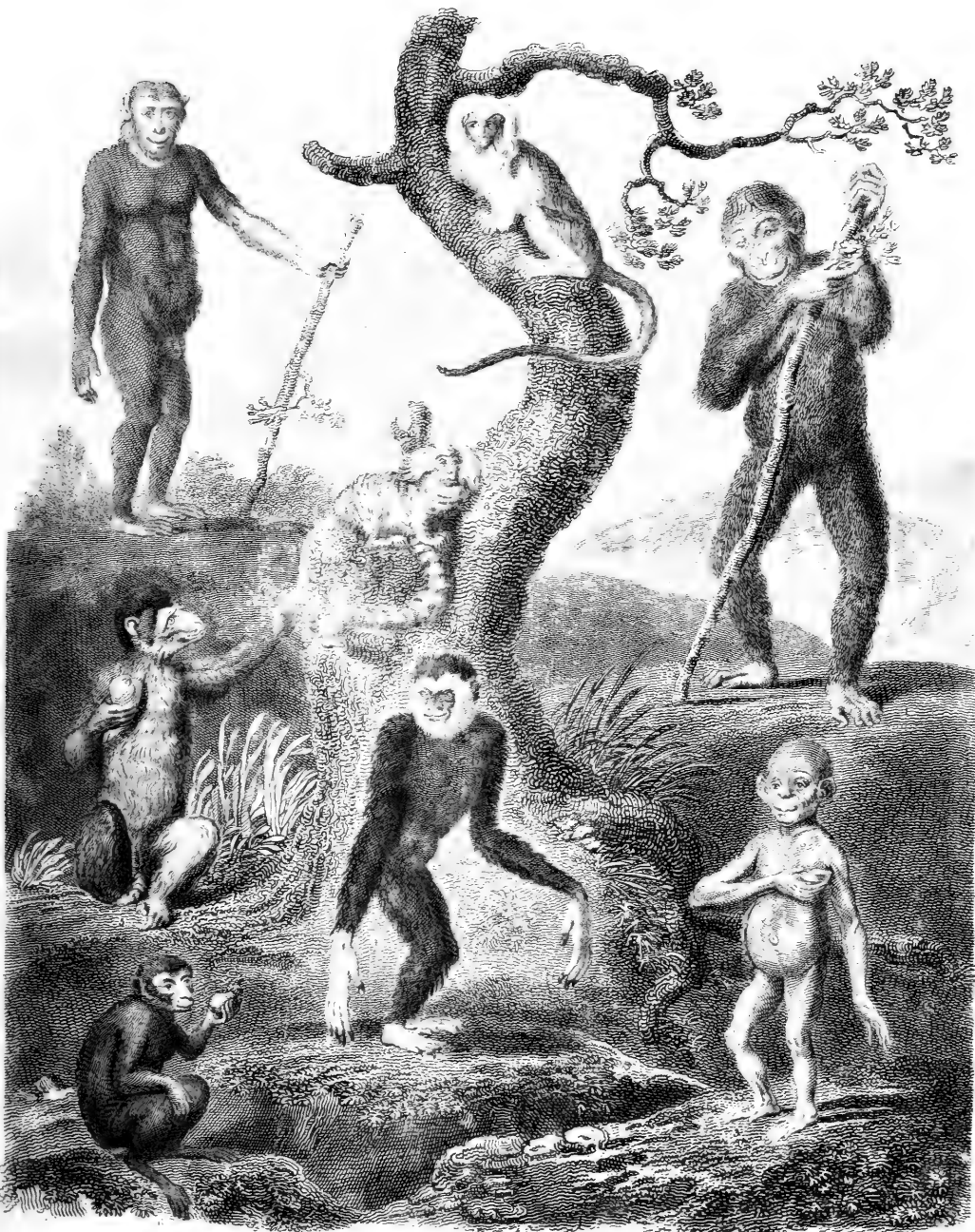
AE  
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# QUADRUPEDS

CLASSIFICATION OF THE PRIMATE

OR SIMIA



1 ORANG-UTANG.  
2 CHESTNUT-UTANG.

3 CHIMPANZEE  
4 LONG-ARMED APE

5 BARBARY APE  
6 PIGMY APE

7 RED-TAILED APE  
8 STRAIT-D APE

Published by the Author, No. 15, King Street, London. Sold by all Booksellers.



# QUADRUPEDS.

CLASS MAMMALIA ORDER PRIMATES. GENUS LEMUR. GENUS GALEOPITHECUS. GEOFF.



1. L. Nodje Tarsier — 2. L. Ecaudatus Taillefs Maucuco. — 3. L. Murinus Murine Lemur. — 4. L. Catta Ring-tail Maucuco. — 5. L. Taxtigradus Loris.  
 6. L. Volans Flying Lemur. (Galeopithecus rufus Audels.)



MAMMALIA.

GENUS VESPERTILIO

Bat



3



1. V. Vampyrus    2. V. Auritus    3. V. Spasma    4. V. Leporinus    5. V. Spectrum  
 VAMPIRE B.    LONG EARED B.    CORDON B.    PERUVIAN B.    SPECTRE B.

Published as the Act directed, March 1. 1803 by Longman Hurst, Roper, Orme & Brown, Paternoster Row.

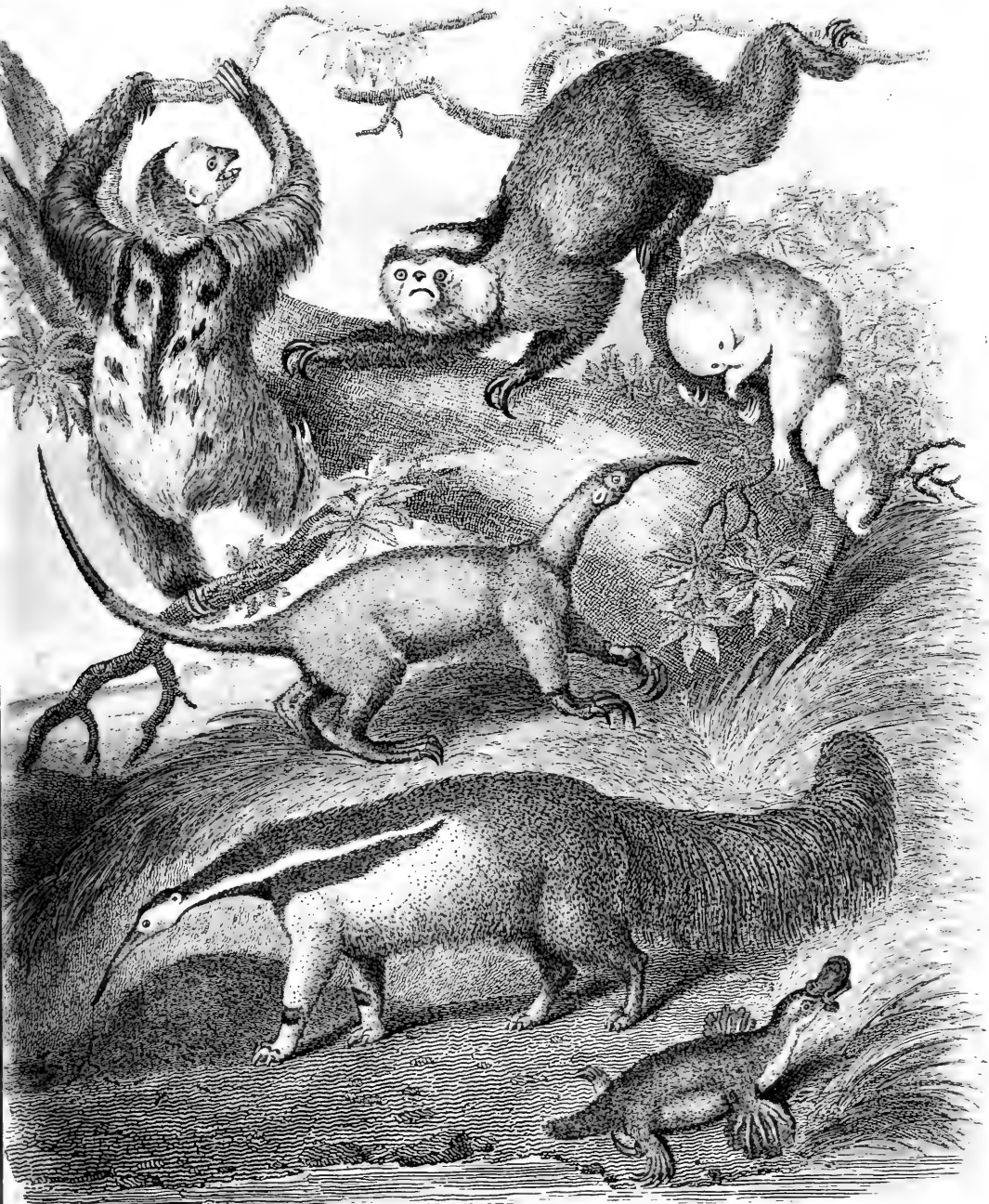
L. 1803 650

W. Edwards del.



QUADRUPEDS.

CLASS MAMMALIA. ORDER BRUTA. GENUS BRADYPUS. GENUS MYRMECOPHAGA. GENUS ORNYTHORINCHUS.



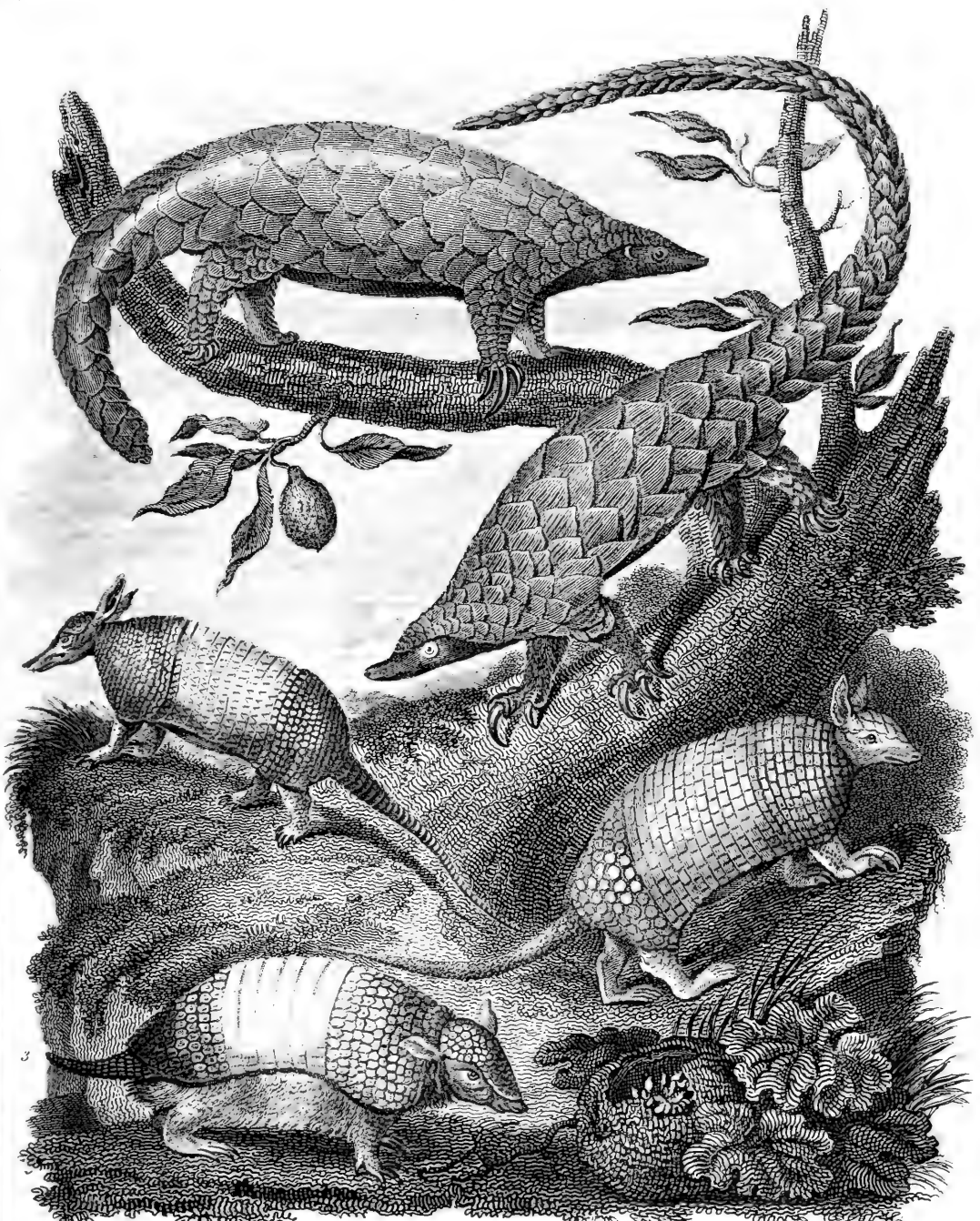
1. *Bradypus Tridactylus*. Three toed Sloth. 2. *B. Didactylus*. Two toed Sloth. 3. *Myrmecophaga Dactyla*. Two toed or left. Ant eater. 4. *M. Tetra Dactyla*. Four toed Ant eater. 5. *M. Jubata*. Great Ant eater. 6. *Ornythorinchus Paradoxus*. Duck billed. *Ornythorinchus*.





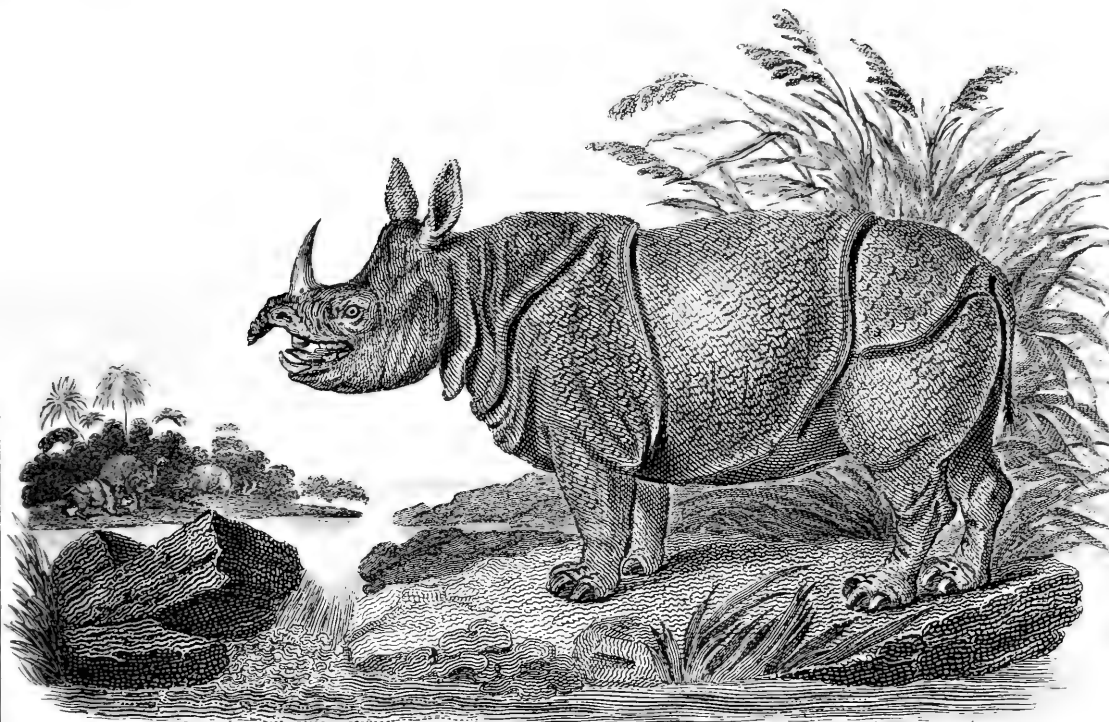
QUADRUPEDS.

MAMMALIA GENUS MANIS GENUS DASYPUS.

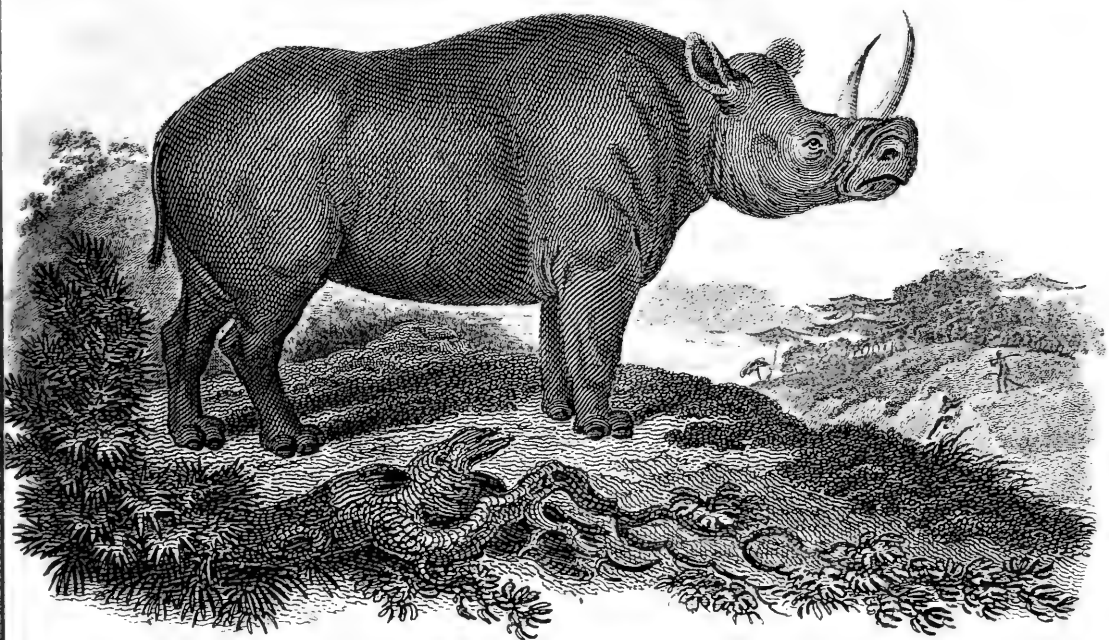


1. Manis Pentadactyla short-tailed Manis — 2. Manis Tetradactyla long-tailed Manis — 3. Dasypus Sexcinctus Six-banded Armadillo  
 4. Dasypus Novemcinctus Nine-banded Armadillo — 5. Dasypus Duodecimcinctus Thirteen-banded Armadillo.





*Rhinoceros unicornis*. One horned Rhinoceros.



*Rhinoceros bicornis*. Two horned Rhinoceros.



QUADRUPEDS

CLASS MAMMALIA. ORDER FERA. GENUS TRICHECHUS. GENUS PHOCA.



1. *Trichechus Rosmarus*, Arctic Walrus or Moræ. 2. *T. Manatus* (var. *borealis*) Manatus. 3. *Phoca Ursina*, Ursine Seal  
4. *P. Greenlandica* Harp Seal. 5. *P. Vitulina*, Common Seal or Sea Calf. 6. *P. Maculata*, Spotted Seal.



# QUADRUPEDS.

Linn Syst.

CLASS I<sup>st</sup> MAMMALIA ORDER III<sup>d</sup> FERE. GENUS XI<sup>th</sup> CANIS.

PLATE II of Order I<sup>st</sup>



1. Shepherds Dog. 2. Aufralasian Dog. 3. Pomeranian Dog. 4. Siberian Dog. 5. Iceland Dog. 6. Small Barbet. 7. Great Barbet or Water Dog.

Published at the Art directors' Exp<sup>ts</sup> under the patronage of His Majesty George IV.





QUADRUPEDS.

CLASS I<sup>ta</sup> MAMMALIA. ORDER III<sup>ta</sup> FERRE. GENUS XV CANIS.

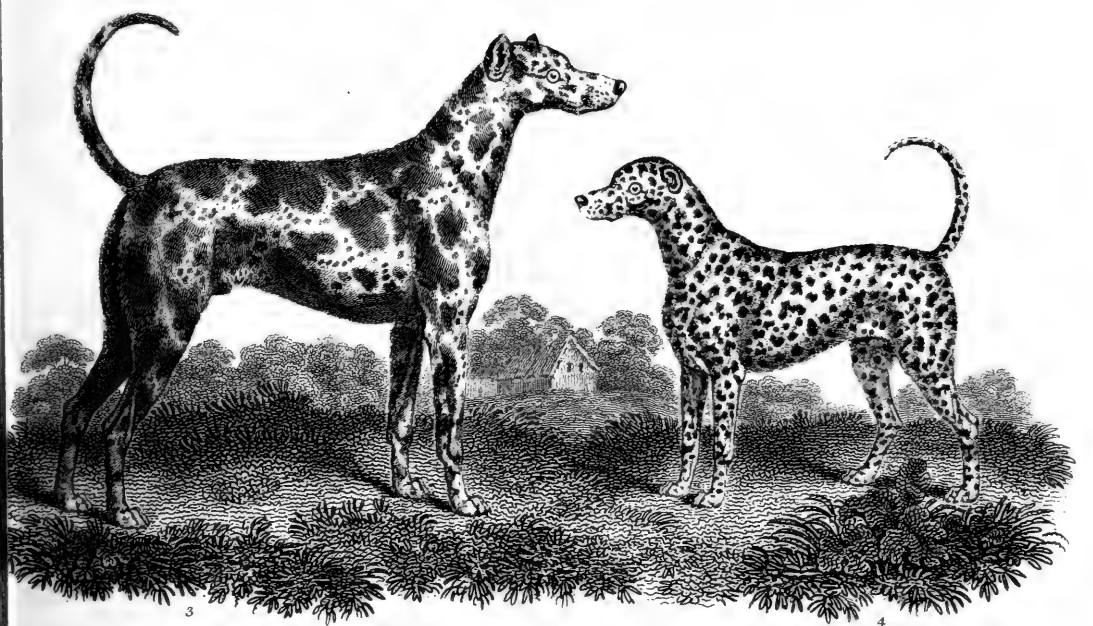
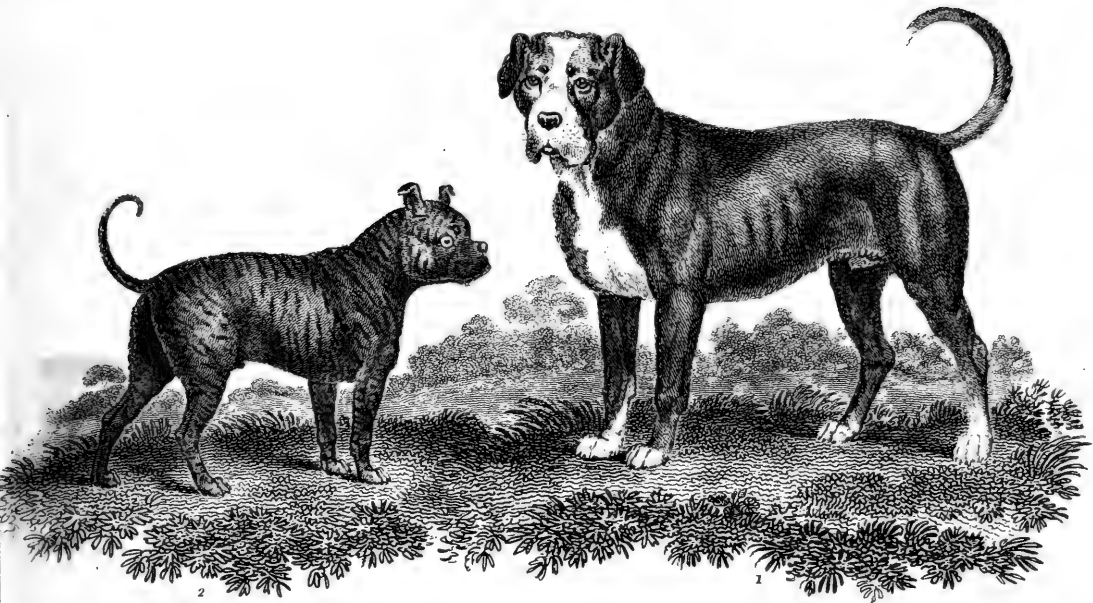


1 King Charles's Dog 2 Papillon 3 Naked or Turkish Hound 4 Pug 5 Spaniel 6 Shocker 7 Small Dane 8 Lion D 9 Roquet.

Published by the Author, No. 1, Pall Mall, London. Printed by J. B. Nichols, No. 1, Pall Mall, London.

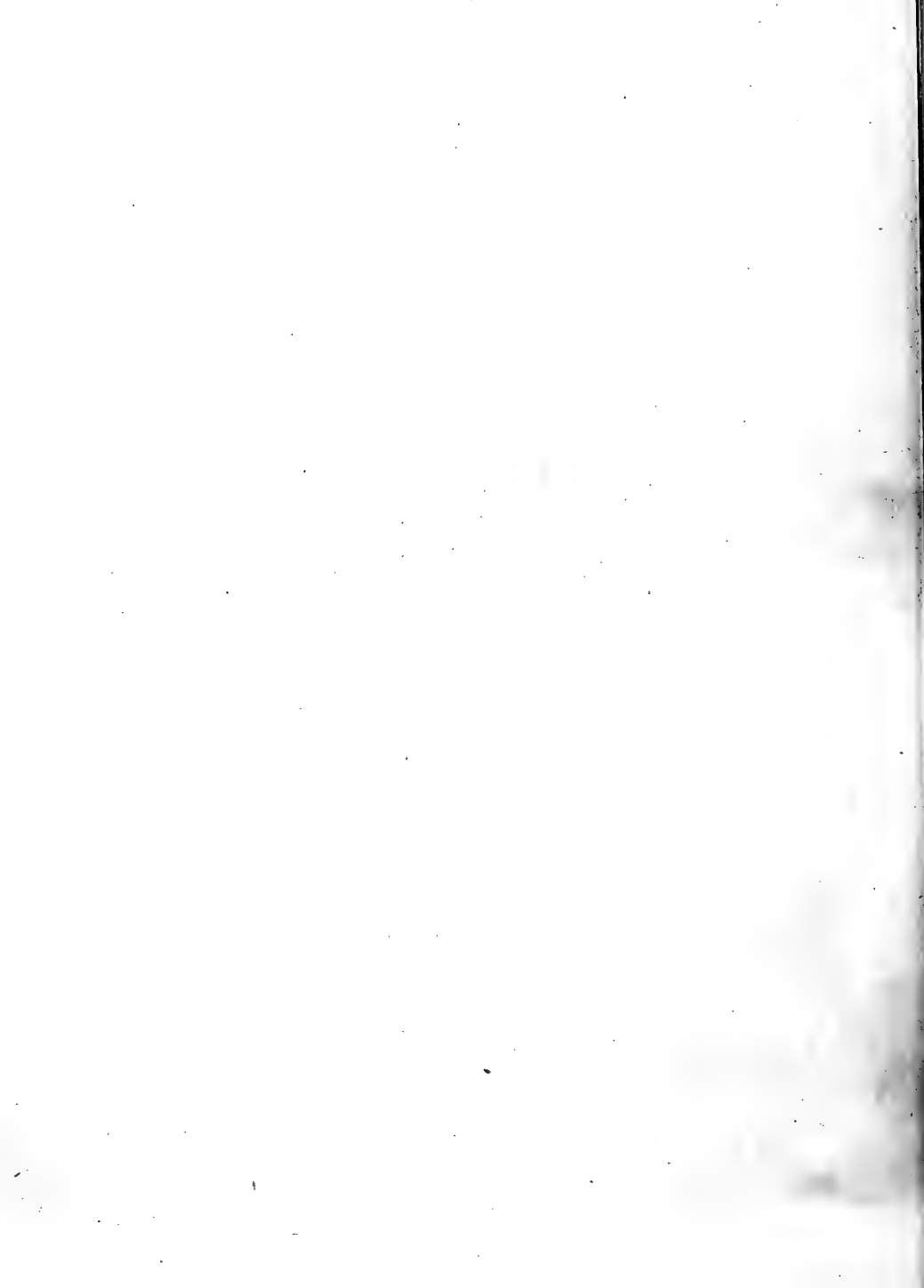


CLASS I. MAMMALIA. ORDER III. FERRE. GENUS II. CANIS.



1. Mastiff. 2. Bull Dog. 3. Danish or Harlequin D. 4. Dalmatian Dog.

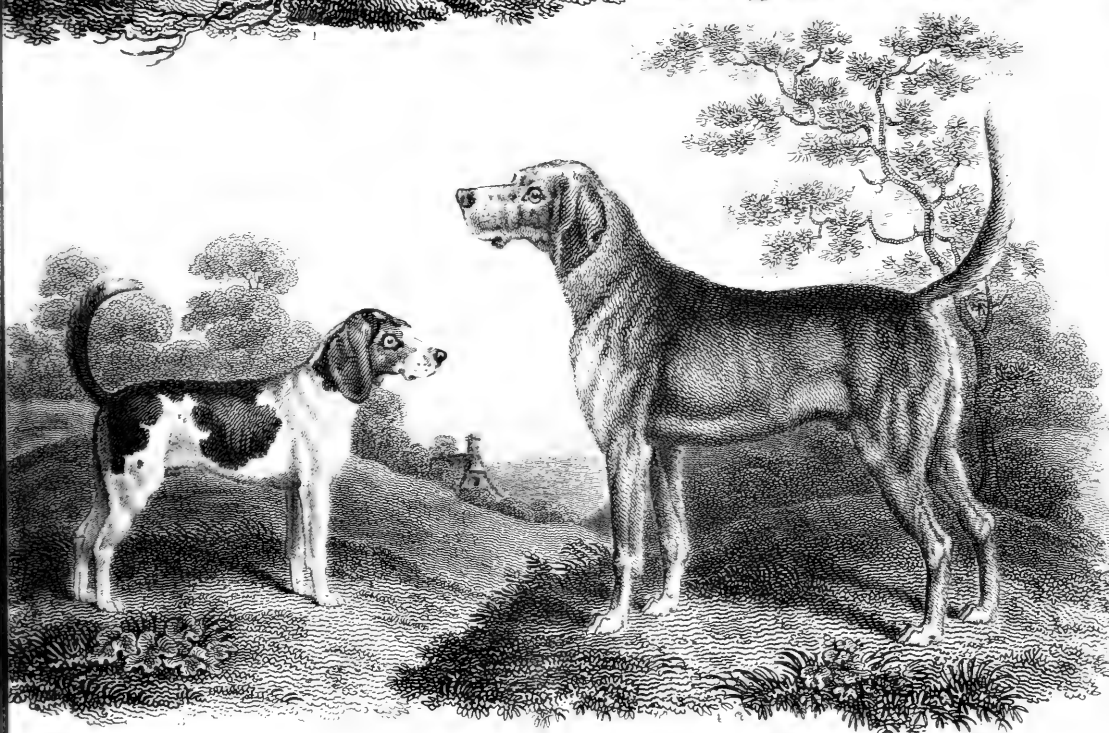
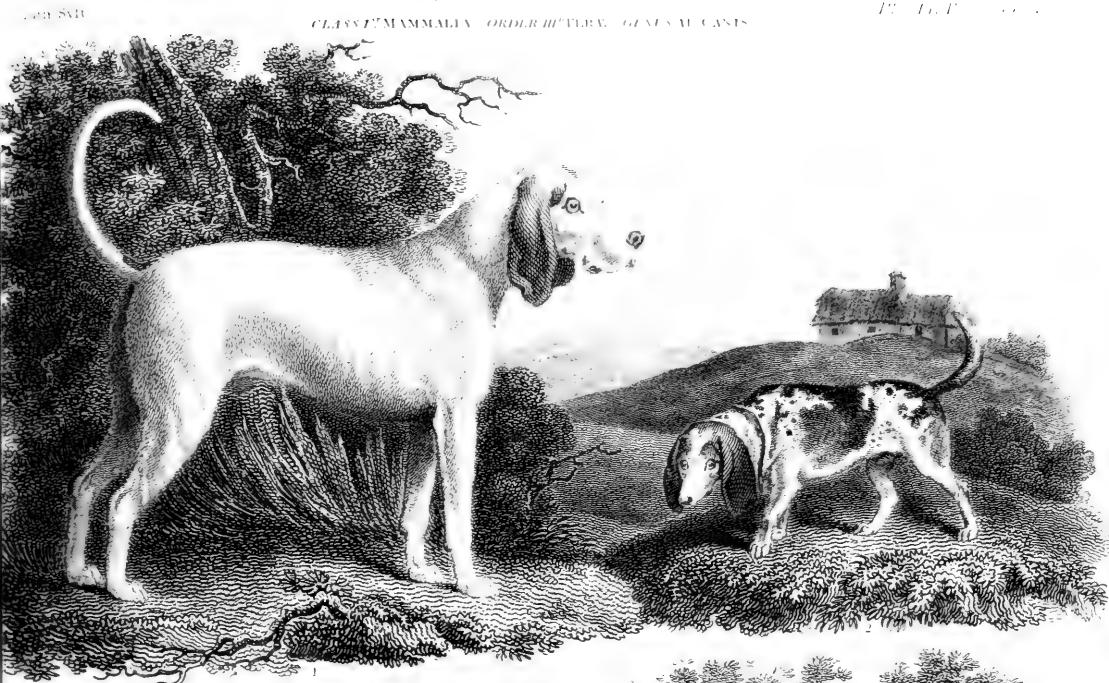
Engraved at the 'Job Office' Dept. by Benjamin Hart Esq. 1830. & Brown, Intendant for



QUADRUPEDS

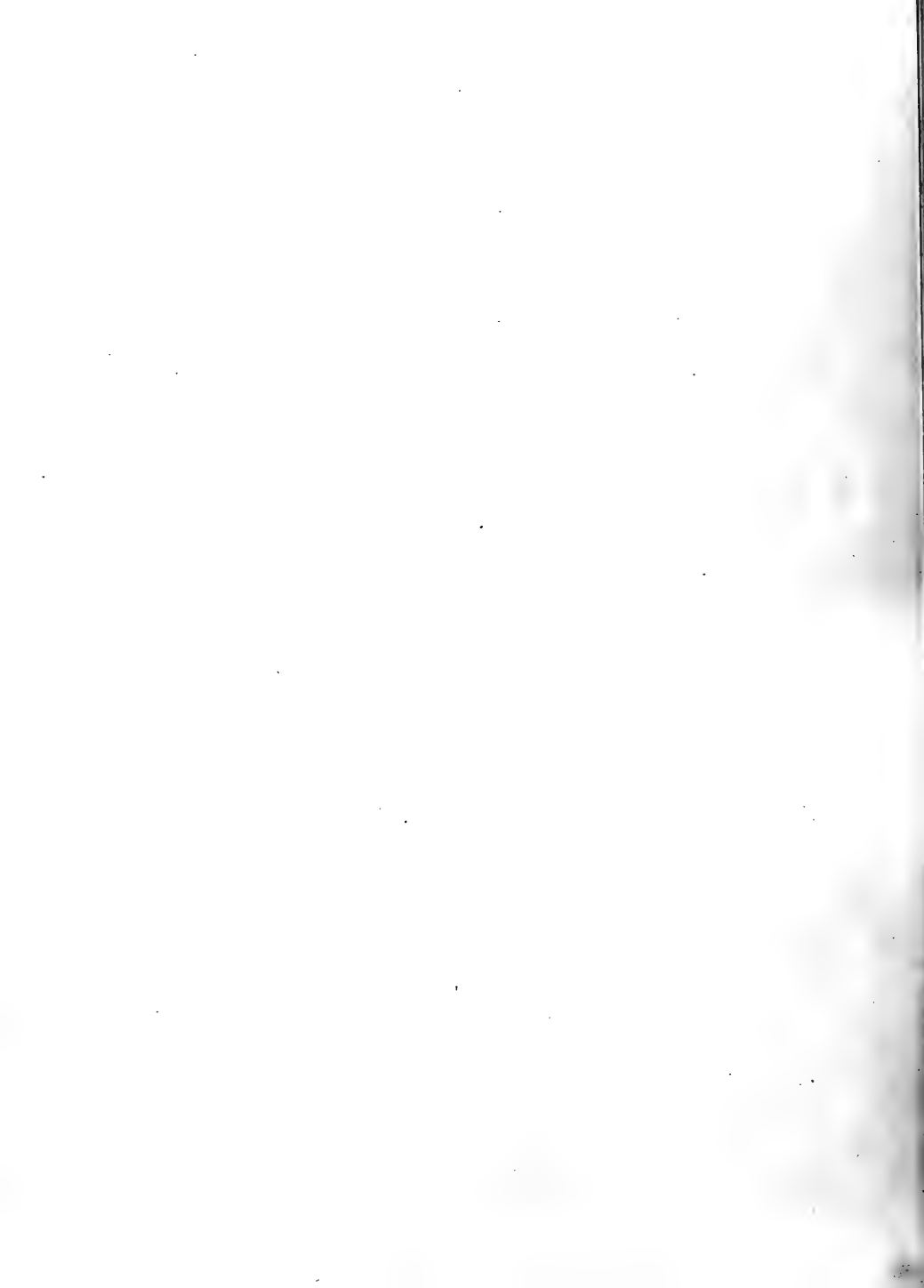
CLASS I. MAMMALIA. ORDER II. FELV. GENUS VI. CANIS.

PLATE 10.



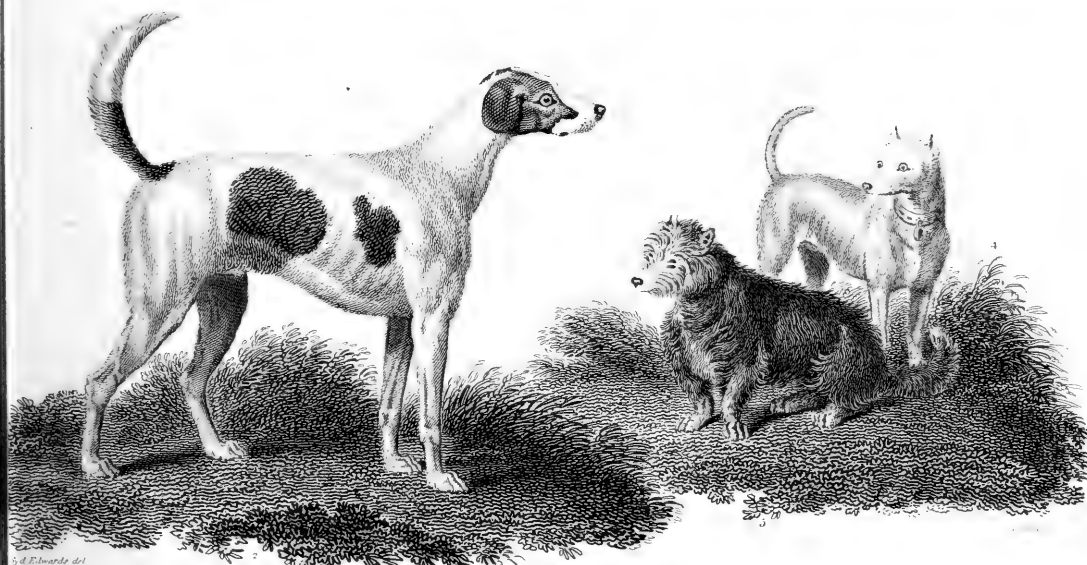
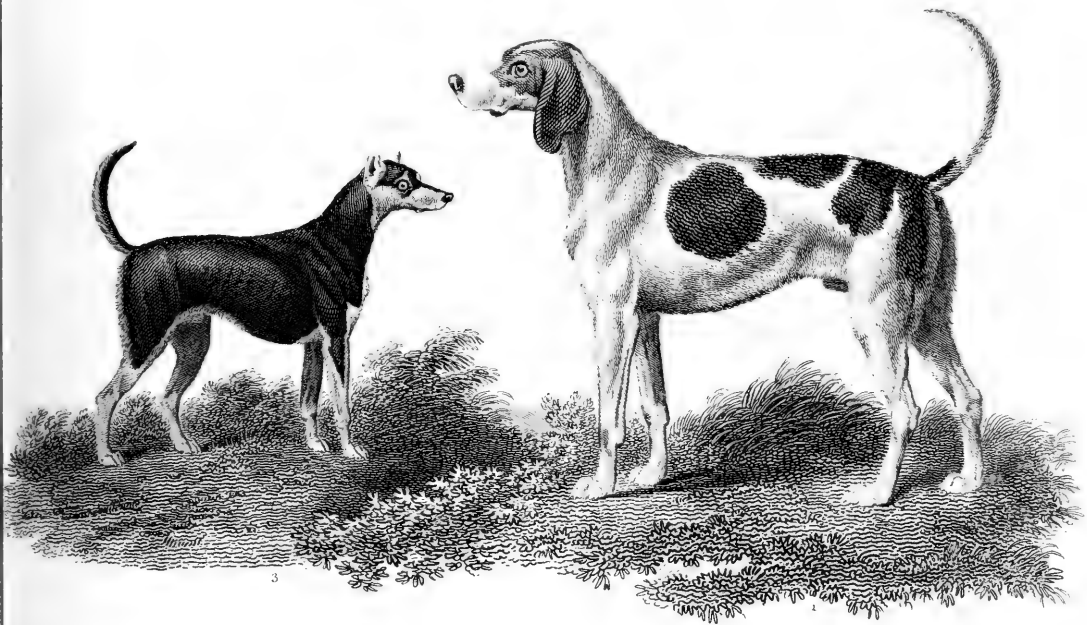
1. Old English or Talbot Hound. 2. Beagle. 3. Harrier. 4. British Blood Hound.

Engraved by G. Kneller, from the original drawings by Mr. G. Kneller, and published by G. Kneller, 1785.

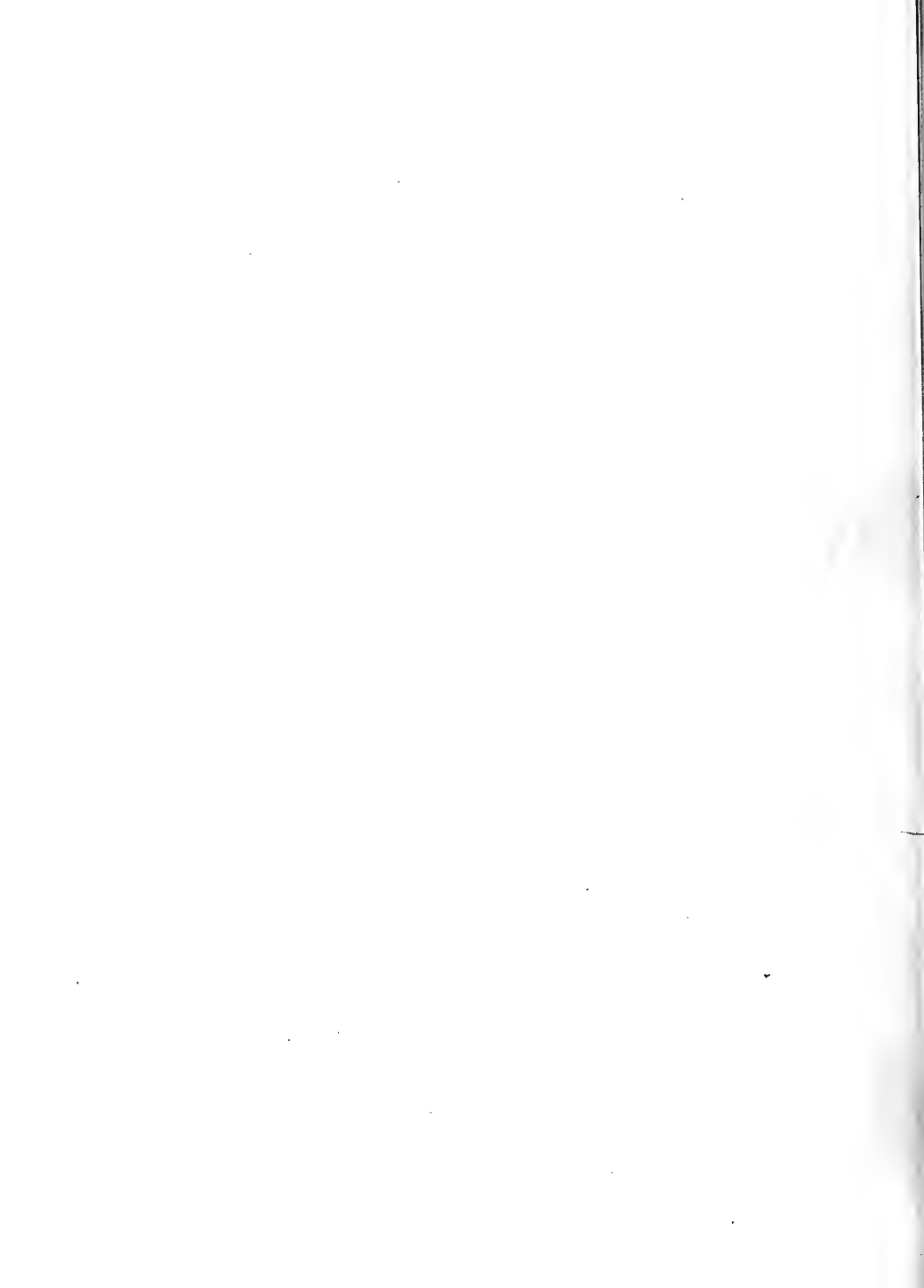


QUADRUPEDS.

CLASS I<sup>st</sup> MAMMALIA \_ ORDER III<sup>rd</sup> FERE \_ GENUS IV<sup>th</sup> CANIS.



1. Stag Hound \_ 2. Fox Hound \_ 3 & 4. Smooth Terriers \_ 5. Rough Terrier.



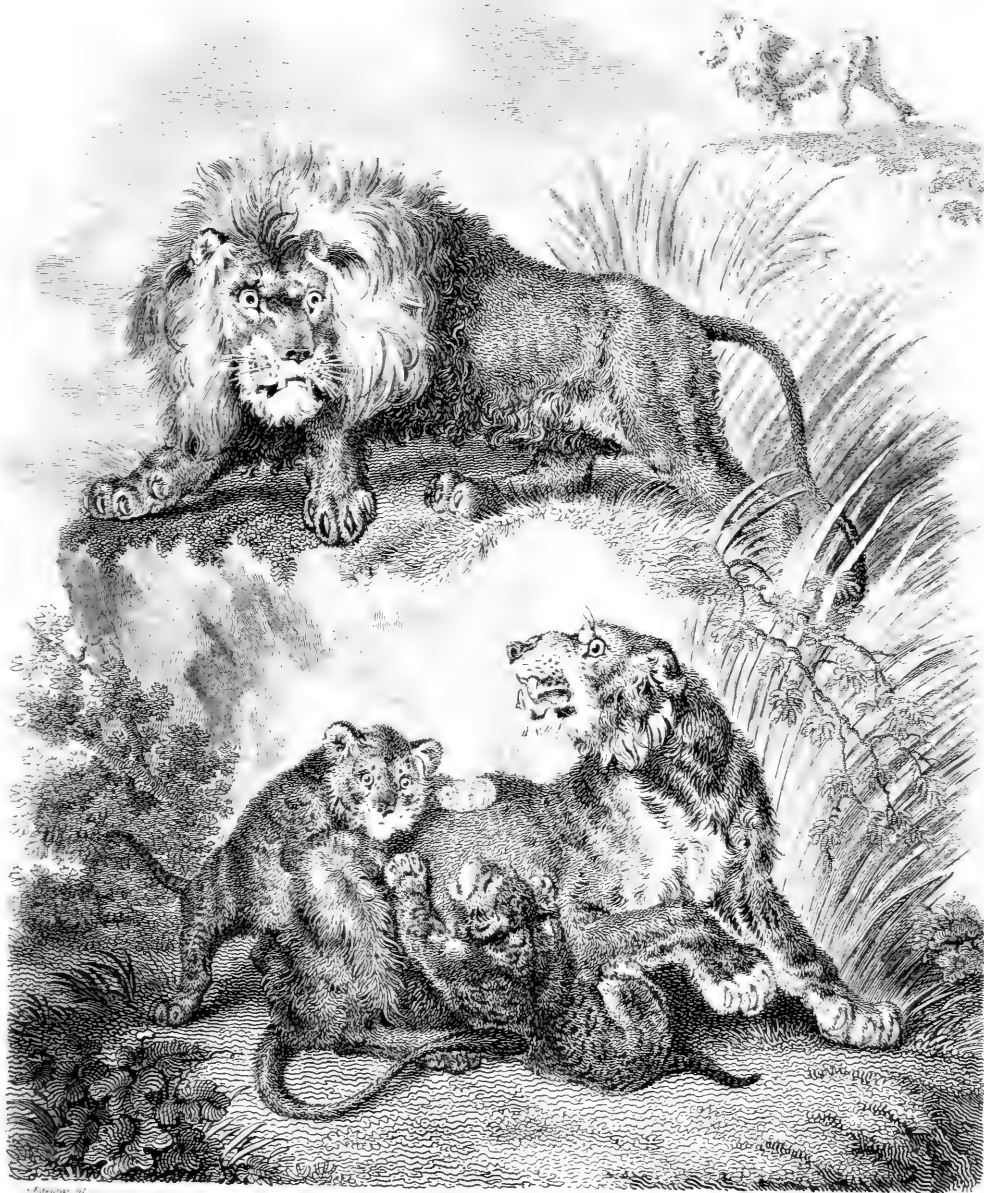


QUADRUPEDS.  
CLASS MAMMALIA. ORDER FERE. GENUS CANIS



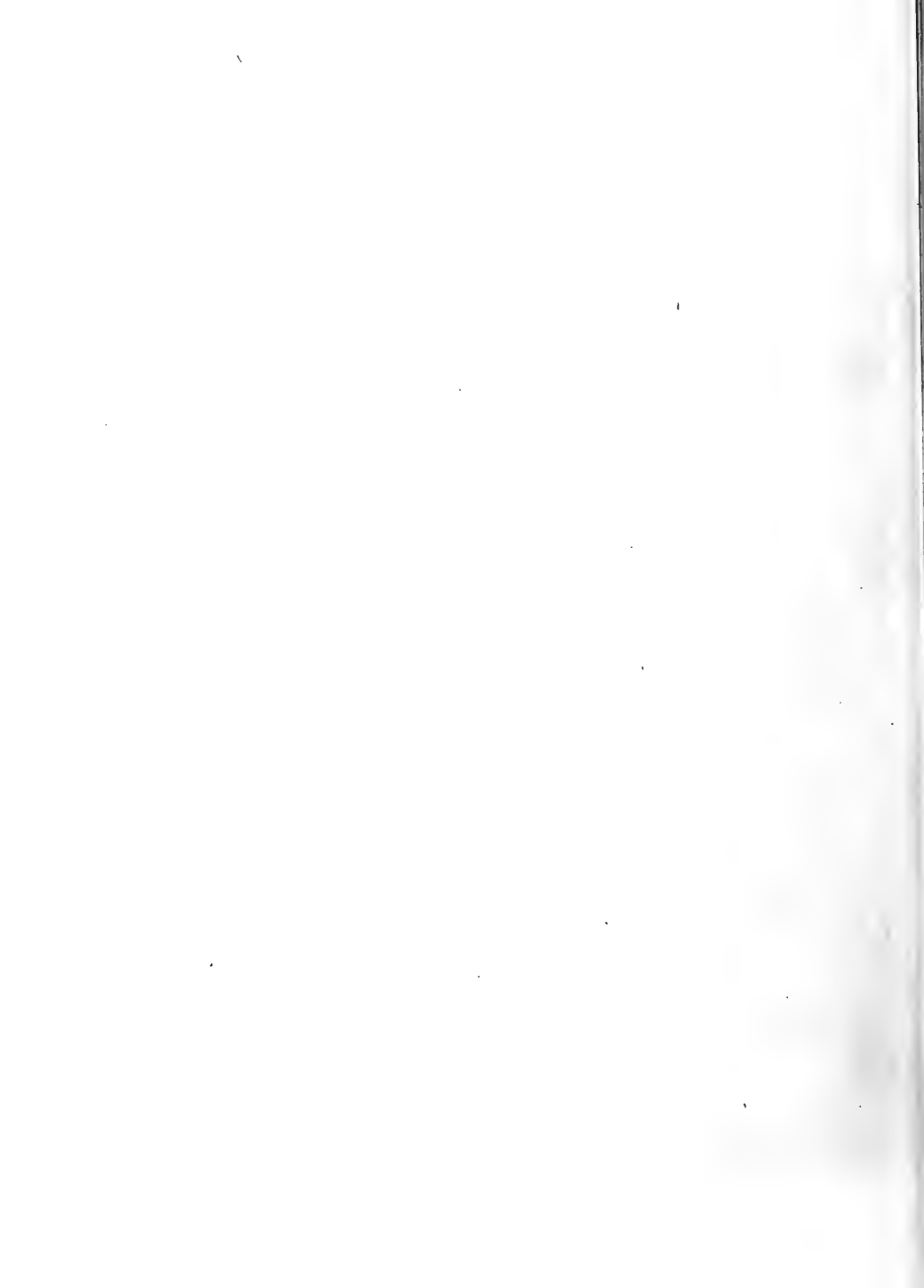
1. Canis Lupus, Wolf. 2. C. Ihyena, Striped Hyena. 3. C. Mesomelas, Cape Jackal.  
4. C. Vulpes, Common Fox. 5. C. Lagopus, Arctic Fox.

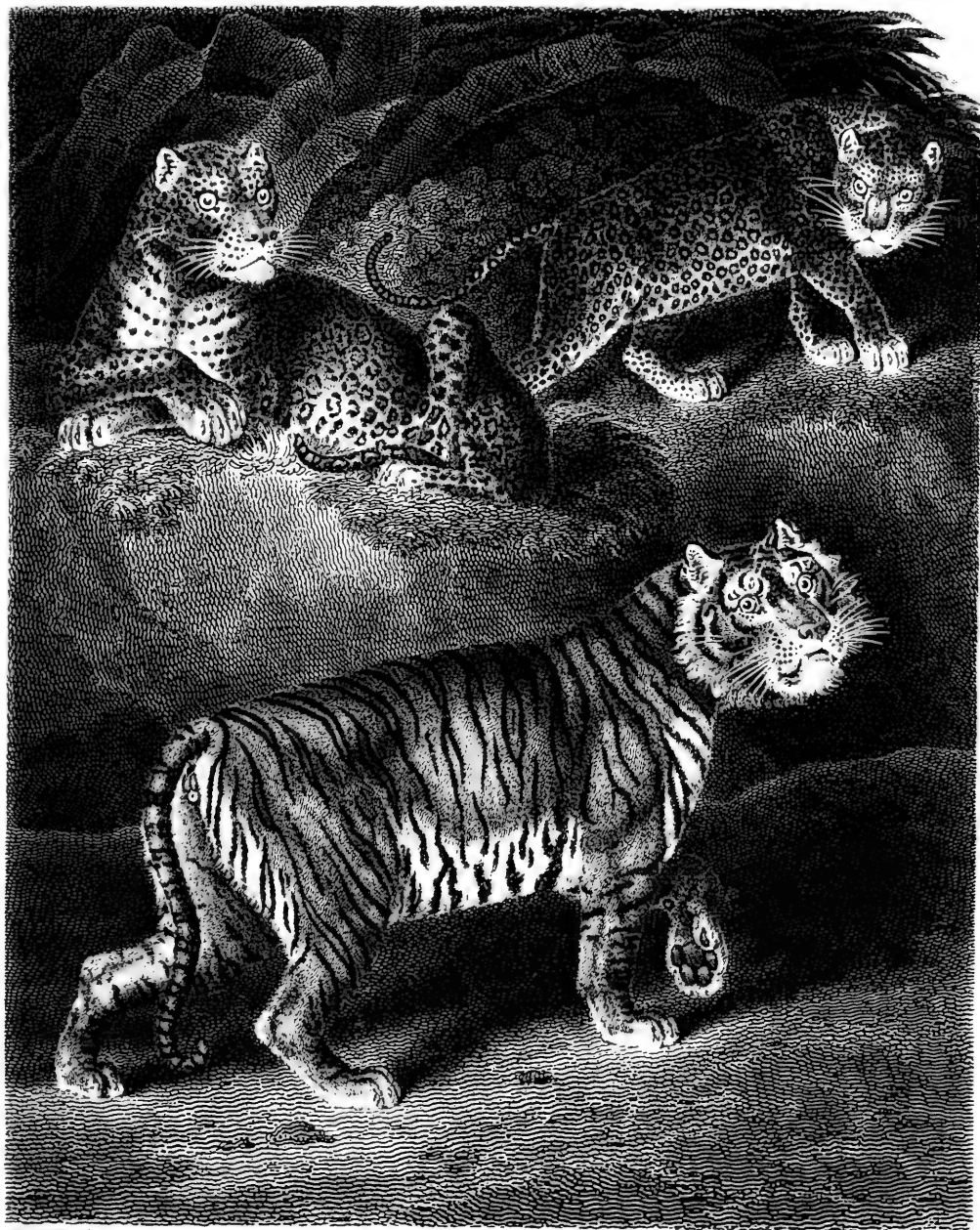




Felis Leo. Lion, Lioness & Young.

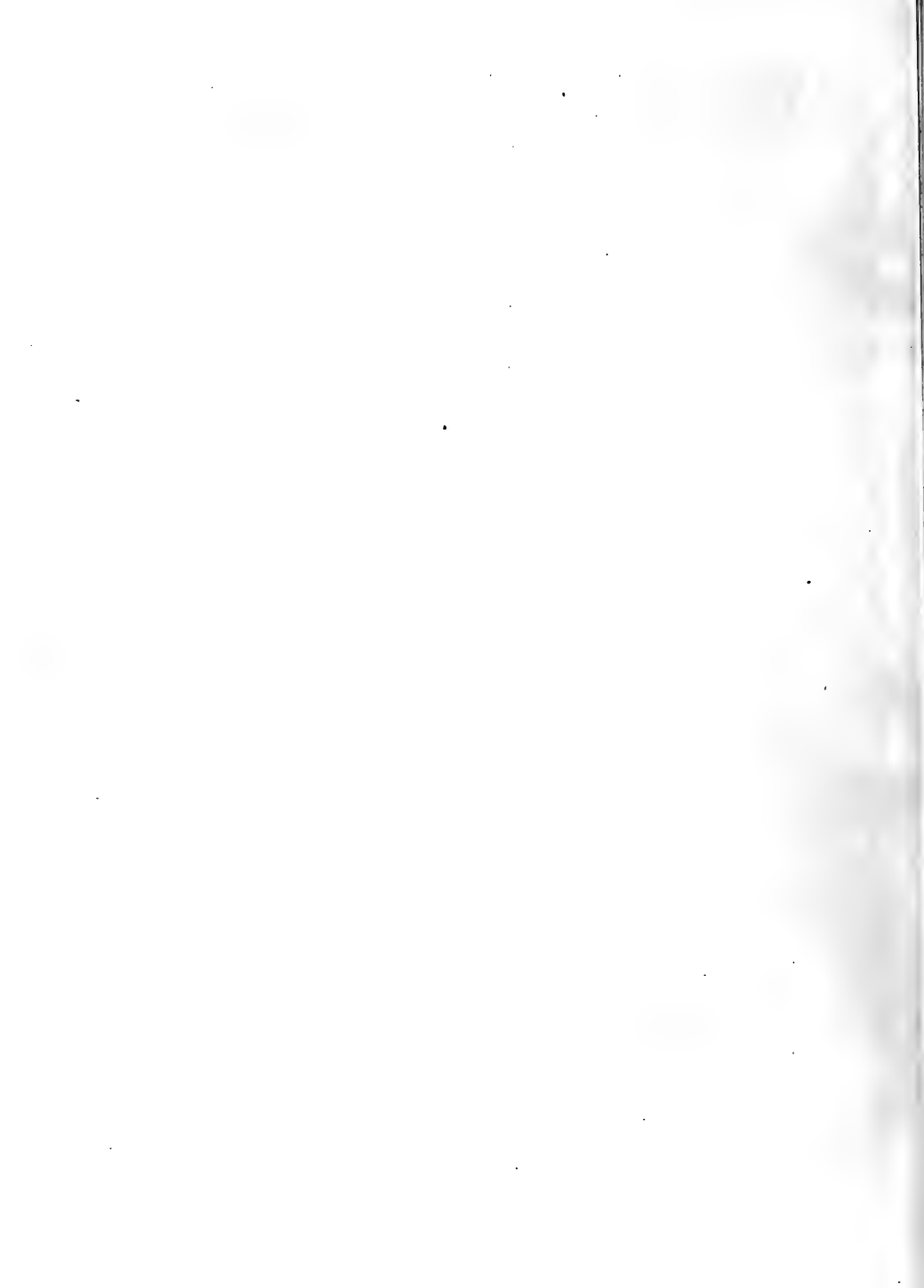
Engraved at the Art Academy, Jan. 1857 by Lewisman, Butcher & Co. Engraver, New York.





1. F. Tigris      2. F. Pardus      3. F. Leopardus  
 TIGER      PANTHER      LEOPARD

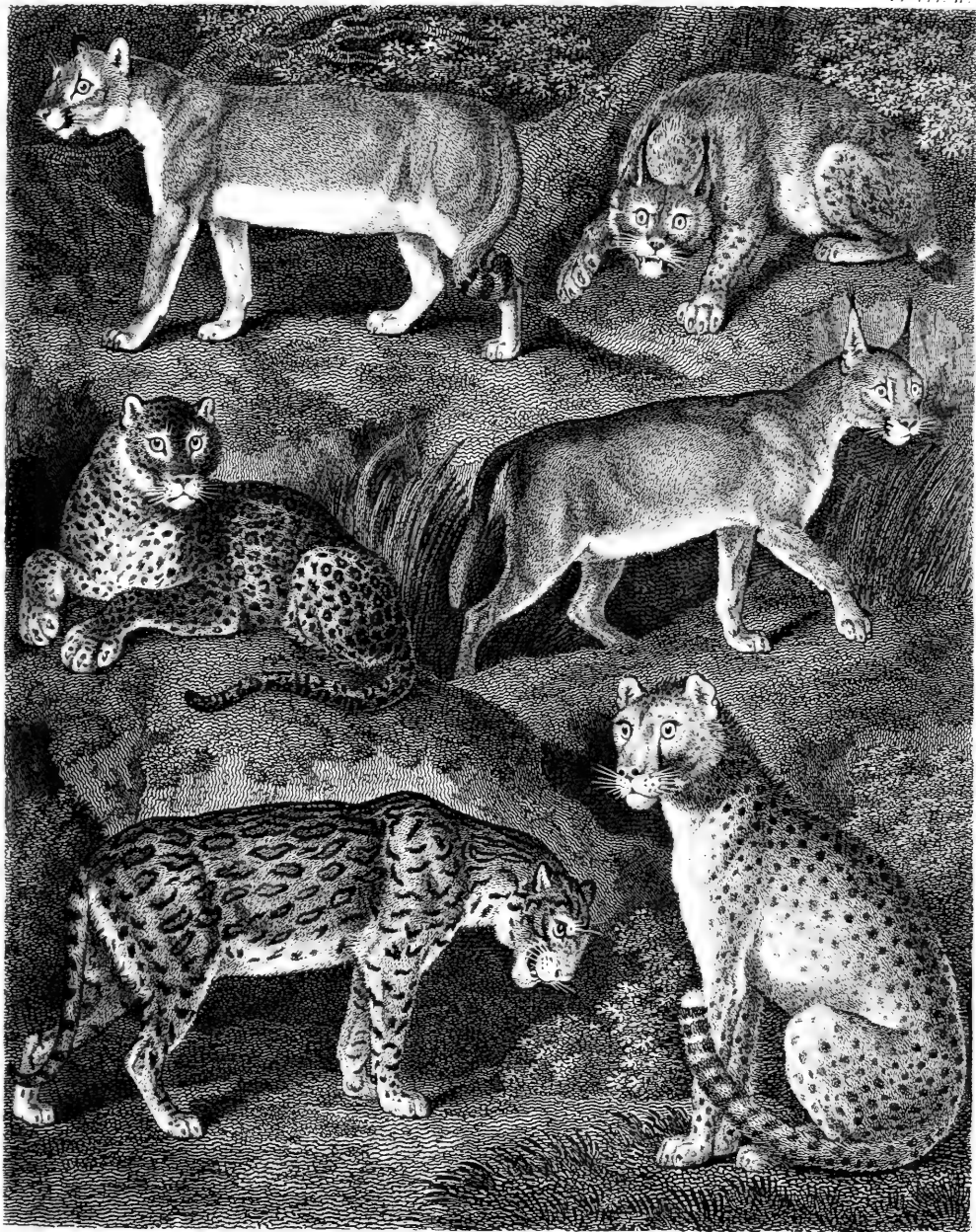
... and of the Art directed John C. Spang by Lequeur, in the Art. Reas. Paris, & Brown Pat. London.



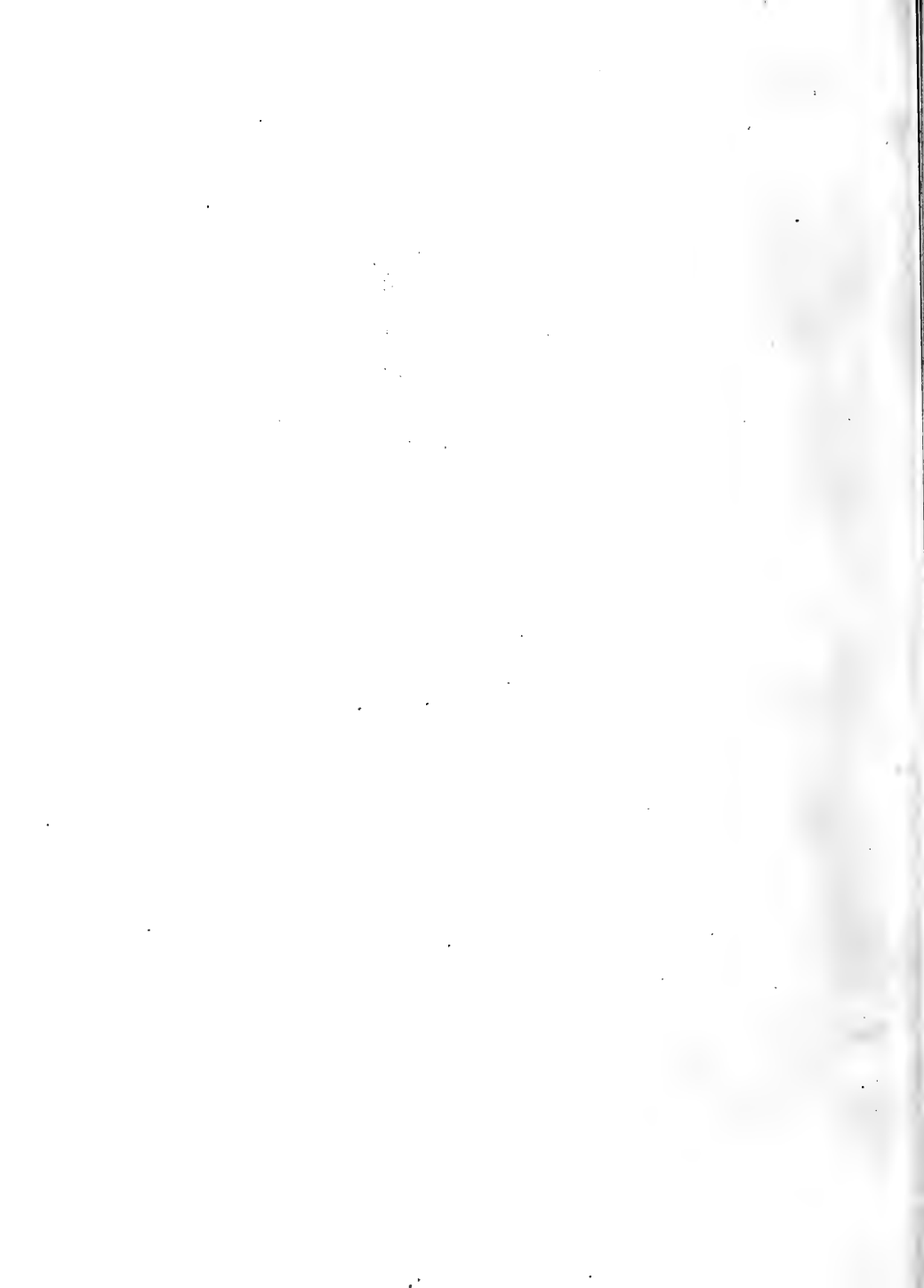
QUADRUPEDS

GENUS FELIS. TYGERS.

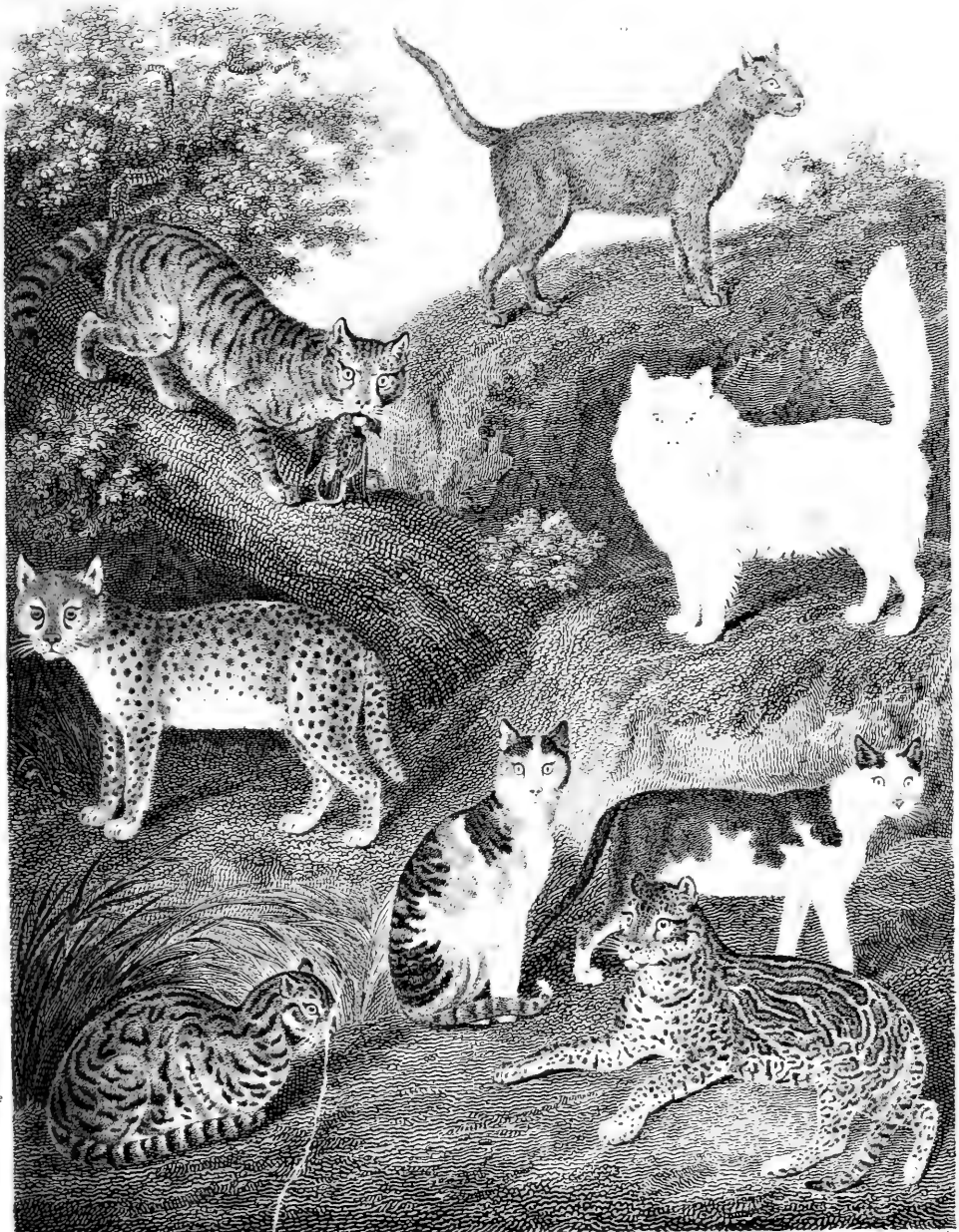
PLATE II



1. Felis tigris; 2. Felis tigris; 3. Felis tigris; 4. Felis tigris; 5. Felis tigris; 6. Felis tigris.

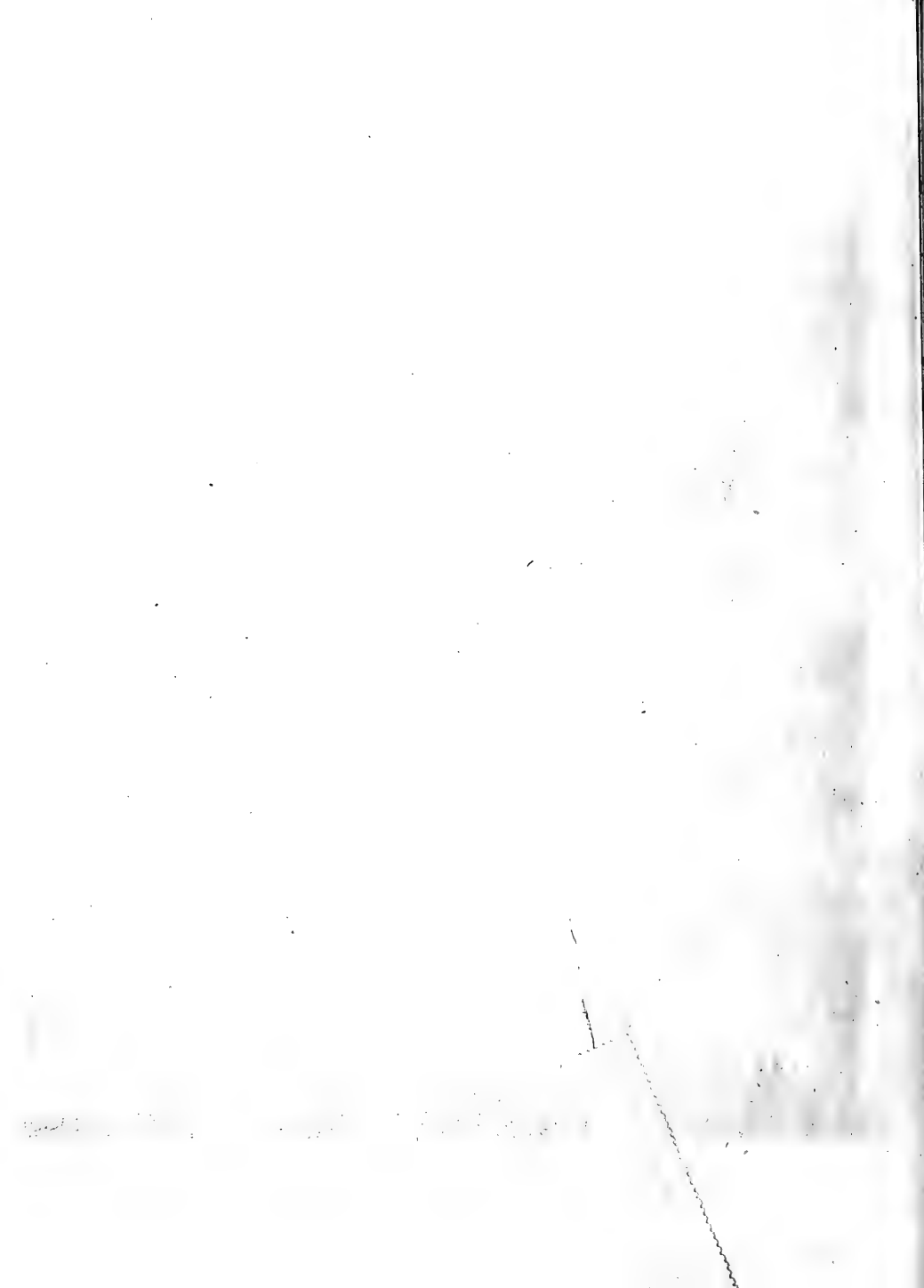




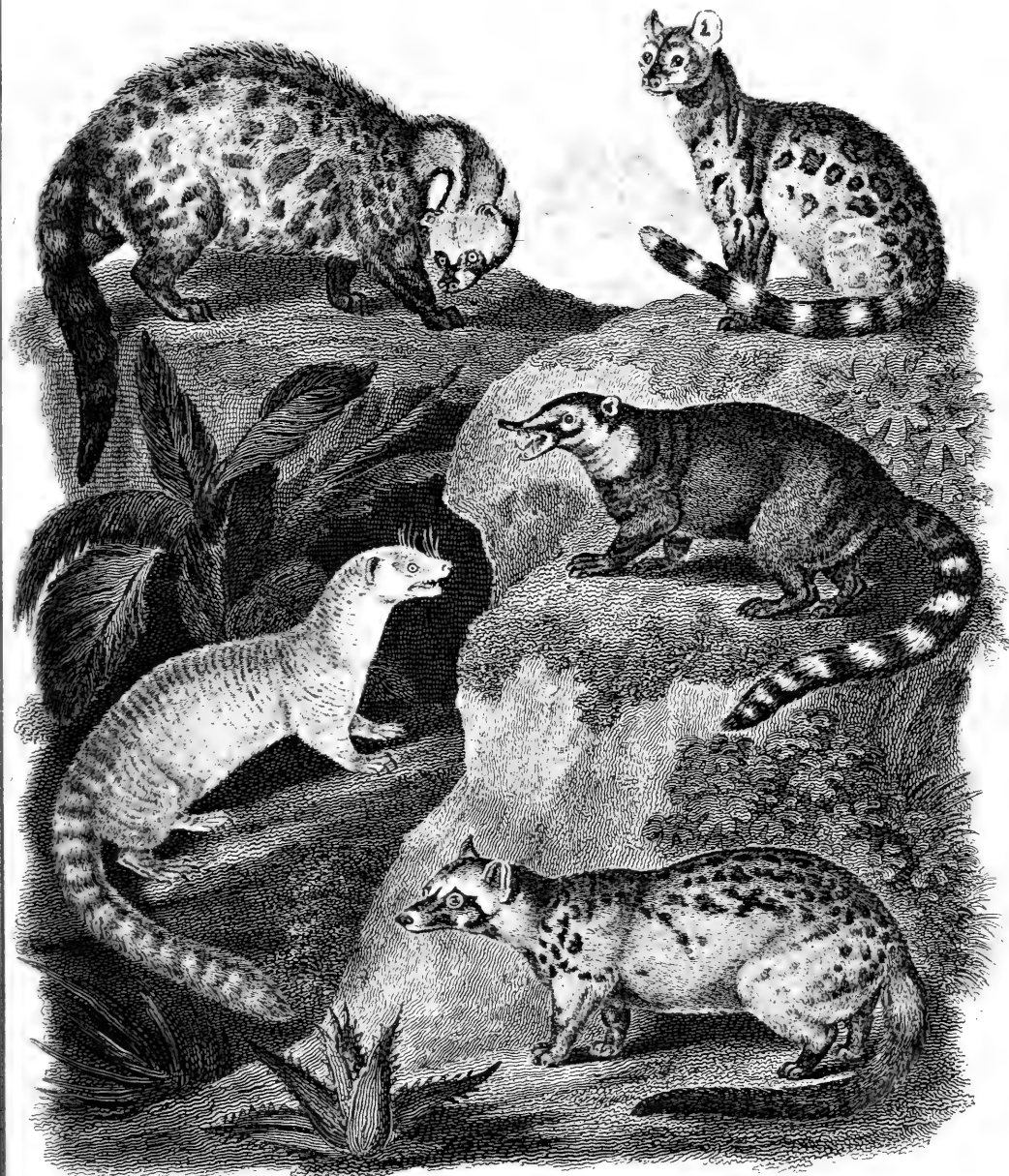


*F. domestica, del.*  
 Fig. 1. Felis Pardalis. Ocelot . 2. Felis Tigrina. Mangy . 3. Felis Serval. Serval . 4. Felis Canis. Wild Cat . 5. var. Domestic Cat . 6. var. Spanish or Tartar. Bull Cat  
 7. var. Angora Cat . 8. var. Slate Coloured Cat. or Chartreux .

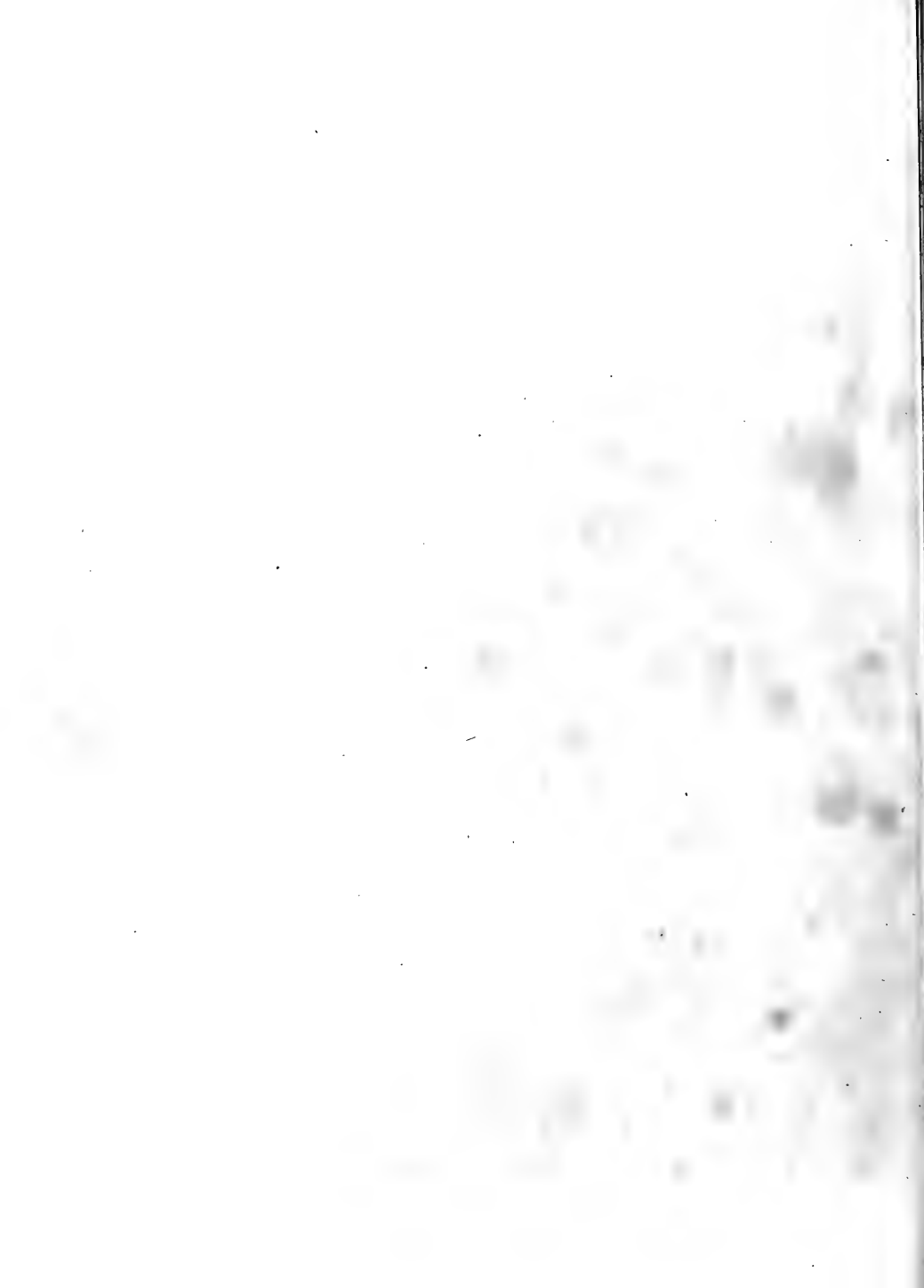
Published as the 1st direct. Decr 5<sup>th</sup> 1825. by Leeman West River & Orms. Paternoster Row



QUADRUPEDS  
ORDER FELI, GENUS VIVERRA.

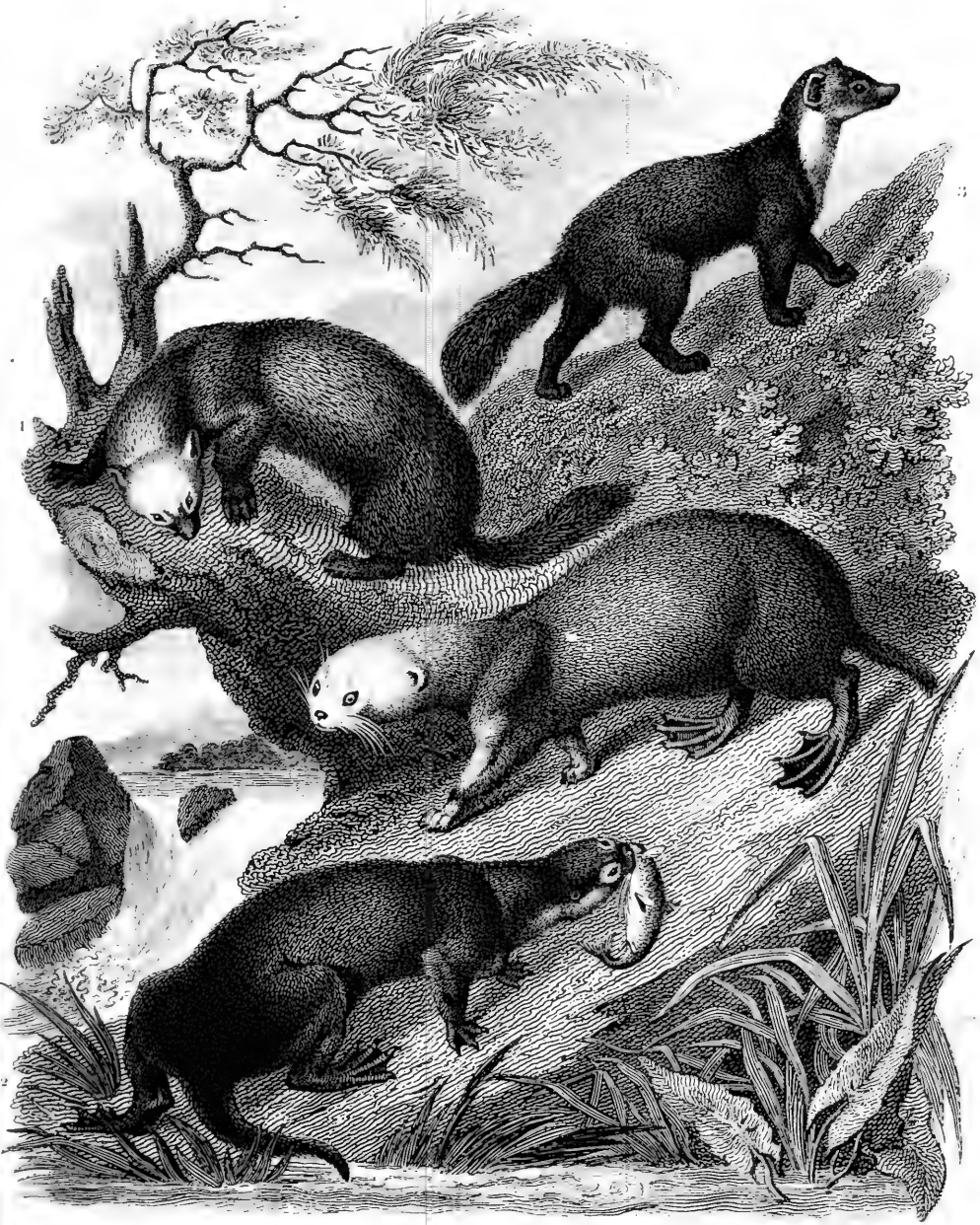


1. Zibetha, Zibet. 2. V. Tofsa, Tofsame. 3. V. Ichneumon, Ichneumon.  
4. V. Nasua, Brasilian, Weasel. 5. V. Civeta, Civet.

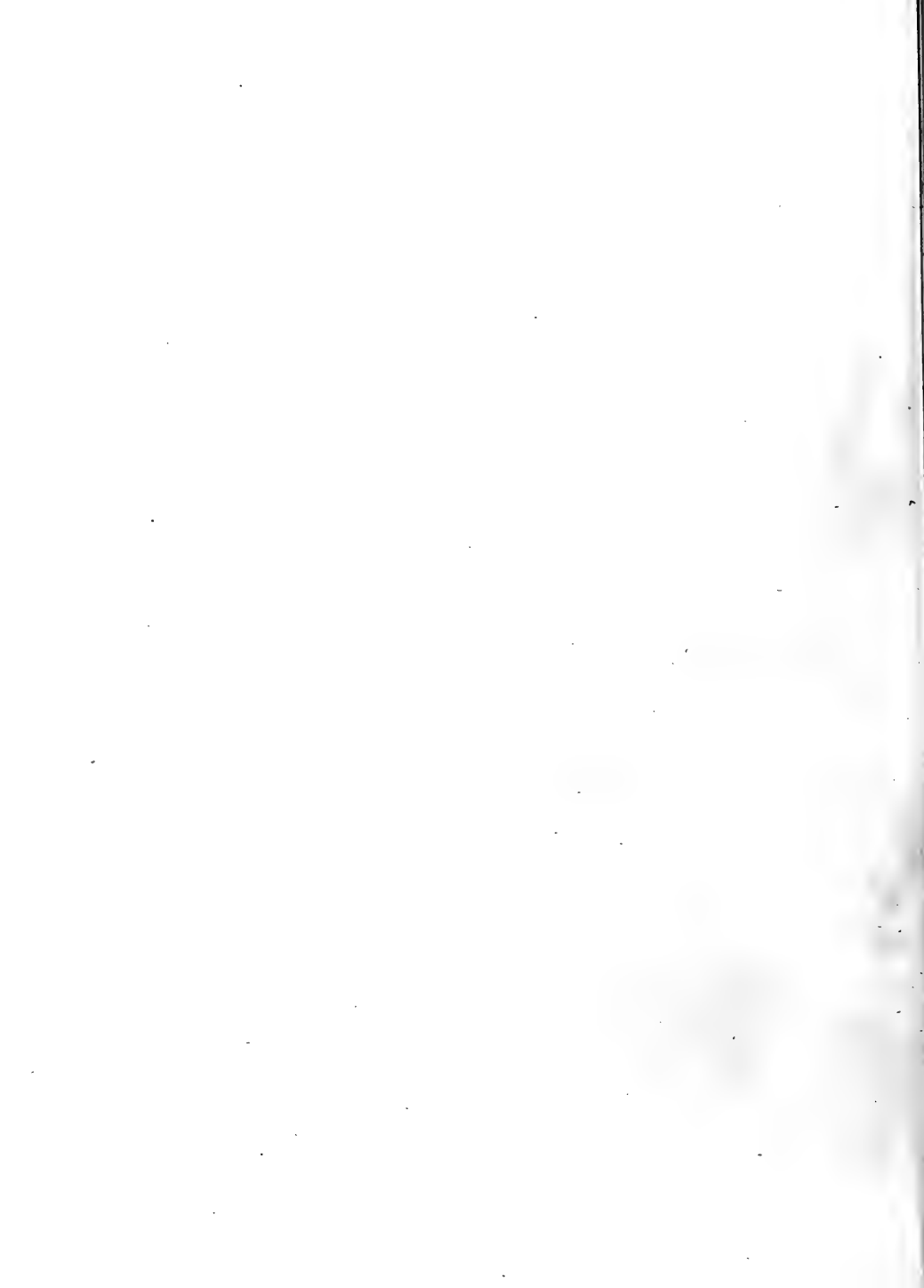


QUADRUPEDS.

CLASS MAMMALIA. ORDER FERA. GENUS MUSTELA.



1. M. Lutes. Sea Otter. 2. M. Lutra. Otter. 3. M. Tomia. Martin. 4. M. Zibellina. Sable.



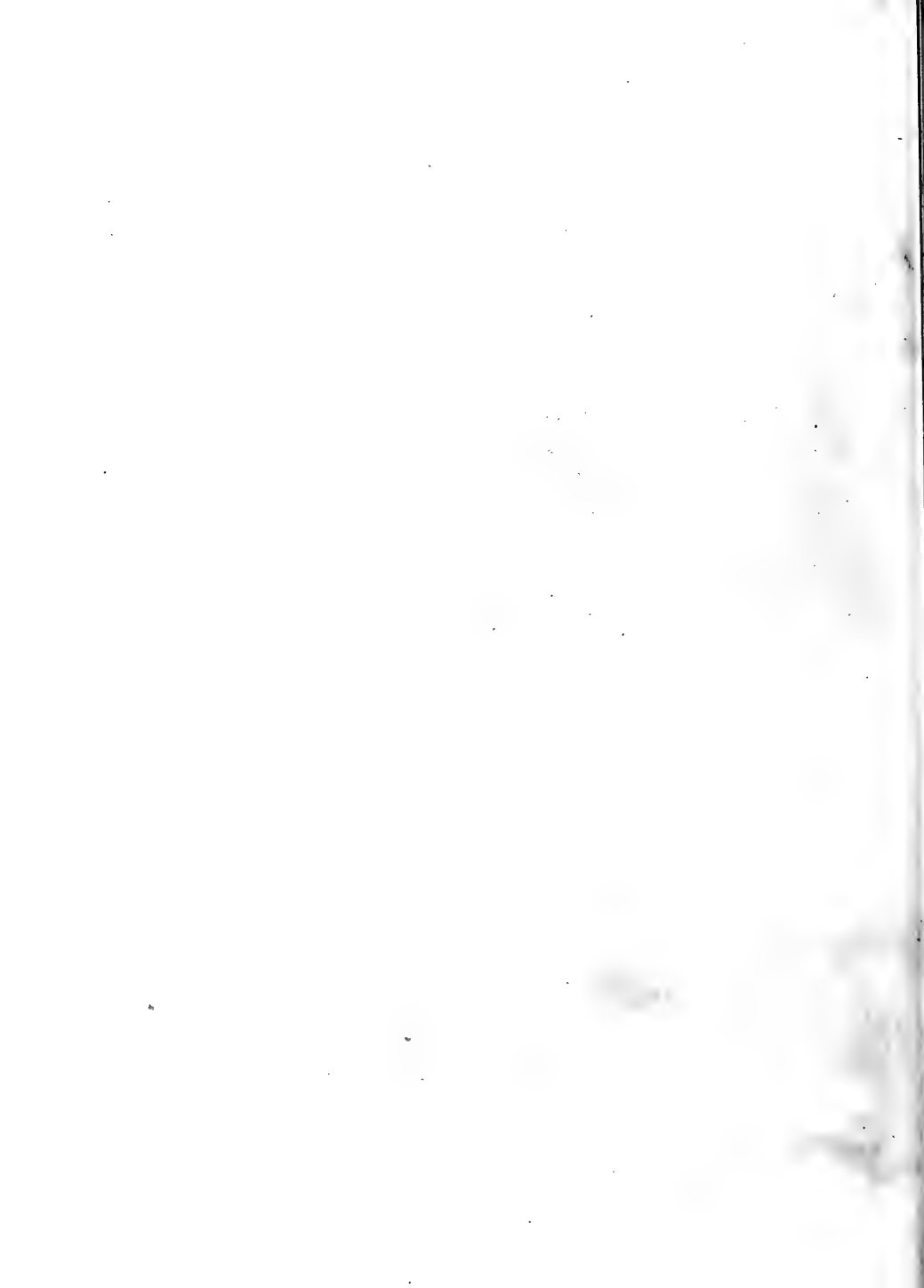
1851.

QUADRUPEDS.  
CLASS MAMMALIA. ORDER FERÆ. GENUS URSUS.



1. U. Americanus. American Bear.      2. U. Maritimus. Polar Bear.      3. U. Gulo. Glutton.      4. U. Meles. Badger.

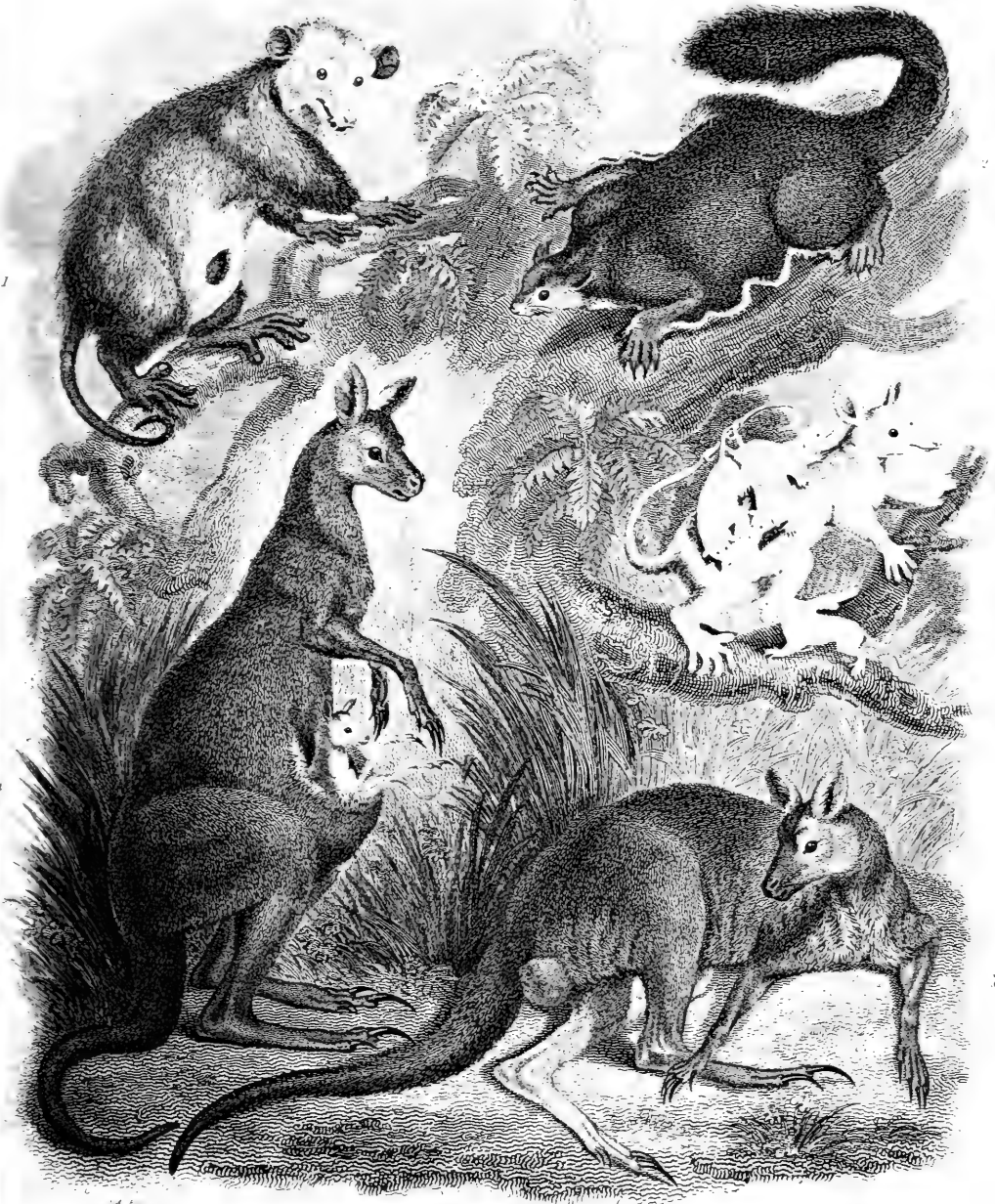
*Published by W. & A. G. Wood, and 147, No. 10, Cornhill, Boston, U.S.A.*



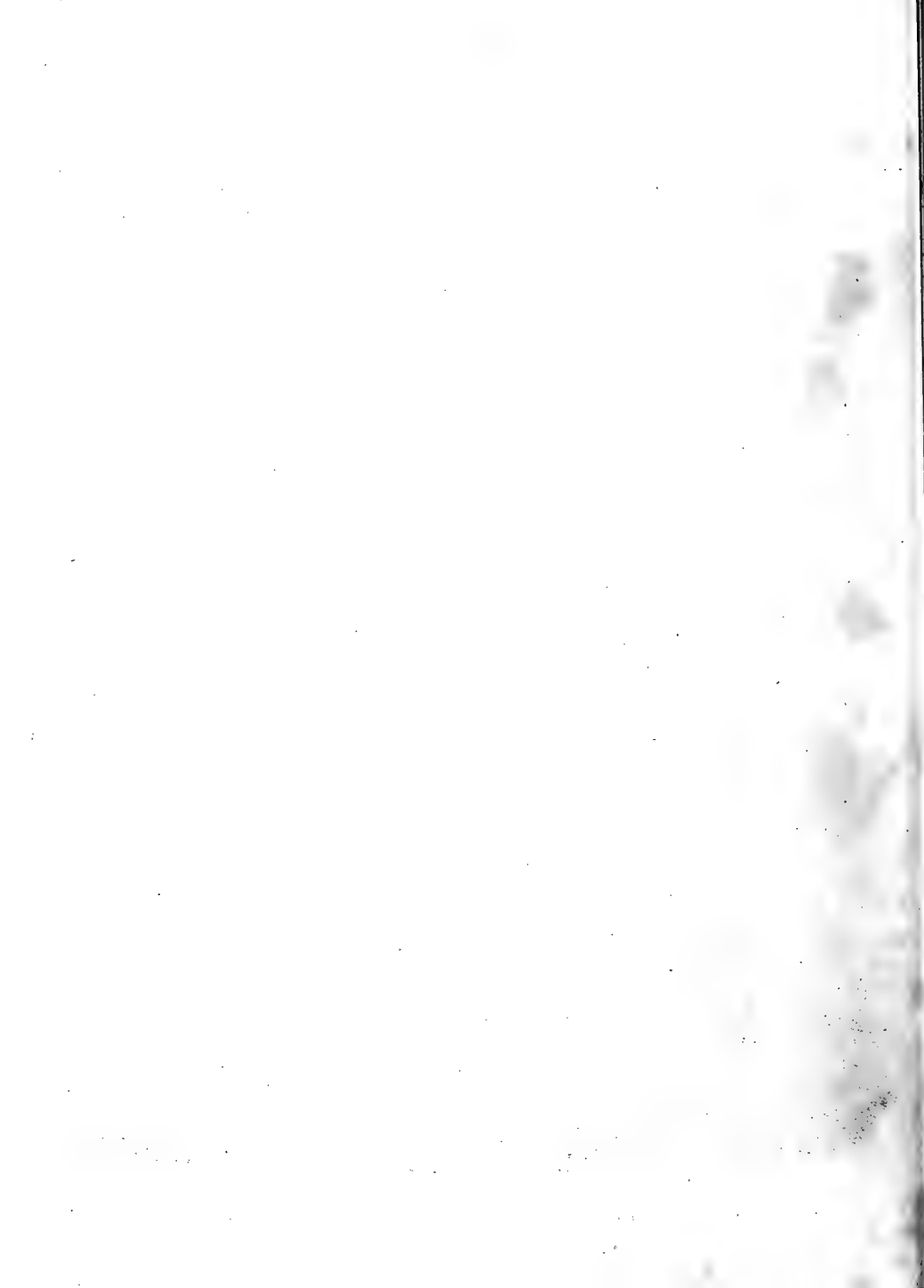


QUADRUPEDS.

GENUS DIDELPHIS, OPOSSUM, GENUS MACROPUS, KANGAROO.

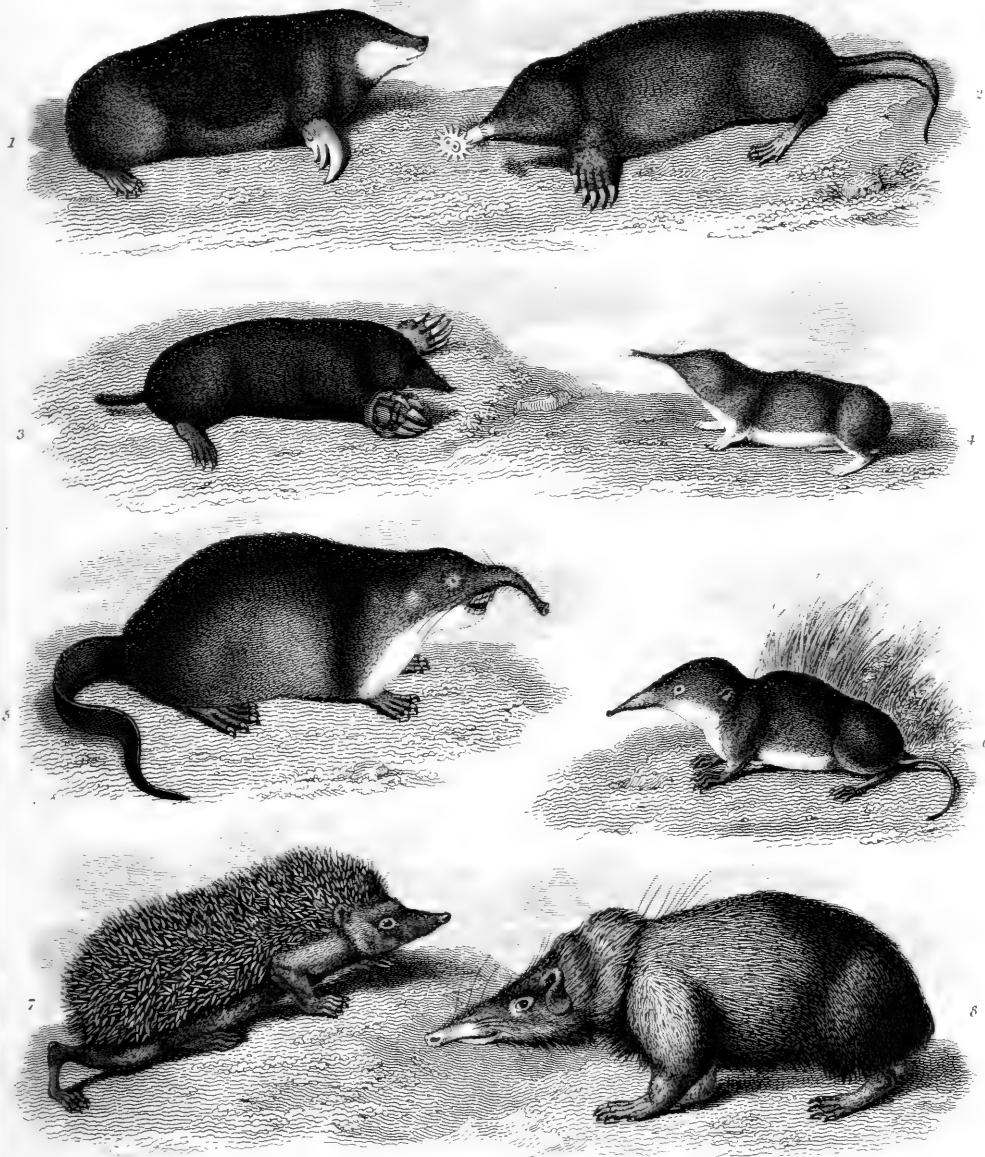


1.—D. Virginiana Virginian O. — 2 D. Petraeus Petraeinae O. — 3 D. Murina Marine O. — 4 D. Gigantea Great K. a. Mas. l. Fem.

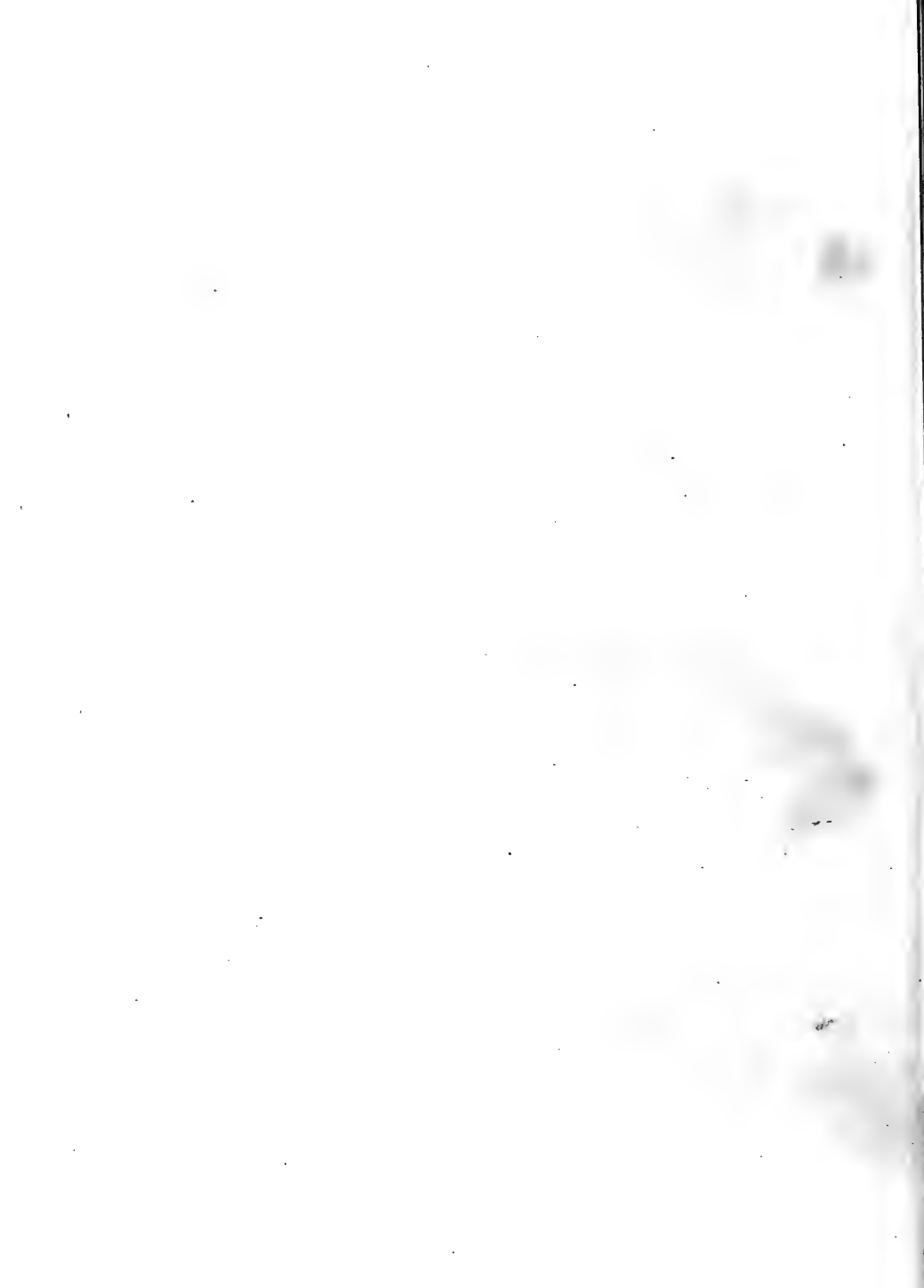


QUADRUPEDS.

MAMMALIA. ORDER FER.E. GENUS TALPA. MOLE. GENUS SOREX. SHREW. GENUS ERINACEUS. HEDGE-HOG.



1. T. Capensis. Cape M. 2. T. Longicaudata. Long-tailed M. 3. T. Europaea. Common M. 4. Sorex Minutus. Minute S. 5. S. Moschatus. Muskrat S.  
6. S. Araneus. Fossil S. 7. E. Europaeus. Common H. 8. E. Leucodatus. Madagascar H.

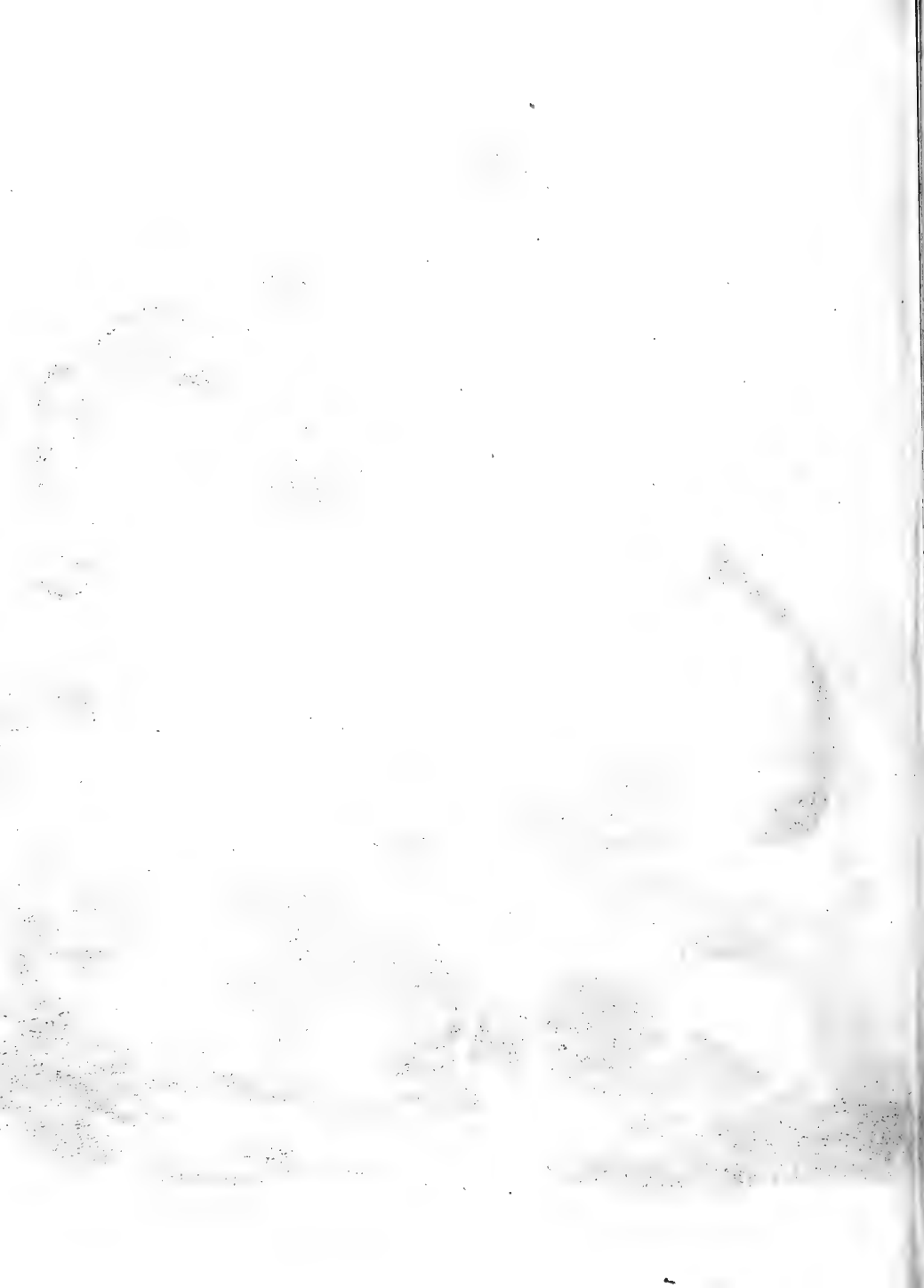


# QUADRUPEDS

CLASS MAMMALIA, ORDER GLIRES, GENUS HYSTRIX, GENUS CAVIA

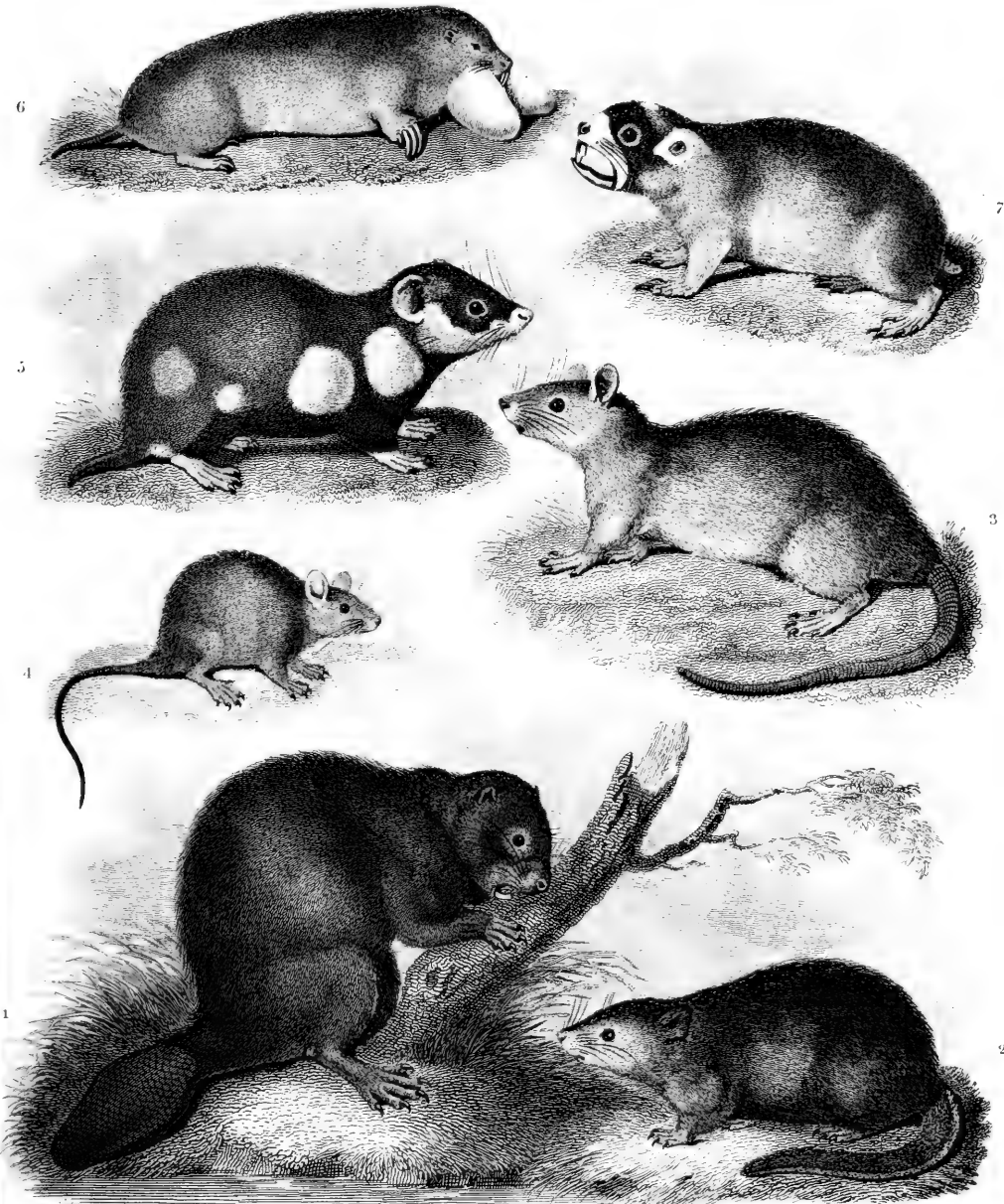


1. *Hystrix Crinita*, Common or Crested Porcupine. 2. *H. Prohensilis*, Brazilian Porcupine. 3. *H. Dorsata*, Canadian Porcupine. White var.  
 4. *Cavia Aguti*, Long-nosed Cavy. 5. *C. Magellanica*, Patagonian Cavy. 6. *C. Foca*, Spotted Cavy.



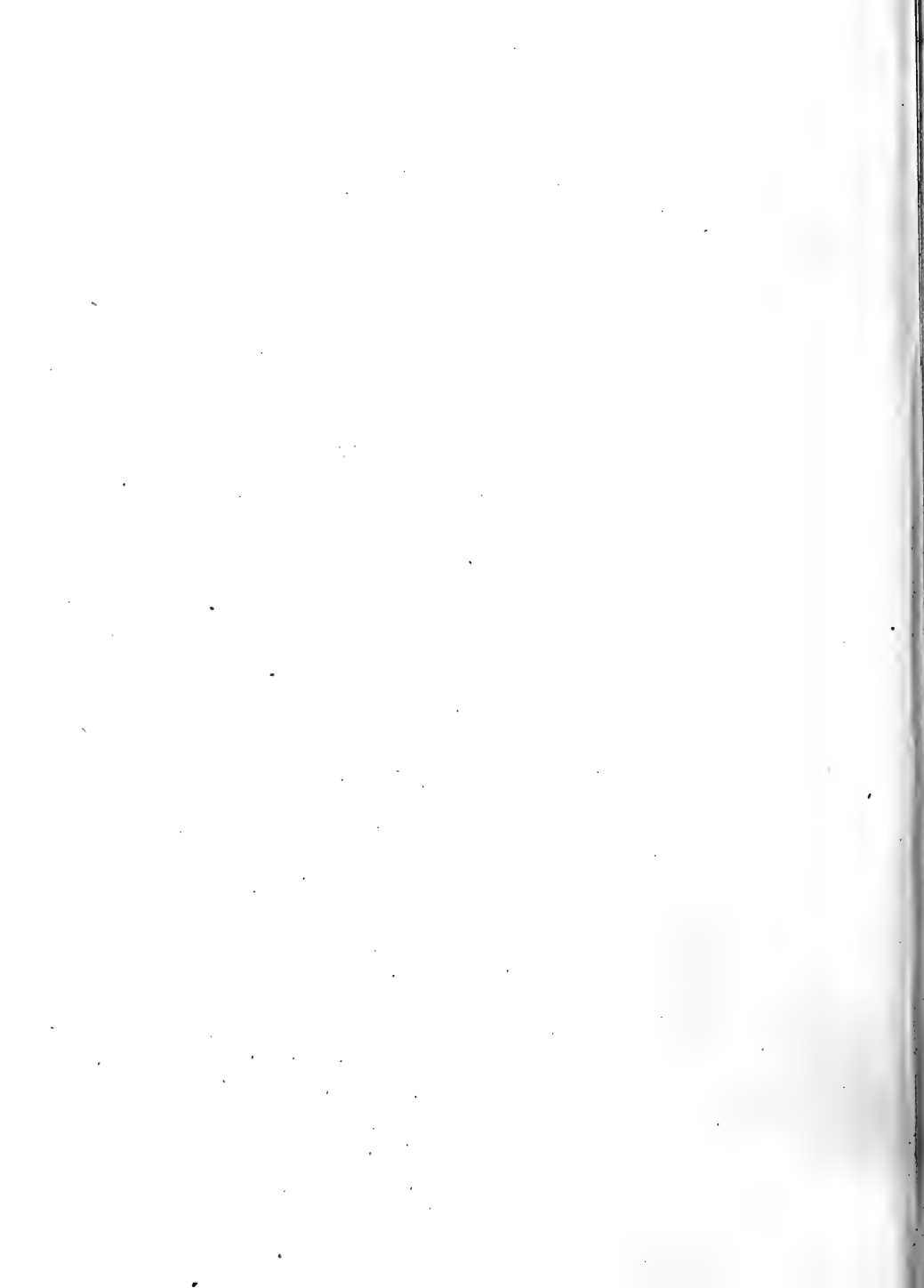
# QUADRUPEDS.

CLASS. MAMMALIA. ORDER GLIRES. GENUS CASTOR. BEAVER. GENUS MUS. RAT.



1. C. Fiber, Beaver. 2. M. Zibethicus, Musk R. 3. M. Drecumanus, Norway R.  
 4. M. Musculus, Common Mouse. 5. M. Cricetus, German Hamster R.  
 6. M. Bursarius, Canada R. 7. M. Capensis, Cape Mole R

*Published by the American Museum of Natural History, New York*

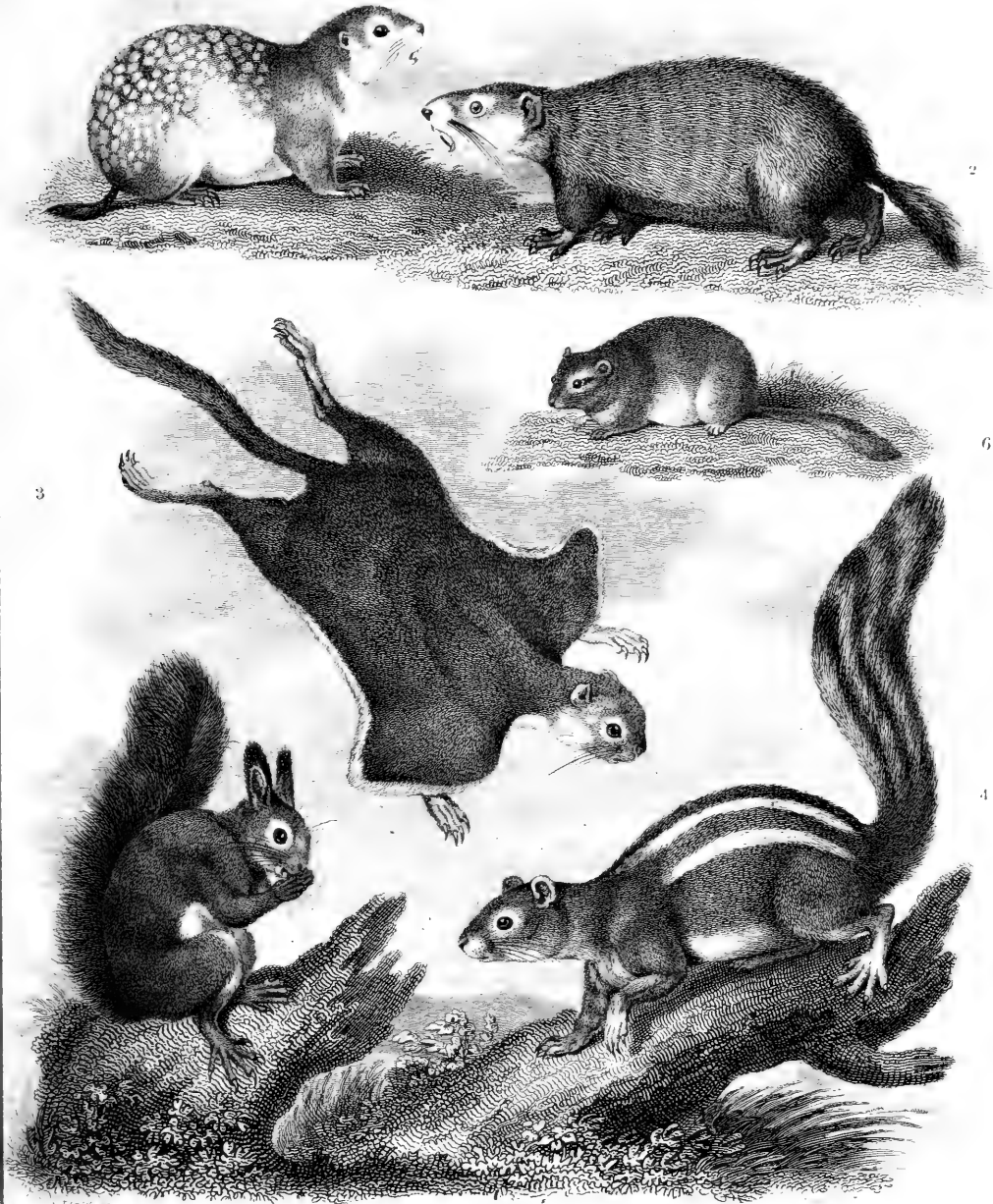




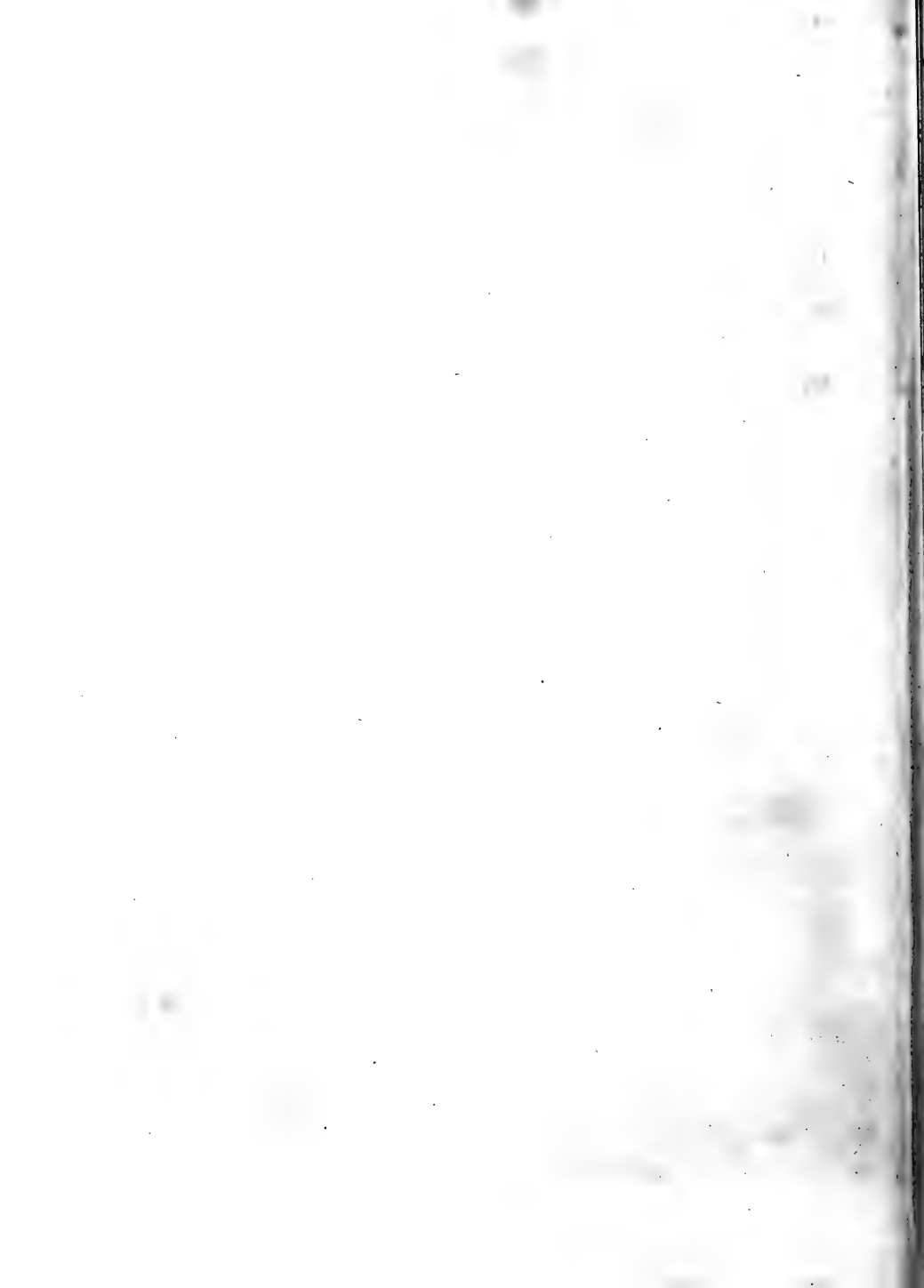
QUADRUPEDS.

CLASS MAMMALIA, ORDER GLIRES, GENUS ARCTOMYS, MARMOT, GENUS SCIURUS, SQUIRREL, GENUS MYOXUS, DORMOUSE.

Syst.

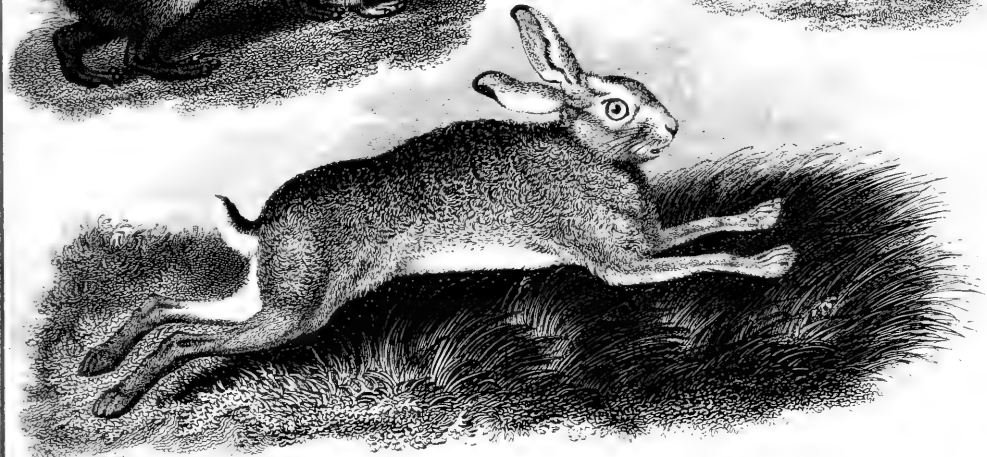
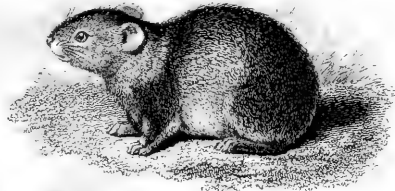
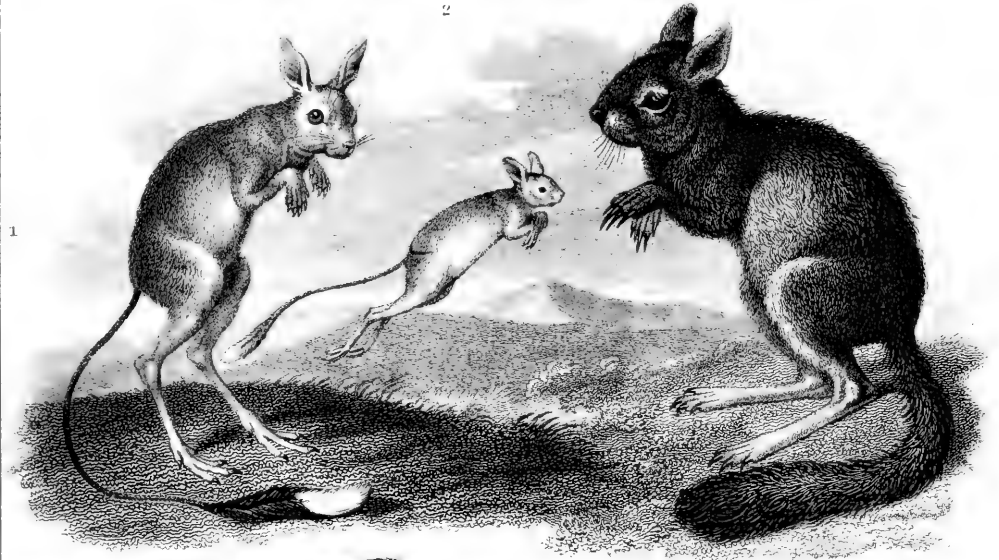


1. A. Citillus, Variegated M. 2. A. Emmebra, Canadian M. 3. S. Jettarista, Tachan or Sailing's  
 4. S. Citillus, Baelong S. 5. S. Valgus, Common S. 6. M. Muscevolans, Common D.

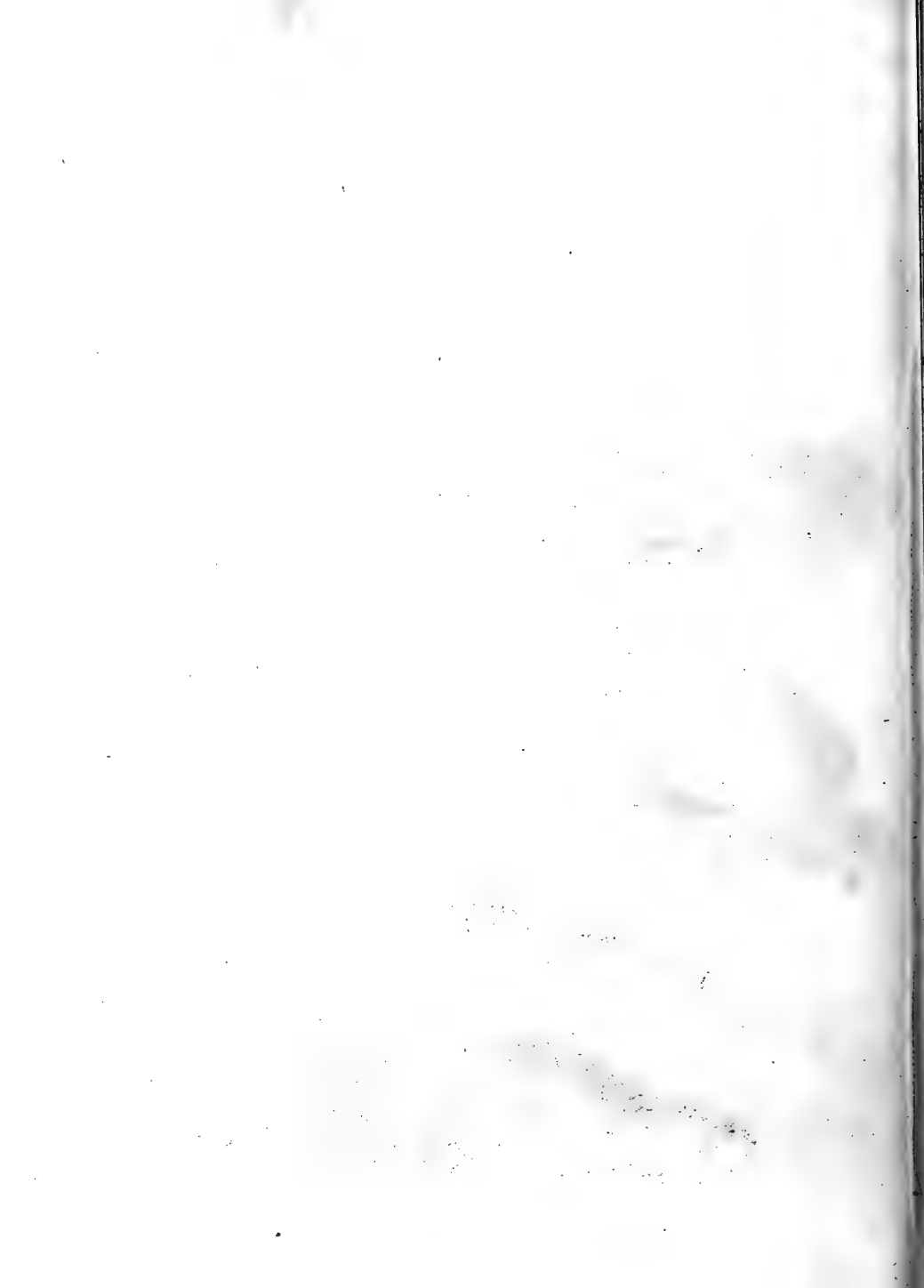


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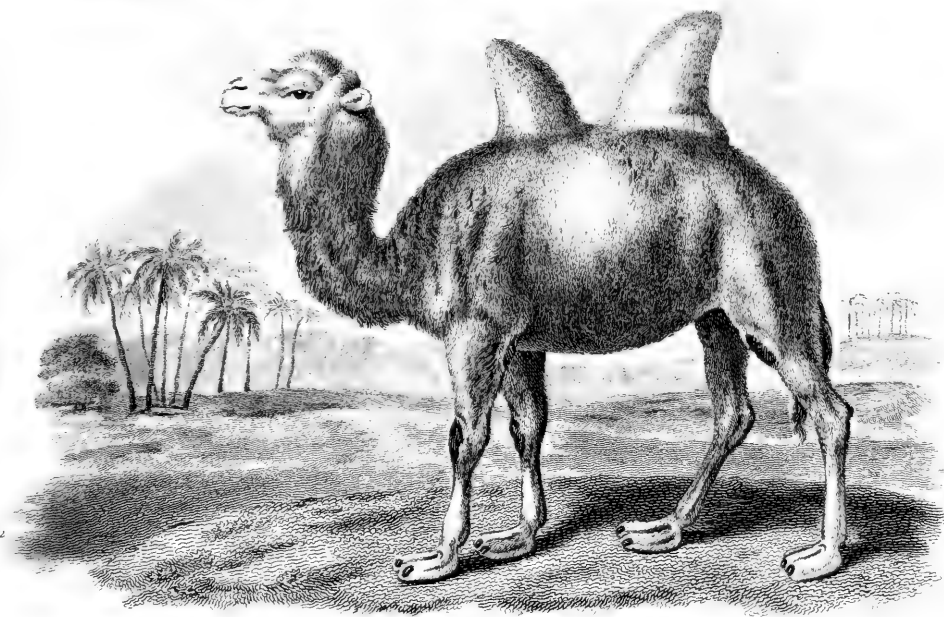
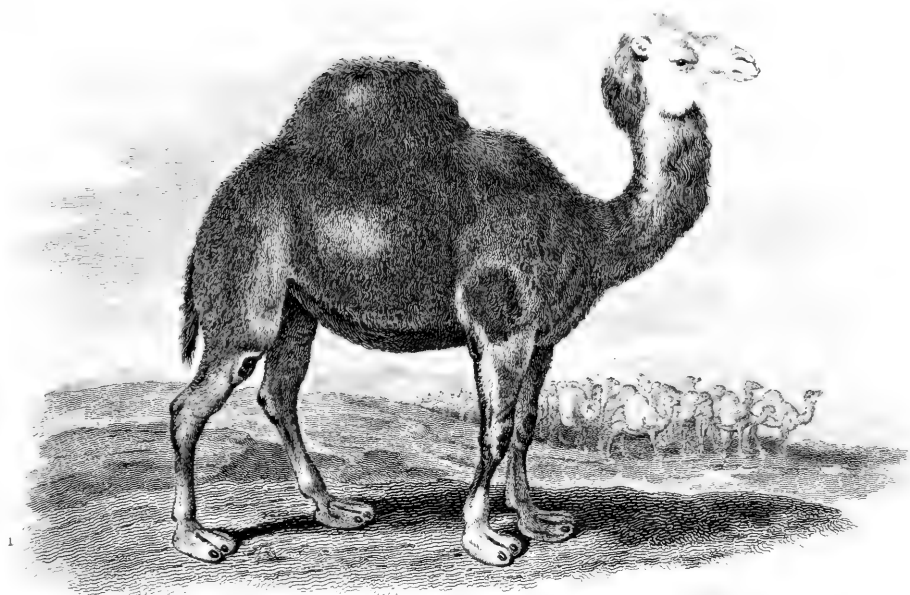
CLASS MAMMALIA. ORDER GLIRES. GENUS DIPSUS. JERBOA. GENUS LEPUS, HARE. GENUS HYRAX.



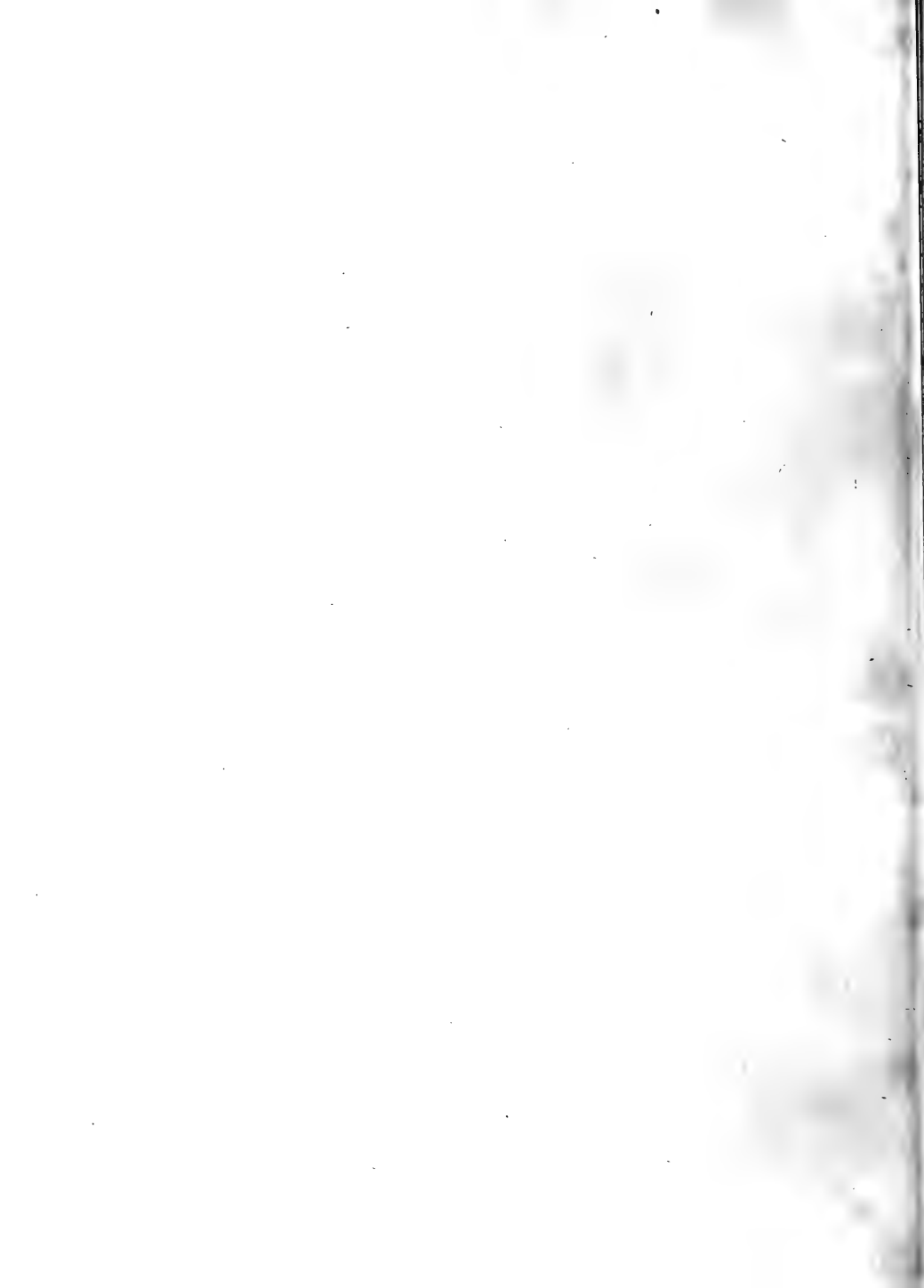
1. *Dipus Jaculus* Alagtaga. 2. *D. Sagitta* Arabian I. 3. *D. Cafer* Cape I.  
 1. *Lepus Timidus* Common Hare. 5. *L. Alpinus* Alpine H. 6. *Hyrax* Capensis Cape Hyrax.



1. DROMEDARY  
MAMMALIA ORDER. FIGURA GENUS. CAMELUS

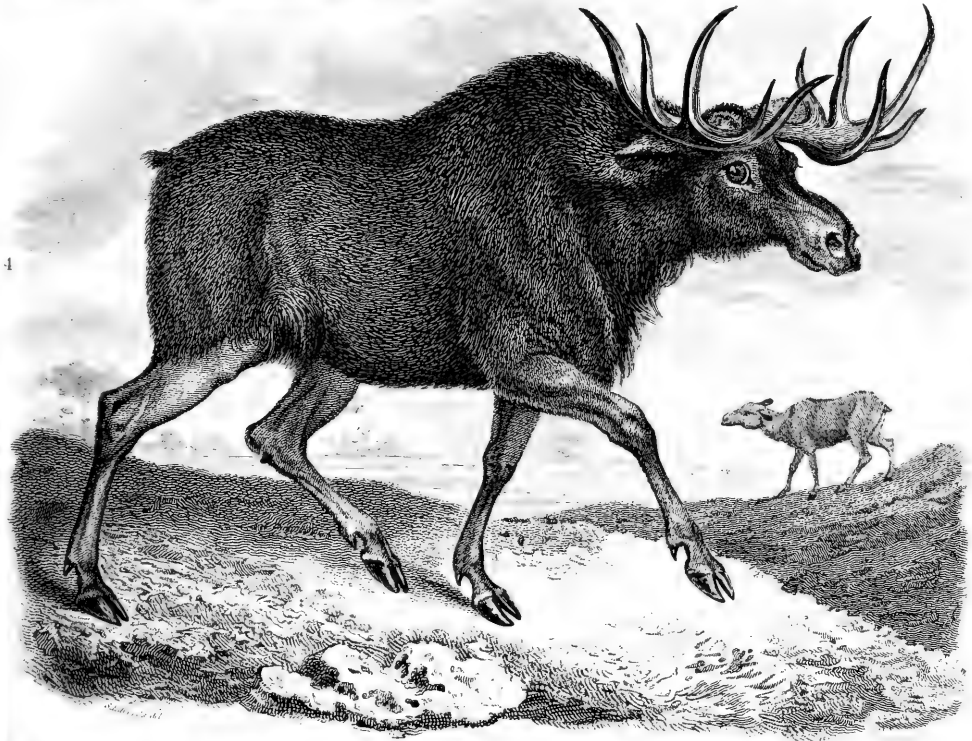
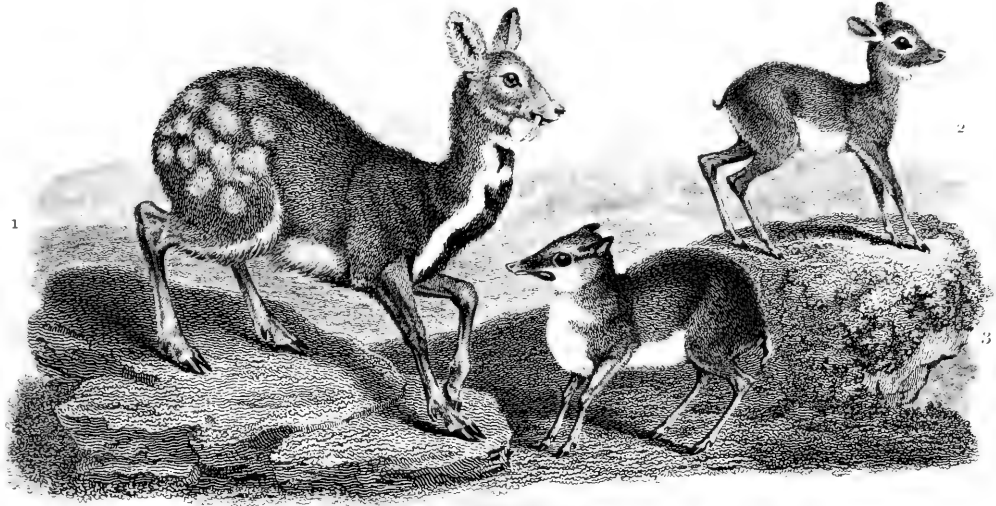


1 Camelus Dromedarius Arabian Camel, or Dromedary.      2 Camelus Bactrianus Bactrian Camel



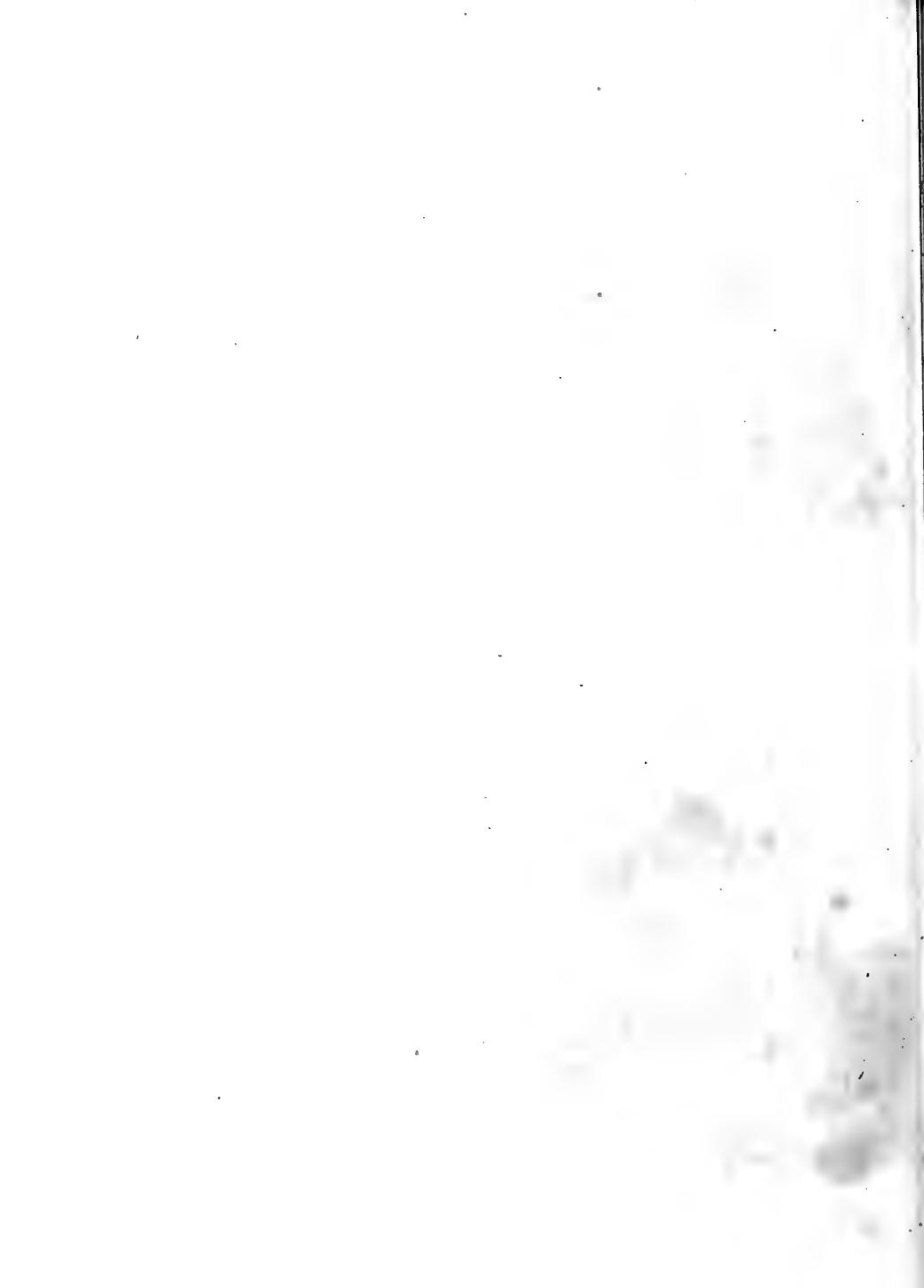
QUADRUPEDS

CLASS MAMMALIA. GENUS MOSCHUS MUSK. GENUS CERVUS DEER.



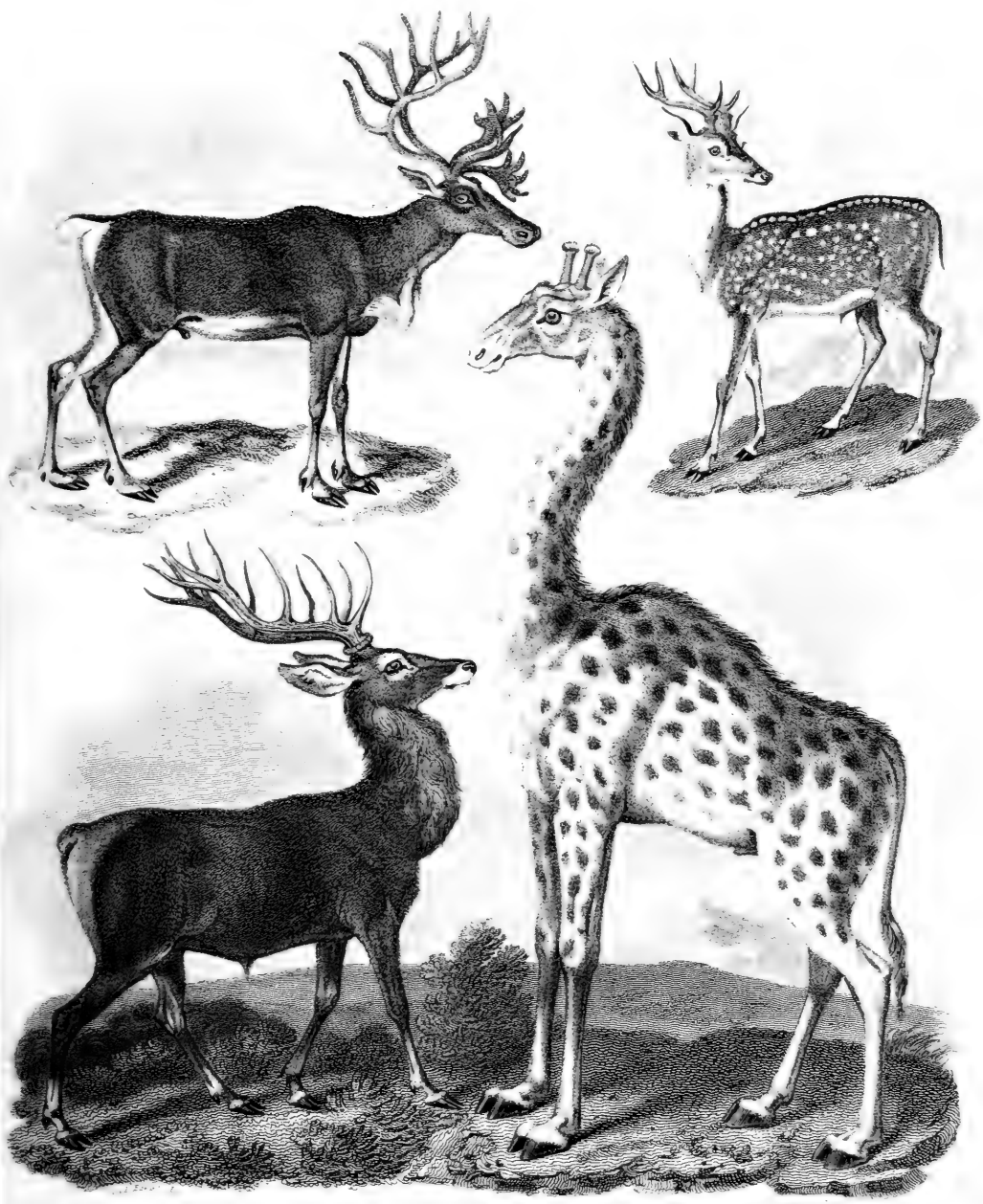
1. Moschus Moschiferus. Thibet Musk. 2. Mospygæus. Guinea M. 3. M. Javanicus. Java M. 4. Cervus Alces. Elk.

*Engraved by J. G. Thompson. Published by J. G. Thompson, New York.*





QUADRUPEDS.  
MAMMALIA GENUS CERVUS GENUS CAMELOPARDALIS.

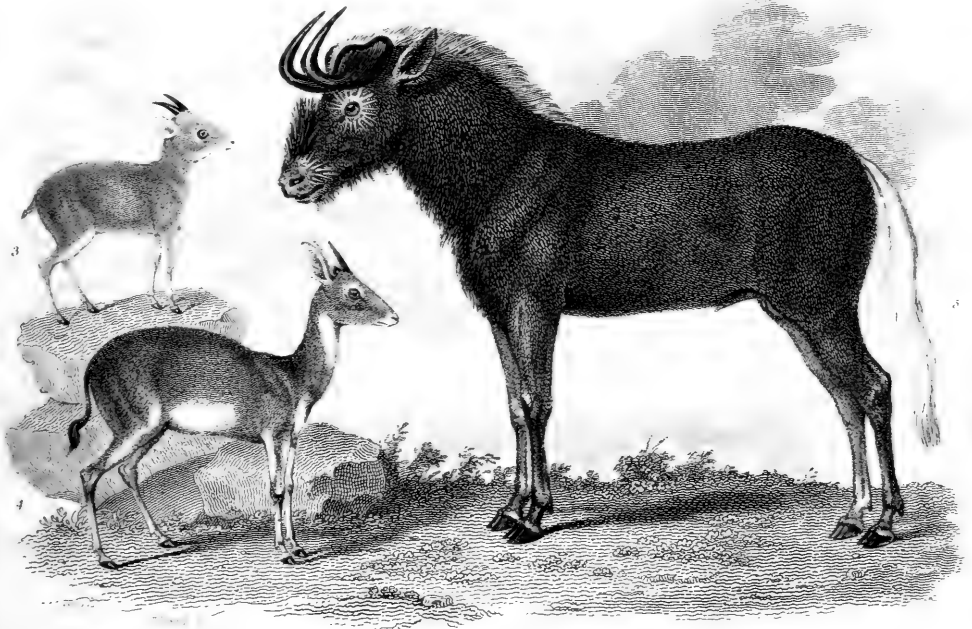
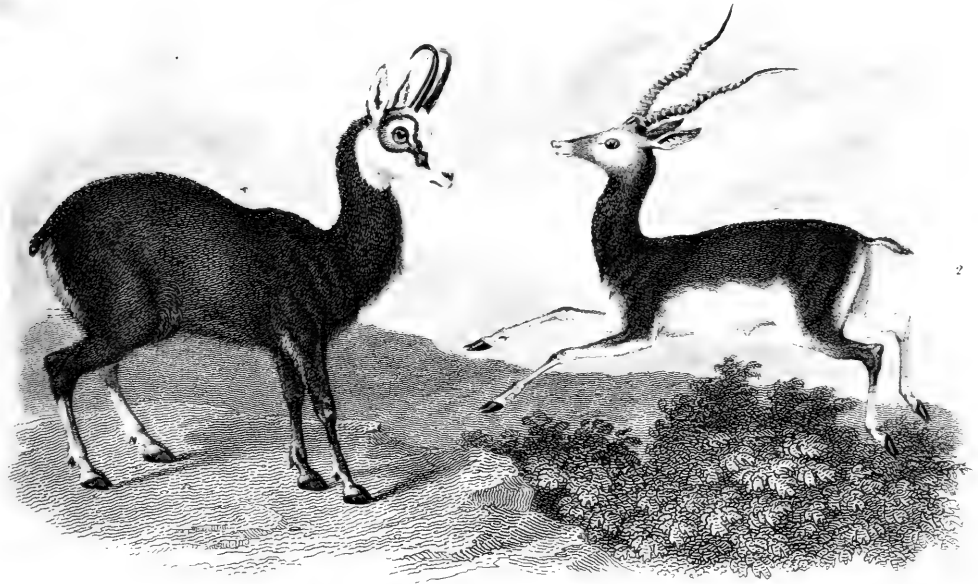


1. C. tarandus Rein Deer — 2. C. elaphus Stag Hart or Red Deer — 3. C. axis Spotted Axis — 4. Camelopardalis Giraffa Camelopard.



QUADRUPEDS.

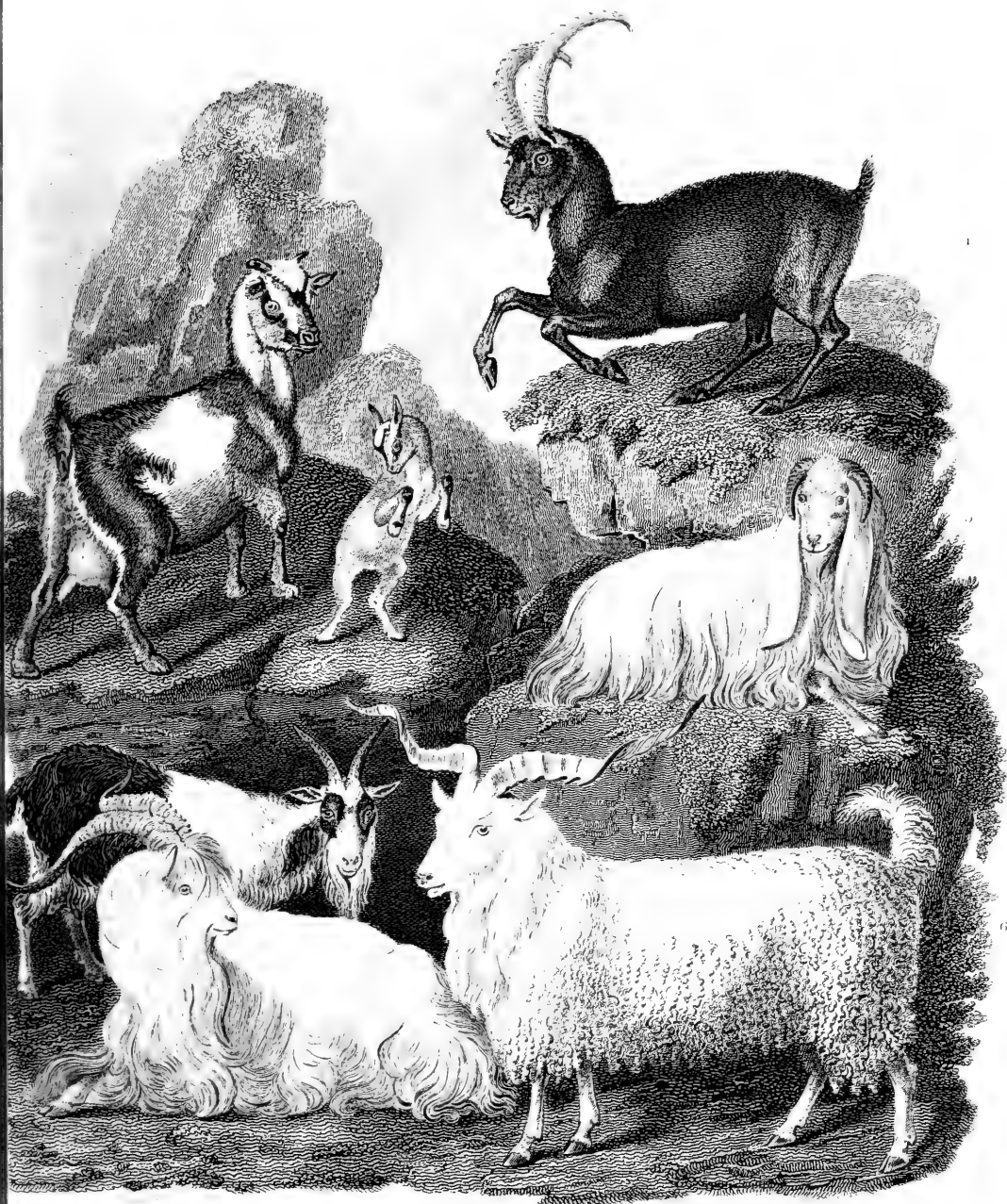
CLASS MAMMALIA. GENUS ANTILOPE. ANTELOPE.



1. A. Rupicapra Chamus A. 2. A. Cervicapra Common A. 3. A. Pygmae Royal A. 4. A. Grimmera Guinea A. 5. A. Gnu. Gnu. A.

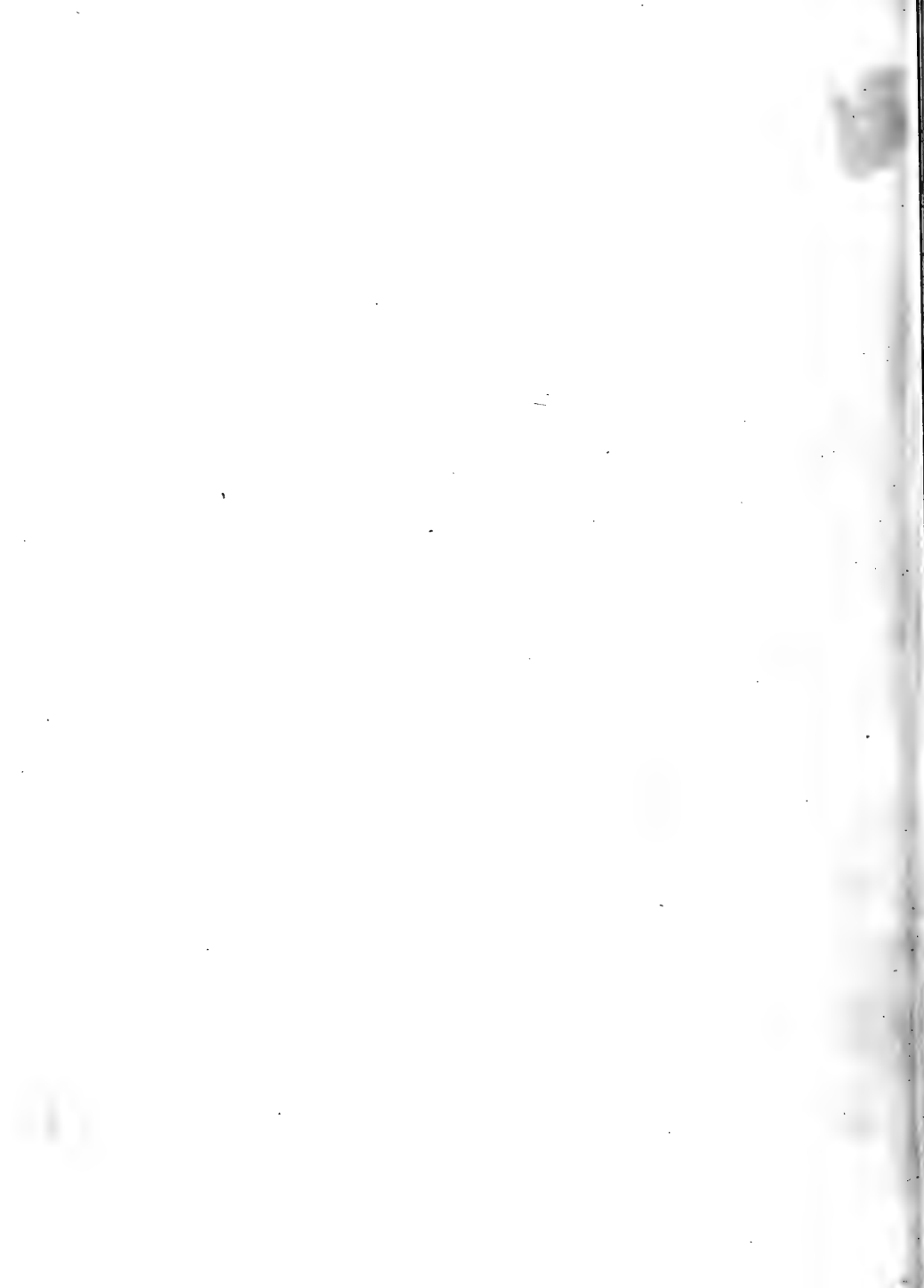


QUADRUPEDS.  
MAMMALIA GENUS CAPRA, GOAT.

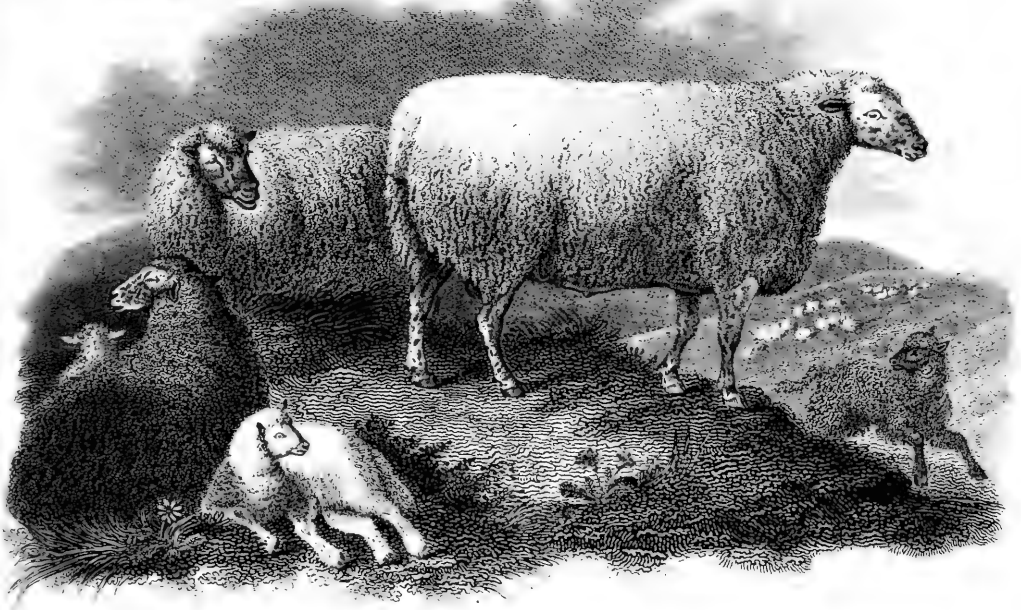


1. C. Ibex. Ibex Goat. 2. 3. C. Aggæus Common British Mountain Goat.  
4. Common Domesticated Goat. 5. Syrian Goat. 6. Angora Goat.

*Engraved by J. G. Thompson for De la Rue, Rogers & Co. Lithographers, London.*



QUADRUPEDS.  
OVIS ARIES. COMMON SHEEP.

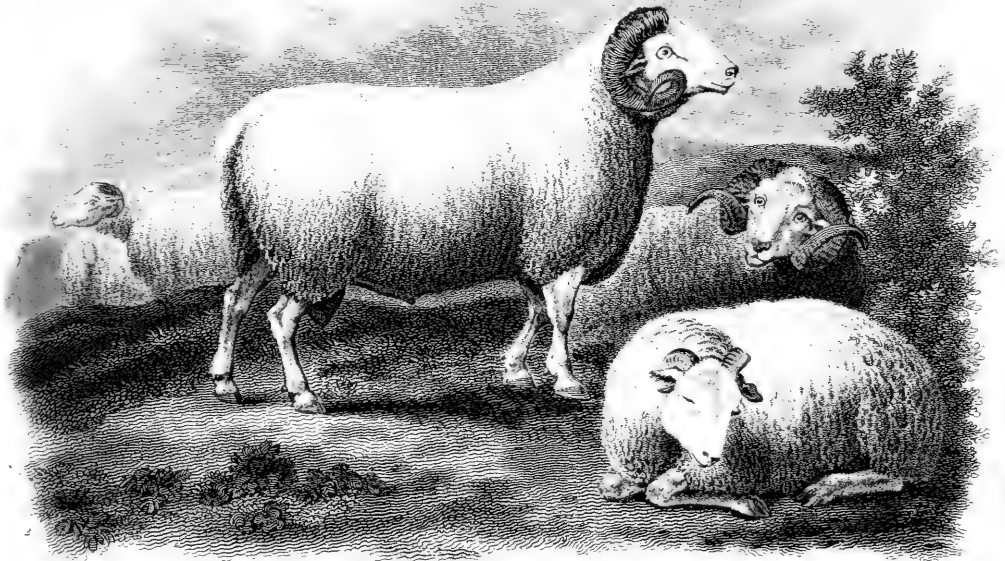
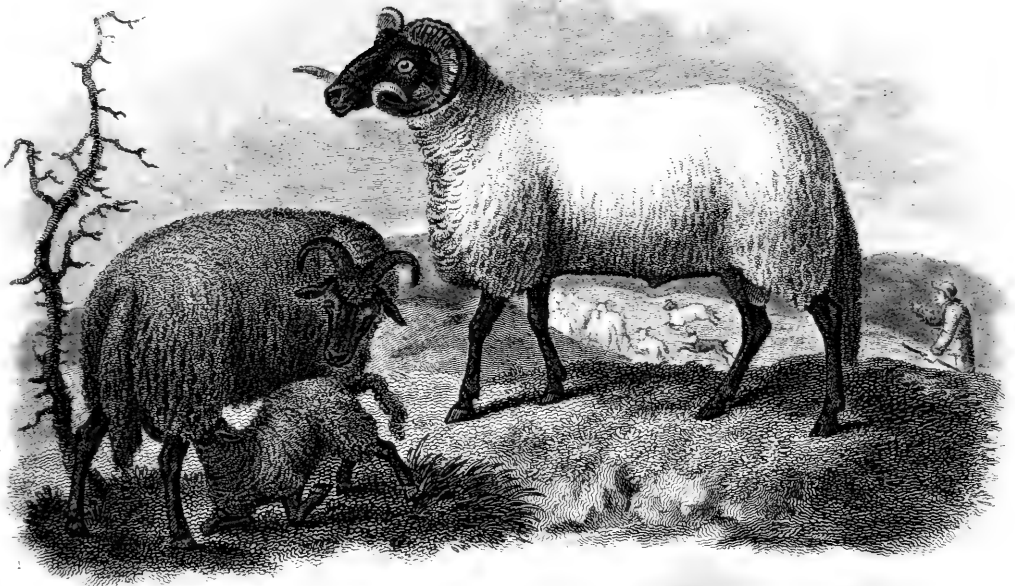


South Down Polled Sheep of the improved breeds. From the Stock of the late Duke of Bedford, Woburn.

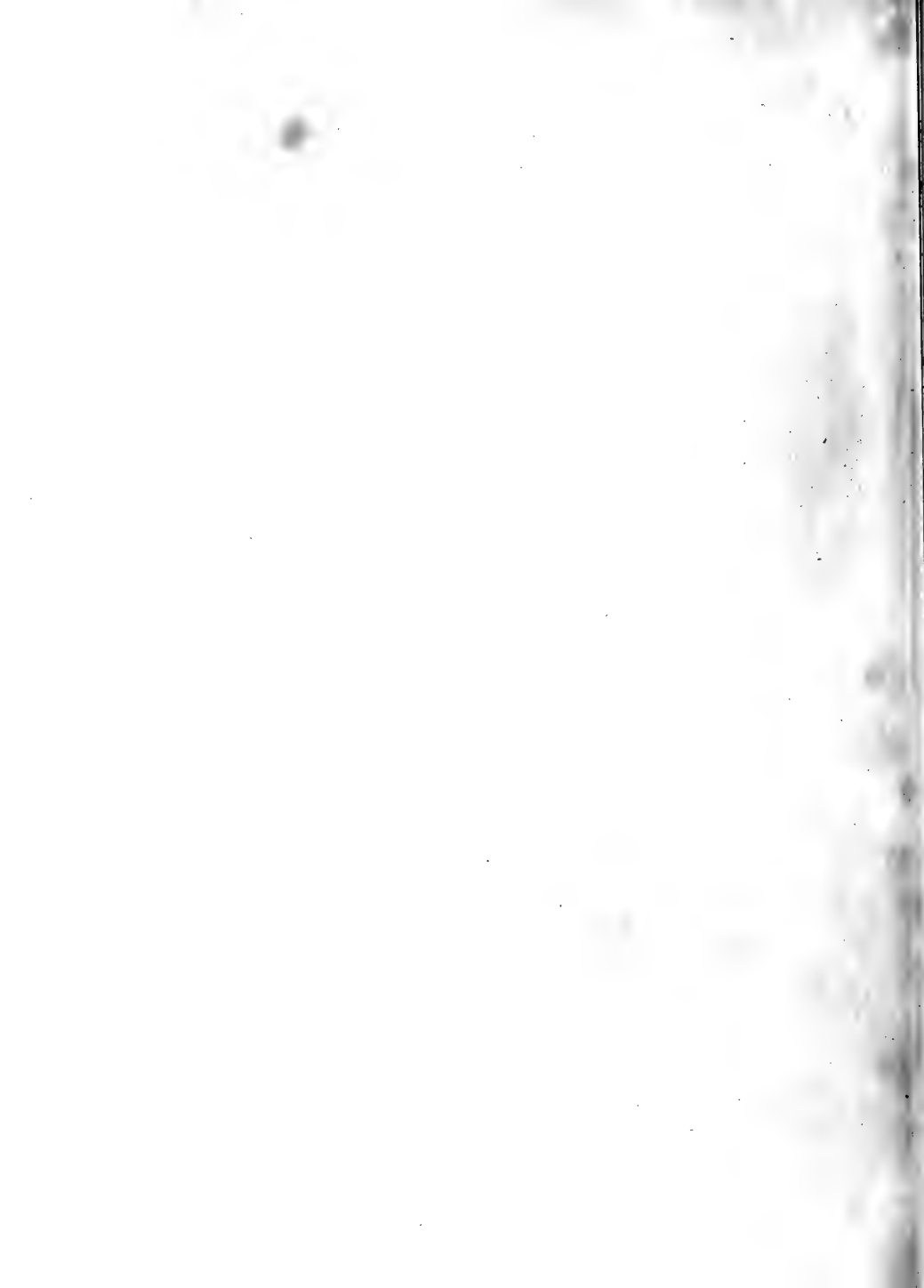




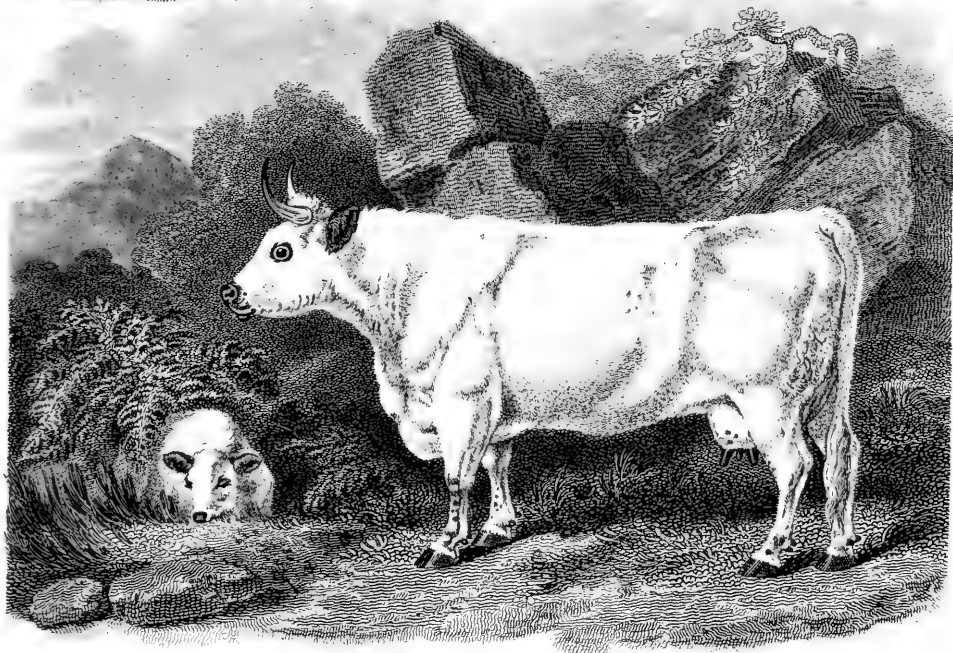
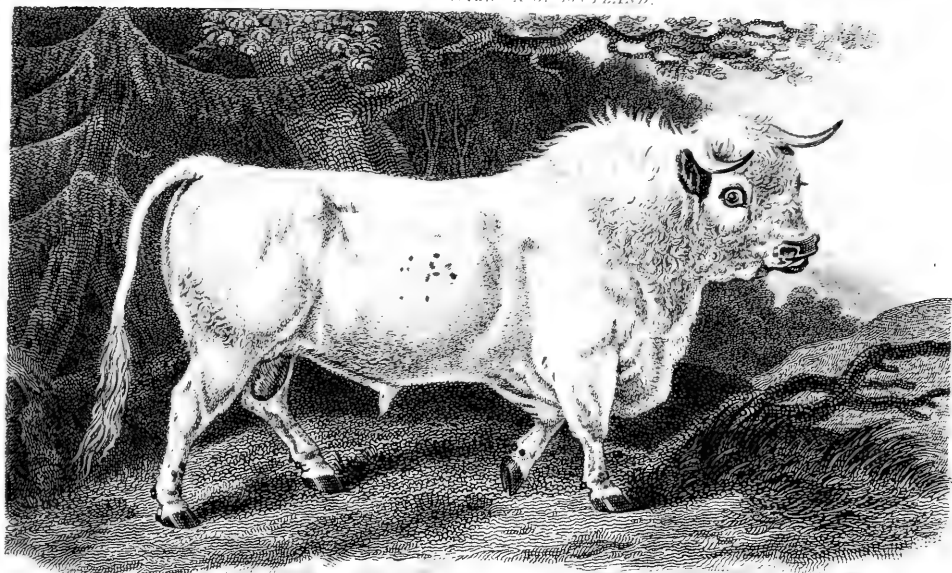
QUADRUPEDS.  
GENUS OVIS SHEEP VAR. HORSED SHEEP.

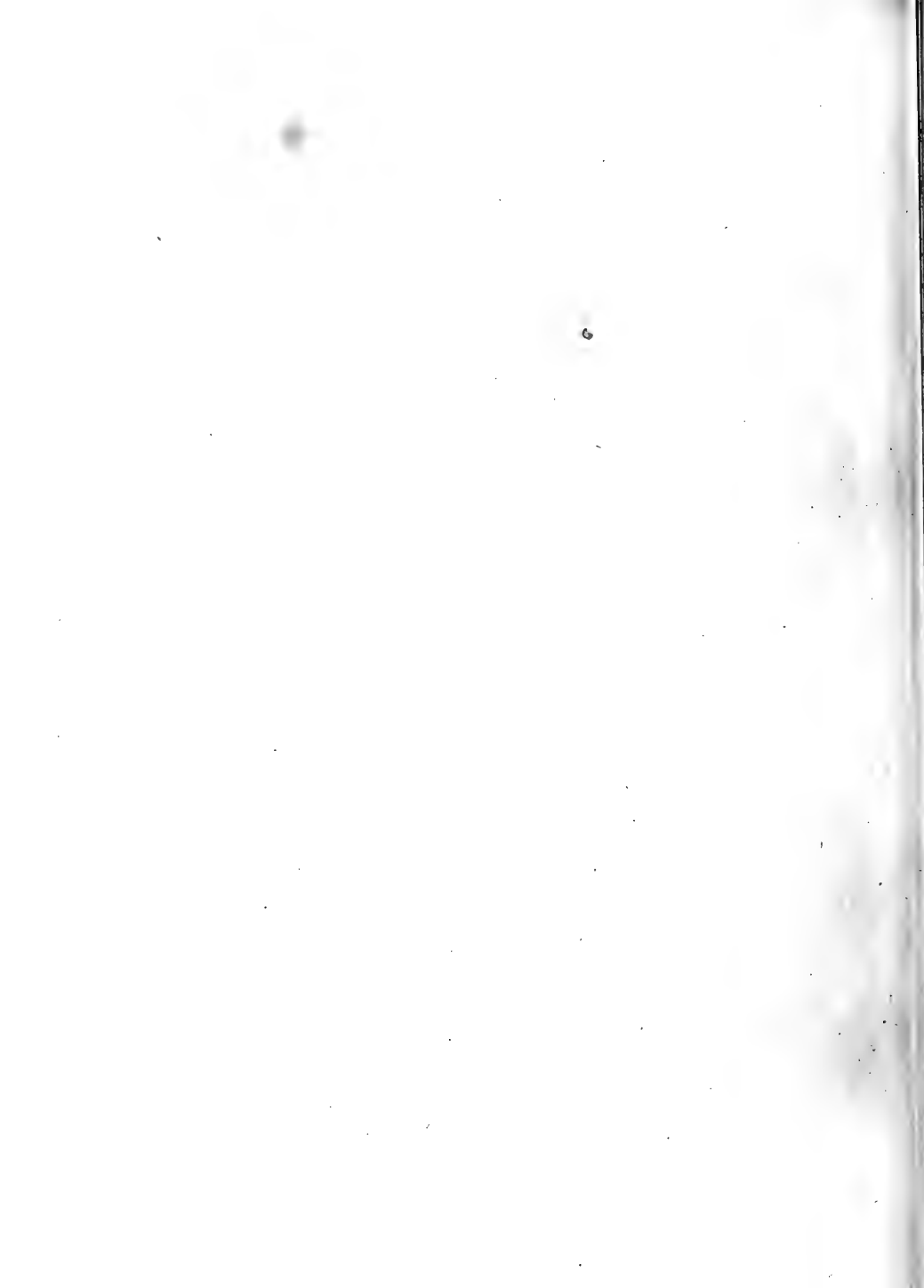


1 Norfolk Breed. 2 Heftersshire Breed.

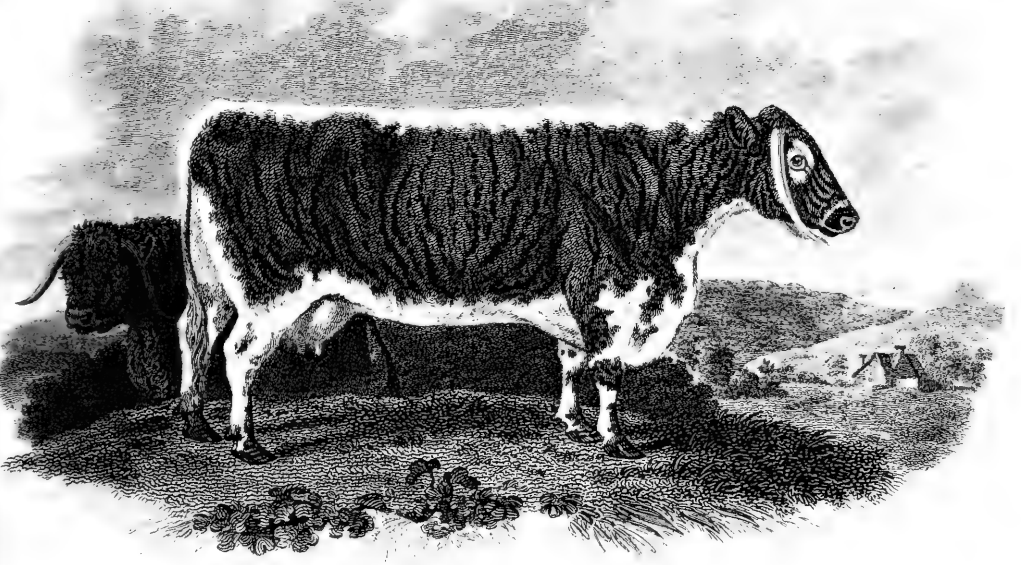
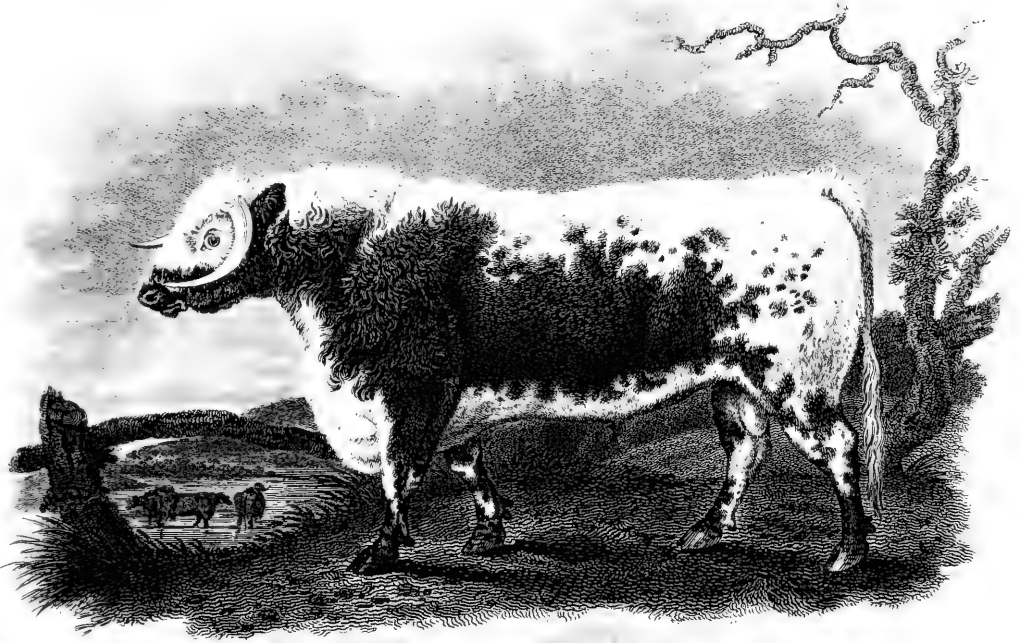


QUADRUPEDS  
BOS TAURES - WILD OX OF MONTANA.





QUADRUPEDS  
BOS TAURUS. OXEN

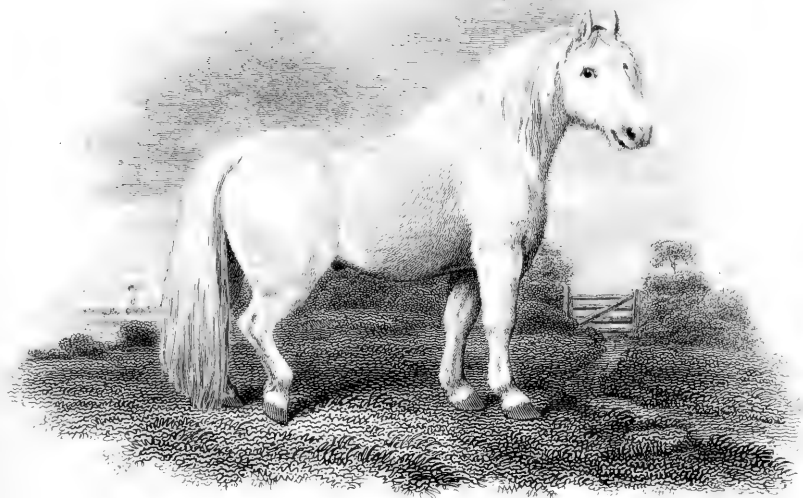


Long Horned or Lancashire Breed

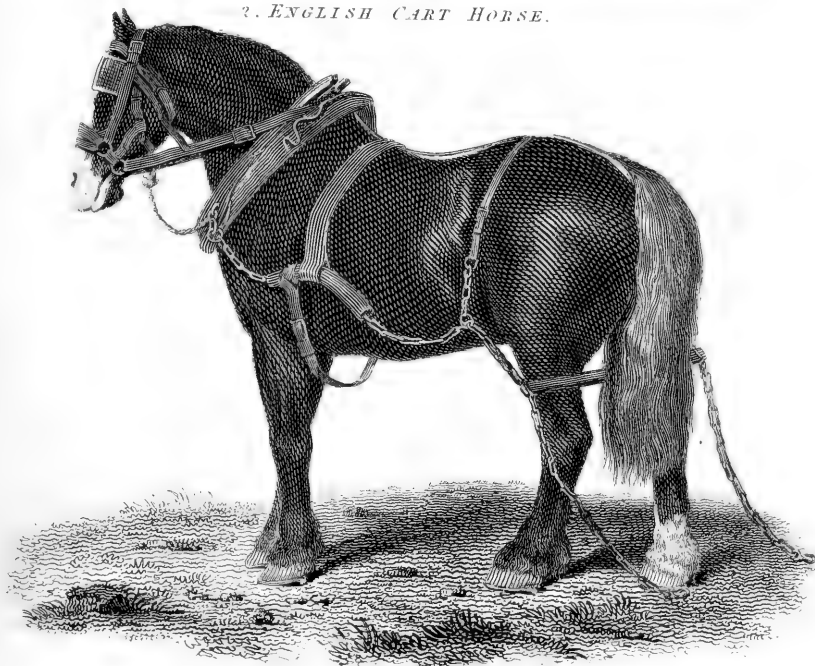


HORSES.  
1. SHETLAND PONEY.

PLATE I.

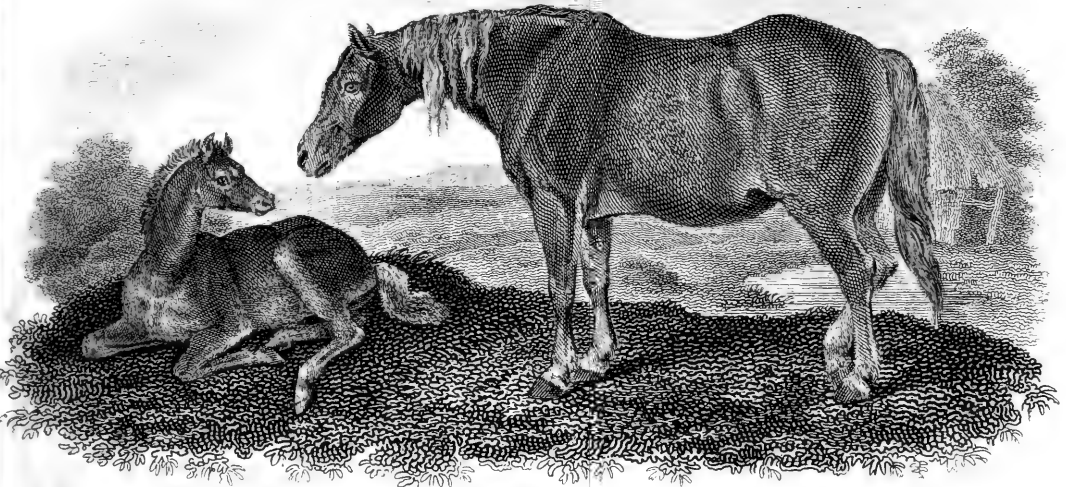
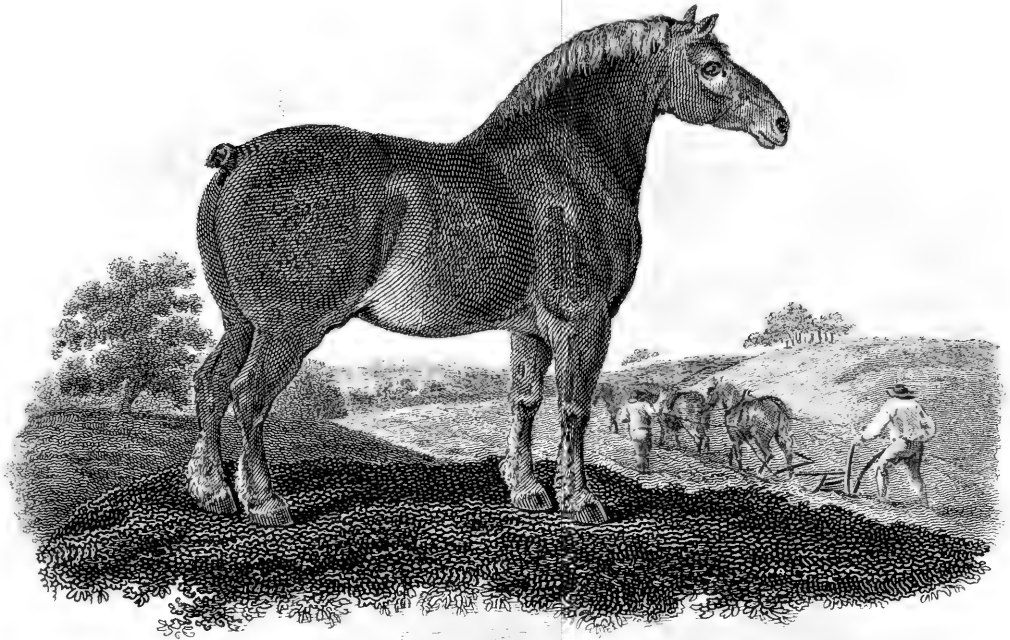


2. ENGLISH CART HORSE.



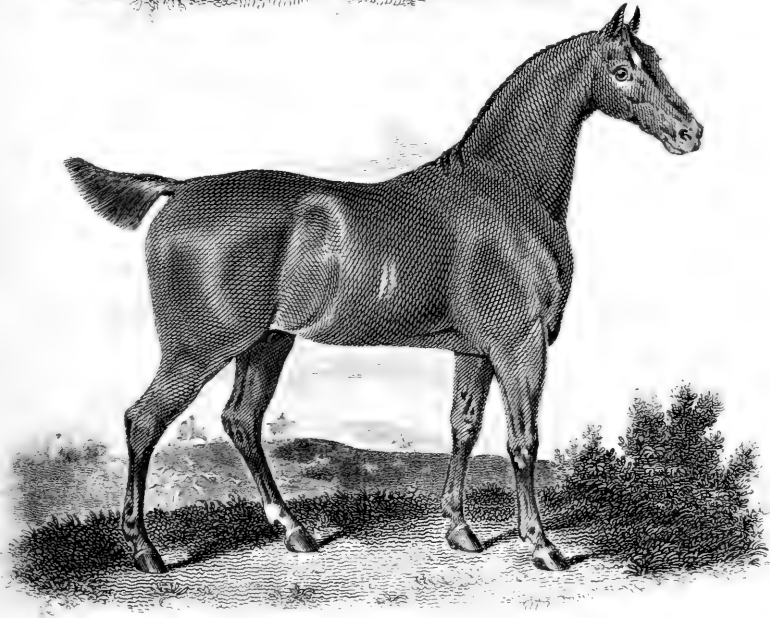
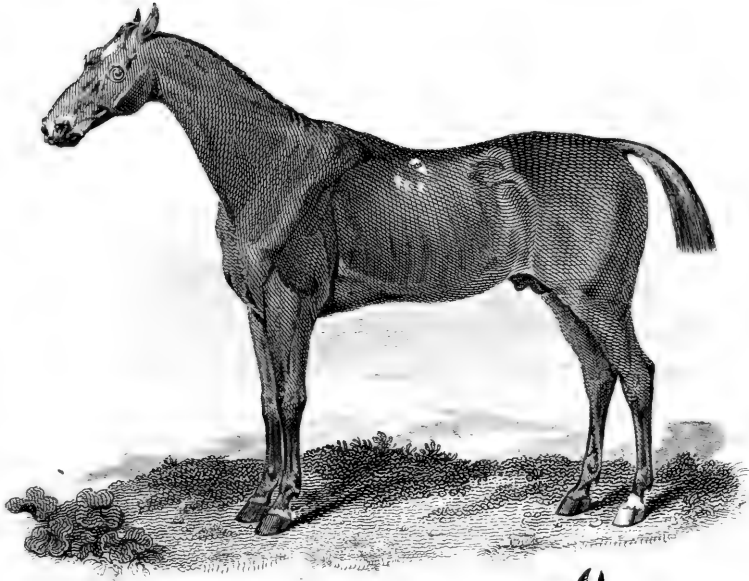








QUADRUPEDS.  
GENUS EQUUS. HORSE.



1 Race Horse Royalist. 2 The Hunter Skylark.

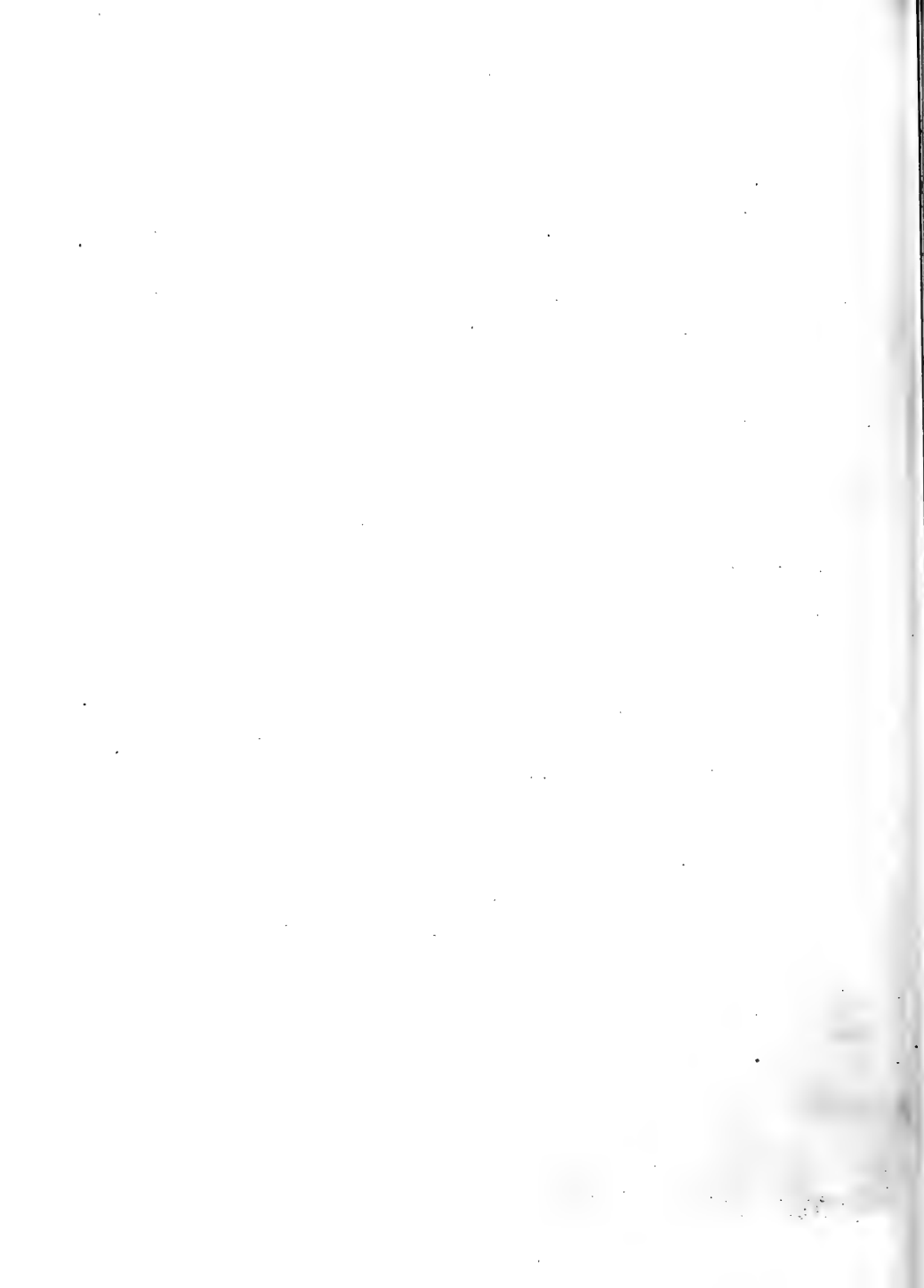


QUADRUPEDS

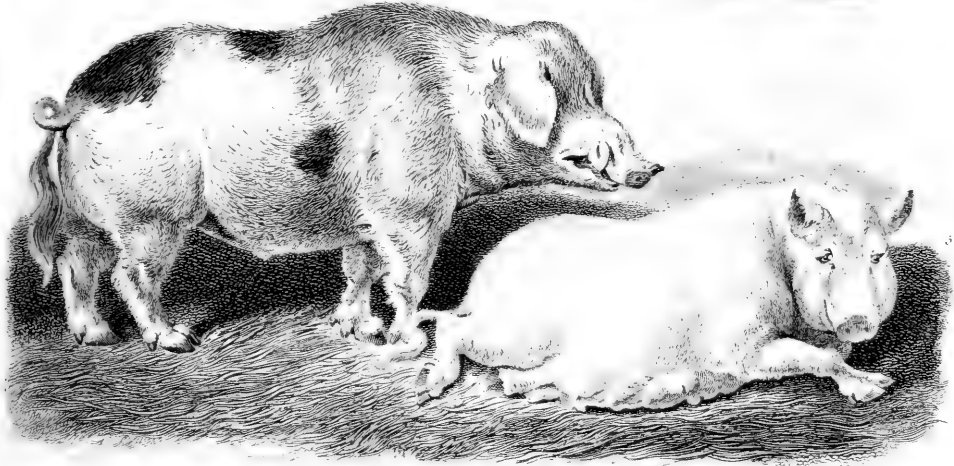
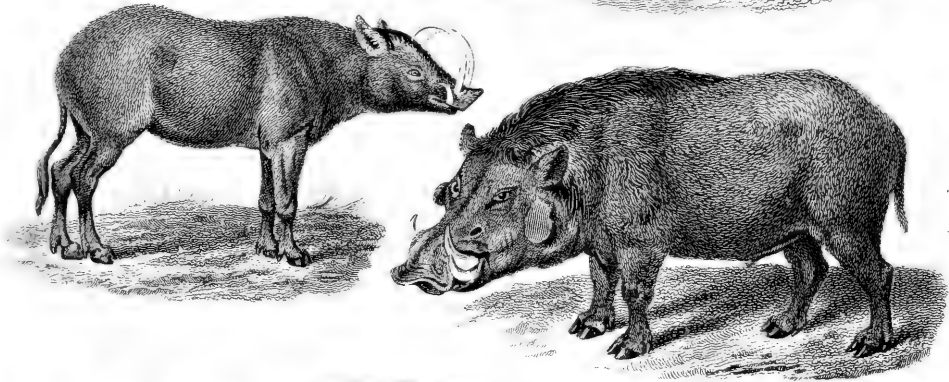
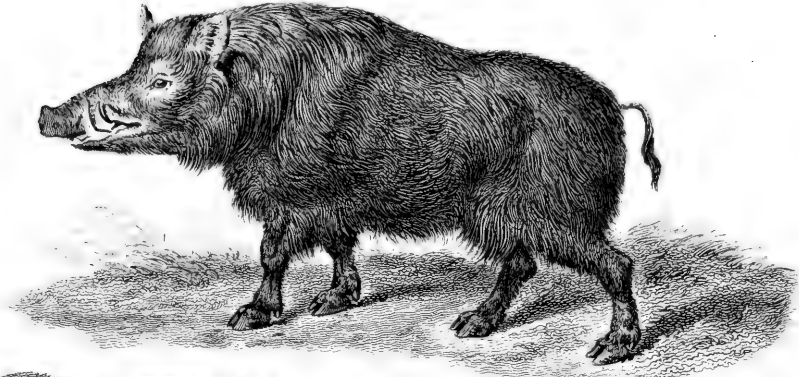
ORDER BELUCA, GENUS HIPPOPOTAMUS, GENUS TAPIR.



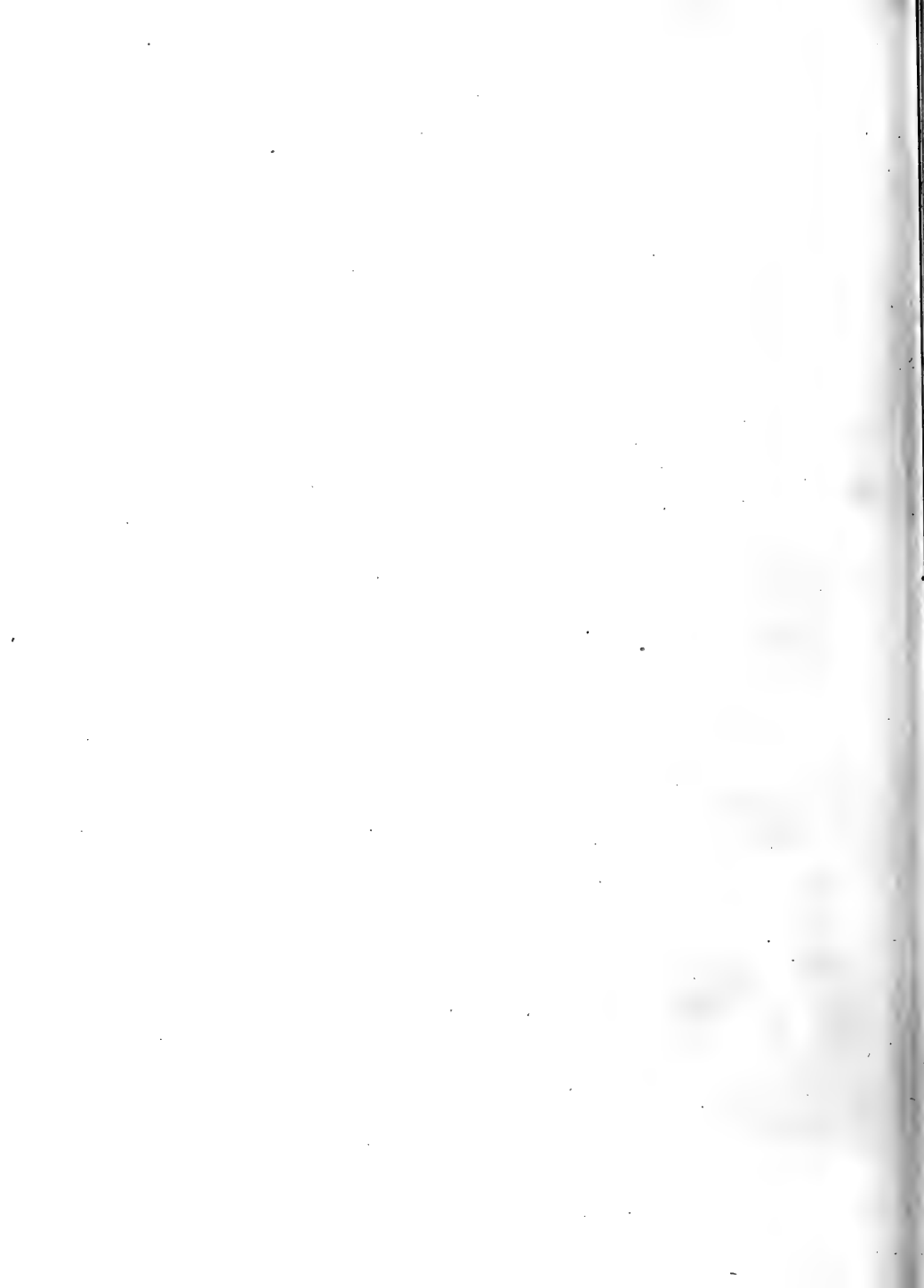
1. Hippopotamus Amphibius, Hippopotamus. 2. Tapir Americanus, Tapir.  
From an Original Drawing in the Collection of E. Woodford Esq'



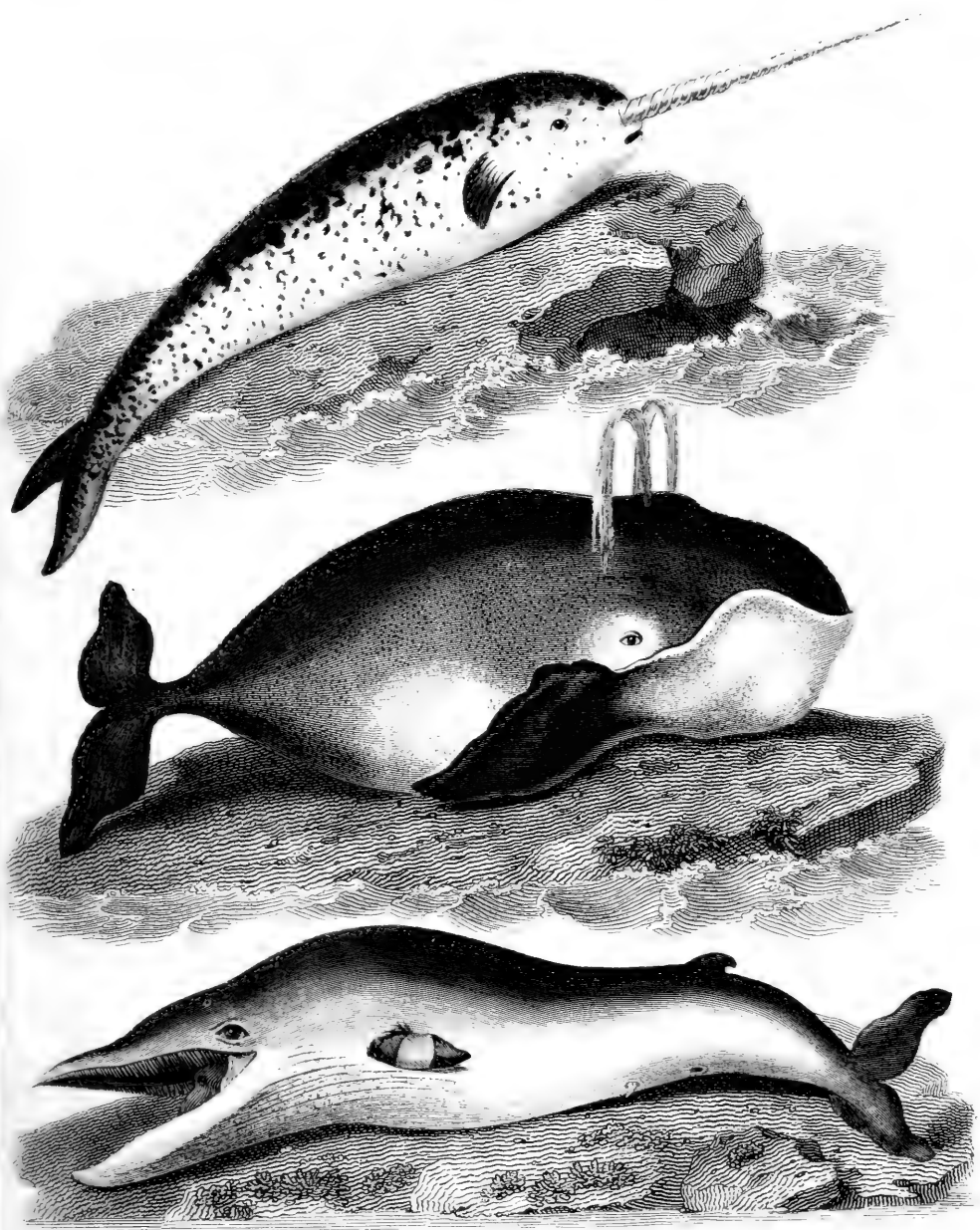
QUADRUPEDS.  
CLASS MAMMALIA. ORDER BELLUÆ. GENUS SUS. HOG.



1. S. Sc. ofa. Wild Hog. 2. S. Babingtoni. B. beirofca. 3. S. Aethiopiens. Aethiopian H. 4. 5. Domestic H.

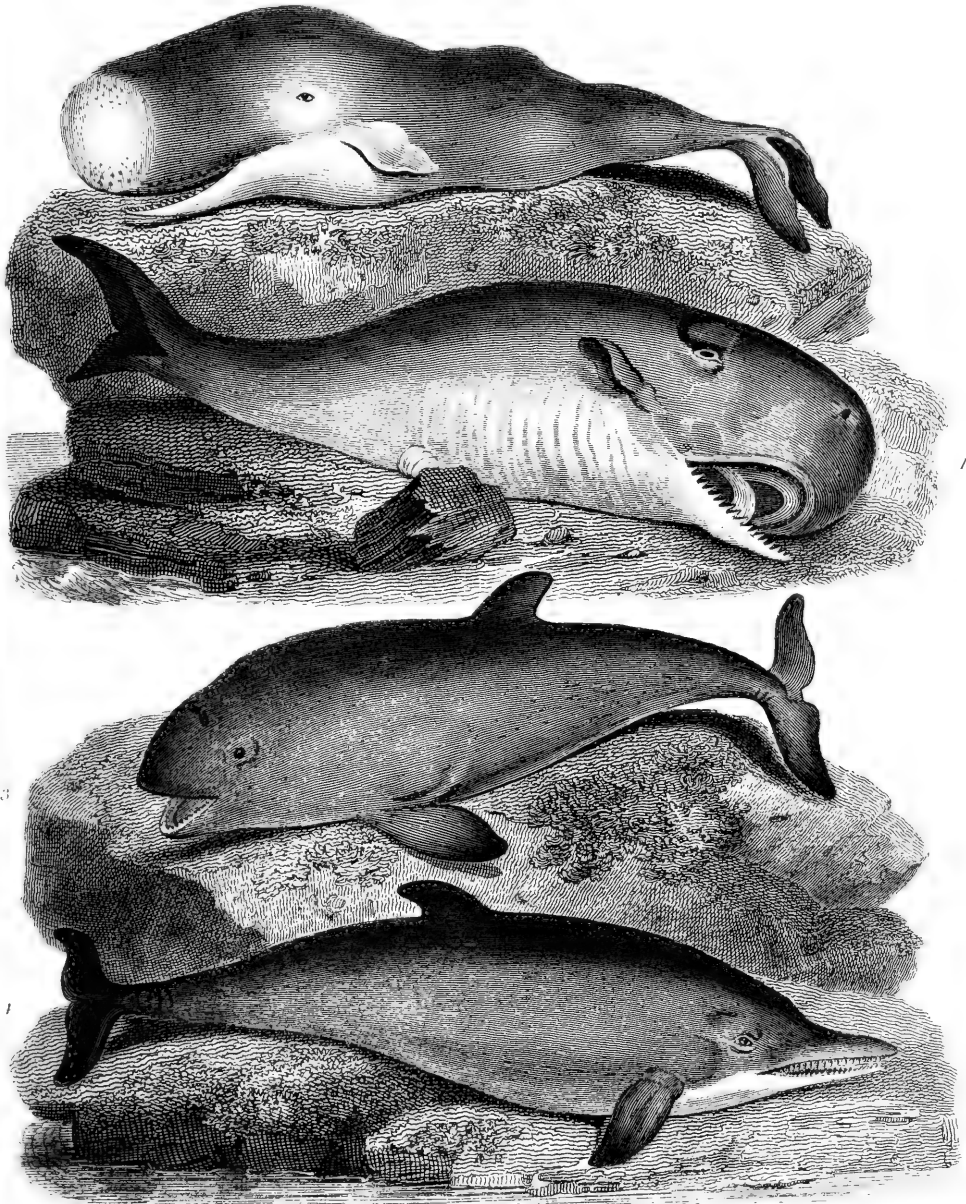




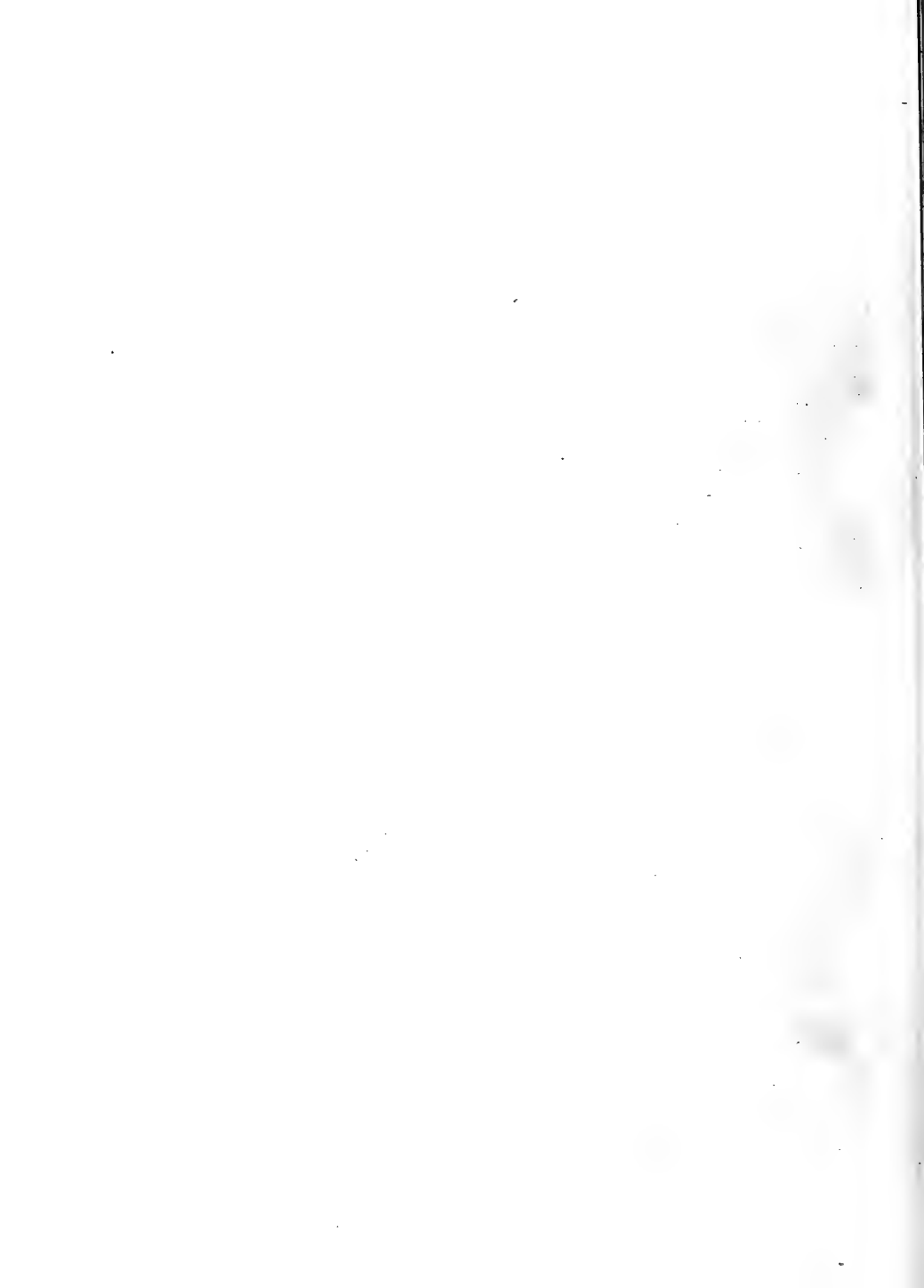


1. Narwhal. 2. Humpback Whale. 3. Sperm Whale. G. B. Harris. The Illustrated M.





1. P. Macrocephalus. Bant-headed C. 2. Nar P. Gibbosus Schreb, Gibbous C. 3. D. Phocaena Bapois. 4. D. Delphinus Dolphin



GENUS I. Vulture



Condor of Maxwell

GEN II. Falcon



Golden Eagle

G. III. Strix.

G. II.



Falcon Gentil



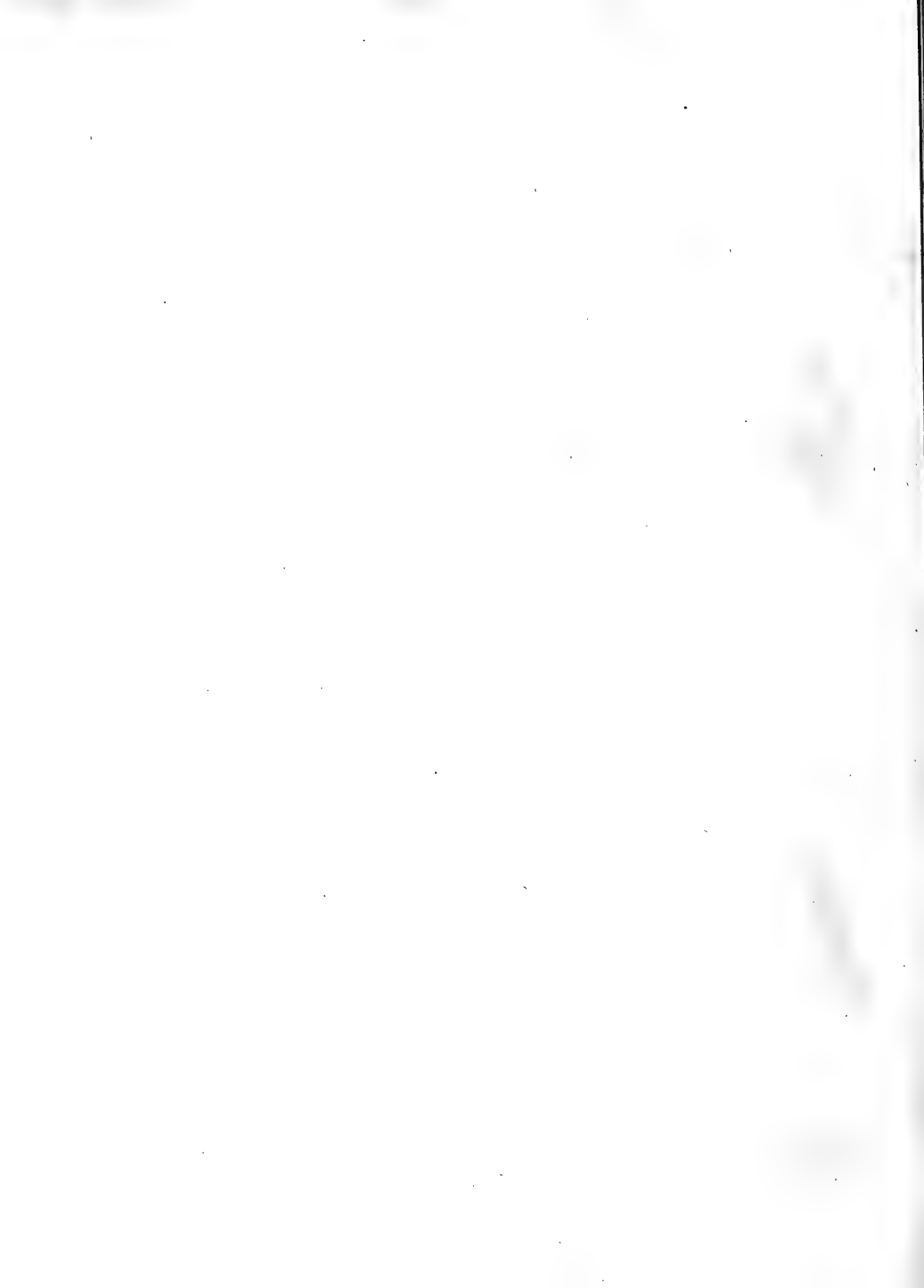
Horned Owl

G. II.



Small Owl

Hobby

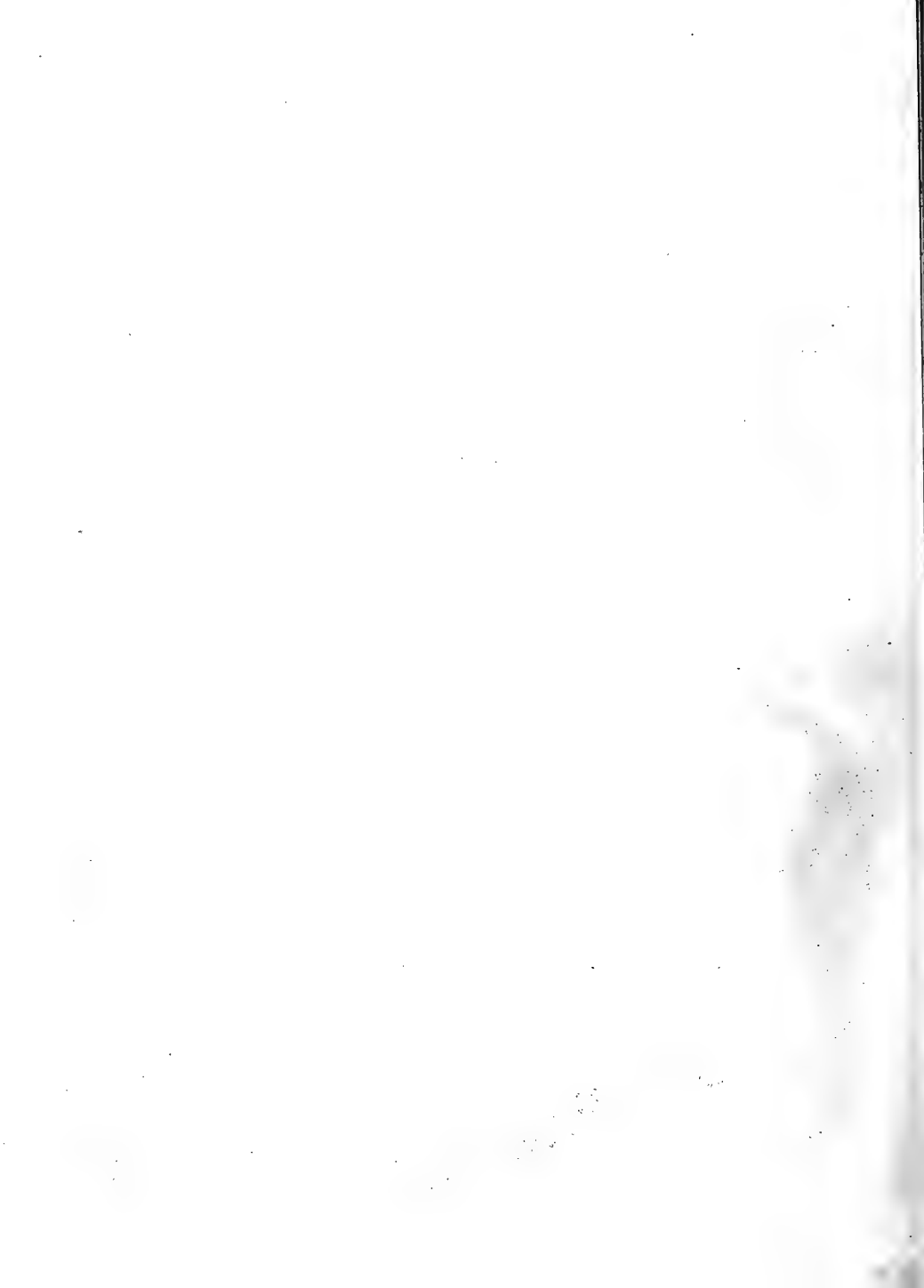




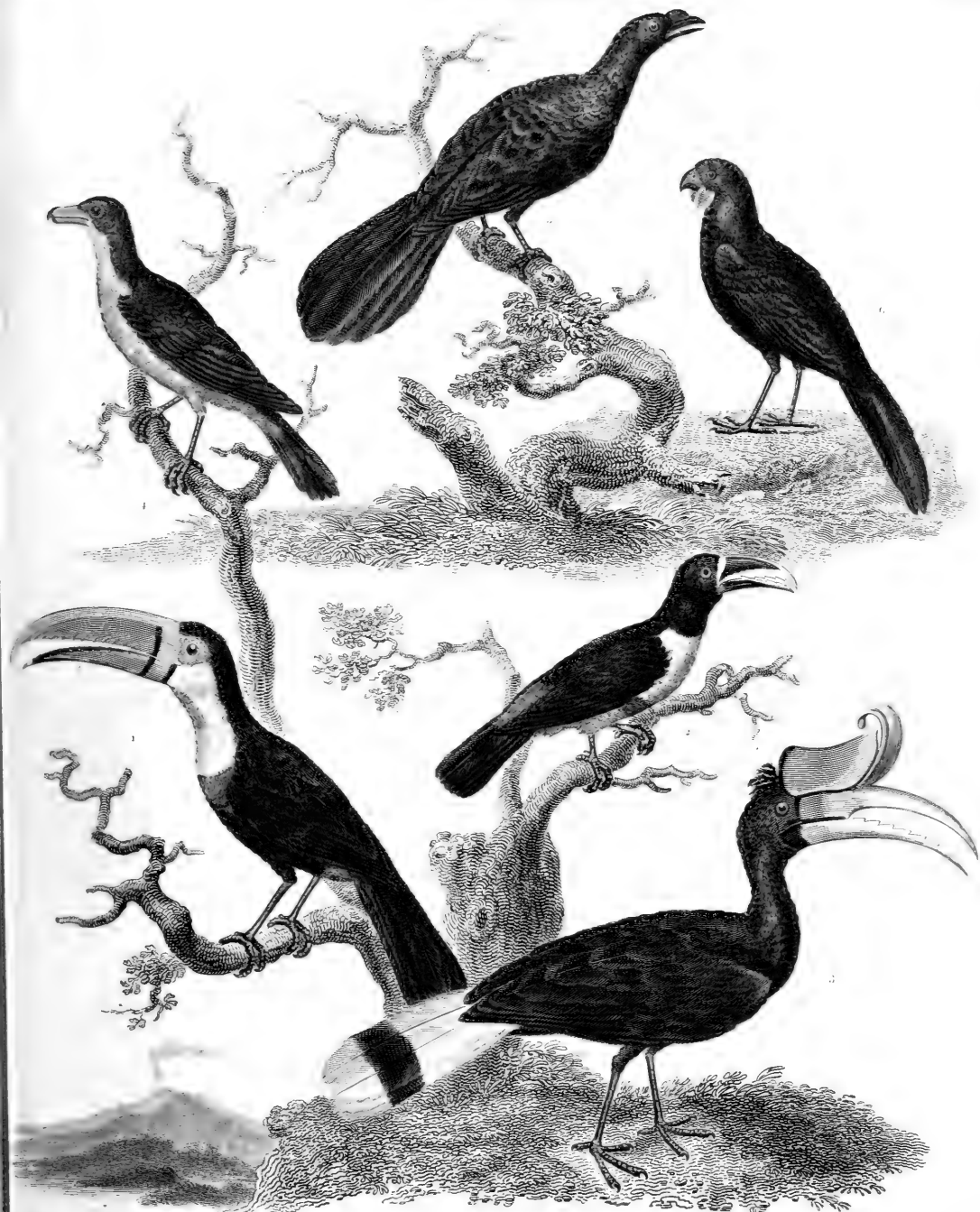
GENUS PSITTACUS.  
Parrot

- 1 P. Macao    2 P. Alexandri    3 P. Estivae var    4 P. Carrulus var    5 P. Moluccensis    6 P. Banksii    7 P. Pullarius

Published at the Antheist, Aug. 1848, by Longman, Esq. & Partners, 28 B.







GENUS **RAMPHASTOS**  
(Toucan)  
1. *R. tocostivens* - 2. *R. aracani*.

**G. BUCEROS**  
(Hornbill)  
3. *B. blinnovici*.

**G. MYIAGRA**  
(Beef Lark)  
4. *B. africana*.

**G. CROTOPHAGA**  
(Ani Bird)  
5. *C. major*.

**G. GLAUCOPIS**  
(Wattle Bird)  
6. *C. cinerea*.



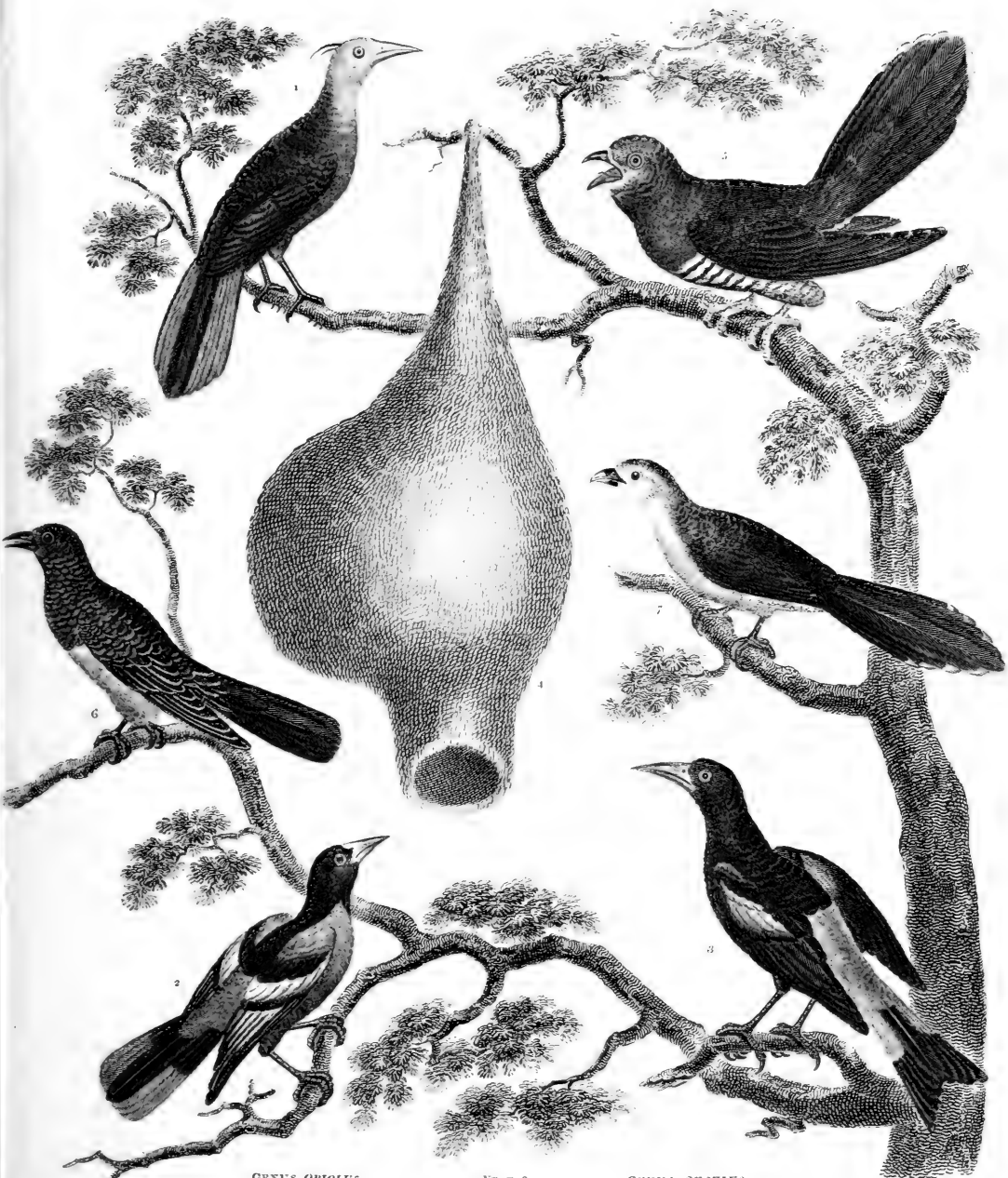


GENUS CORVUS Cuv.

GENUS GEORGIUS Bole P.

- |             |            |                   |                  |                |             |
|-------------|------------|-------------------|------------------|----------------|-------------|
| 1. C. Corax | 2. C. Lani | 3. C. Caprimulgus | 4. C. Chalcidius | 5. C. G. G. G. | 6. C. G. G. |
| R. G. G.    | M. G. G.   | S. G. G.          | G. G.            | P. G. G.       | N. G. G.    |





GENUS ORIOLES.  
(Oriole)

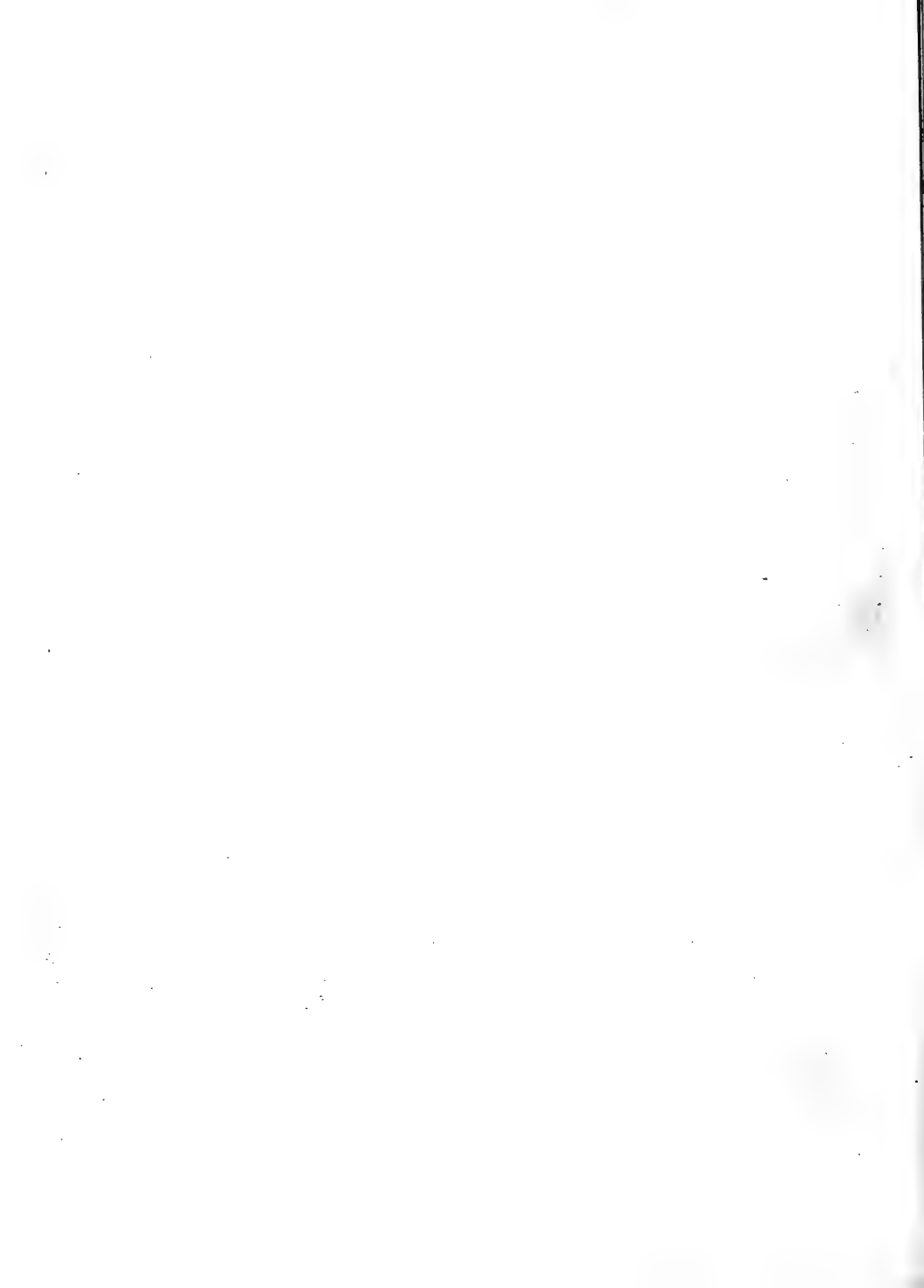
4 NEST of  
O. BALTIMORE

GENUS CUCULUS  
(Cuckoo)

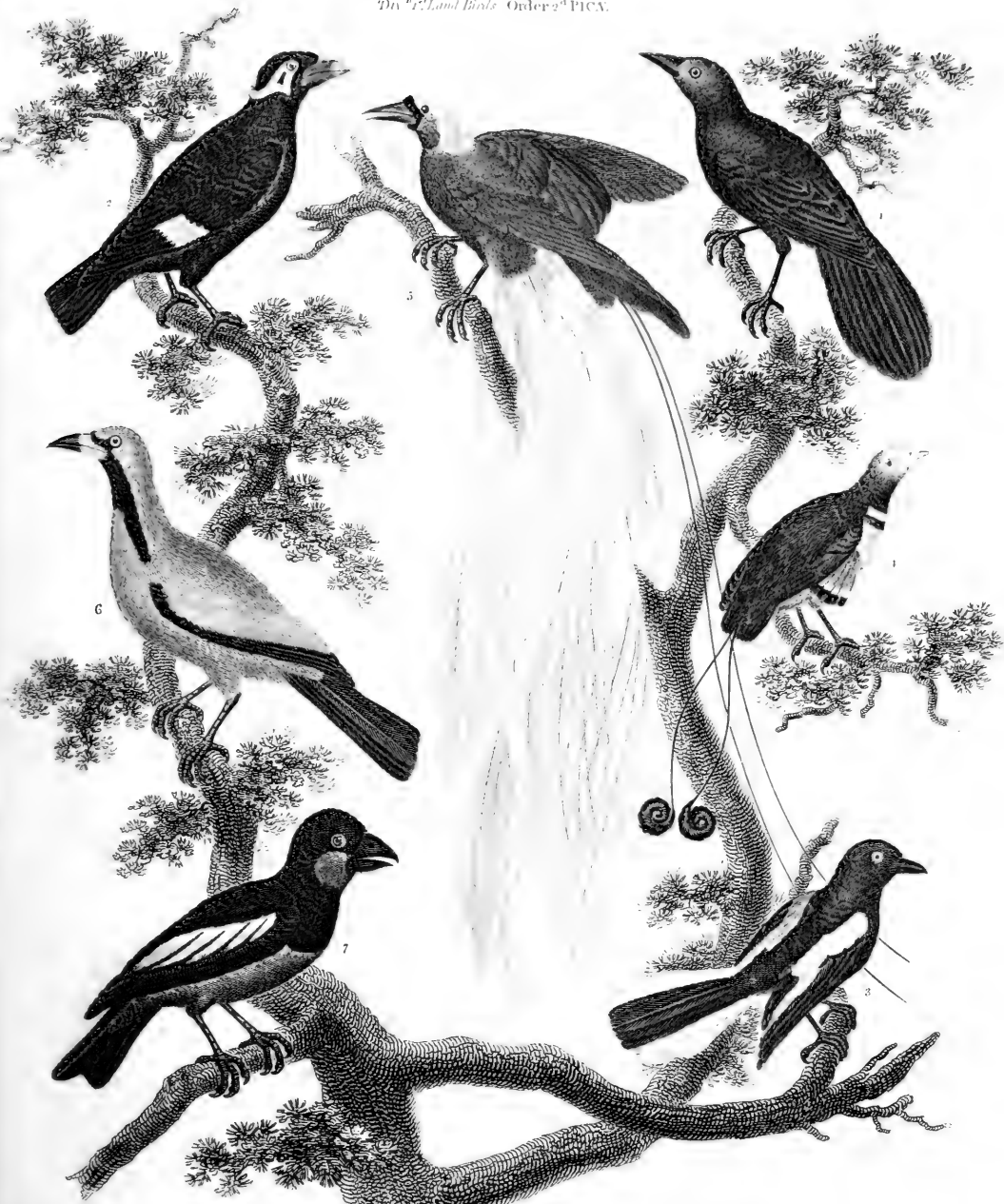
- 1. O. Cristatus.
- 2. O. Baltimore.
- 3. O. Persicus.
- CESTED O. BALTIMORE O. BLACK & YELLOW O.

- 3. C. Canorus.
- 6. C. Cuprens.
- 7. C. Indicator.
- COMMON C. CUCKOO C. HONEY GUIDE C.

By H. B. Swainson del.



Div. 1. Land Birds. Order 2. PICI.



GENUS CRACCI

(Crake)

- 1. *G. Quiscal.*
- 2. *G. Colva.*
- 3. *G. Sularis.*

TURLE G. BIRD G. DUCK G.

G. PARADISEI

(Bird of Paradise)

- 4. *P. Regia.*
- 5. *P. Ispida.*
- 6. *P. Iruya.*

KING BIRD'S P. GREATER BIRD'S P. GOLDEN BIRD'S P.

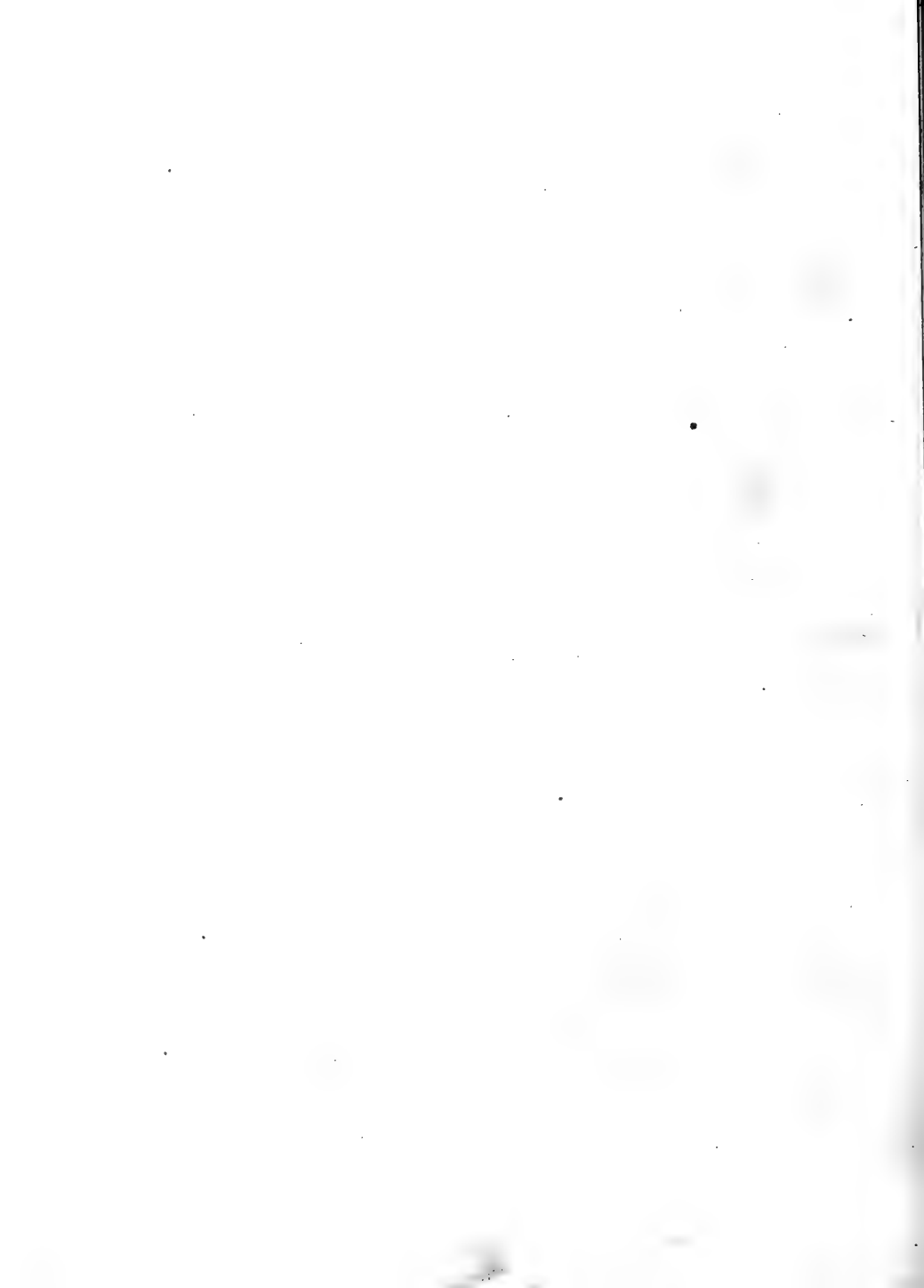
G. TODUS

(Tody)

- 7. *T. Macropyndus.*

GREY-BILLED

Engraved by J. G. Thompson, from the original drawings by J. G. Thompson, 1800.







Genus *TROGON*.

(Carucui)

1. *T. Carucui*

RED BELLED C.

*C. BUCCO*.

(Barbet)

2. *B. Lathami* 3. *B. Guyanensis* var.

BLACK SPOTTED B.

*G. VYX*.

Wyeack

4. *V. Torquilla*

COMMON WYNECK

*G. PICUS*.

Woodpecker

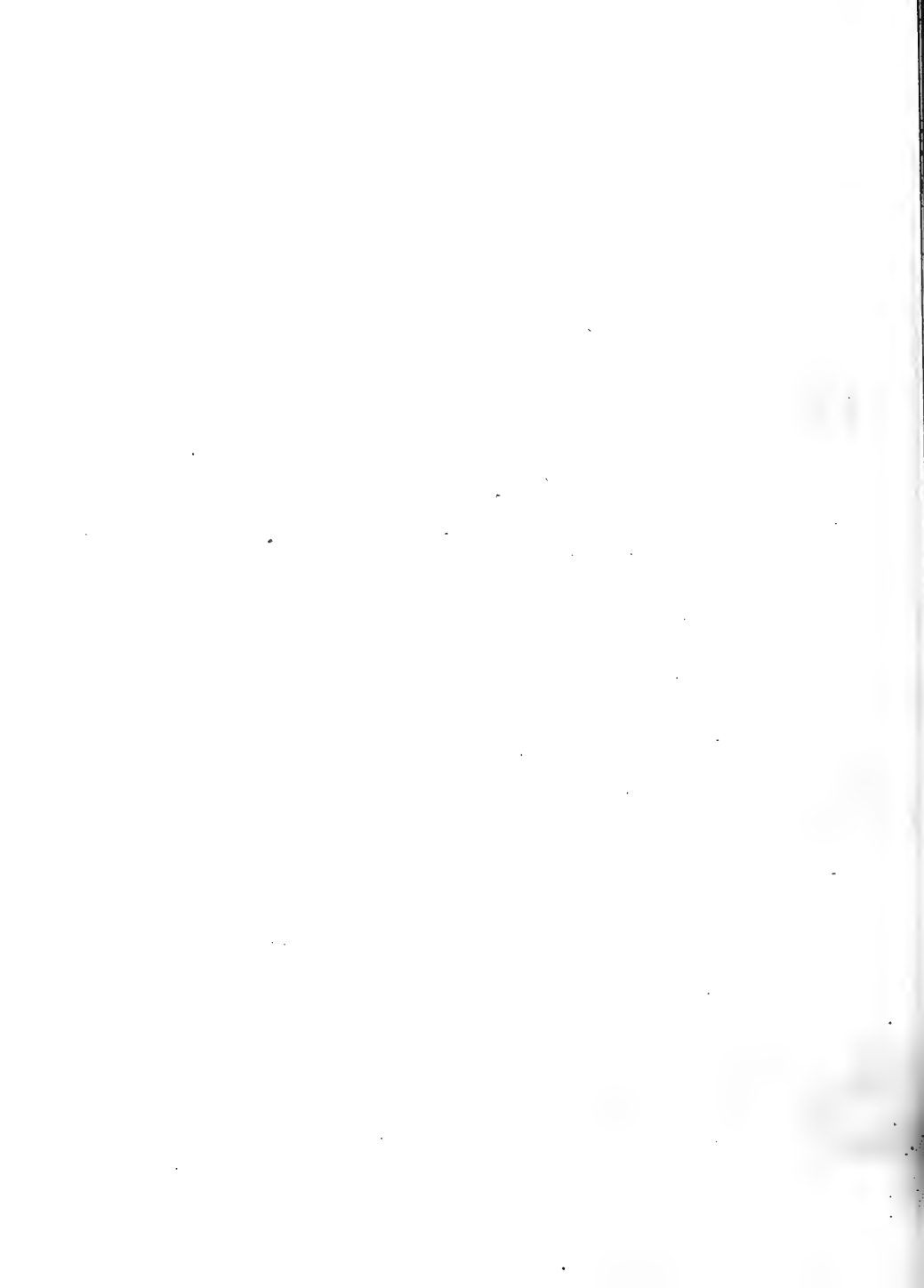
5. *P. Pilottus* 6. *P. Carolinus* var.

7. *P. Borealis* 8. *P. Carolina* var.

*G. SITTIS*.

(Nuthatch)

7. *S. Europæus*.





GENUS *ALCEDO*

Kingsfisher:

1. *A. Cristata*  
CRESTED K.

2. *A. Venerula*  
VENERATED K.

3. *A. Alcyon*  
BELTED K.

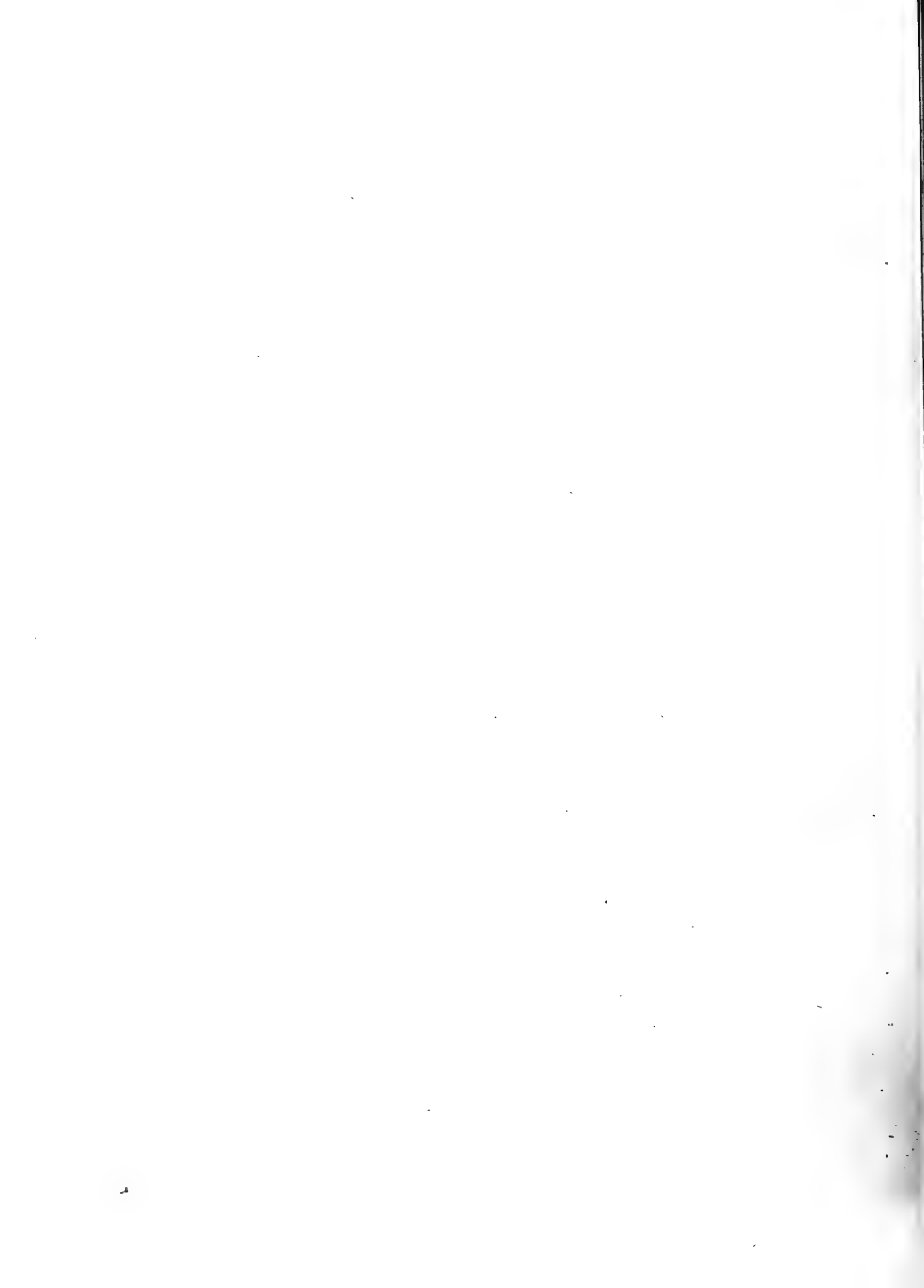
4. *A. Sacra*  
SACRED K.

GENUS *GALBULA*

Jacamar:

5. *G. Paradisus*  
PARADISE J.

6. *G. Viridis*  
GREEN J.





**GENU'S MEROPS**  
 (Bee Eater)

1. *M. Capensis*. WATTLED B.E.  
 2. *M. Novae Zelandiae*. NEW ZEALAND B.E.

**GUPPA**  
 (Hoopoe)

3. *G. Promerops*. CAPE H.  
 4. *G. Epops*. COMMON H.  
 5. *G. Egyptiacus*. RED-BILLED H.

*Publ. by Currier & Mitchell*

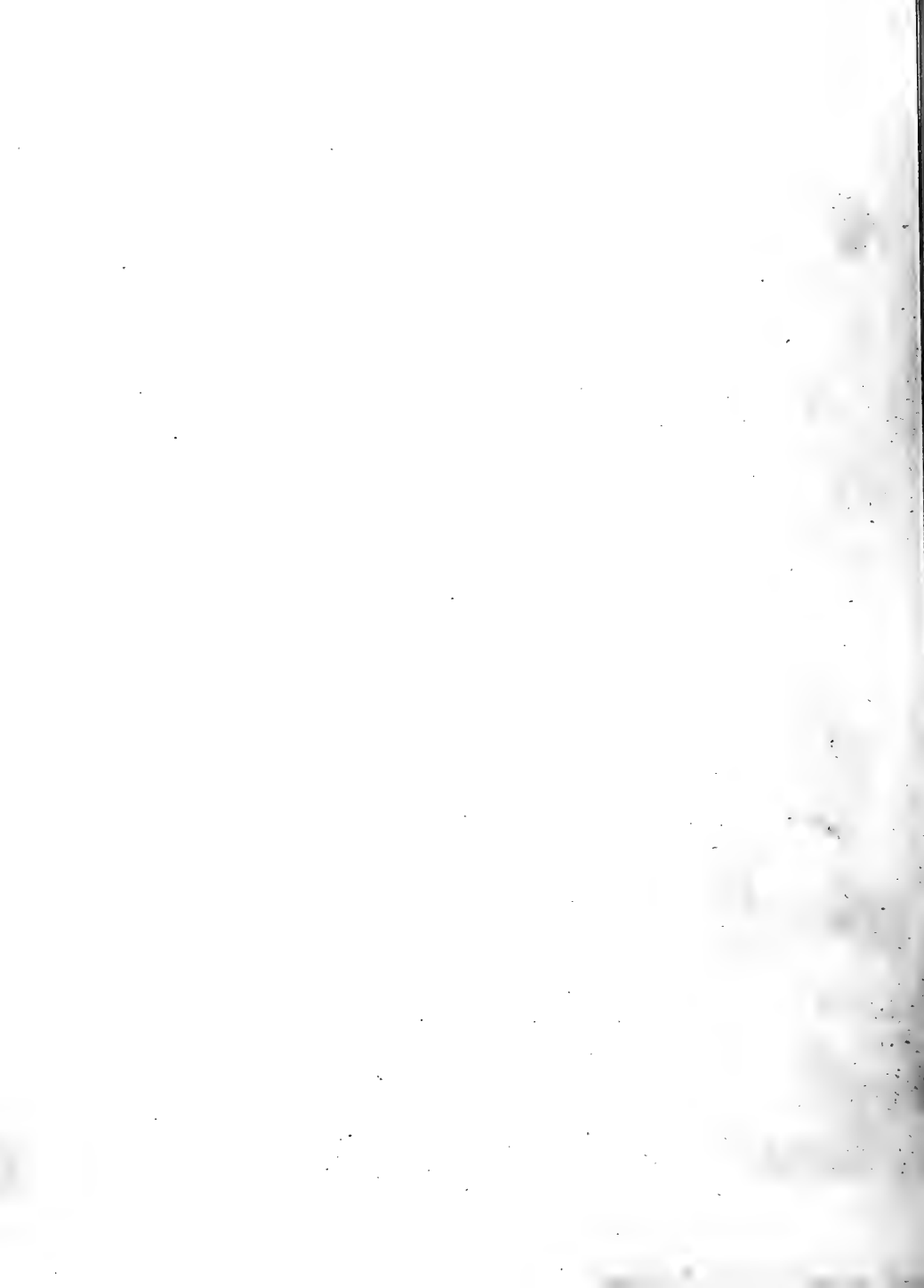
*W. Wood sculp.*



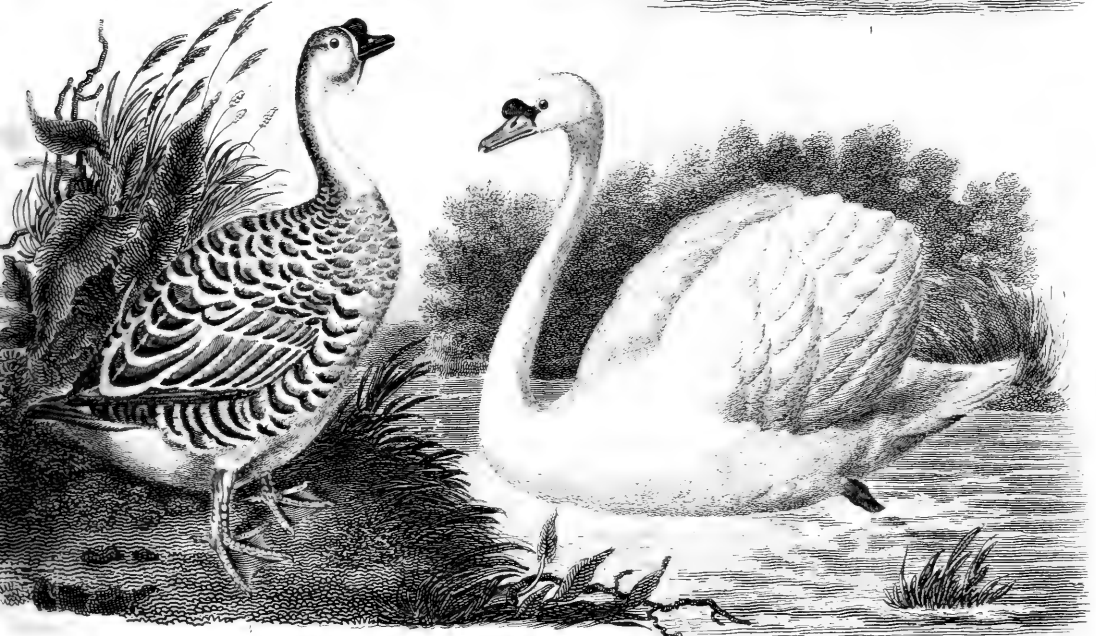
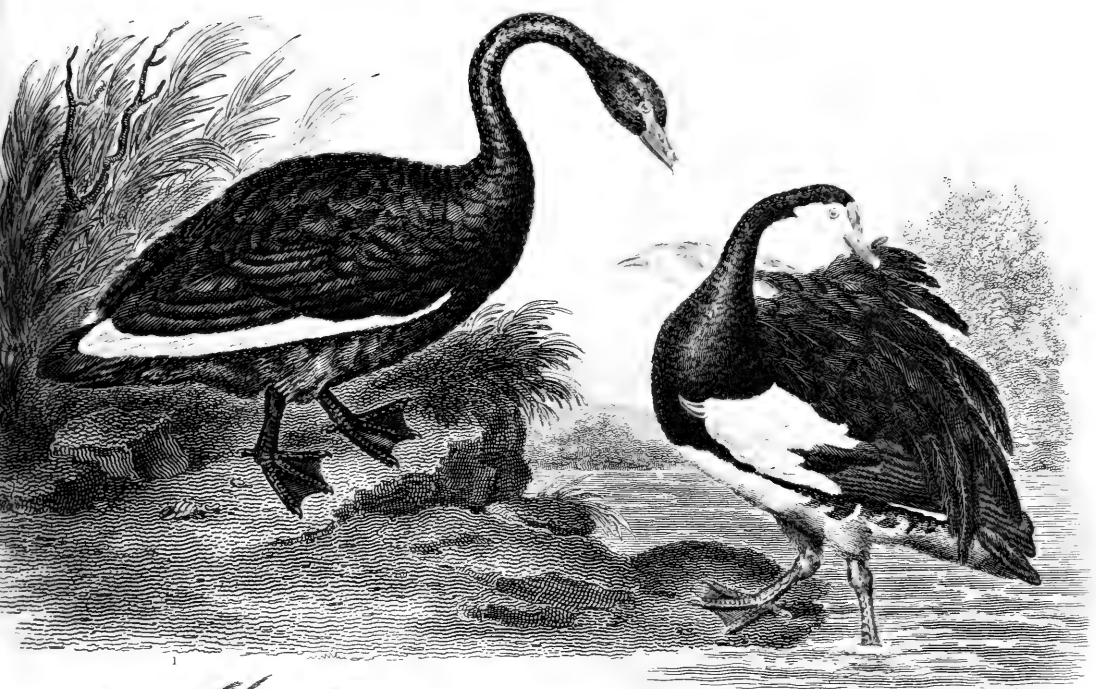


1<sup>o</sup> Pacific      2<sup>o</sup> C. Obscura      3<sup>o</sup> C. Coccinea      4<sup>o</sup> C. Corallina      5<sup>o</sup> T. Palla      6<sup>o</sup> T. Viridanus      7<sup>o</sup> T. Ponceus      8<sup>o</sup> A. Zenaidura      9<sup>o</sup> T. ...  
 10<sup>o</sup> HOOK-BILLED C.    HOOK-BILLED GREEN C.    HOOK-BILLED P.P.C.    BLACK C.    YOKA H.B.    LESSER FORKED TILED H.B.    CRESTED H.B.    TUFTED NECKED H.B.    ...

Published at the ...







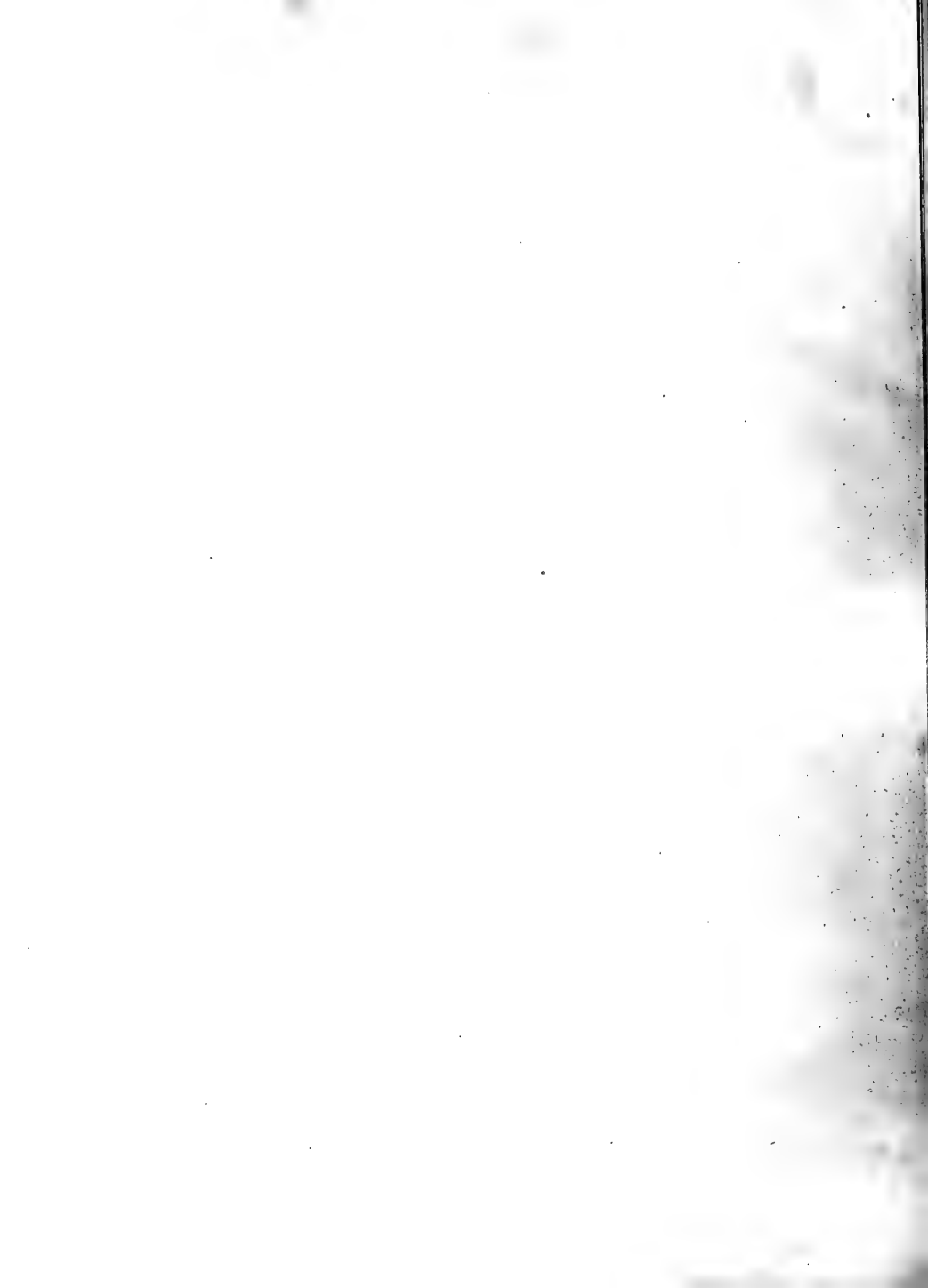
GENUS IVES

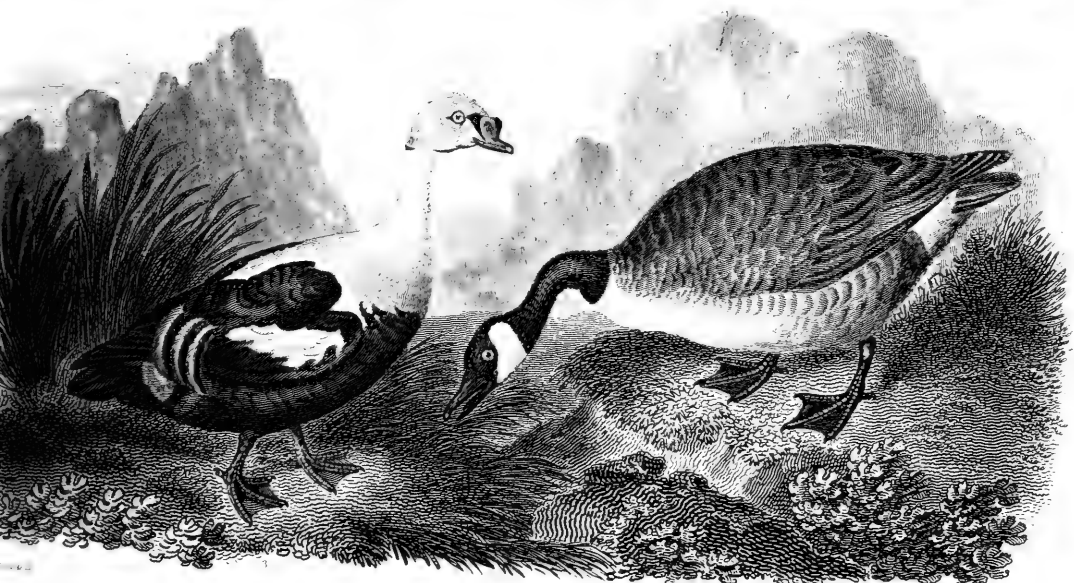
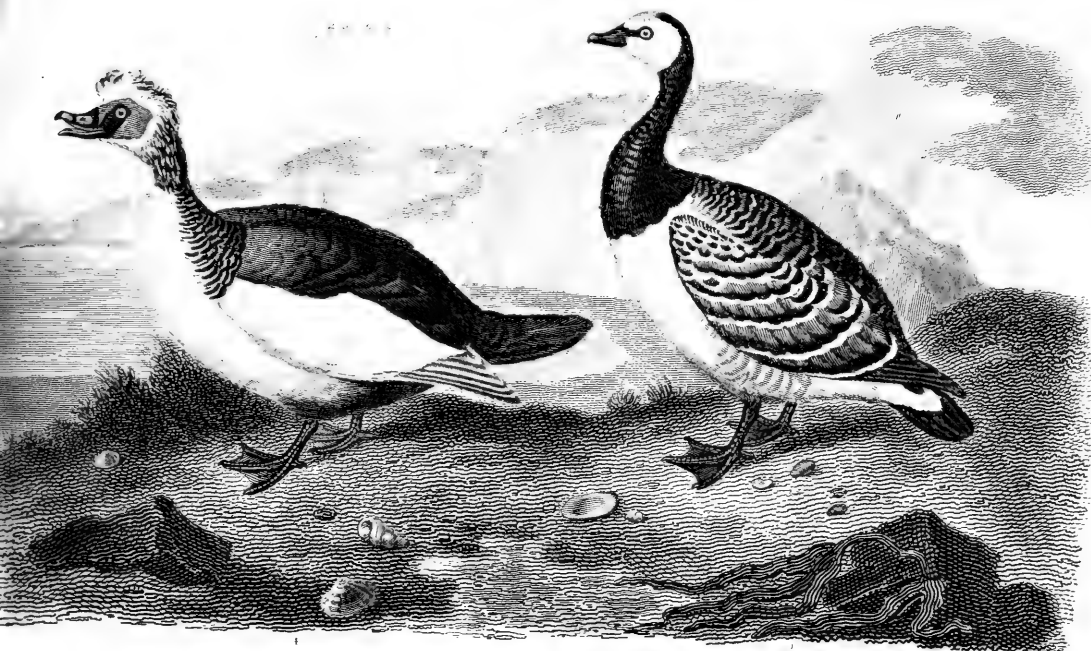
3 A. *Anas*  
BLACKS  
2 A. *Chlor*  
TIMES

SWAN

3 A. *Cygnus*  
CHINESE GOOSE  
1

1 A. *Vander*  
MURWINGLIG





GENUS *TAIX*  
S. 340

1. *A. erythropterus*  
BERNARDI GOOSE

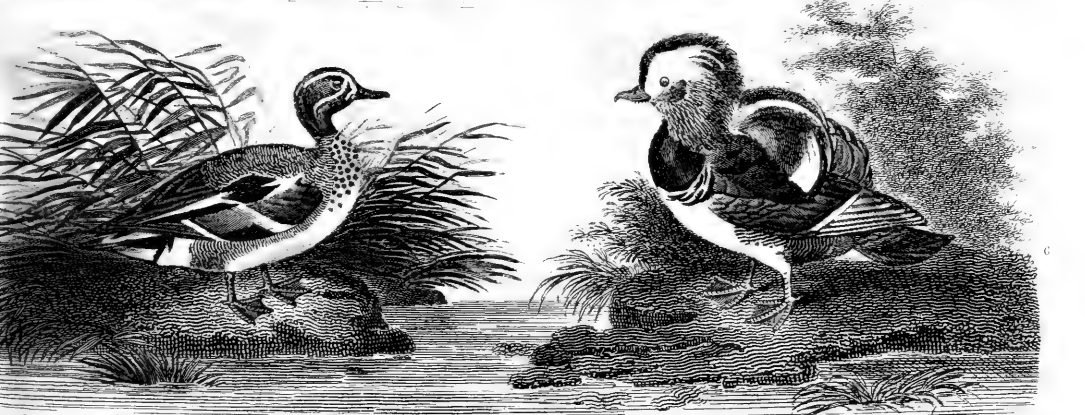
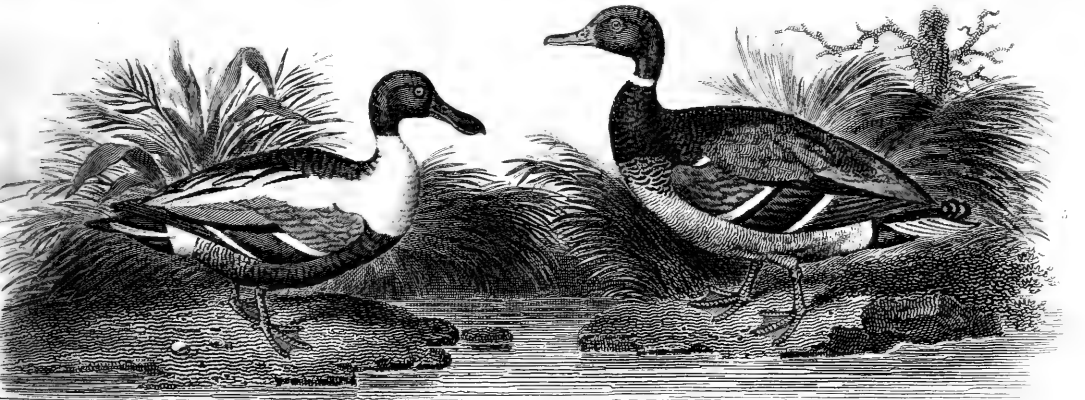
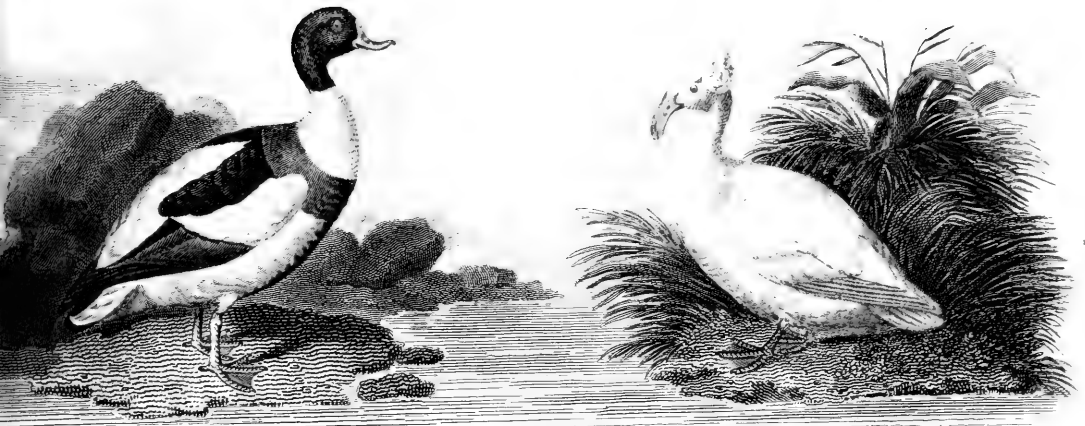
2. *A. canadensis*  
CANADA G.

3. *A. spotulata*  
GRAY H. B. D. D. C.

4. *A. moschata*  
RUSSIAN G.

Published as the Act directs April 1<sup>st</sup> 1816 by J. Newman II. in the Strand London.





1. *A. Tardona*  
SHELDRAKE.

2. *A. Clypeata*  
SHOVELER.

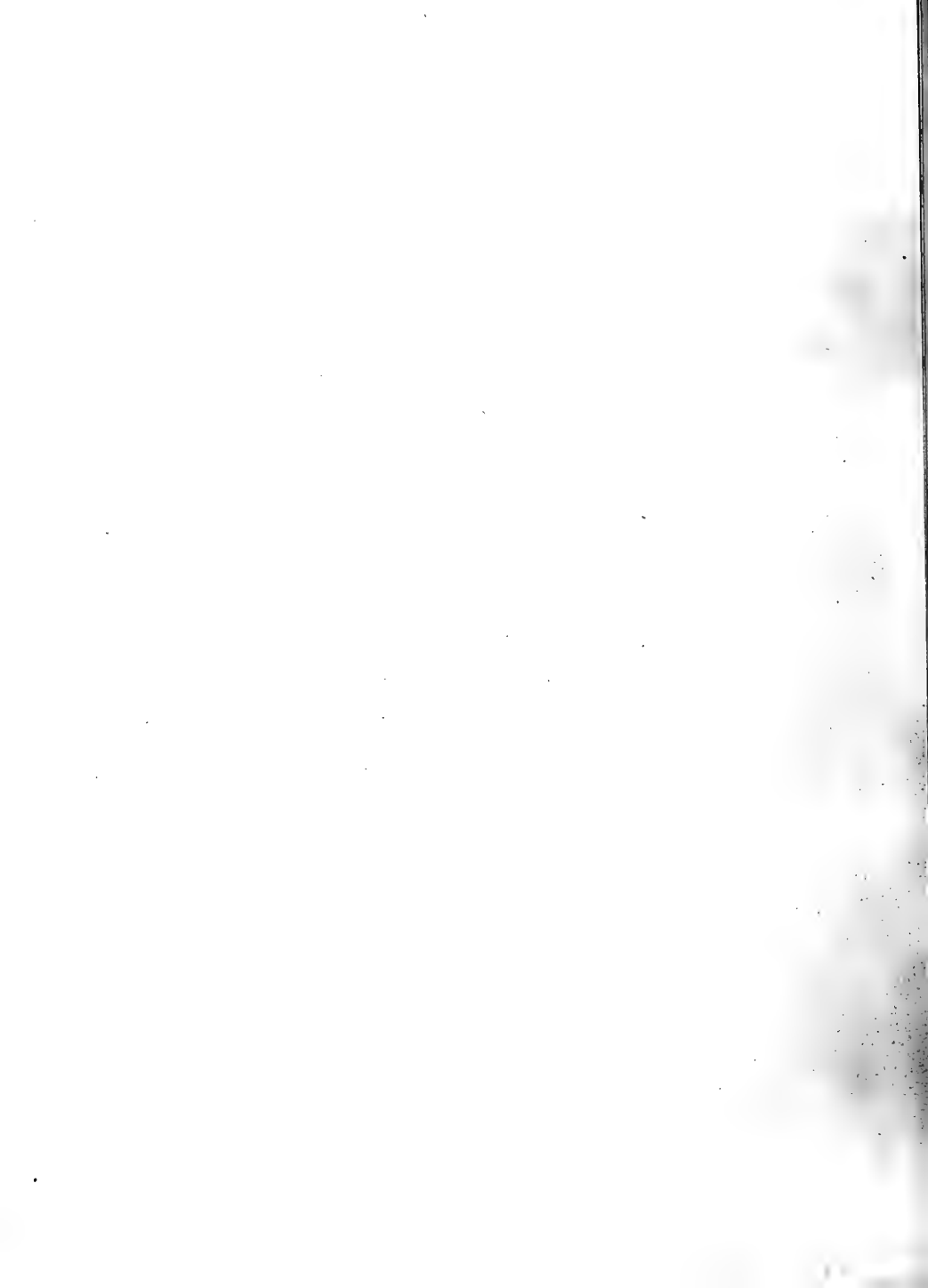
3. *A. Croca*  
TEAL.

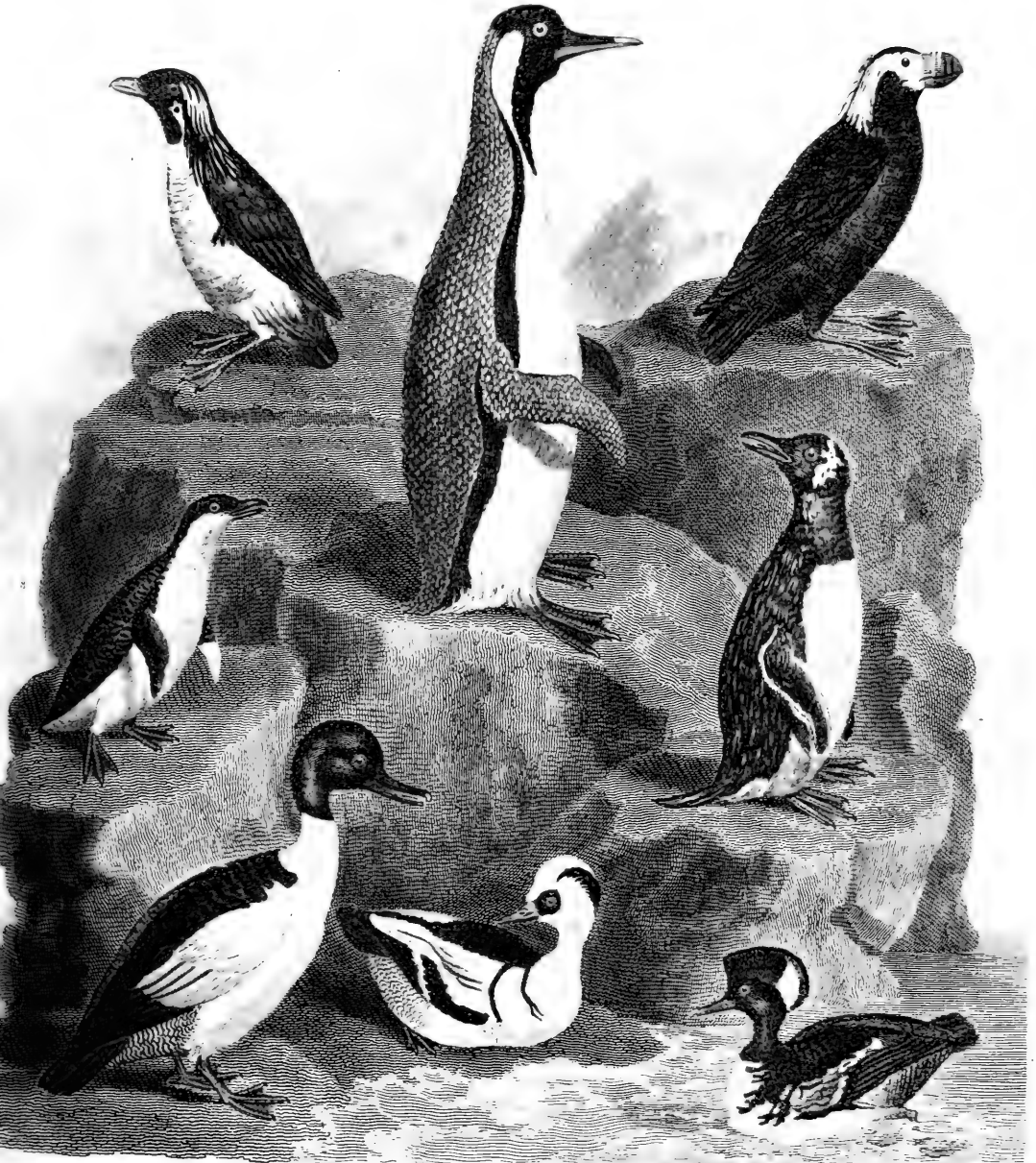
GENUS *ANAS*  
Swan.

4. *A. Cervina*  
HOOK-BILLED DUCK.

5. *A. Boschas*  
MALLARD.

6. *A. Galericulata*  
MURDERINE DRAKE.





GENUS *Merganser*

- 1 M. *Merganser*
- 2 M. *cinereus*
- 3 M. *albus*

GOOSINDER      CRESTED M.

GENUS *Alca*

- 4 A. *Alca*
- 5 A. *argata*

INCHEN      T. G. B.

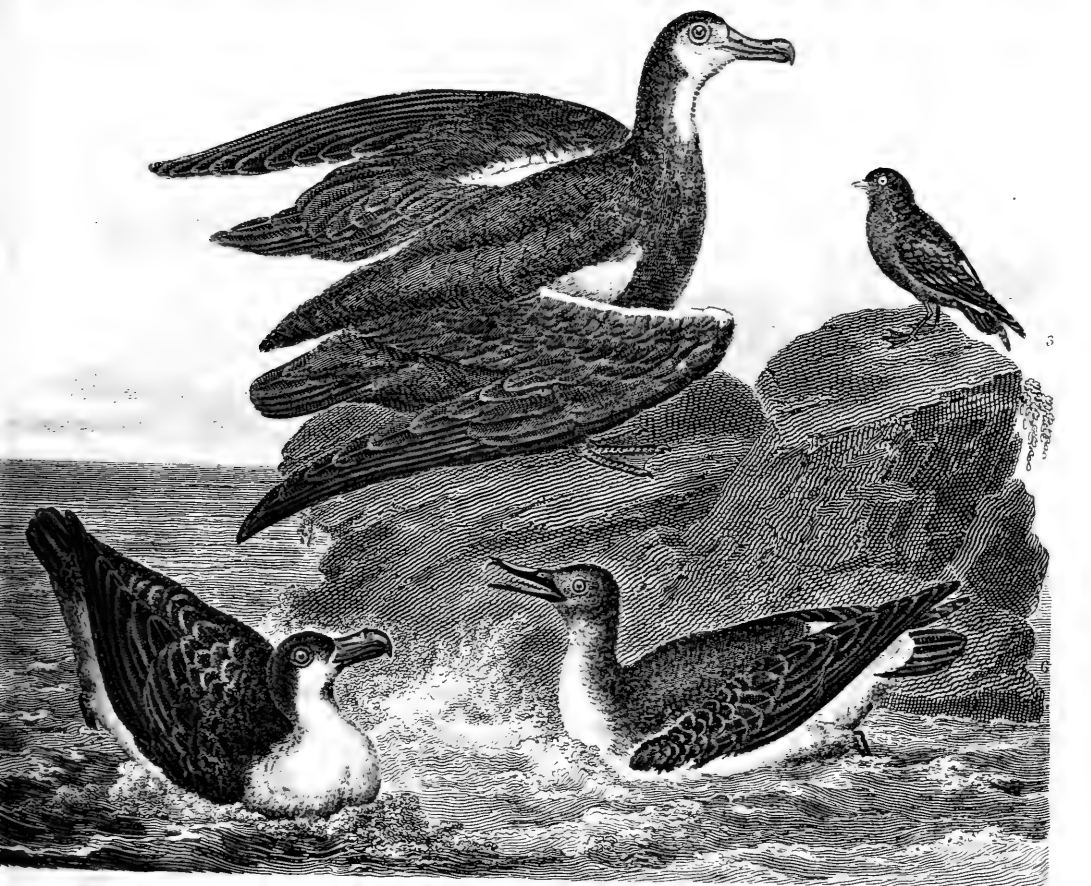
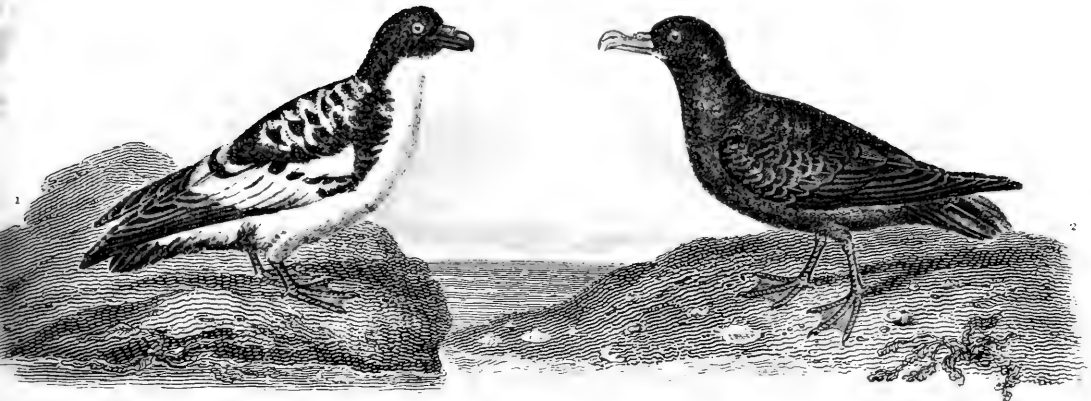
GENUS *Diomedea*

- 6 A. *Diomedea*
- 7 A. *capitata*
- 8 A. *capitata*

PENGUIN      P. C. P.      T. G. B.







GENUS PROCELLARIA G DIOMEDIA

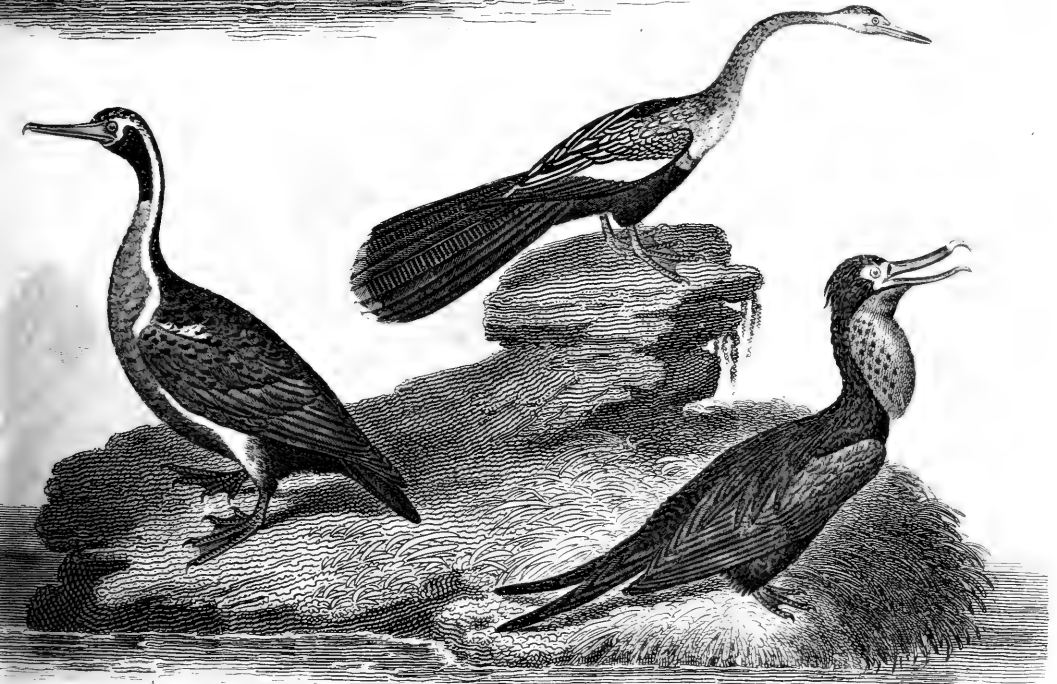
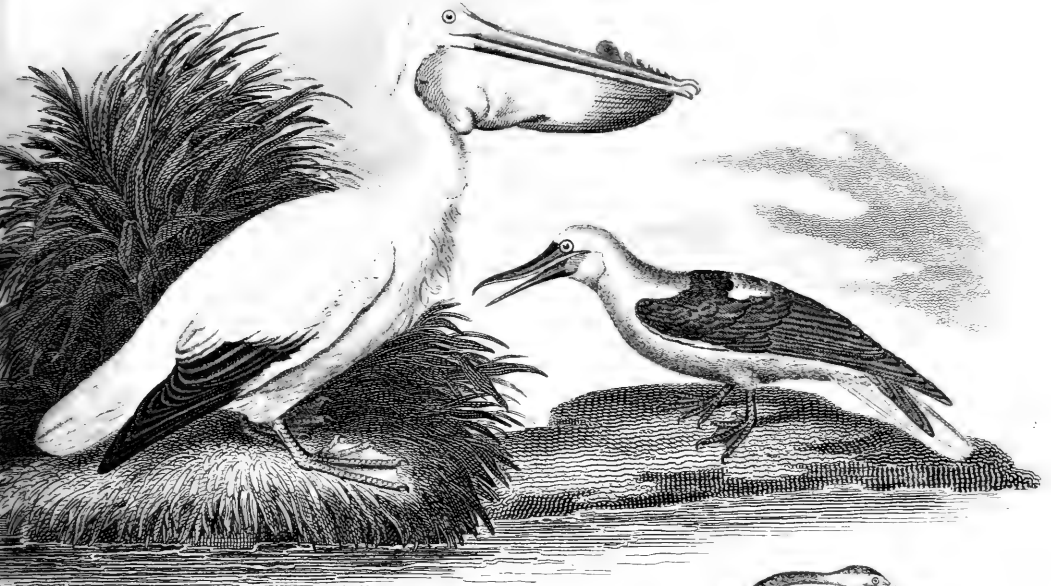
Petrel Albatross

- 1. P. Capensis
- 2. P. Fuliginosa
- 3. P. Pelagica
- 4. P. Gairdneri
- 5. D. Spaldingii
- 6. D. chlororhynchos

PINTADO P. SOOTY P. STORM P. GLISTY G. COCOUILLE YELLOW NASED

Published as the 1st sheet of the 1<sup>st</sup> volume of the *Illustrations of the Birds of the British Museum*

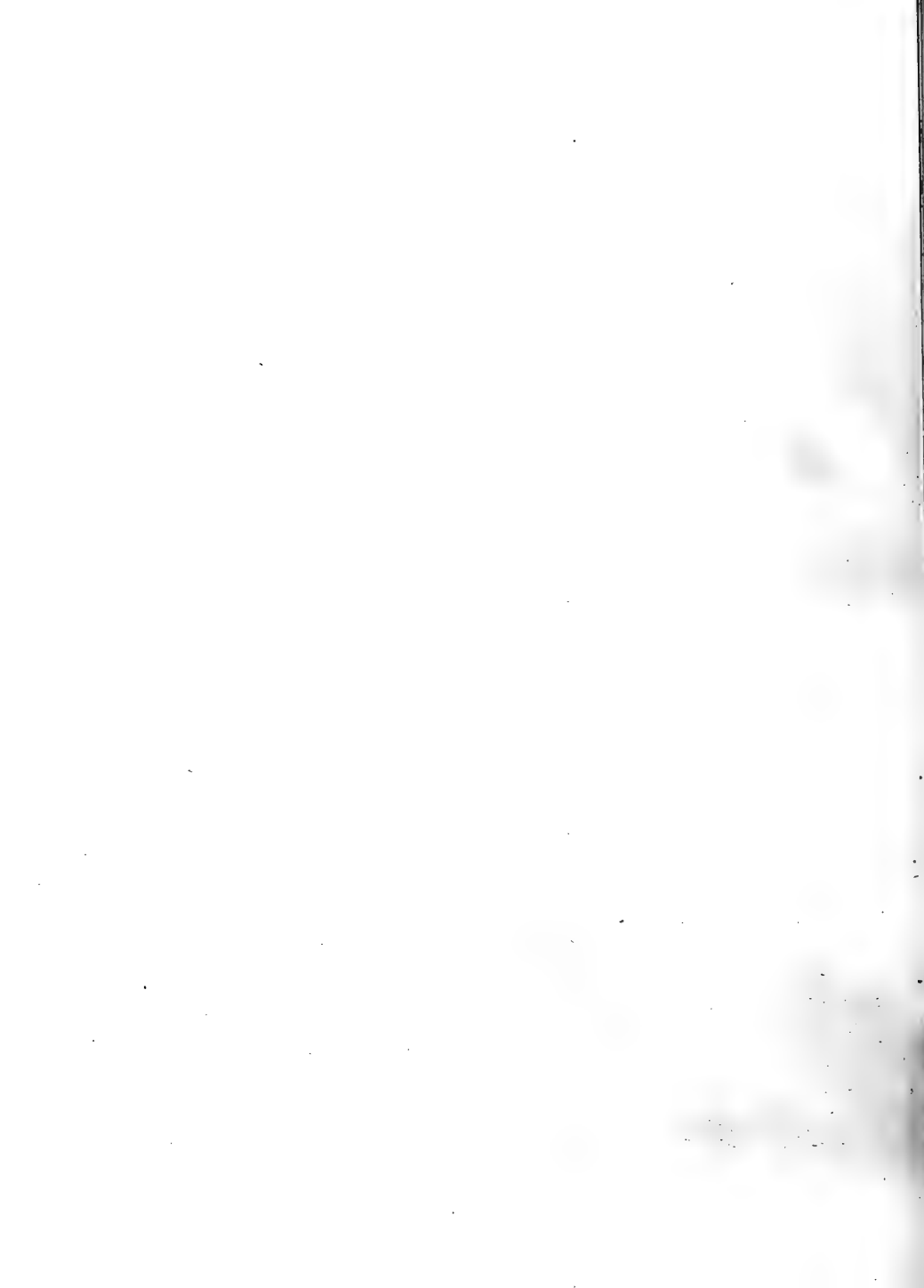




**G. PELECANUS**  
 Pelican

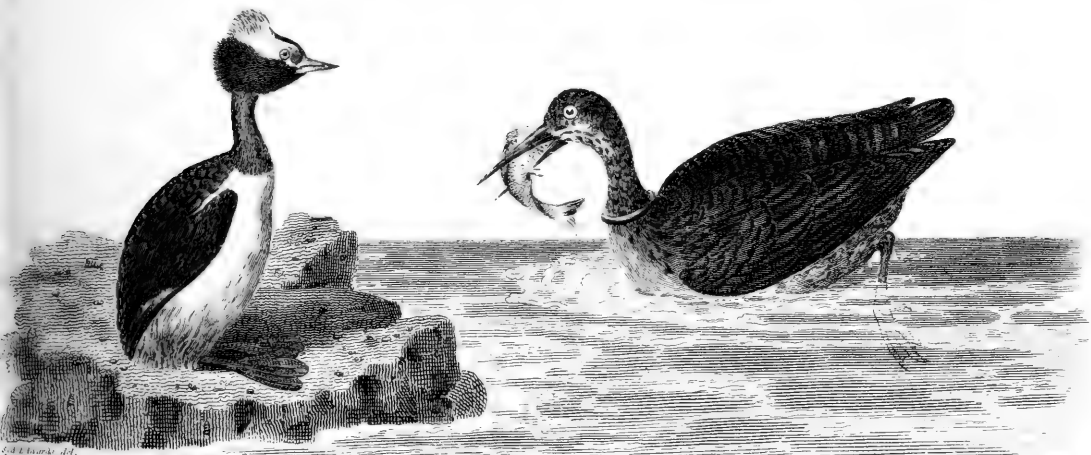
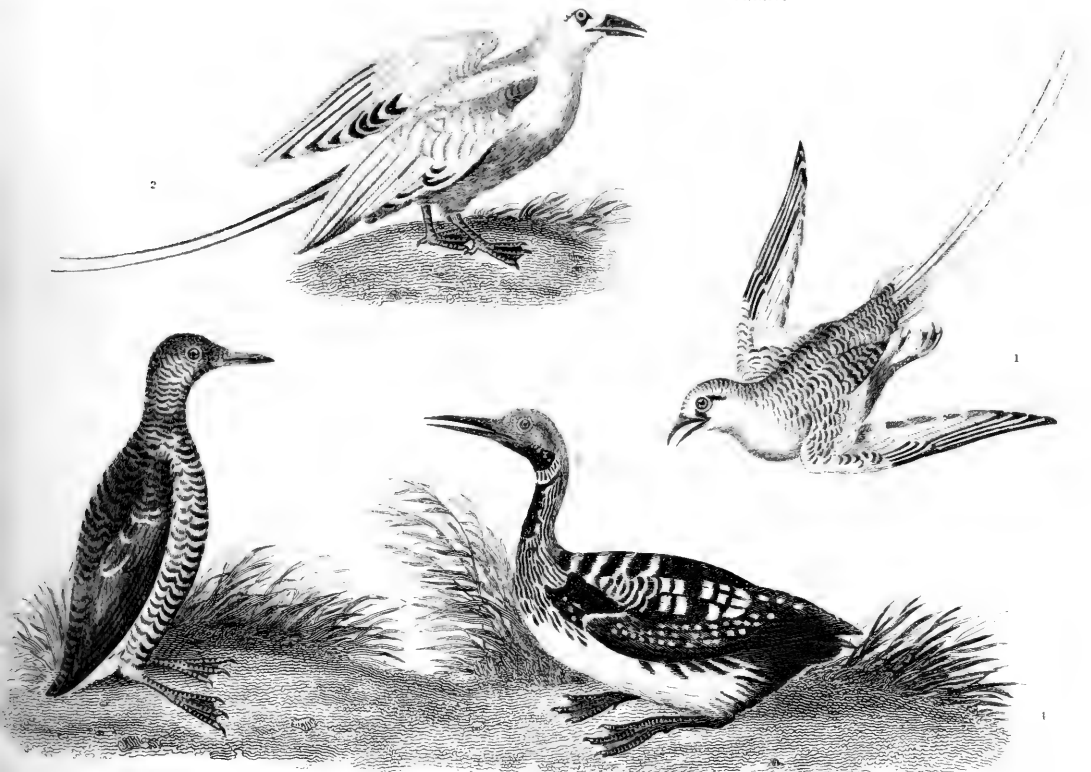
**GENUS DUCKS**  
 Duck

1. *P. leucorhynchus* L. *P. Scythiacus* L. *P. Aquaticus* L. *P. maritimus* L. *P. fuscus* L.  
 2. *P. fuscus* L. *P. fuscus* L. *P. fuscus* L. *P. fuscus* L. *P. fuscus* L.



*Div. 2. Water Birds.*

Order 34 ANSERES.



**G. PILAEON**

Teal or Bird

1. *F. Ethicus*

2. *F. Phasianus*

3. *F. Manneratus*

**GENUS. COLYMBUS**

Gull-mot, Divers, Grebe.

4. *C. leucotis*

5. *C. Sinensis*

6. *C. Cornutus*

COMMON T.

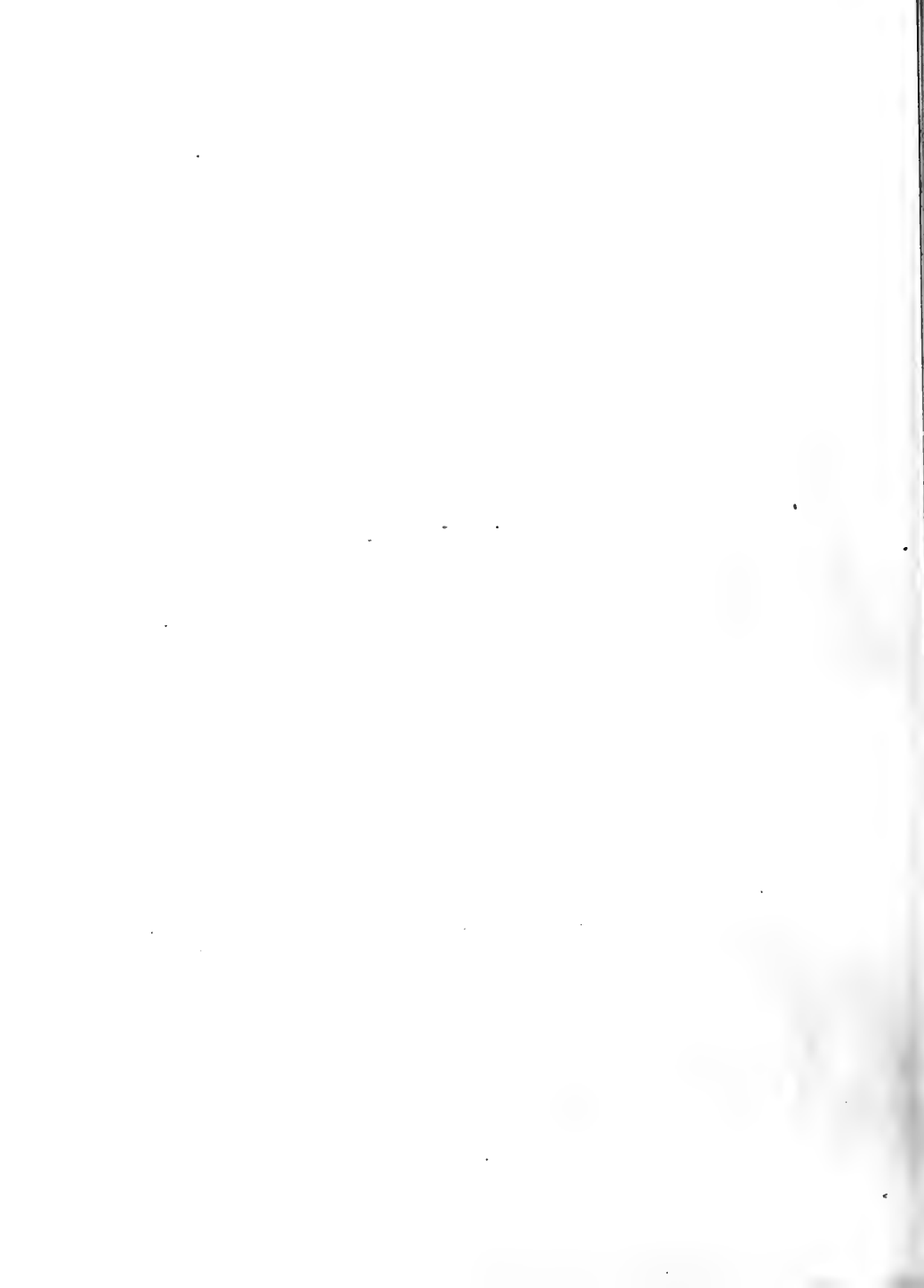
RED TALENT.

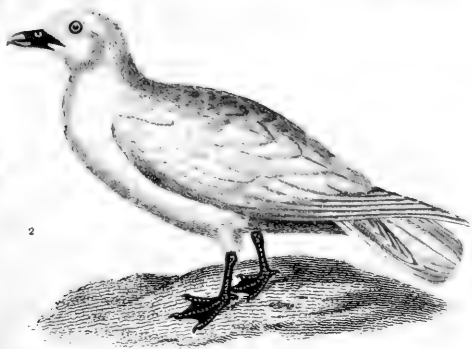
MARBLED G.

BLACK THROATED D.

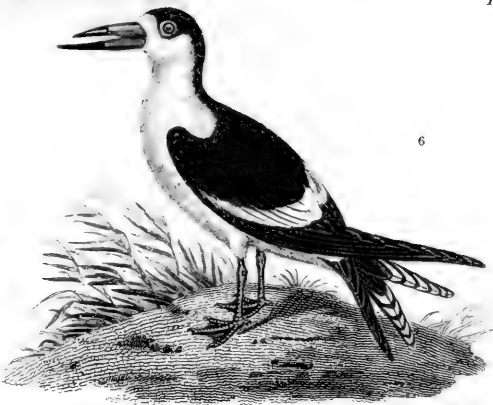
CHINESE D.

HORNED G.

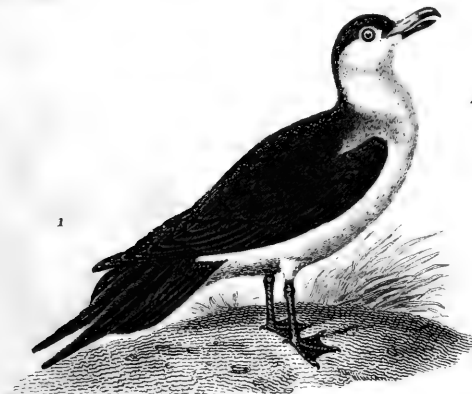




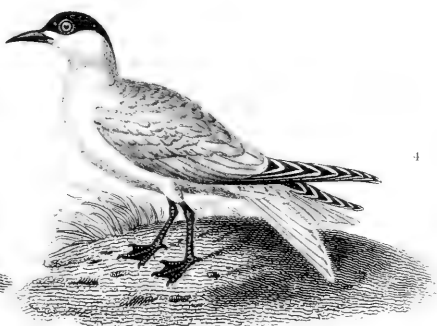
2



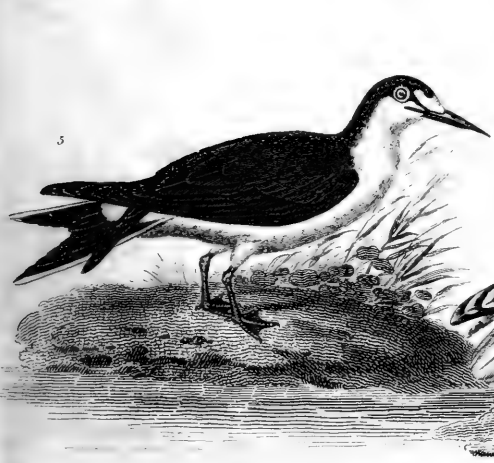
6



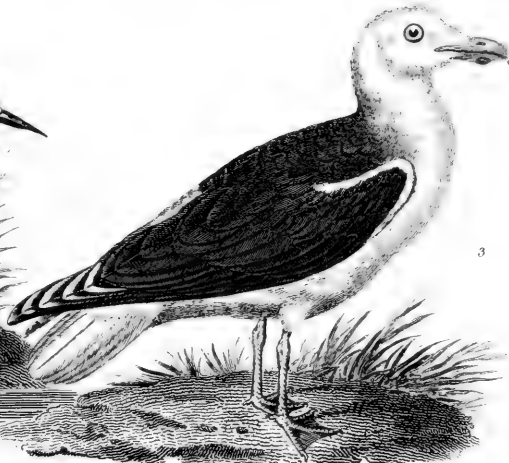
1



4



5



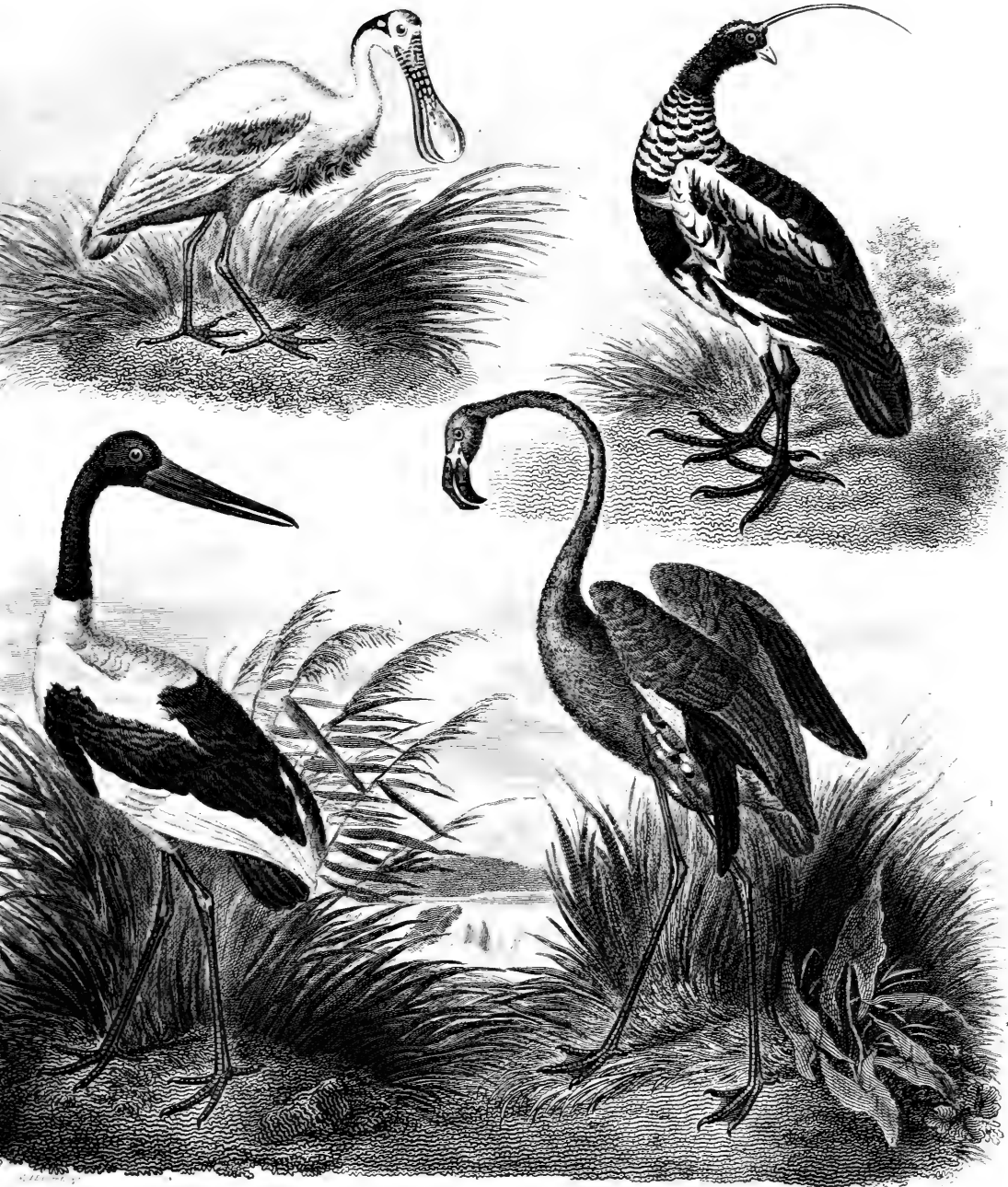
3

5/4 Edwards del.

GENUS <i>LARUS</i> (Gull)		G. <i>STERNI</i> (Tern)		G. <i>RYNCHOPS</i> (Skimmer)	
1. <i>L. Parasiticus</i> ARCTIC G	2. <i>L. Marinus</i> IVORY G.	3. <i>L. Marinus</i> BLACK BACKED G	4. <i>S. Caspia</i> CASPIAN T.	5. <i>S. stolidus</i> NODDY S.	6. <i>R. Nigra</i> BLACK S.







GENUS PHENICOPTERUS.

1. *Fraser*  
RED FLAMINGO.

G. PLATYLEA.

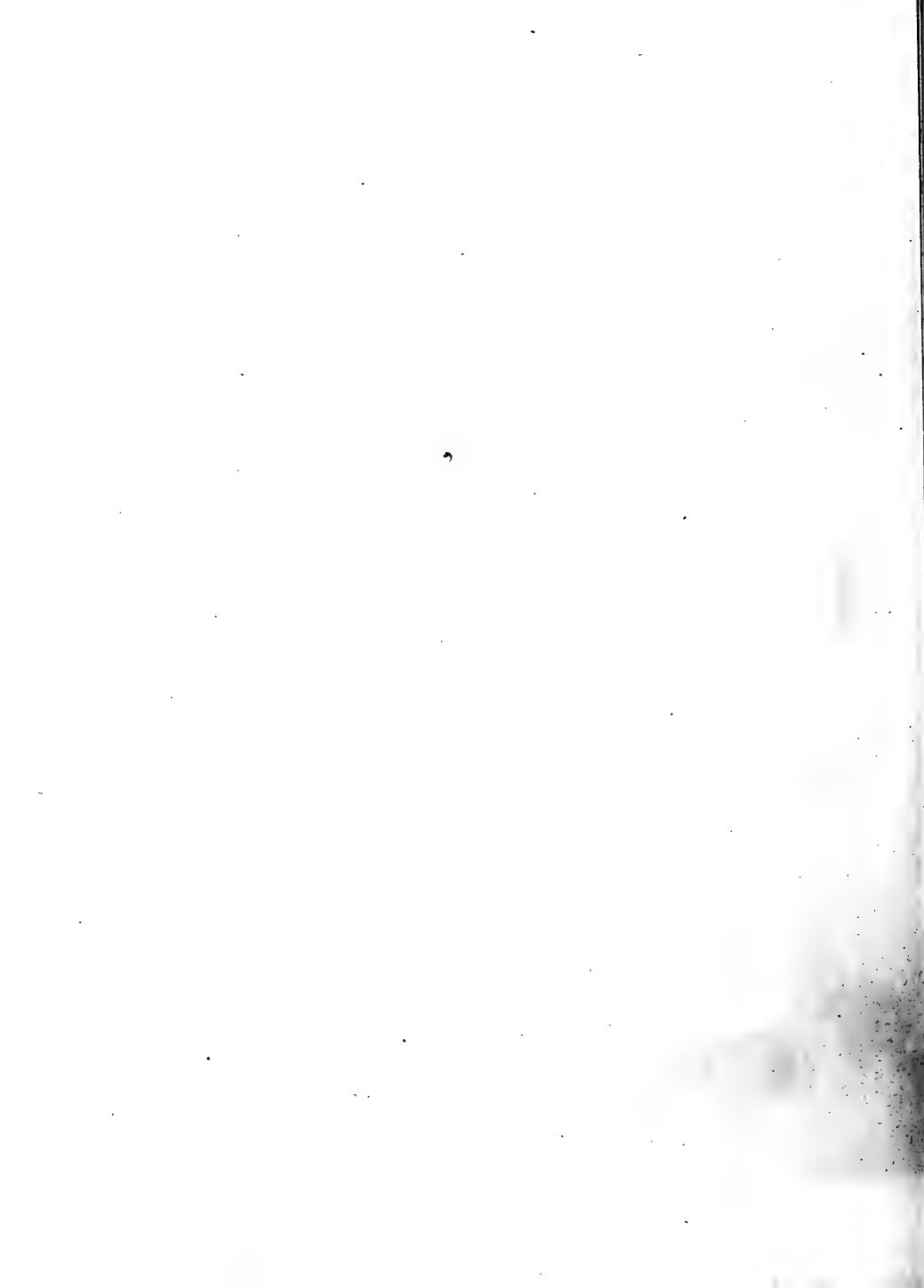
2. *Papa*  
ROSEATE SPOON BILL.

G. P. ILAMEDIA.

3. *Coronado*  
HORN'D SCREAMER.

G. MYCTERLI.

4. *Mossa* Hollandia.  
NEW HOLLAND IBIS.



Order GRALLÆ.

GENUS CINCROMA — G. SCOPUS G. ARDEI.

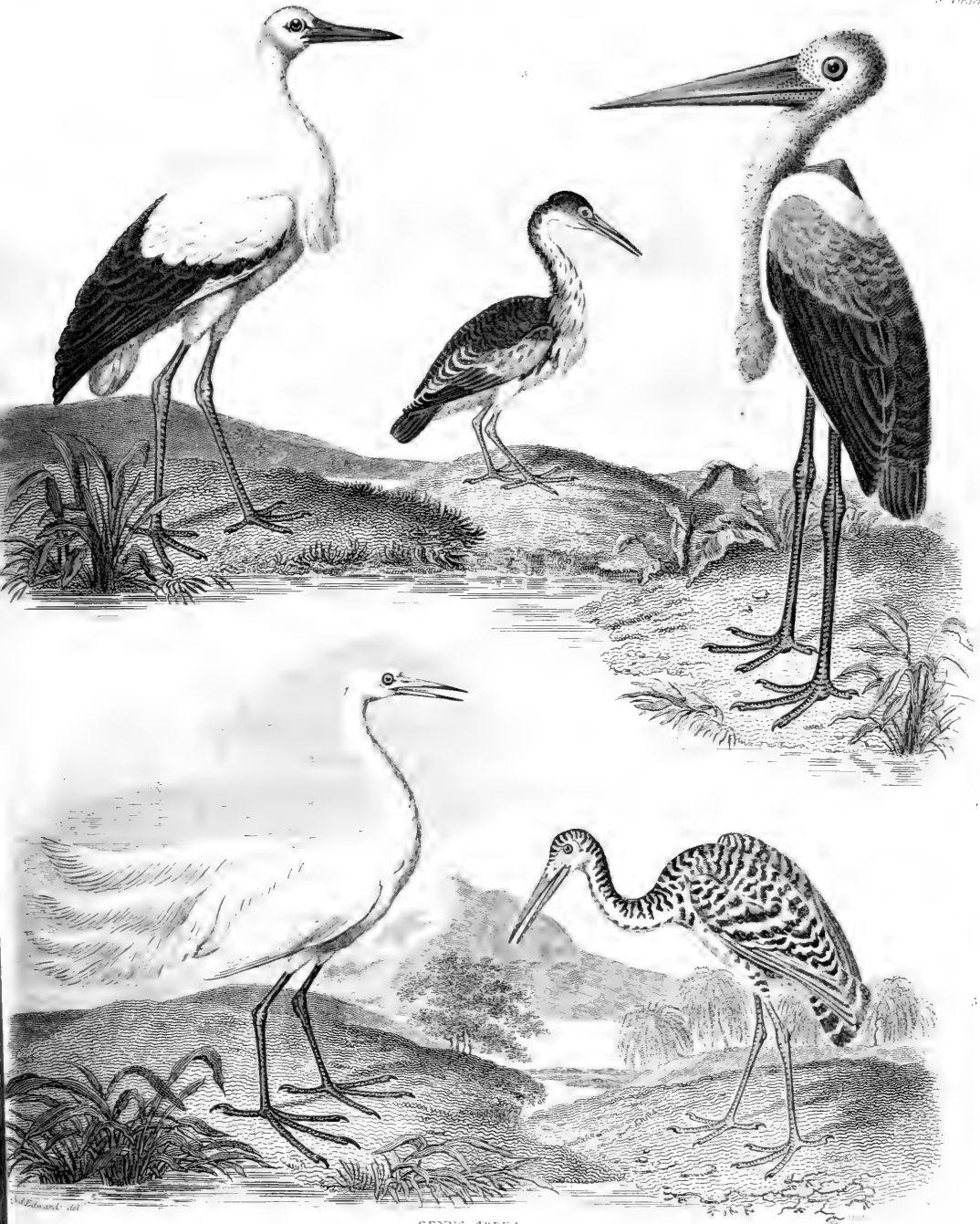
(Boat-bill) (Umber) Crane



1. *Cochlearia* 2. *Umbrata* 3. *Bavonia* 4. *Intigone*  
 CRESTED C. TUFTED C. CROWNED C. INDIAN C.

Published as the Act directs April 1830, by Longman, Hurst, Rees, Orme & Brown, Paternoster-Row.

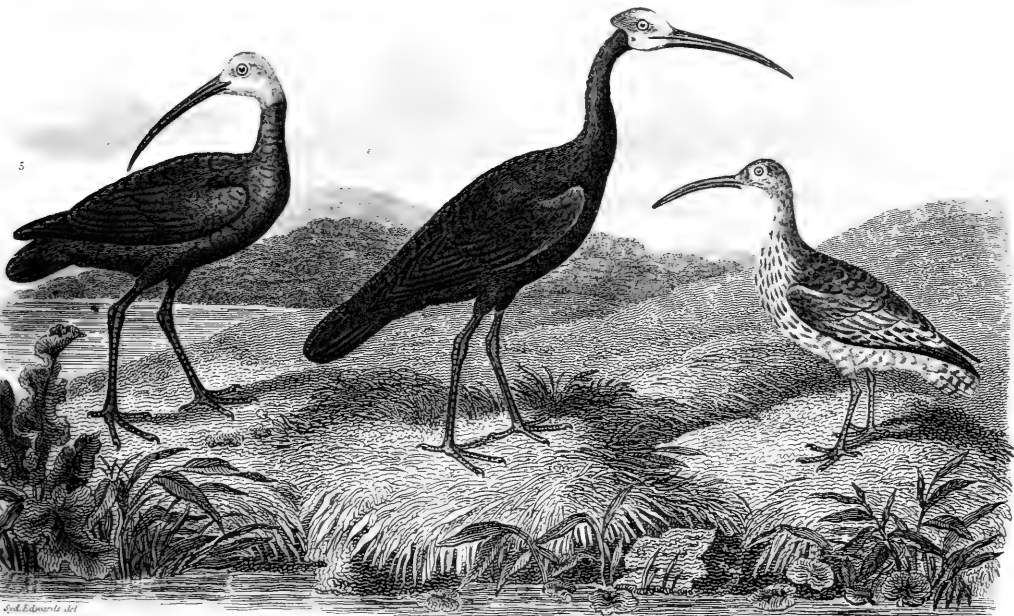
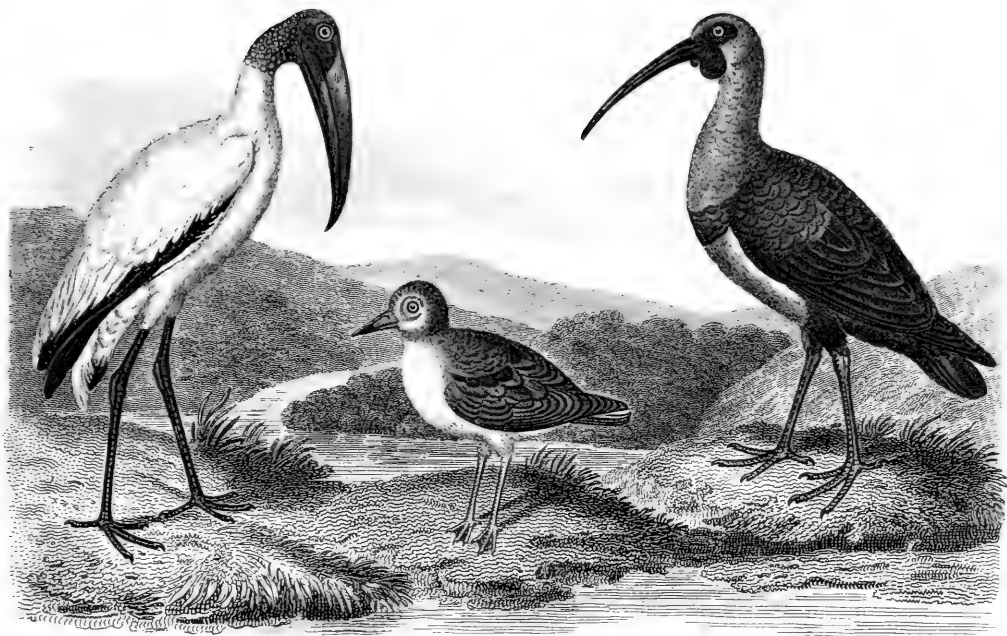




GENUS ARDEA  
Crane.

- |                      |                    |                     |                      |                       |
|----------------------|--------------------|---------------------|----------------------|-----------------------|
| 1. <i>A. Ciconia</i> | 2. <i>A. Dabia</i> | 3. <i>A. Exilis</i> | 4. <i>A. Egretta</i> | 5. <i>A. Torquata</i> |
| WHITE STORK          | GIGANTIC HERON     | MINUTE BITTLEN      | GREY OR EGRET        | TIGER BITTLEN         |





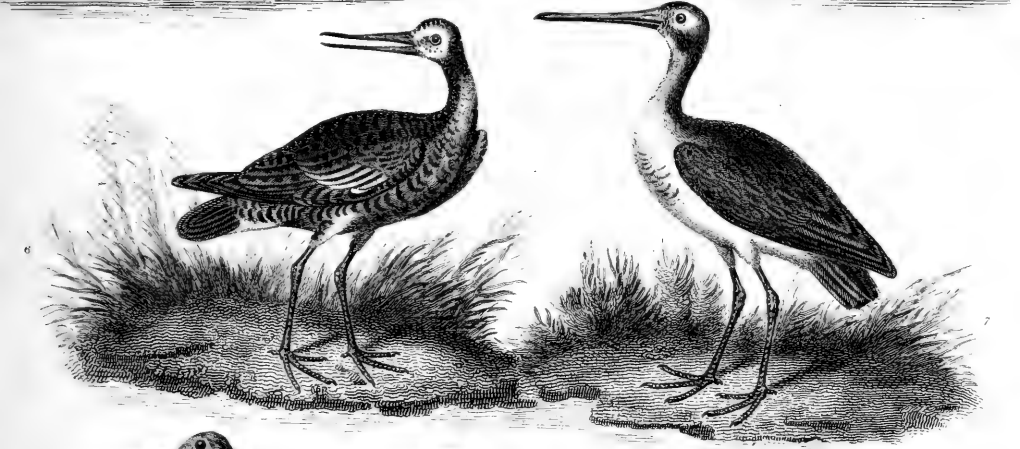
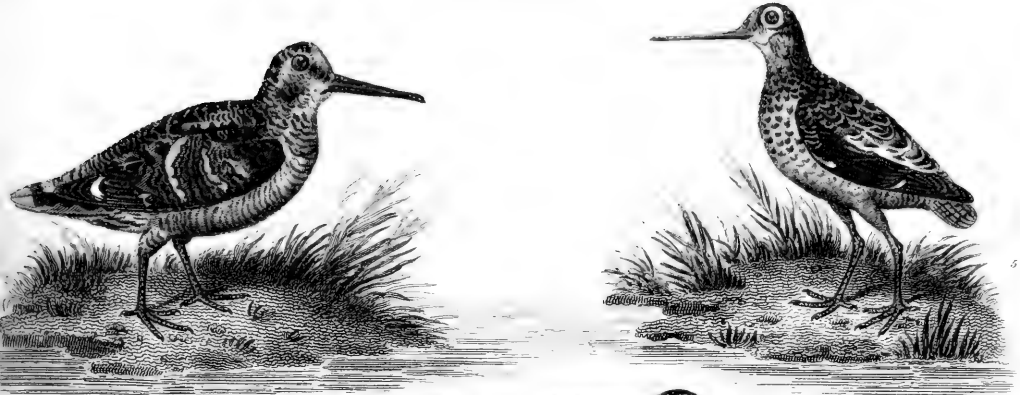
<b>GENUS TINTALUS</b>			<b>G. CORRINA</b>	<b>G. SCOLOPAX</b>
	(bis)		Courier	Whimbrel
1. <i>T. Loodator</i>	2. <i>T. Melanops</i>	3. <i>T. Calvus</i>	4. <i>C. Italica</i>	5. <i>S. Leucocephala</i>
WOOD I.	BLACK FACED I.	BILD I.	ITALIAN C.	WHITE HEADED CTRREW
				6. <i>S. Phaeopus</i>
				WHIMBREL

Published as the 1st direct. Aug 1<sup>st</sup> 1826 by Longman Hurst, Res. Orm, & Brown Paternoster Row





Order GRALLÆ.



GENUS SCOLOPAX

- |                                      |   |                                     |                                     |                                   |                                       |                                  |
|--------------------------------------|---|-------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|----------------------------------|
| 1. <i>S. Lapponica</i><br>RED GODWIT | 2. <i>S. Candida</i><br>WHITE RED SHANK | 3. <i>S. Capensis</i><br>CAPE SNIFE | 4. <i>S. Rusticola</i><br>WOOD COCK | 5. <i>S. Major</i><br>GREAT SNIFE | 6. <i>S. Fedoa</i><br>AMERICAN GODWIT | 7. <i>S. Limosa</i><br>LESSER G! |
|--------------------------------------|---|-------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|----------------------------------|

Published as the Act directs, Dec 1<sup>st</sup> 1821, by Longman, Hurst, Bess, Orme & Brown, Paternoster Row





GENUS TRINGA

Sandpiper

1. *L. macularia*

2. *L. Pomarine*

4. *L. lobata*

5. *C. apricaria*

6. *C. Minantopne*

7. *C. spinosus*

WHITE WINGED SP.

BENT & BREEVE

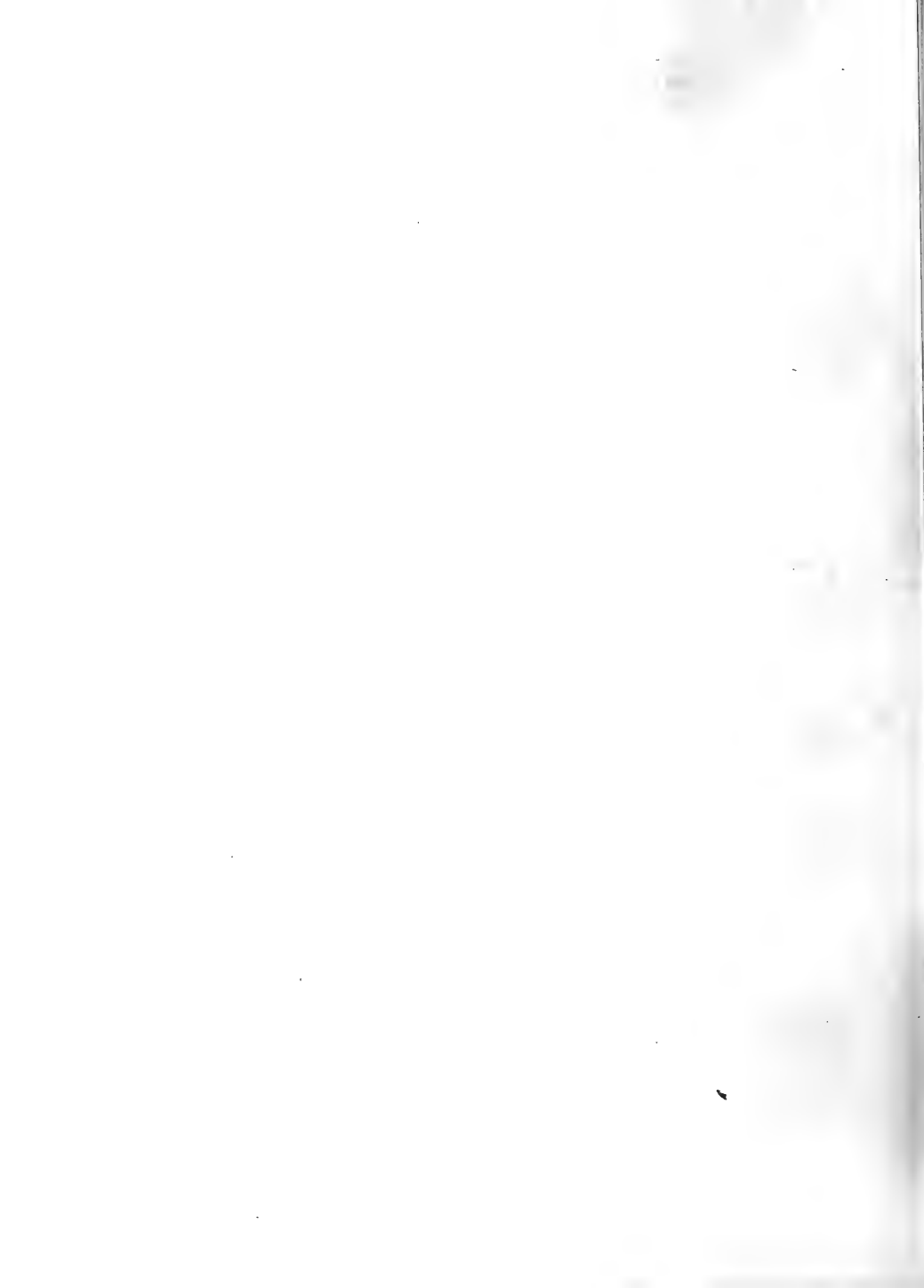
GREY TAIL BROT

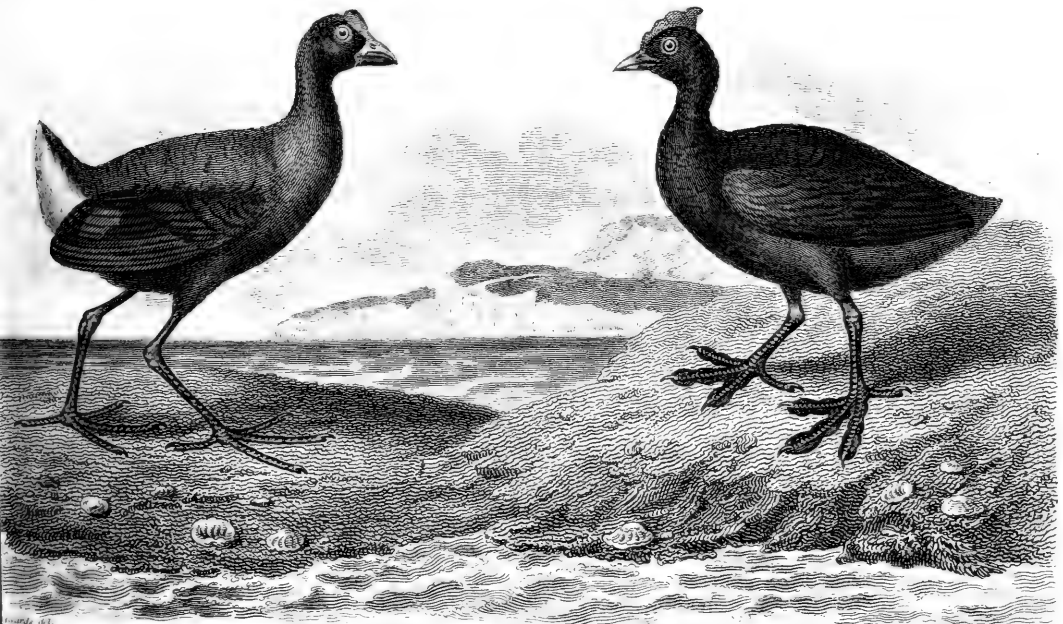
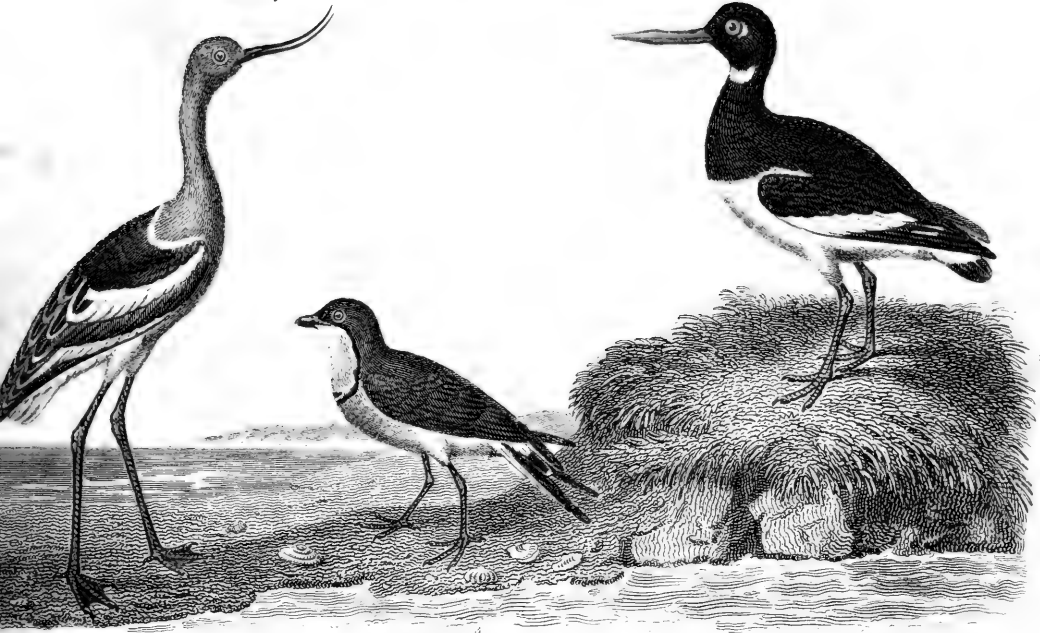
NEW WINGED P.

LONG LEGGED P.

SPUR WINGED P.

Published as the Act of the 1st of Sep. 1851 by Longman, Brown, Green, & Co. 15, St. Andrew's Church Lane, London.





**G. RECURVIROSTRA**

(Avocet)

1. R. *Americana*

AMERICAN A.

**G. LEUCOTOPUS**

Oyster-eater

2. G. *Australis*

OFSTER E.

**G. GLAREOLA**

Turnstone

3. G. *Australis*

AUSTRAL T.

**GENUS FULICA**

Grebe

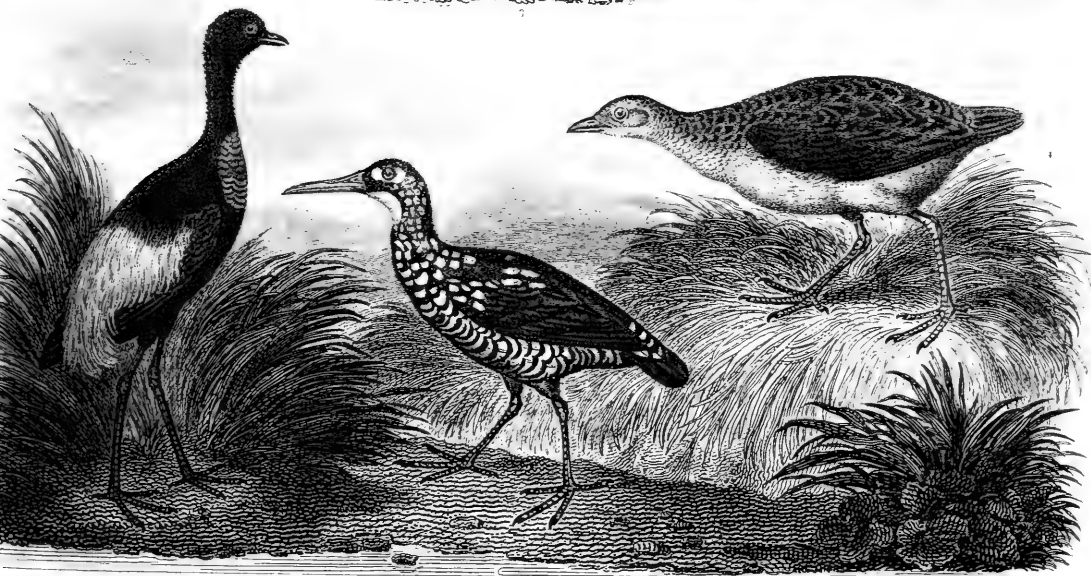
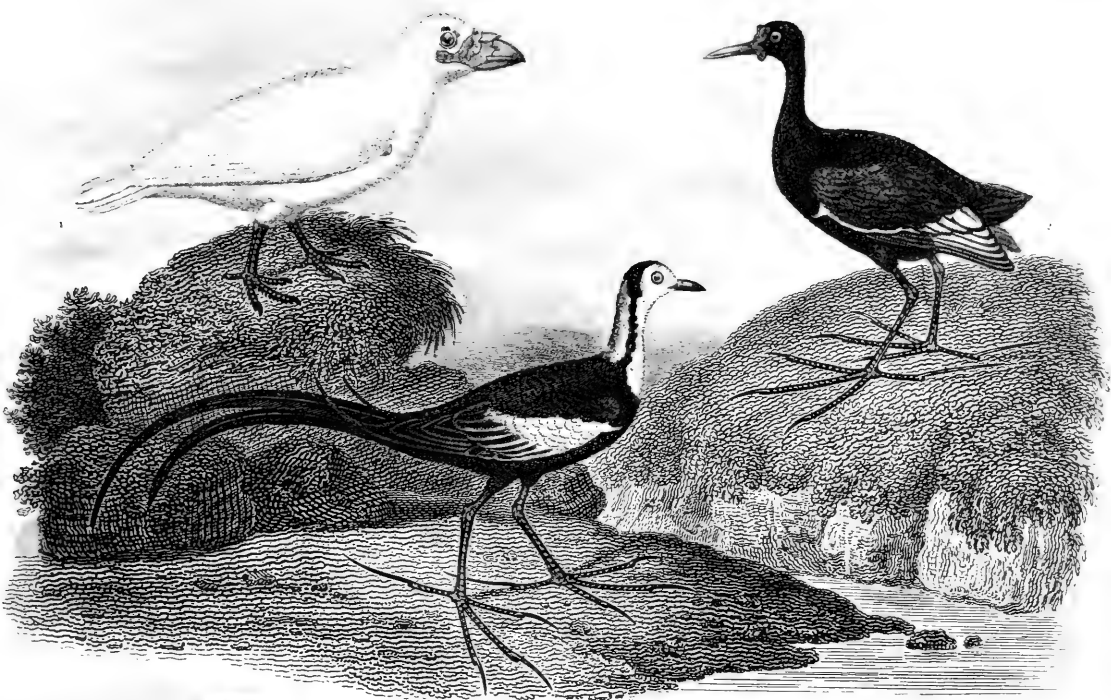
4. F. *Porphyrio*

PURPLE G.

5. F. *Cristata*

CRESTED G.





G. JACINALIS

*N. alba*

WHITE SHEATH BILL

GENT'S PIRRA

*P. javana*

CHESTNUT JACANA

*P. sinensis*

CHINA J.

G. RALLUS

*R. ever*

LIND BILL

*R. variegatus*

VIRGULETTED R.

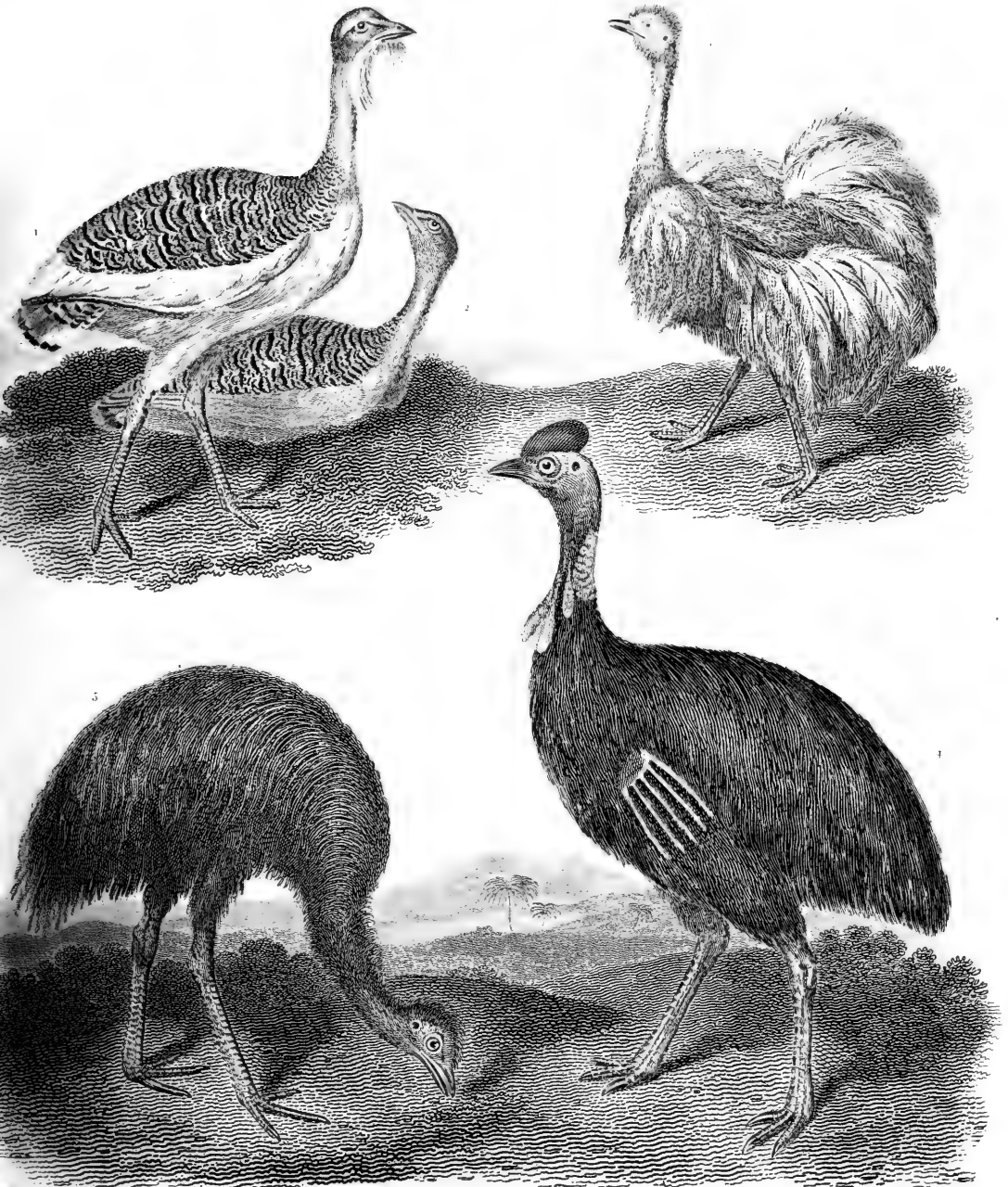
G. PSOPHII

*P. psopha*

GOLD BREASTED TRUMPETER







GENUS OTIS

(Bustard)

O. Tarda.

GREAT B. Male & Female.

3. S. Rhos.

AMERICAN O.

GENUS STRUTHIO

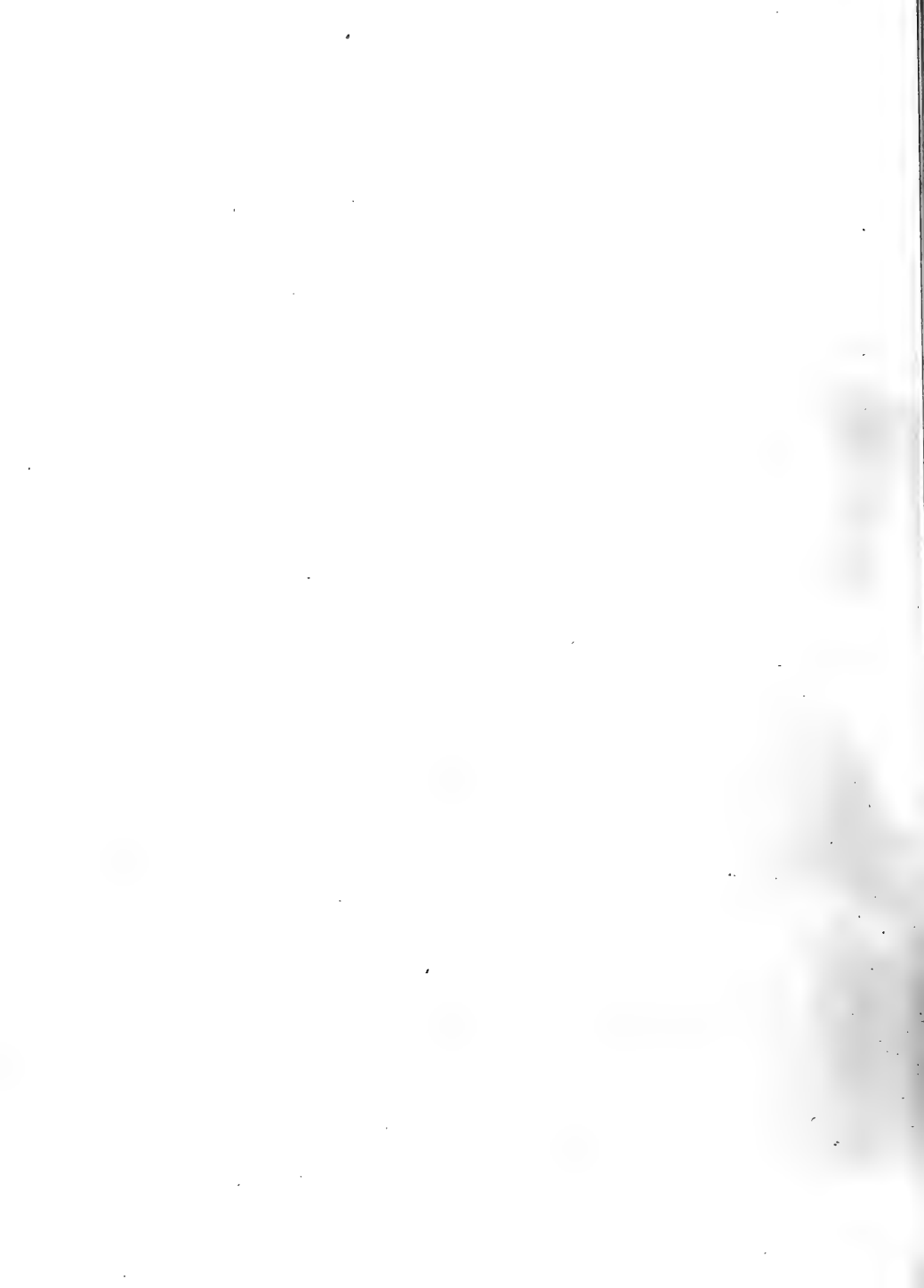
(Ostrich)

4. S. Chamaus.

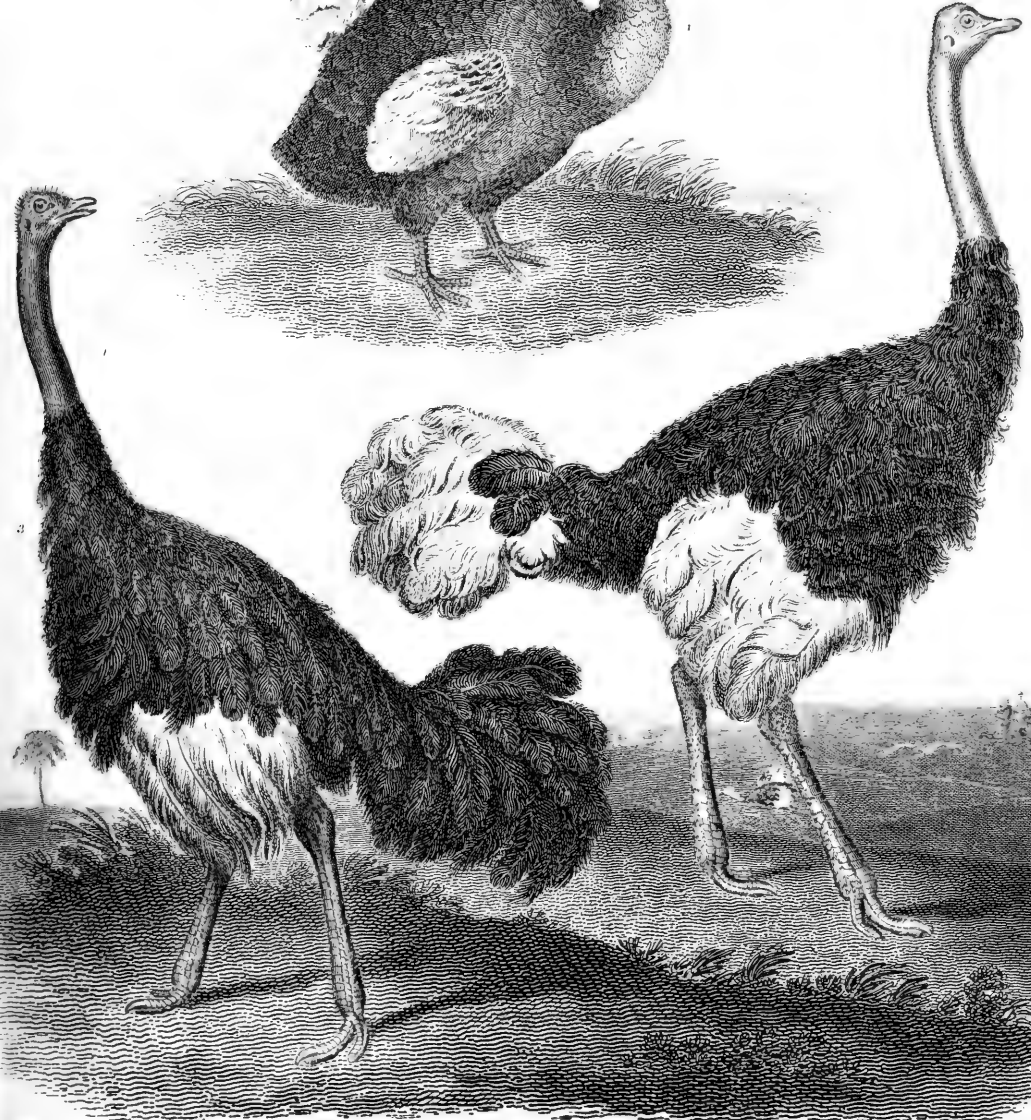
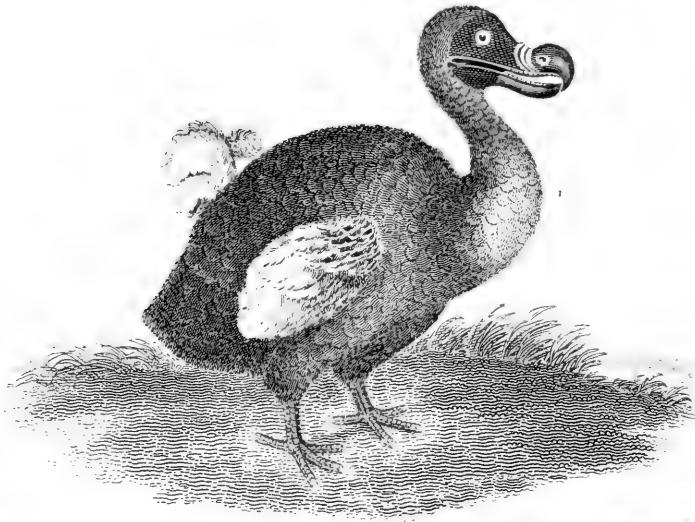
CISOWIRY

5. S. Nova Hollandia.

NEW HOLLAND CISOWIRY



Div<sup>n</sup> 2<sup>d</sup> Land Birds. Order 5<sup>th</sup> GALLINA.



GENUS DODOE  
Dodo.

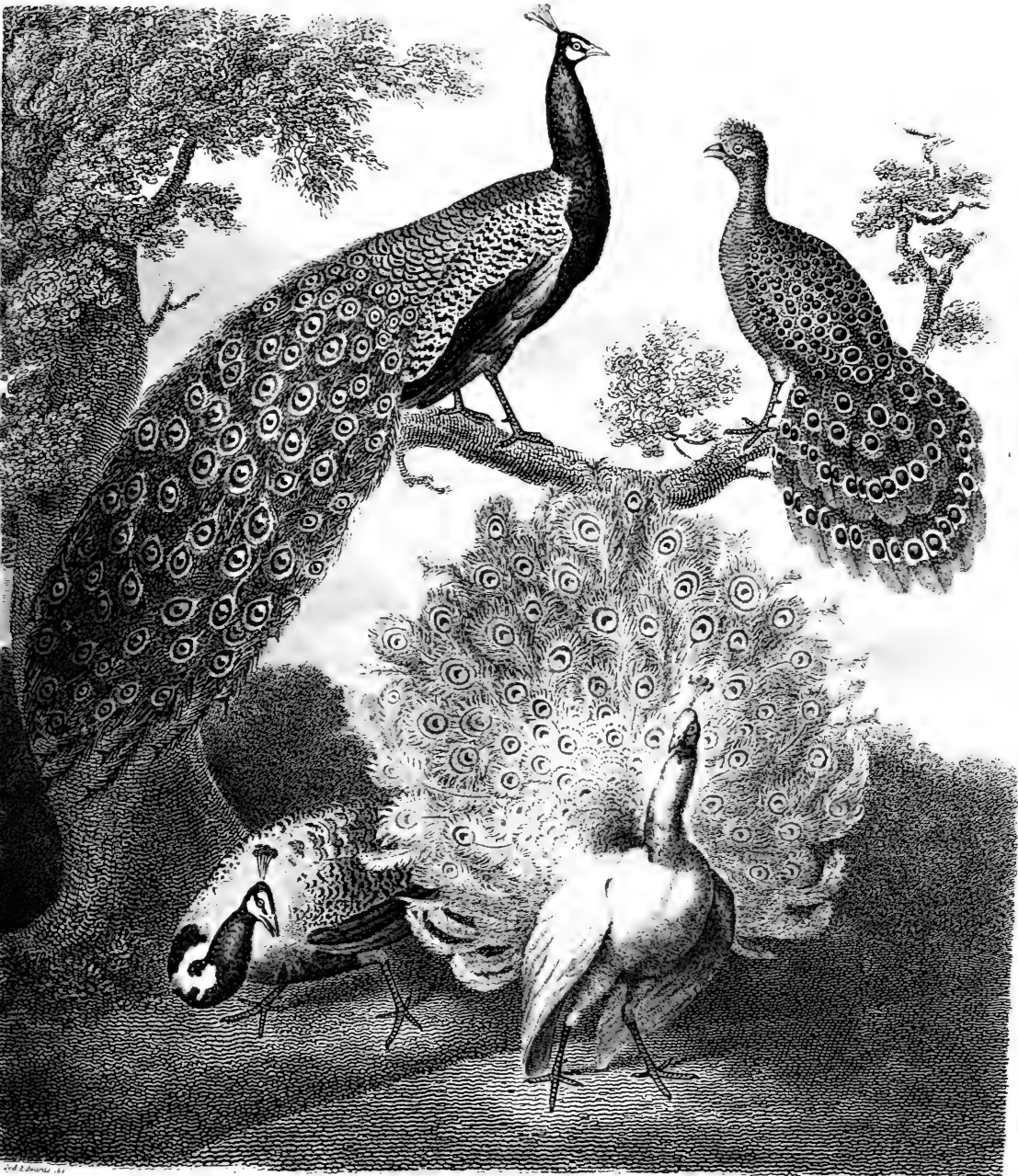
*Aithya Implex, WOODEN I.*

GENUS STRIPHO  
Ostrich.

*S. Capensis, GOTTSCHE MUSEUM.*

*Published by A. S. Lea & Co., Philadelphia, U.S.A.*





*GAUS PAVO.*  
Peacock

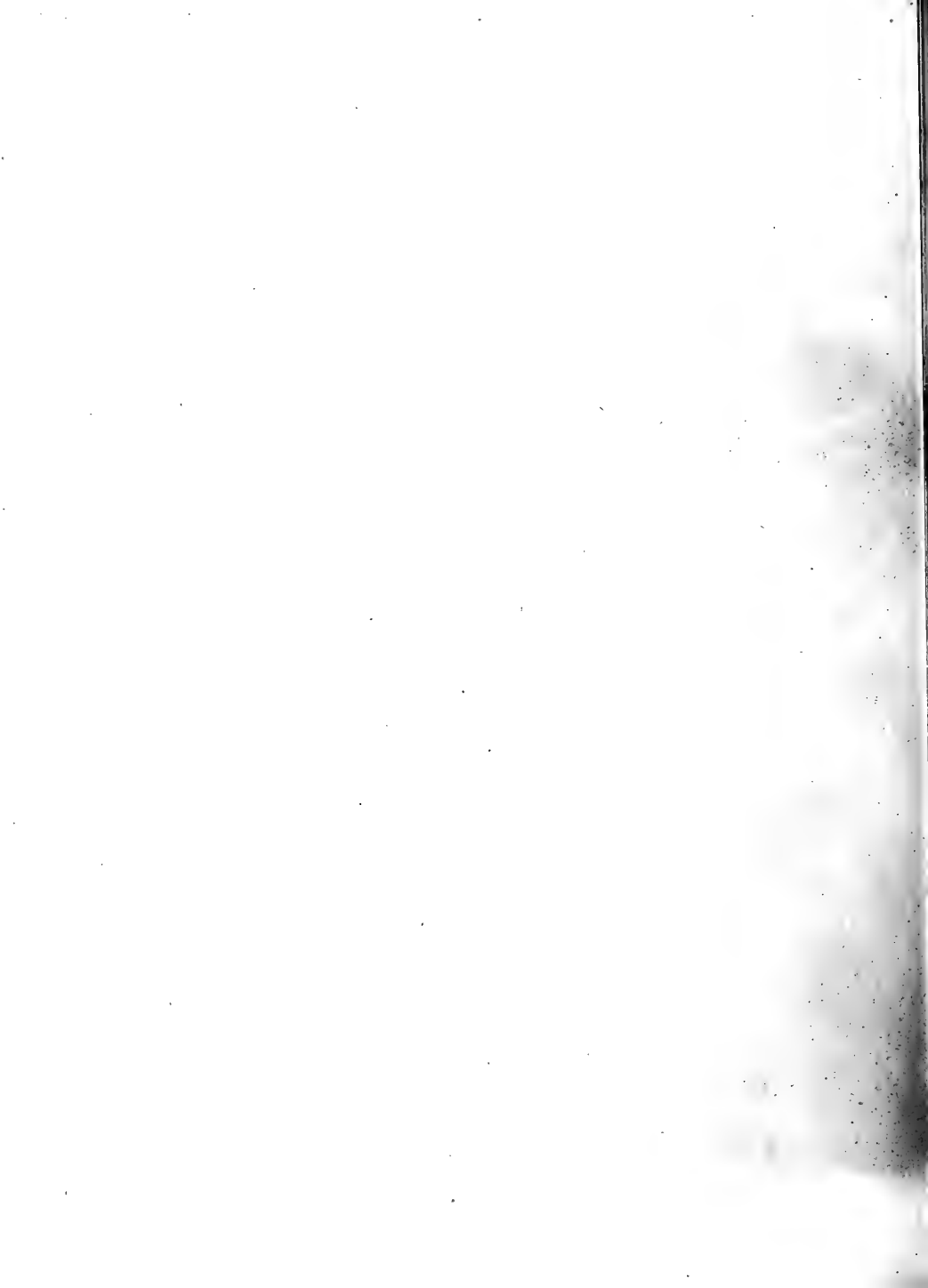
1. *P. cristatus*  
COMMON PEACOCK

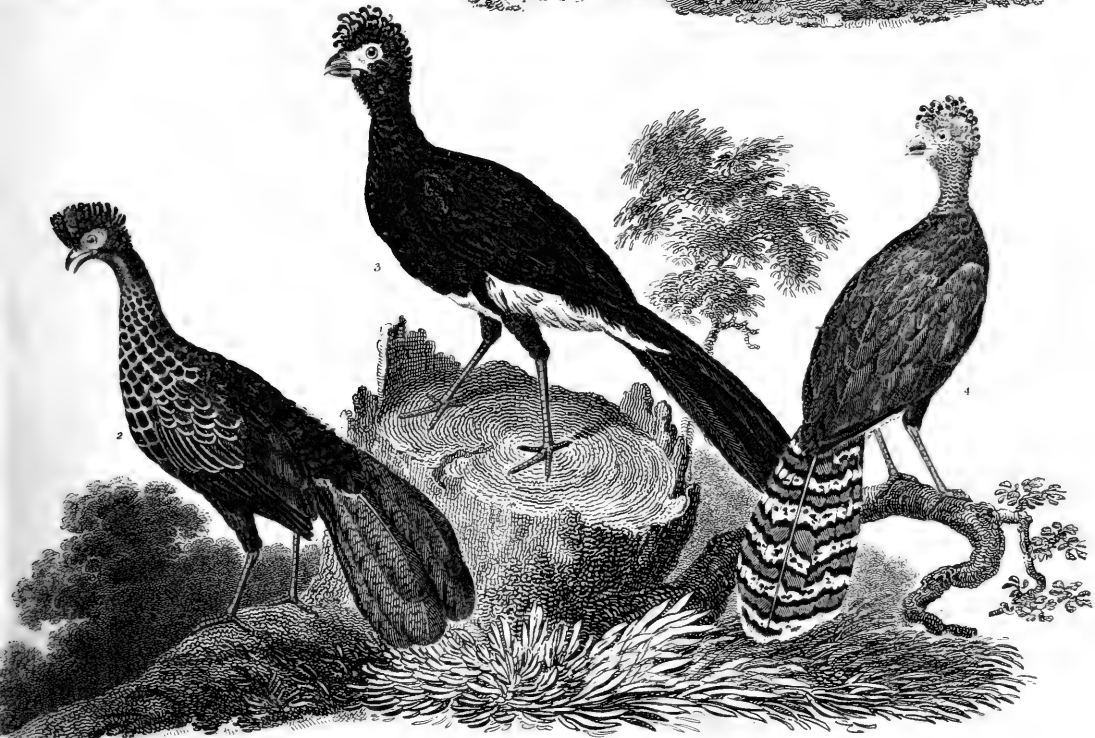
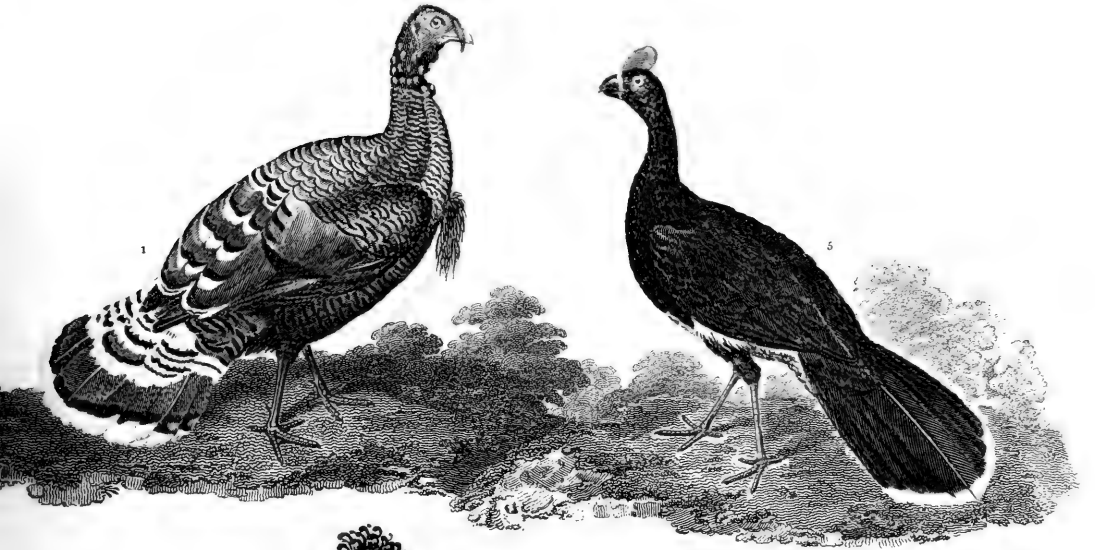
2. *P. cristatus varians*  
VARIEGATED or PIED PEACOCK

3. *P. cristatus var. albus*  
WHITE PEACOCK

4. *P. fuscicristatus*  
IRIS PEACOCK

Published by the Author, 1797, and by T. Cadell, in the Strand, 1801. Printed by R. D. Barclay, in the Strand.

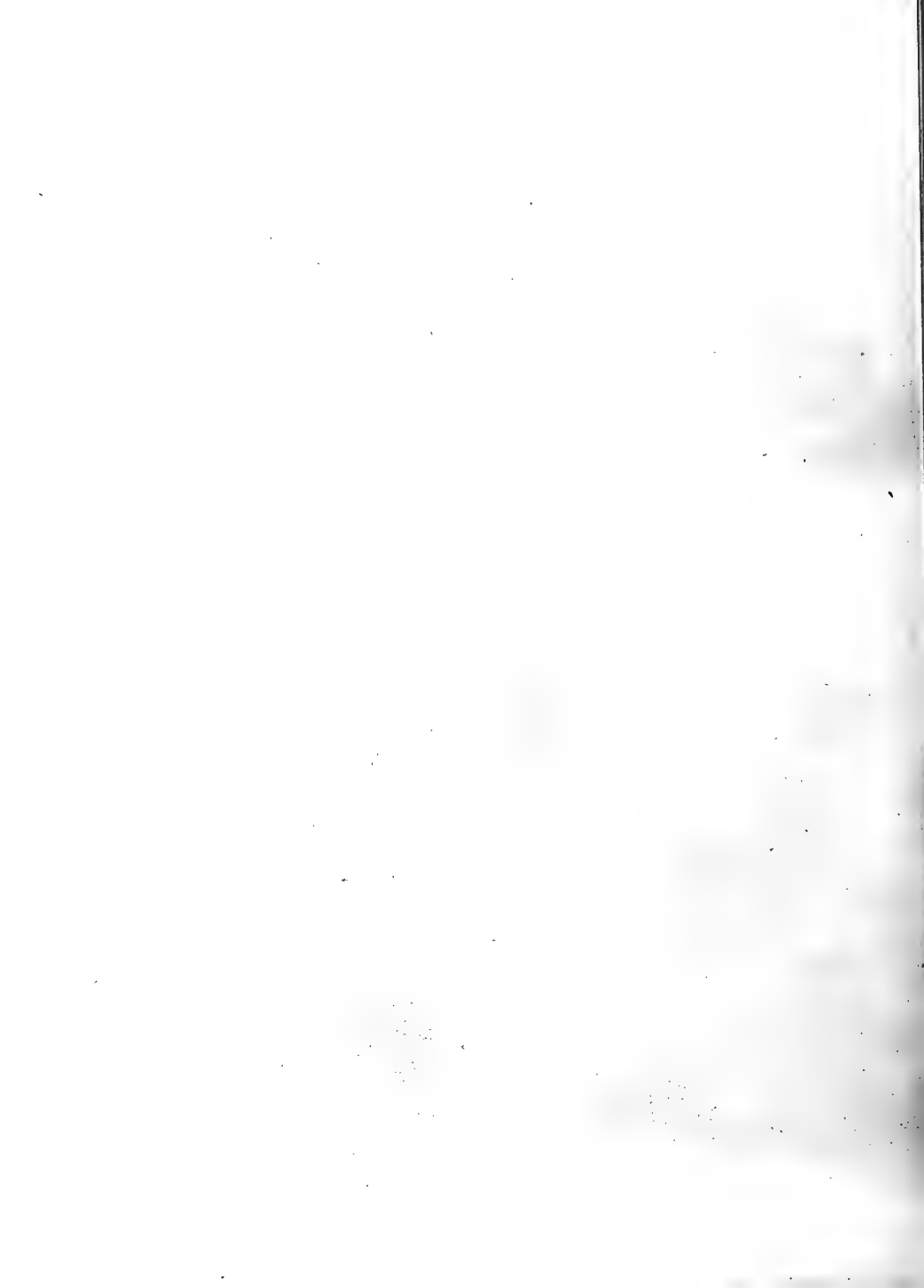




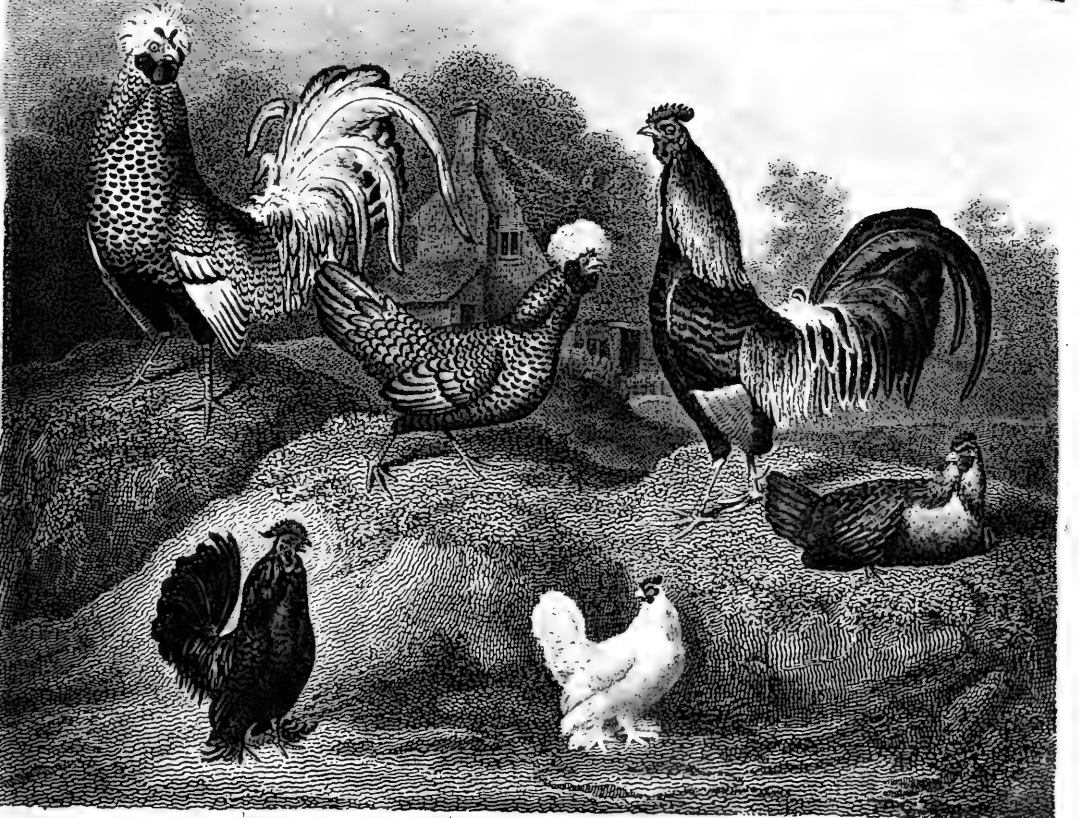
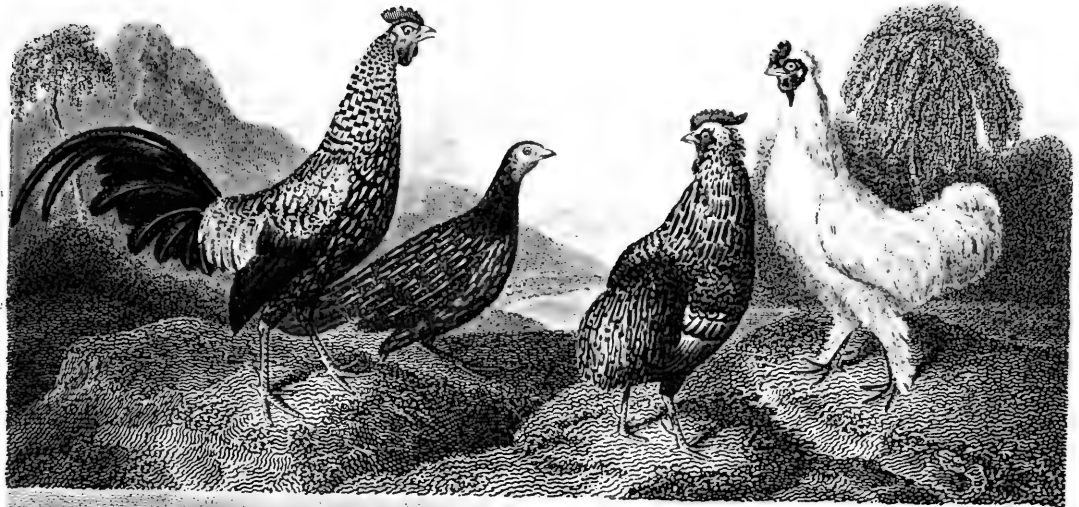
GENUS MELEAGRIS (Turkey)  
 1. *M. Gallipavo*.  
 AMERICAN WILD TURKEY.

G. PENELOPE (Guan)  
 2. *P. Cristata*.  
 GUAN.

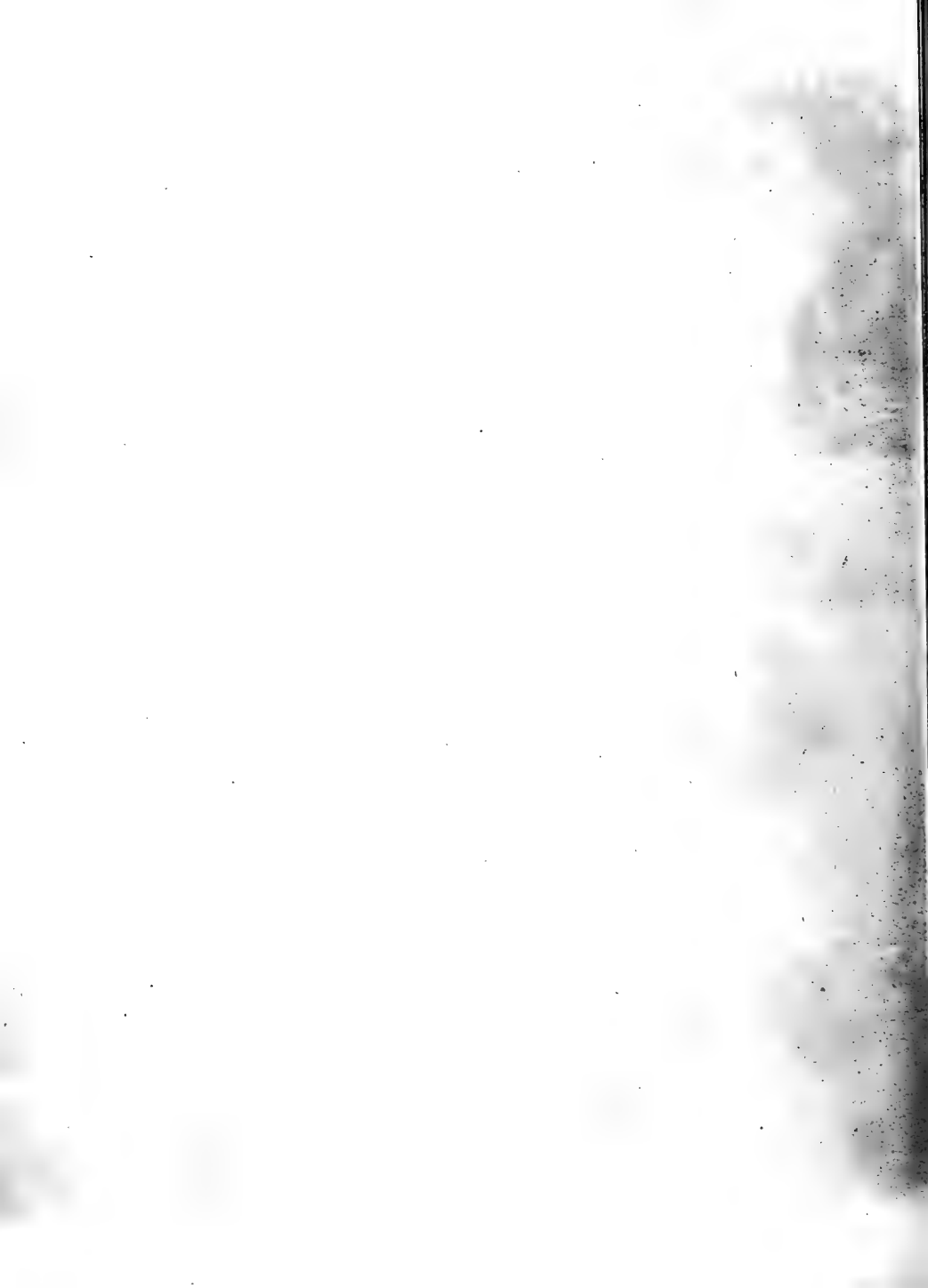
G. CURIX (Curassow)  
 3. *C. Allector*. 5. *C. Ruaxi*.  
 CURASSOW. Male. 4. Female. CURSHEW.







1 Wild Cock 2 Rumpless Cock 3 Hoadbush Cock 4 Game Cock 5 Cantan Cock  
 6 Hen 7 Buff Cock 8 Hen 9 Hen 10 Hen 11 Hen



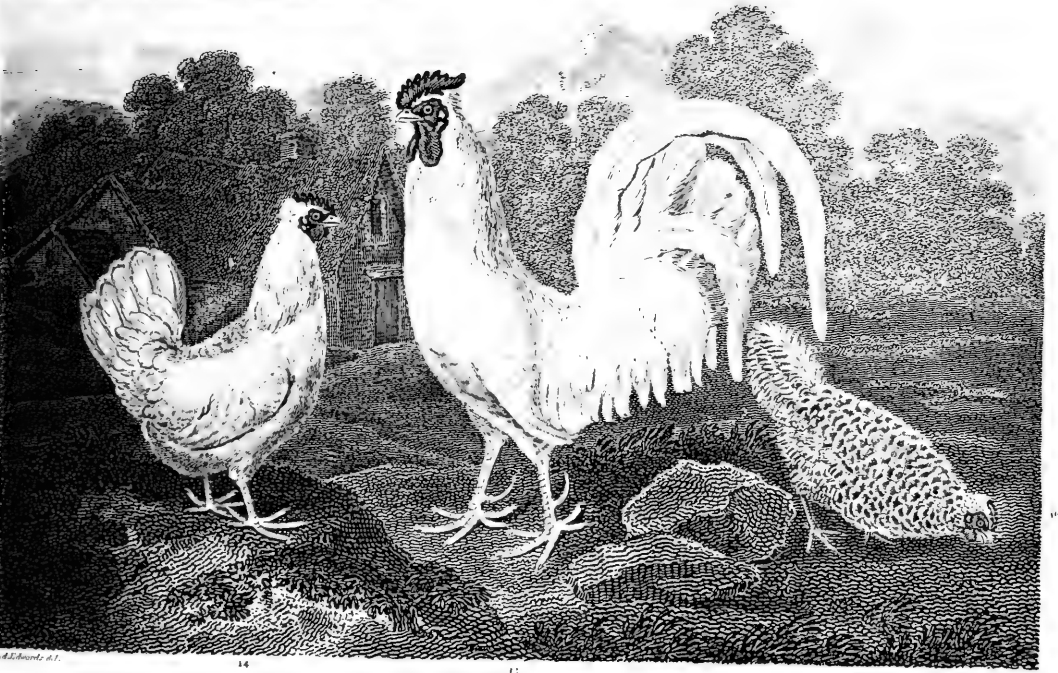
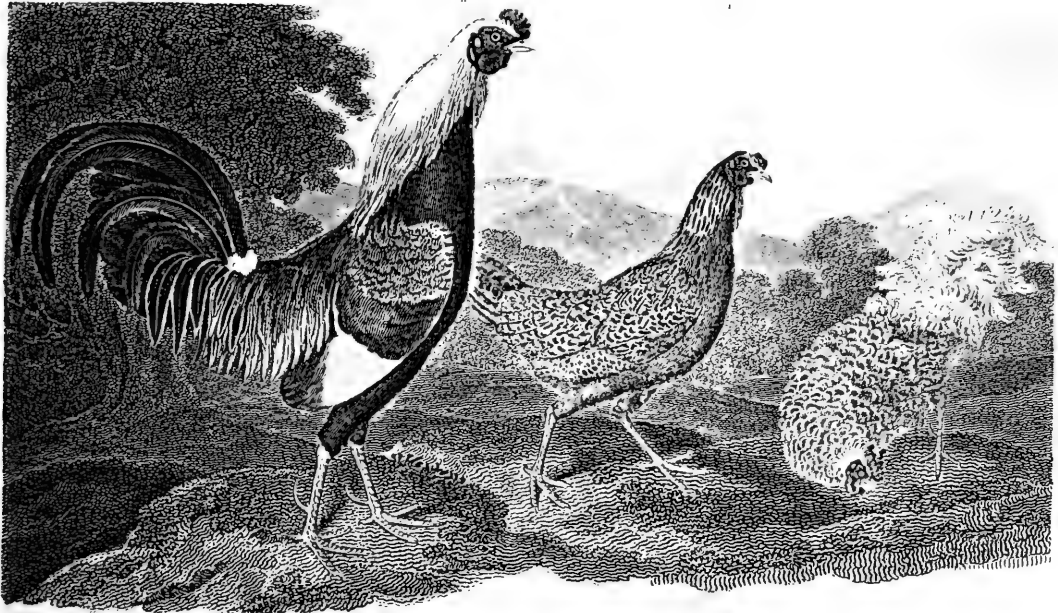
ORNITHOLOGY

Div 2<sup>d</sup> Land Birds Order GALLINÆ.

GENUS PHASIANUS.

PLATE VI.

Linn Syst.

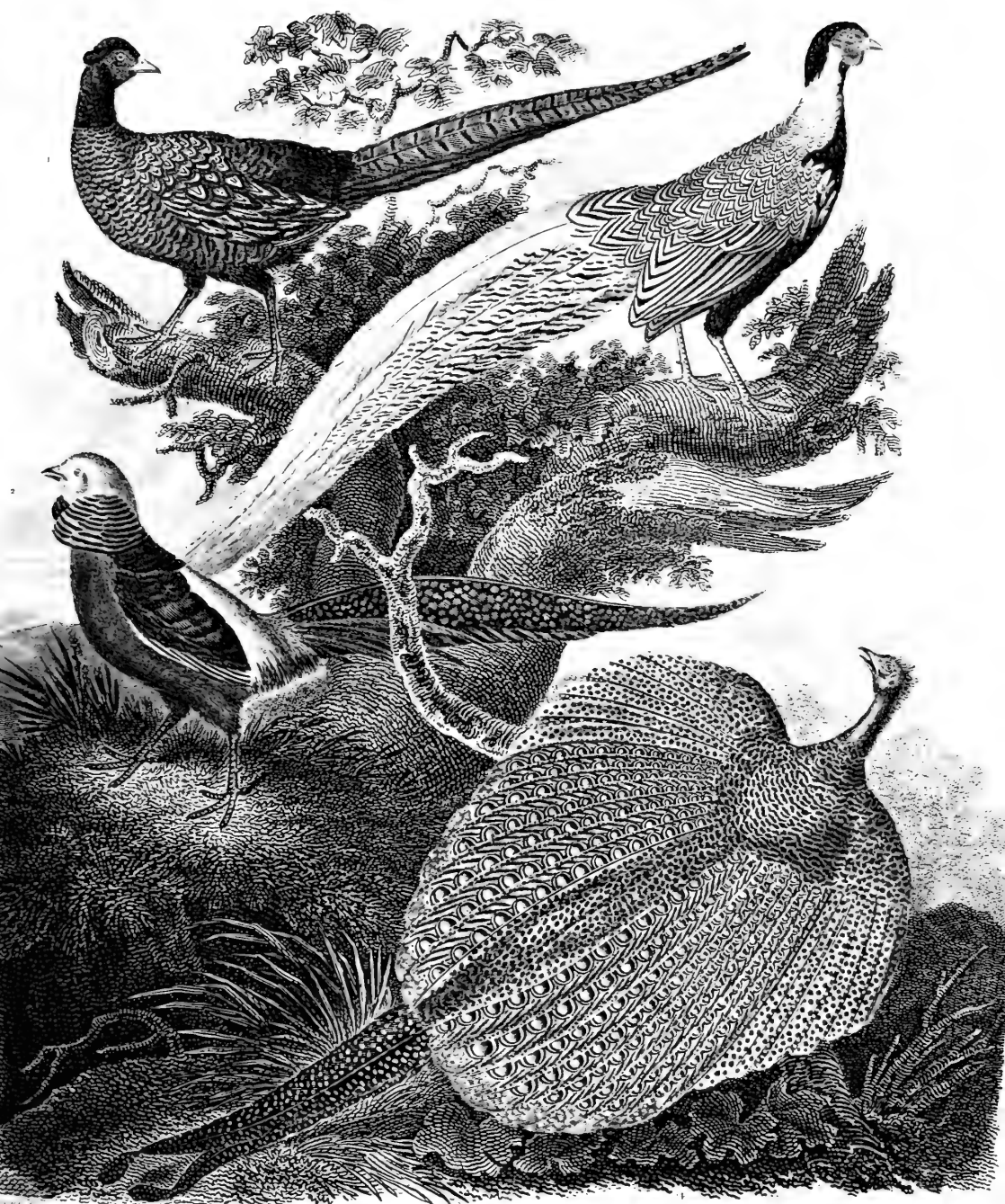


P. Gallus. 11. Malay Cock. 12. Hen. 13. Dorking Cock. 14. Frizzled Cock. 15. Hen. 16. Hen } Linn Syst.

Published at the Art Director's Office by Longman Street No. 6. Printed by J. G. & Co. in London.



U. *Uraucetes* GODEF. GALLIA

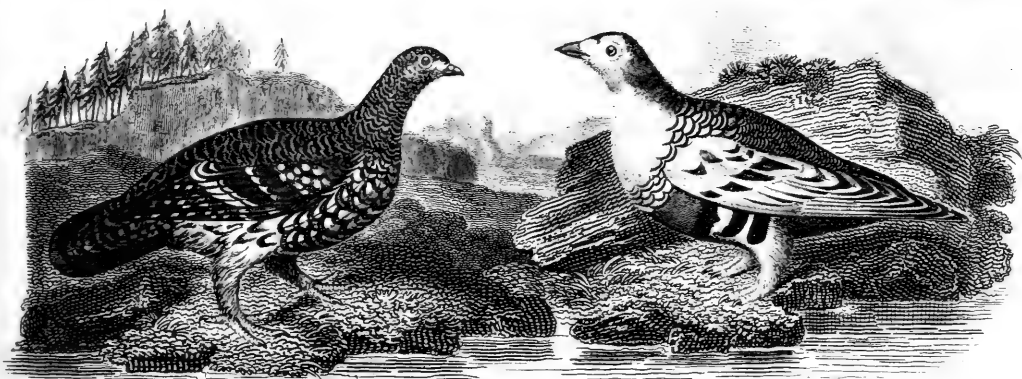
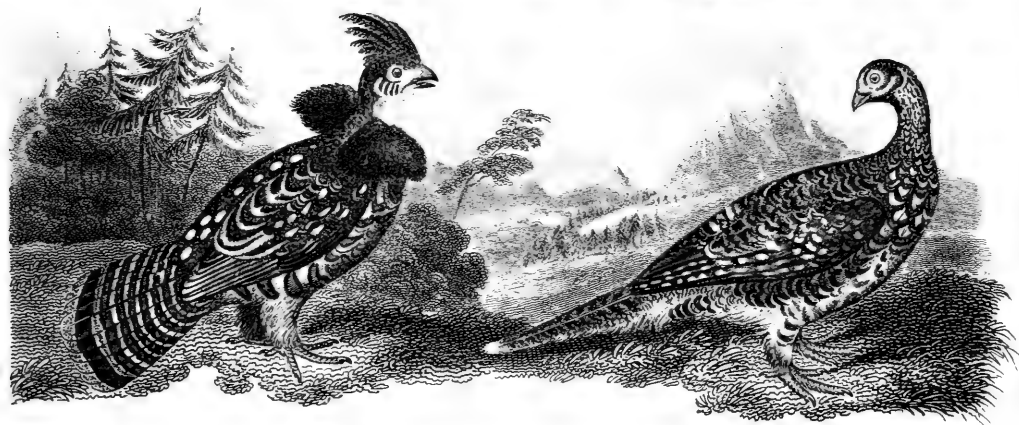


GENUS PHASIANUS Phasian

P. Colchicus    P. Pectoratus    P. Sybriacus    P. Lanius  
 COMMON    GOLD PHEASANT    SYBRIAN    CHINESE



Two of Land Birds - Order GALLINA.



J. Edwards del.

GENUS NUMIDIA G. TETRAO

(Quinto)

Grouse

1. N. M. Leucis  
GROUSE OF MONTADO

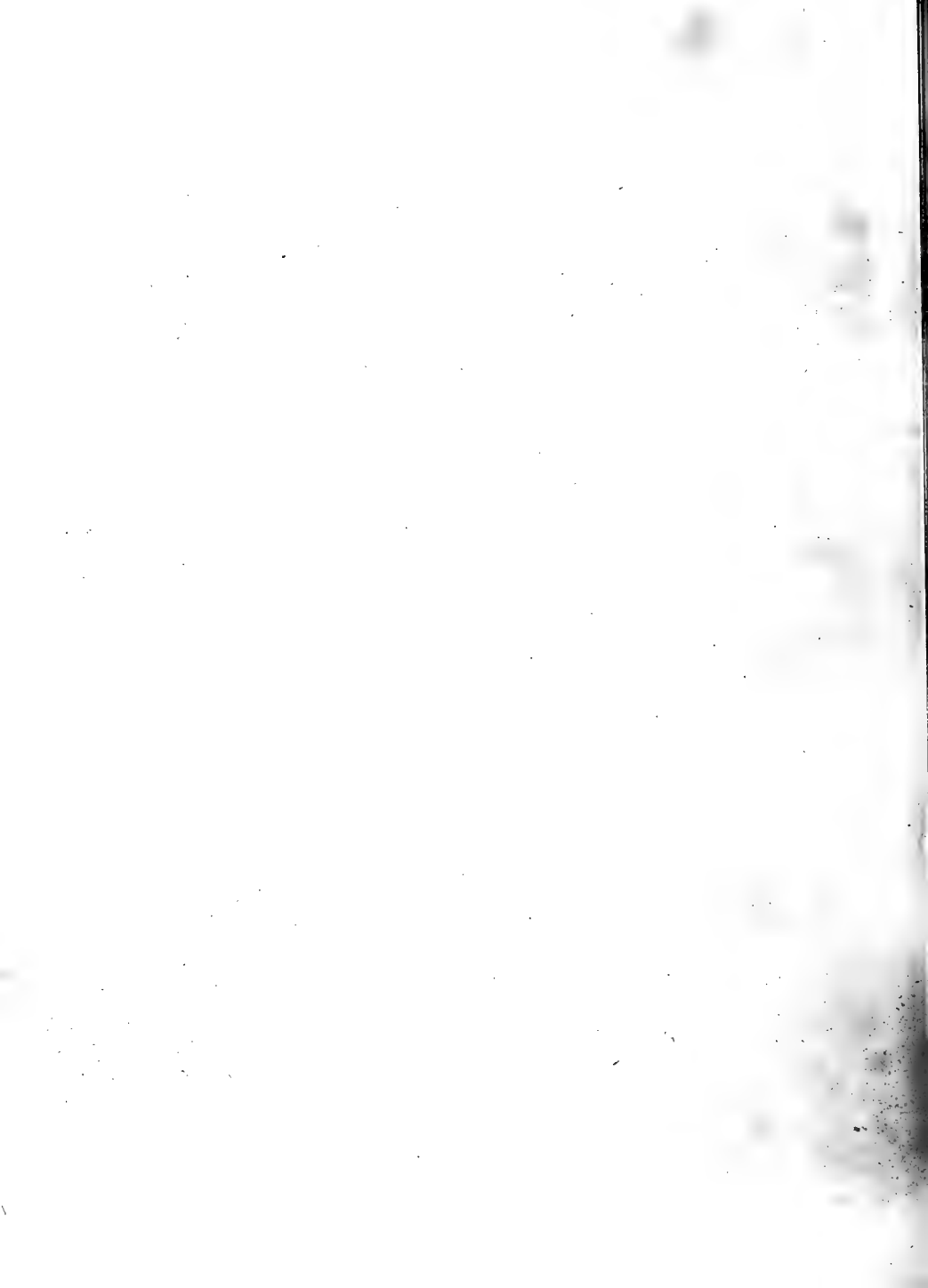
2. N. cristata  
CRISTED P.

3. T. Thibellina  
BIRD OF RUPE NICKED GROUSE

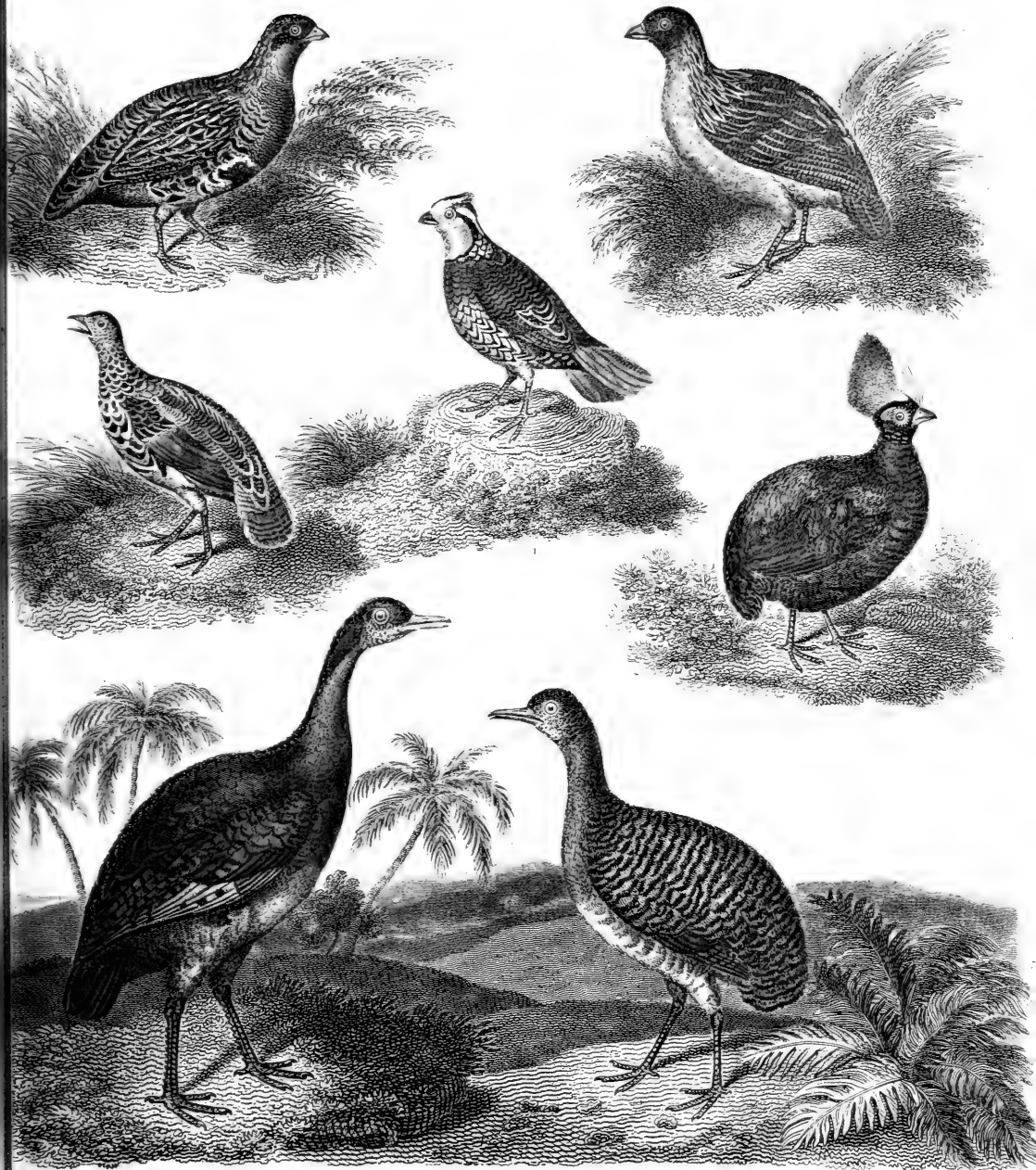
4. T. C. C. C. C.  
PIN TAILED G.

5. T. C. C. C. C.  
SPOTTED G.

6. T. C. C. C. C.  
HETEROCITOUS







J. Edwards del.

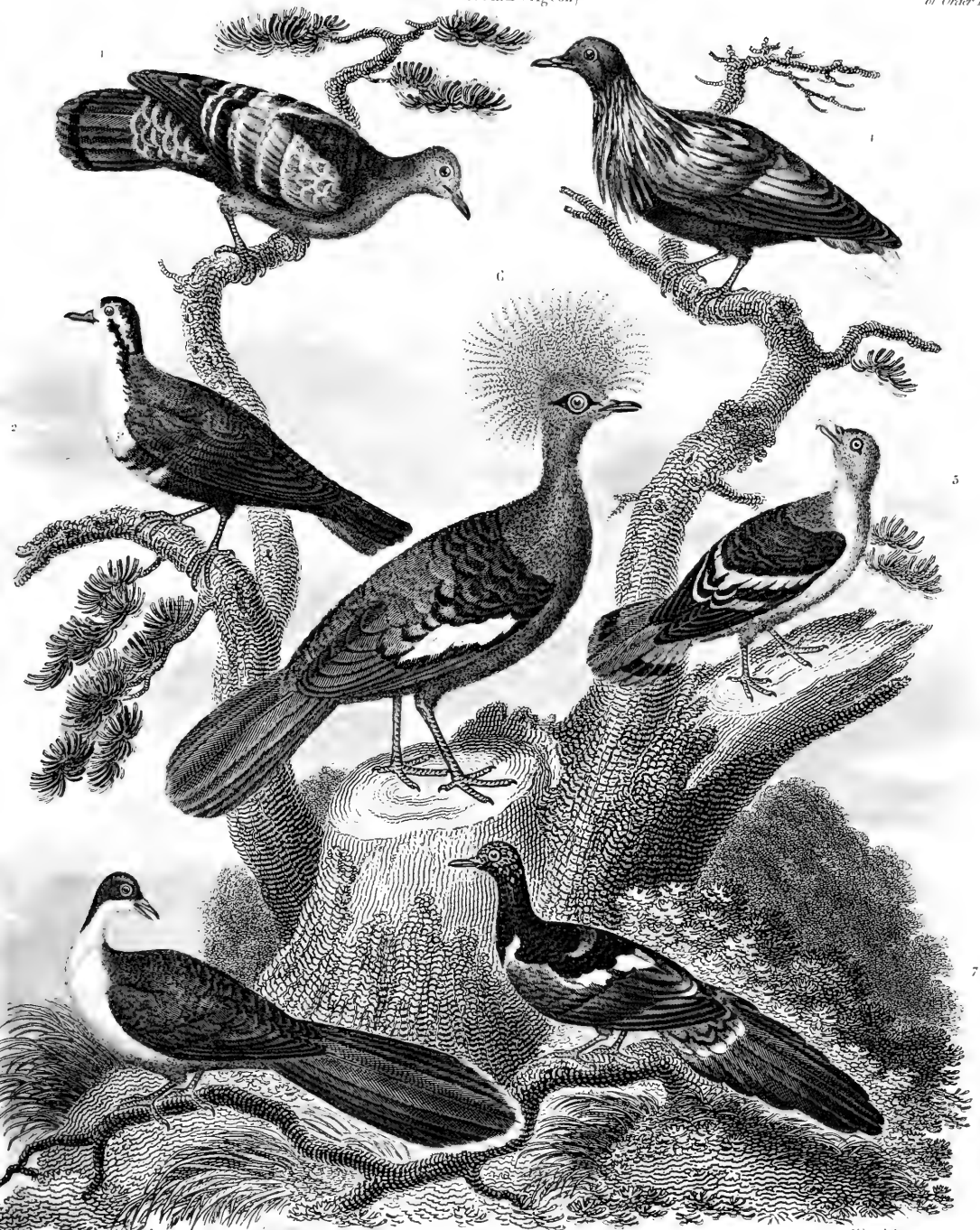
GENUS TETRAO

Group

- |                       |                          |                         |                         |                         |                       |                       |
|-----------------------|--------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-----------------------|
| 1. <i>T. Pectoris</i> | 2. <i>T. Virginianus</i> | 3. <i>T. Gileolaris</i> | 4. <i>T. Marylandus</i> | 5. <i>T. Vexillaris</i> | 6. <i>T. Montanus</i> | 7. <i>T. Variatus</i> |
| COMMON QUAIL          | 11 CALLED P.             | 9 BELL'S QUAIL          | MARYLAND Q.             | GREEN O. QUAIL          | GREATER QUAIL         | VARIATED Q.           |

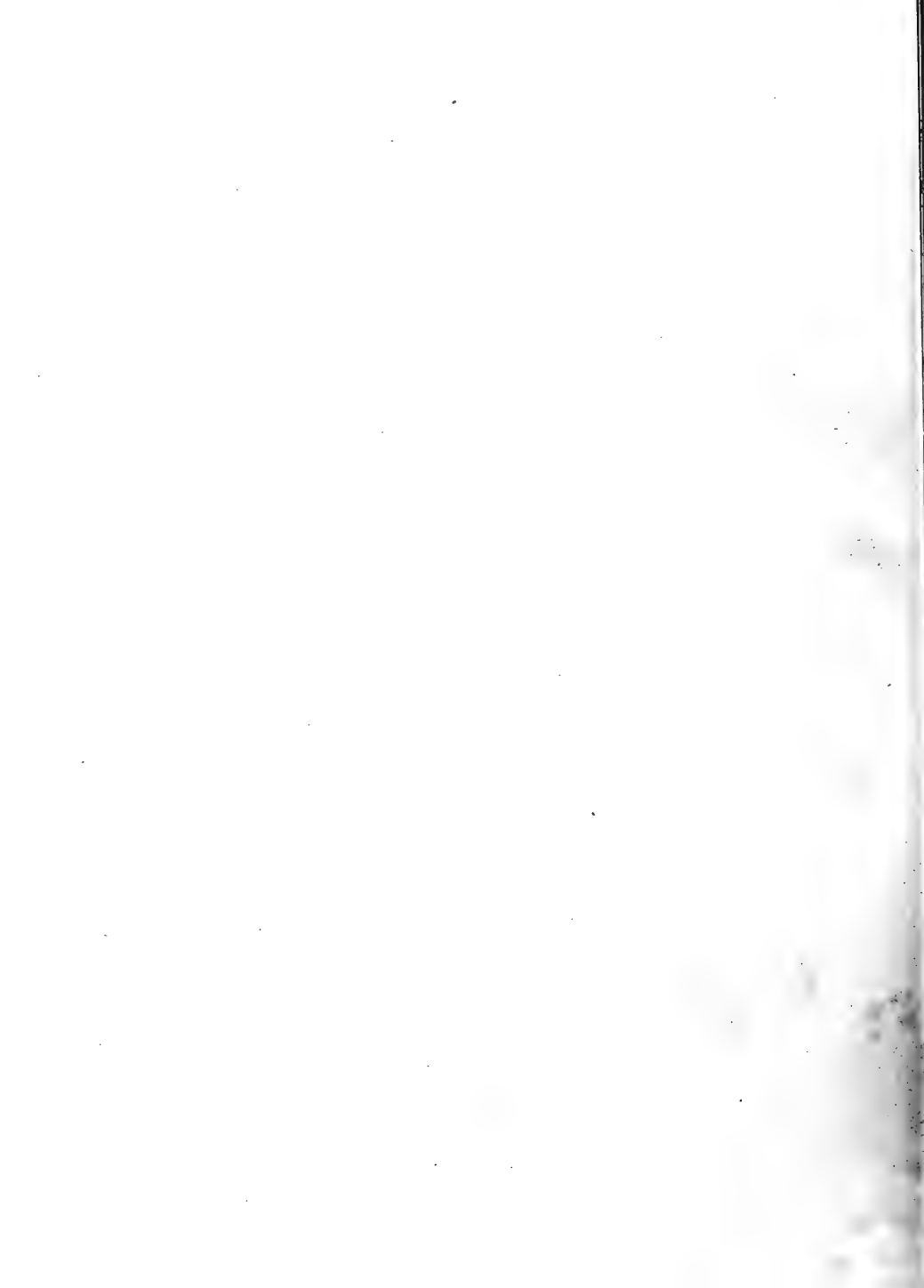


ORNITHOLOGY.  
Div<sup>n</sup> of Land Birds — Order PASSERES.  
GENUS COLUMBA (Pigeon)



1. *C. Chalcoptra*. BRONZE WINGED P.    2. *C. Cerythroptera*. GARNET WINGED P.    3. *C. Macroura*. GREAT TILED P.    4. *C. Nicobarica*. NICOBAR P.    5. *C. Curvirostra*. HOOK BILLED P.    6. *C. Capensis*. CAPE TURTLE.    7. *C. Coronata*. GREAT CROWNED P.

Published as the Act directs June 1. 1828 by Longman Street No. 40 in the Strand London



Order PASSERES



GENUS JLAUDA

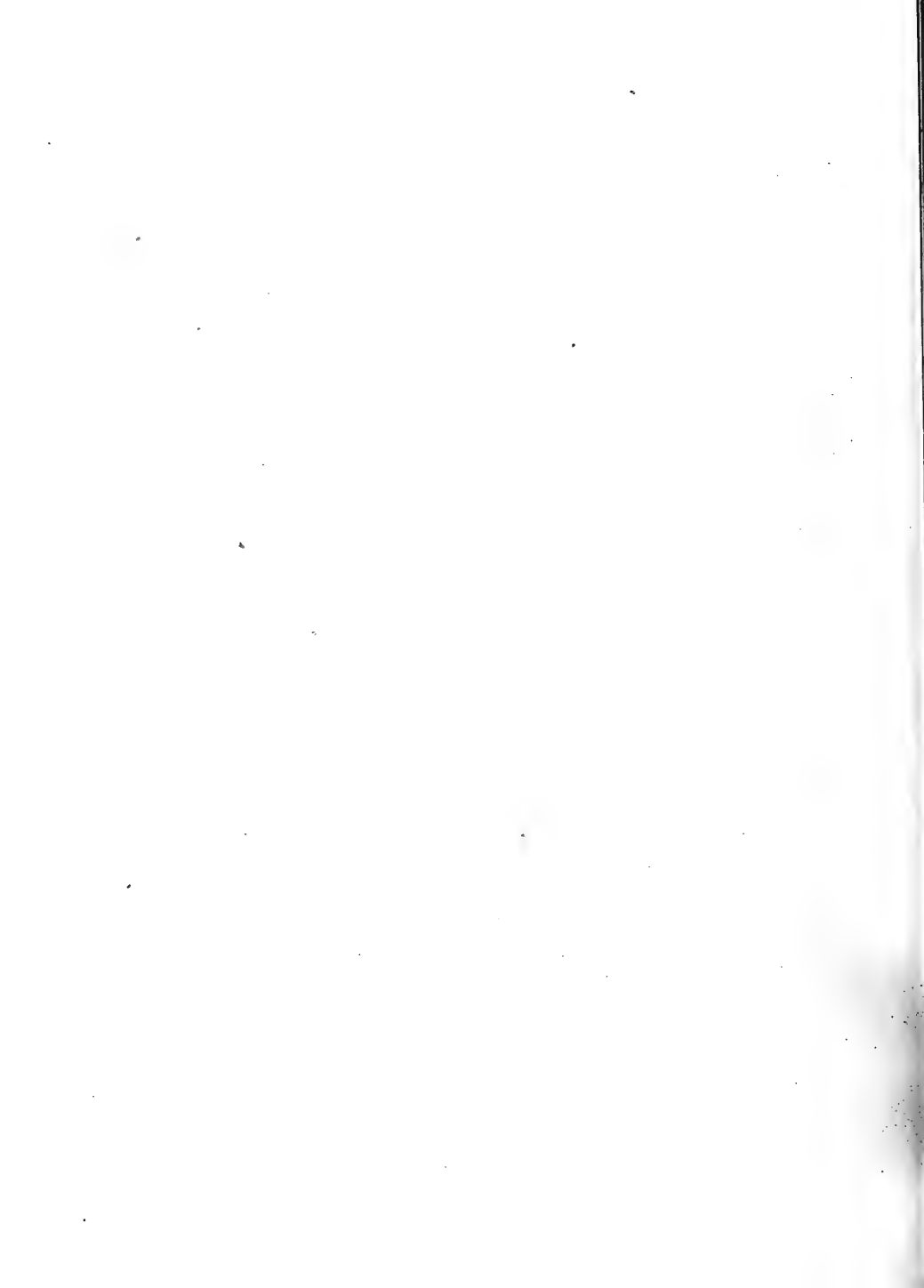
- Lark
- 1. *A. Capensis*
- C. I. L.

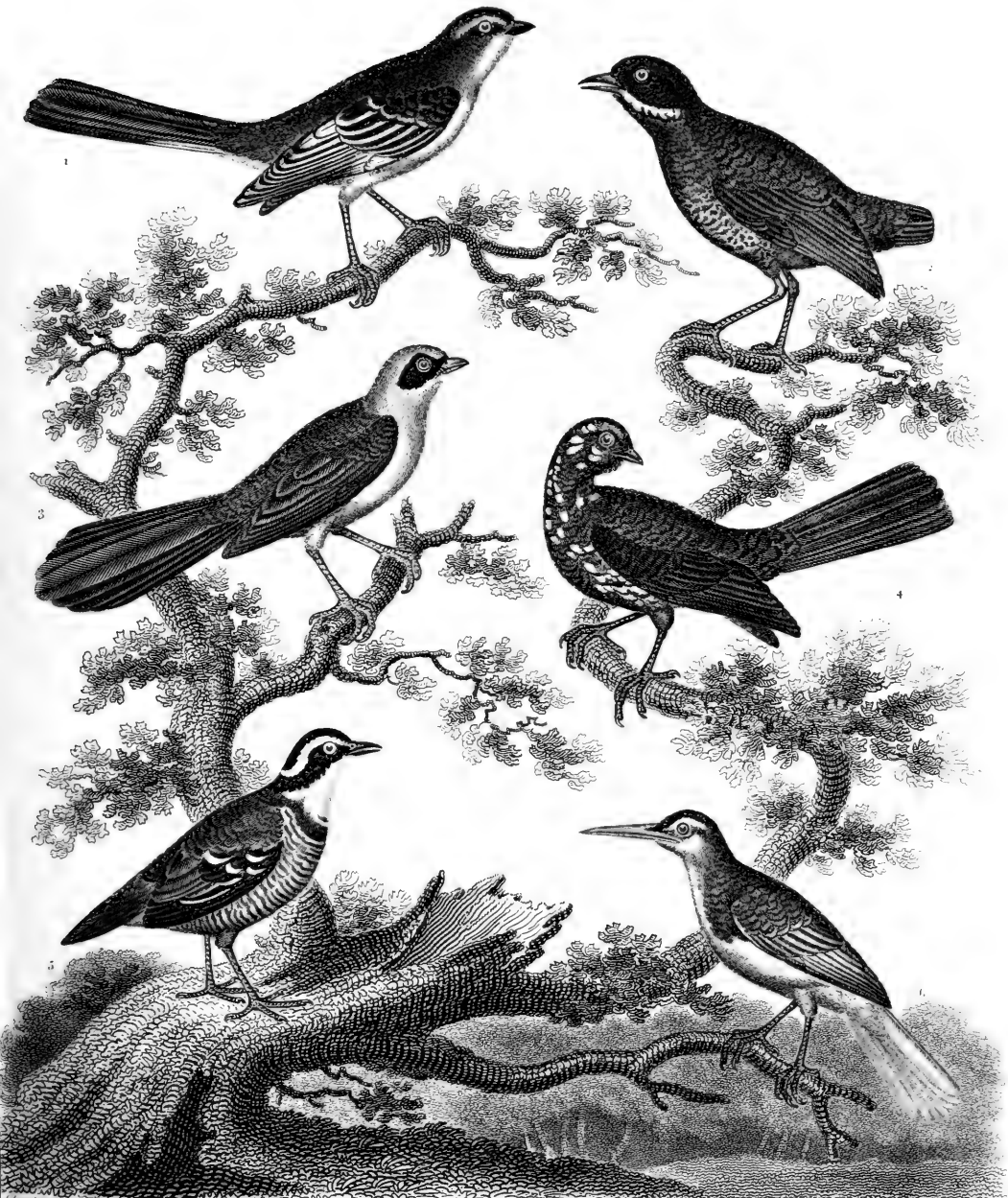
G. STURNTS

- Starling
- 2. *S. Militaris*
- 3. *S. Cervinulatus*
- WATTLED S.

G. CAPRIMULGUS

- Goatsucker
- 4. *C. Gindia*
- 5. *C. Longipennis*
- GRAND G.
- LEON G.



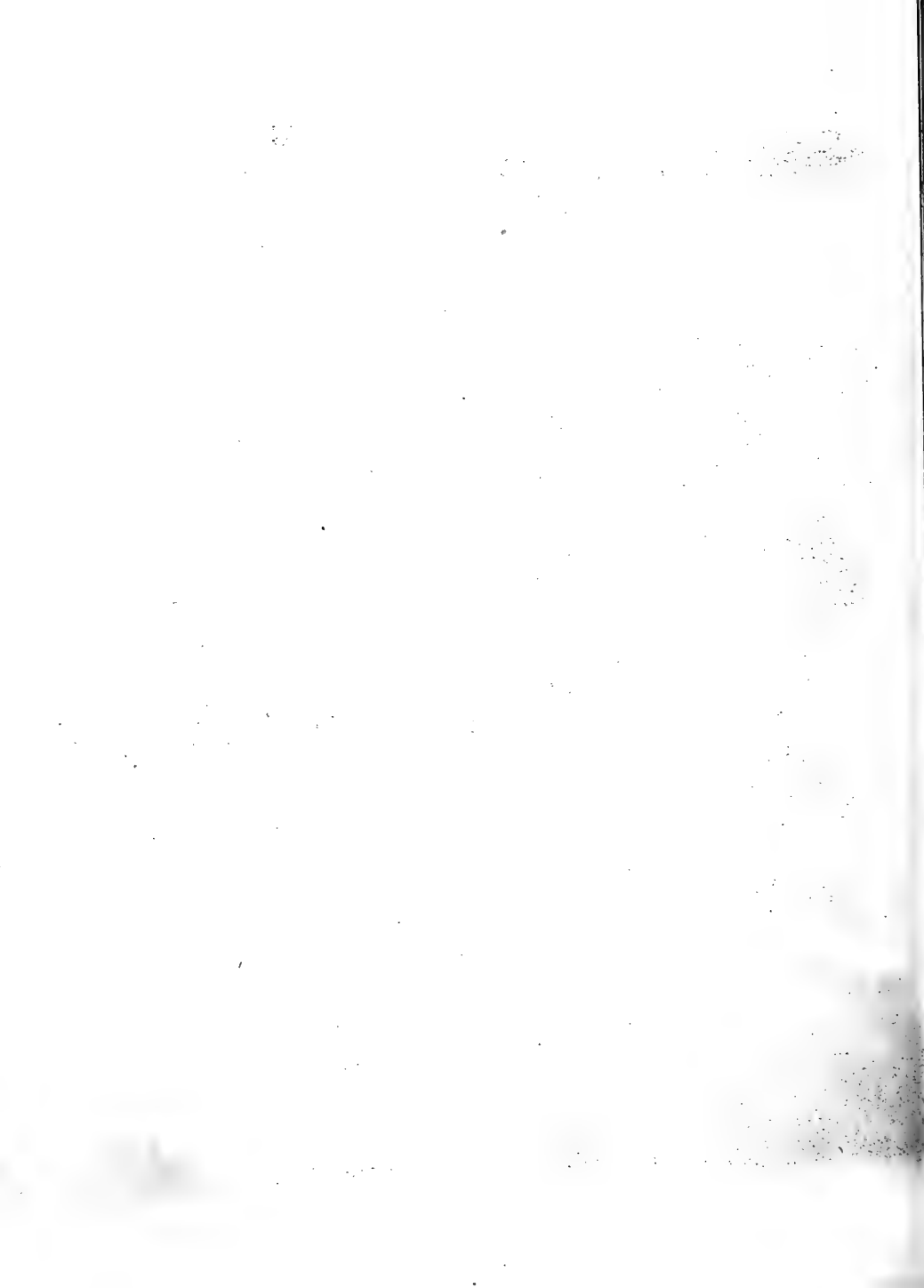


GENUS *TERDUS*  
Thrush

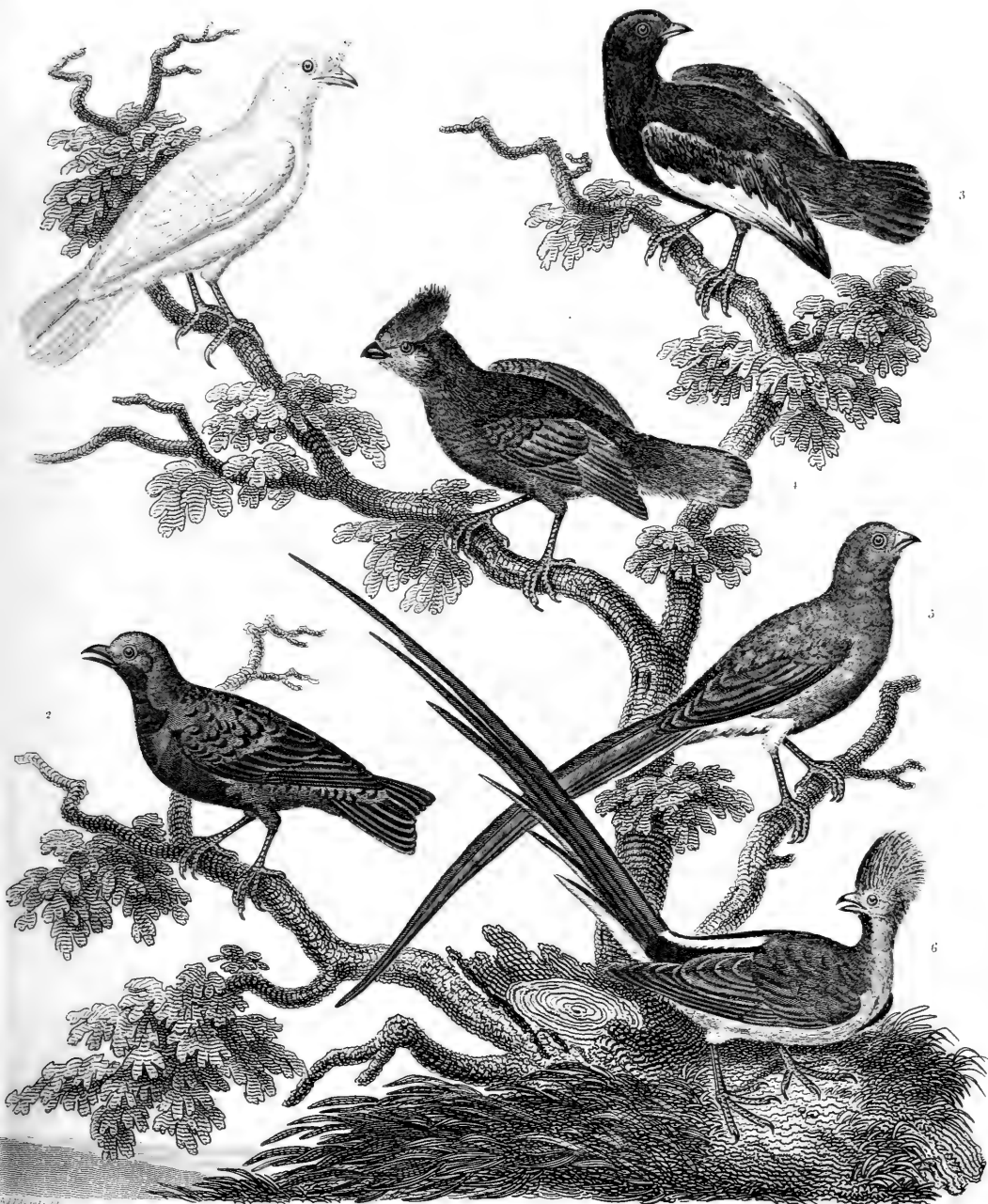
- |                   |                 |                        |                          |                  |                      |
|-------------------|-----------------|------------------------|--------------------------|------------------|----------------------|
| <i>Geothlypis</i> | <i>Sw. Thr.</i> | <i>T. parvirostris</i> | <i>T. sordidirostris</i> | <i>T. cyanus</i> | <i>T. virginicus</i> |
| WOODPECKER.       | KINARD.         | SOURWOODER.            | THICK BILLED.            | BULLY WOODER.    | LONG BILLED.         |

Lehmann del.

Johns sculp.







GENUS AMPELIS

Chatterer.

1. *A. carunculata*  
 CAROL CLAYTON C.

2. *A. ditropa*  
 PURPLE BREASTED C.

3. *A. pompadour*  
 POMPADOUR C.

4. *A. garnieri*  
 RED C.

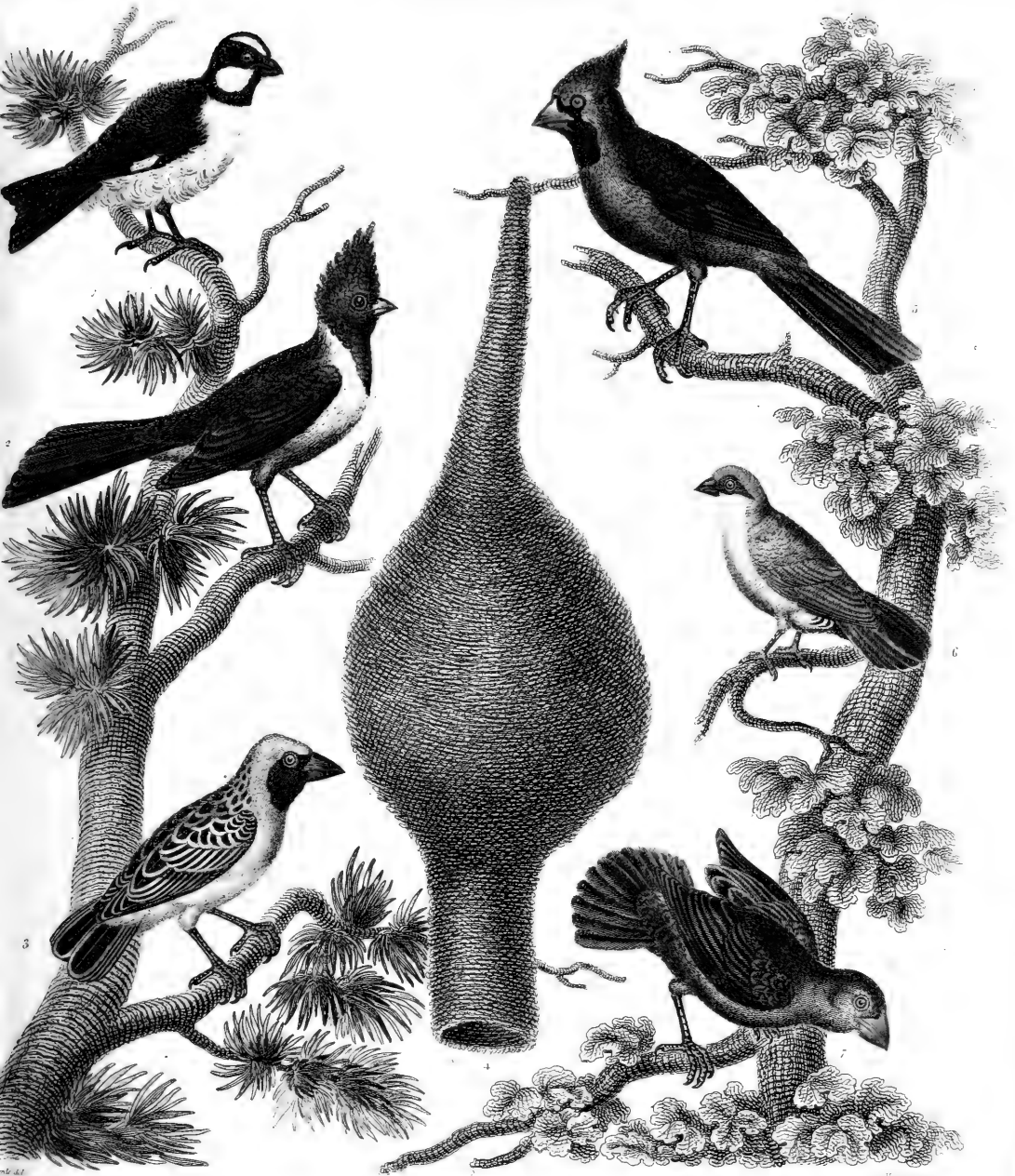
5. *A. capensis*  
 CAPE C.

G. COLIUS  
 (Coly)

6. *C. erythrops*  
 WHITE-BACKED C.

Engraved from the original drawings by the artist, and published by the American Ornithological Union.





GENUS LOXLI  
 (Grosbeak)

- |                    |                      |                      |                                 |                      |                   |                        |
|--------------------|----------------------|----------------------|---------------------------------|----------------------|-------------------|------------------------|
| 1. <i>Lincolni</i> | 2. <i>lineolata</i>  | 3. <i>Philippina</i> | 4. Nest of <i>Philippina</i> G. | 5. <i>Cardinalis</i> | 6. <i>Atrifid</i> | 7. <i>Flabellifera</i> |
| LINEATED G.        | CRESTED DOMINICAN G. | PHILIPPINE G.        |                                 | CARDINAL G.          | WAXEN BILLED G.   | FAN TAIL G.            |

Published as the 4th of the 1st Series, by Longman, Ward, & Co. 15, Ave. Marie, Westminster, E.C.



"Div." of Land Birds - Order 6 PASSERES.



GENUS EMBERIZI

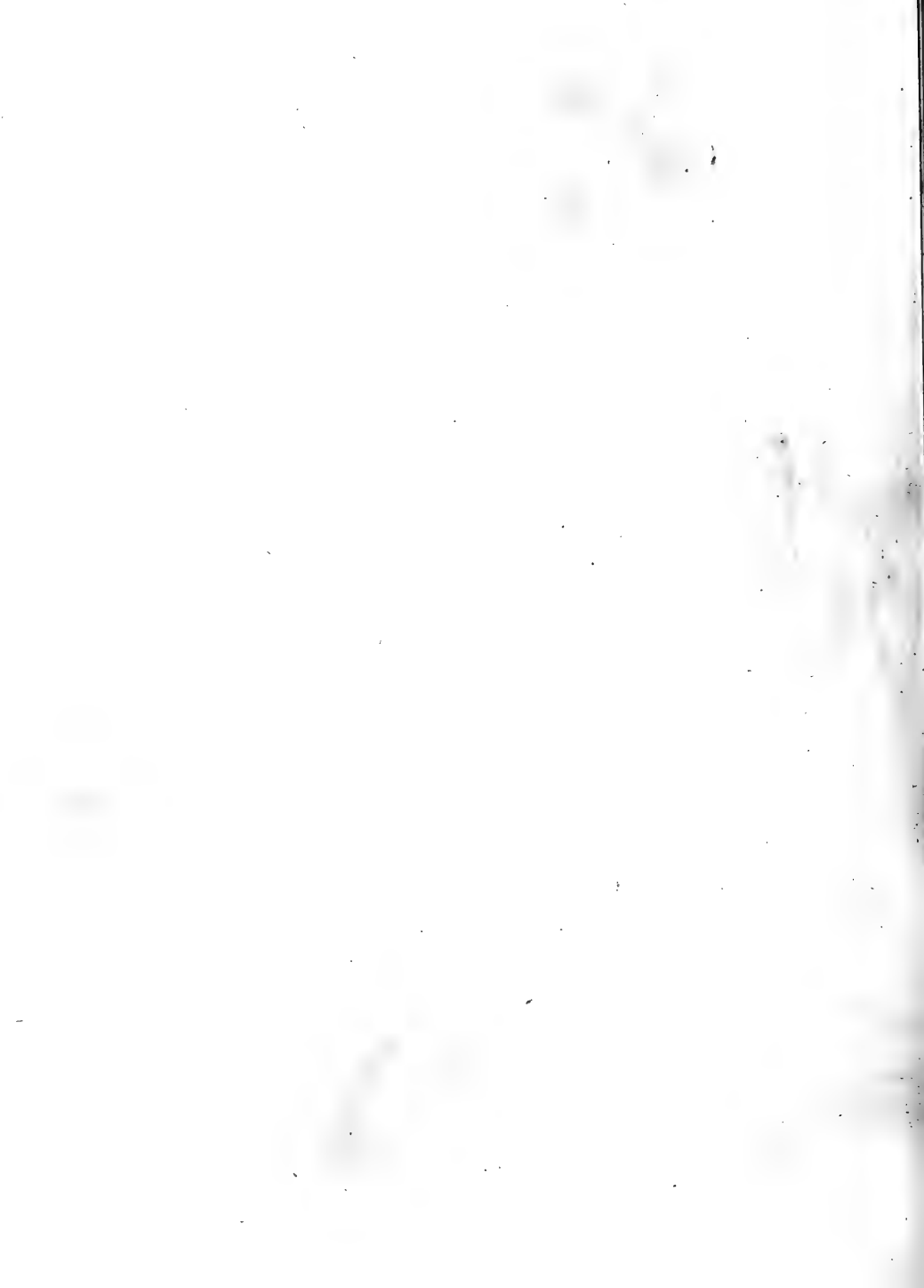
Bunting

- |                                      |                                   |   |   |   |                                      |
|--------------------------------------|-----------------------------------|---|---|---|--------------------------------------|
| 1. <i>E. Paradoxia</i><br>WHITISH B. | 2. <i>E. Cirlis</i><br>PAINTED B. | 3. <i>E. Rostris</i><br>SHARP-TAILED B. | 4. <i>E. provincialis</i><br>MUSTACHOE B. | 5. <i>E. Americana</i><br>BLACK THROATED B. | 6. <i>E. Hortulana</i><br>ORTOLAN B. |
|--------------------------------------|-----------------------------------|---|---|---|--------------------------------------|

Published at the Art directors Jan 18 64 by Longman Huest Ross Orme & Brown Paternoster Row.

W. Woodcut del.

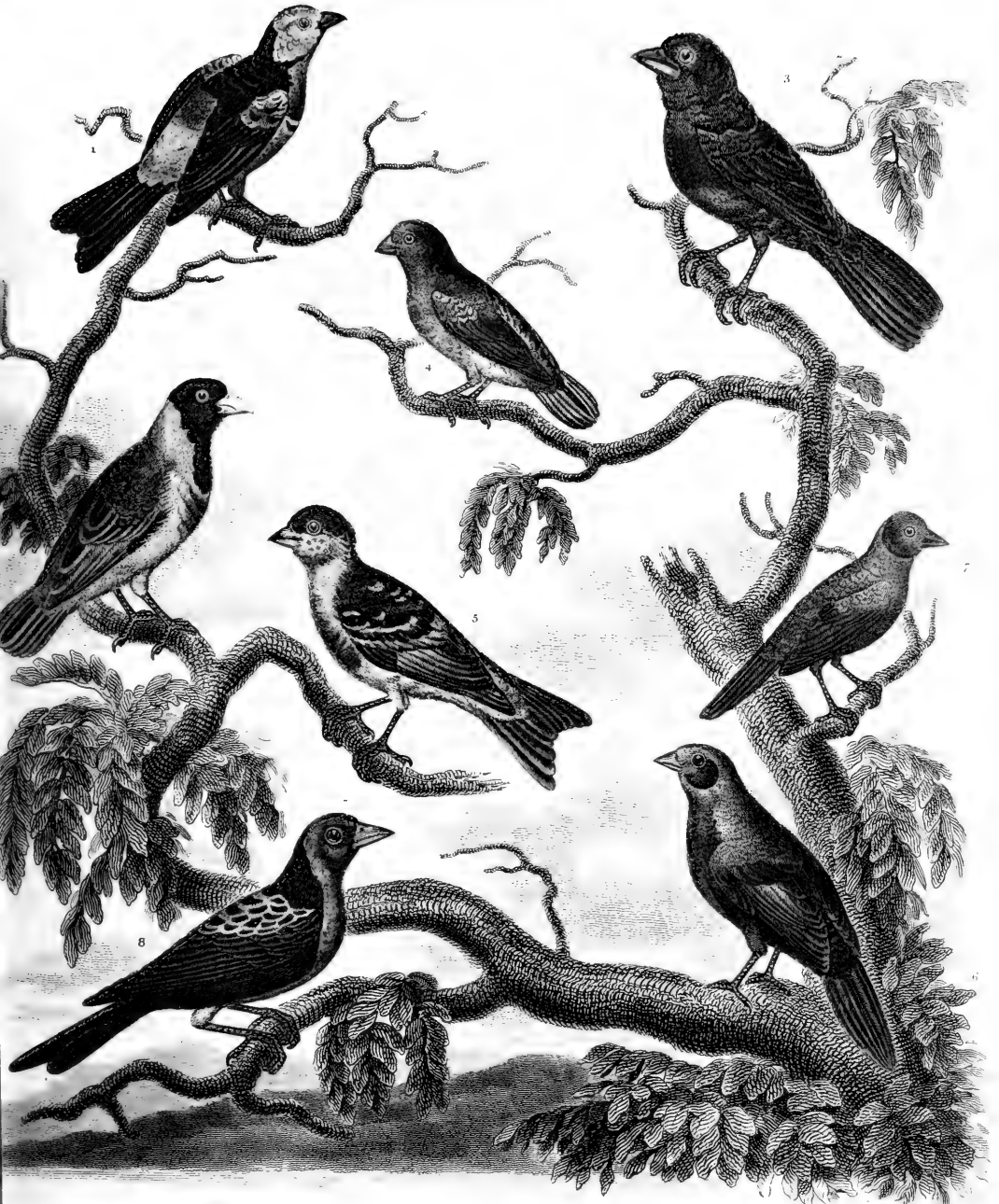
Wilson sculp.



ORNITHOLOGY.

Div<sup>o</sup> 1<sup>o</sup> Land Birds. Order 3<sup>d</sup> PASSERES.

PLATE A.



**G. TANAGRA.**  
(Tanager)

1. T. *Tatao*. 2. T. *Capitalis*. 3. T. *Jacupa*.

PARADISE T. CAPITAL T. RED BREASTED

4. *Janita*.

FIRE FINCH. CRIMSON CROWNED.

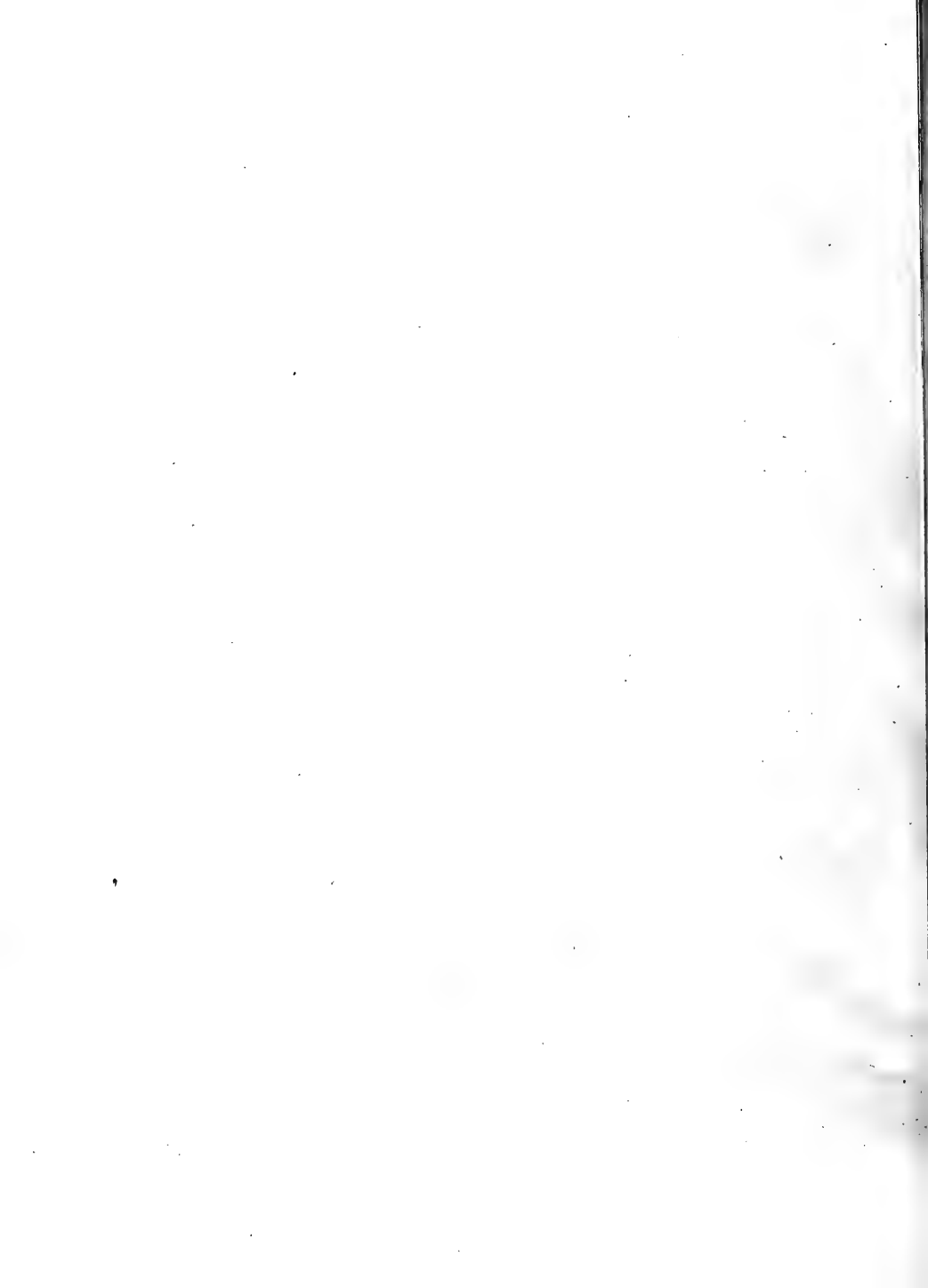
GENUS **TRINGILLA.**  
(Finch)

5. *Thammosi*. 6. *Boysalis*. 7. *Pittocosi*.

BLUE BELLIED F. PARROT.

8. *Phytotomi*

8. *P. Rara*  
CHILI PHYTOTOMI





Order PASSERES.



GENUS MUSCICAP

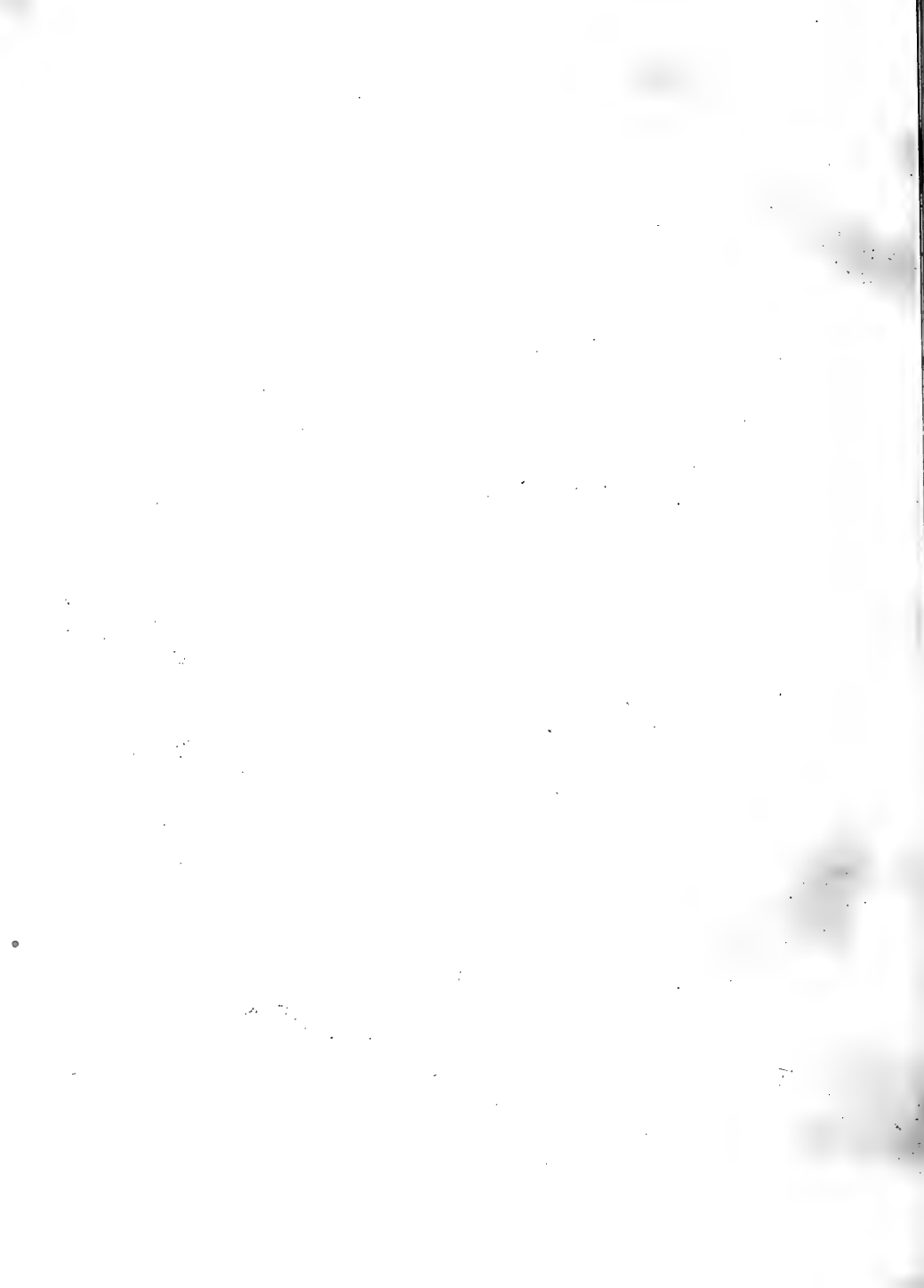
(Fly Catcher)

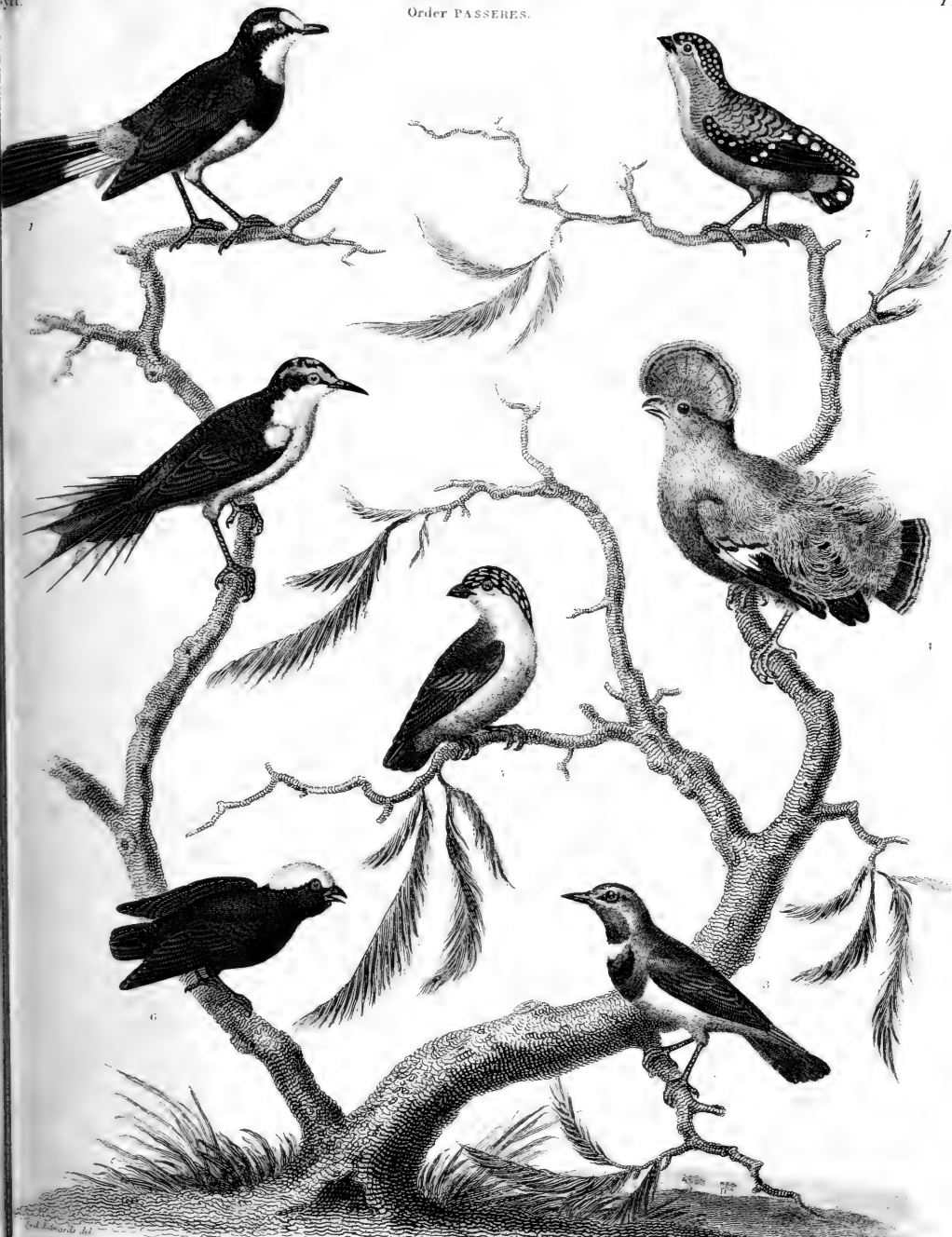
G. MOTACILLA

(Warbler)

- |                      |                      |                       |                       |                           |                       |                             |
|----------------------|----------------------|-----------------------|-----------------------|---------------------------|-----------------------|-----------------------------|
| 1. <i>M. bicolor</i> | 2. <i>M. barbata</i> | 3. <i>M. tyronius</i> | 4. <i>M. malayana</i> | 5. <i>M. flabellifera</i> | 6. <i>Mot. cyanus</i> | 7. <i>M. madraspatensis</i> |
| BLACK & WHITE F.C.   | WHISKERED F.C.       | FORKED-TAILED F.C.    | SOFT-TAILED F.C.      | FAN-TAILED F.C.           | SUPERB WHEAT EAR      | FIELD W/36-TAIL             |

Published as the Act directs Dec. 1. 1824. By Longman, Hurst, Rees, Orme & Brown, Paternoster Row.





G. MOTACILLA

Warbler

1 M. *pilosa*  
BLACK-HEADED W.

2 M. *spinuscula*  
THORN-TAILED W.

3 M. *fucicola*  
BLUET-THROATED W.

4 P. *rupicola*  
ROCK W.

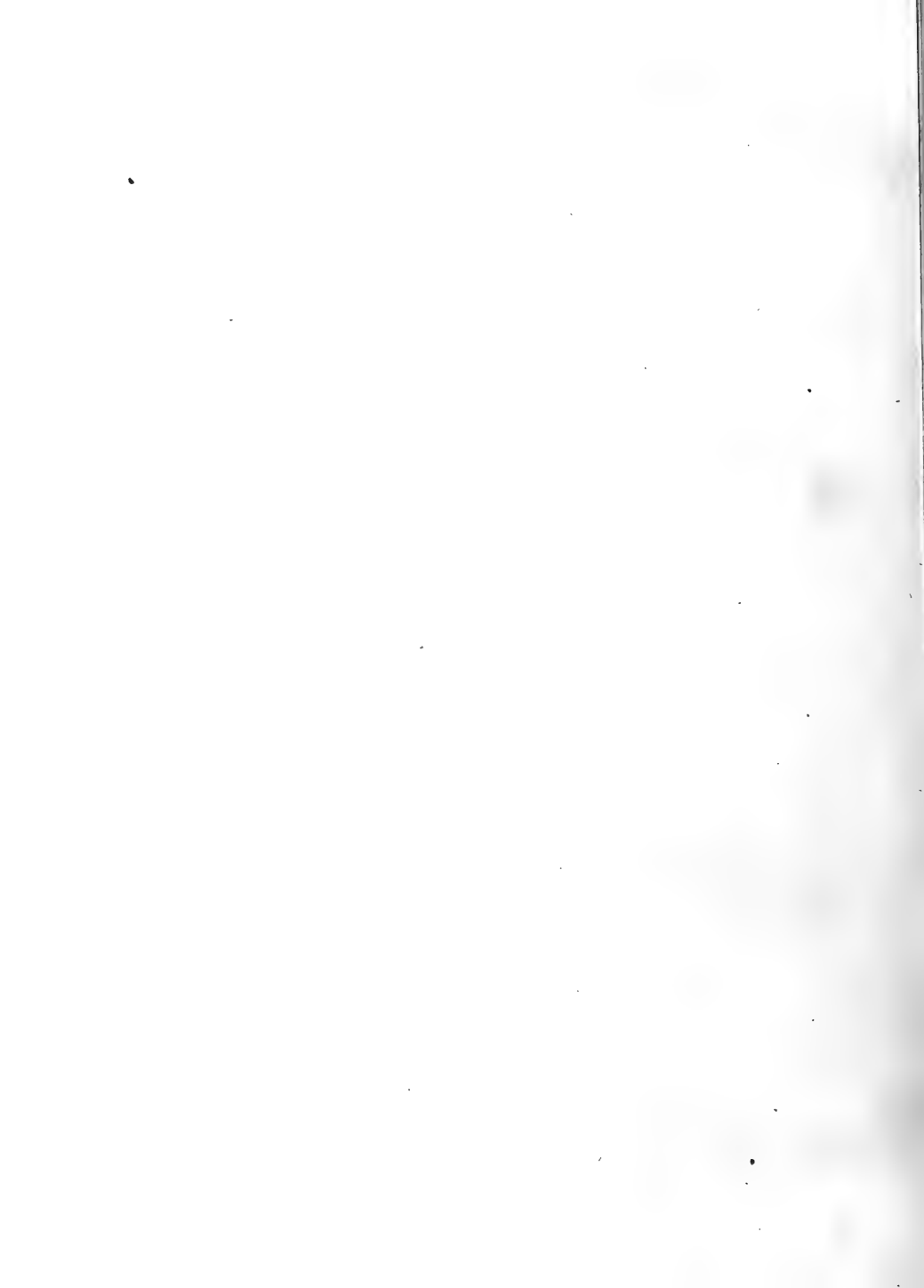
GENUS PIPRA

Manakin

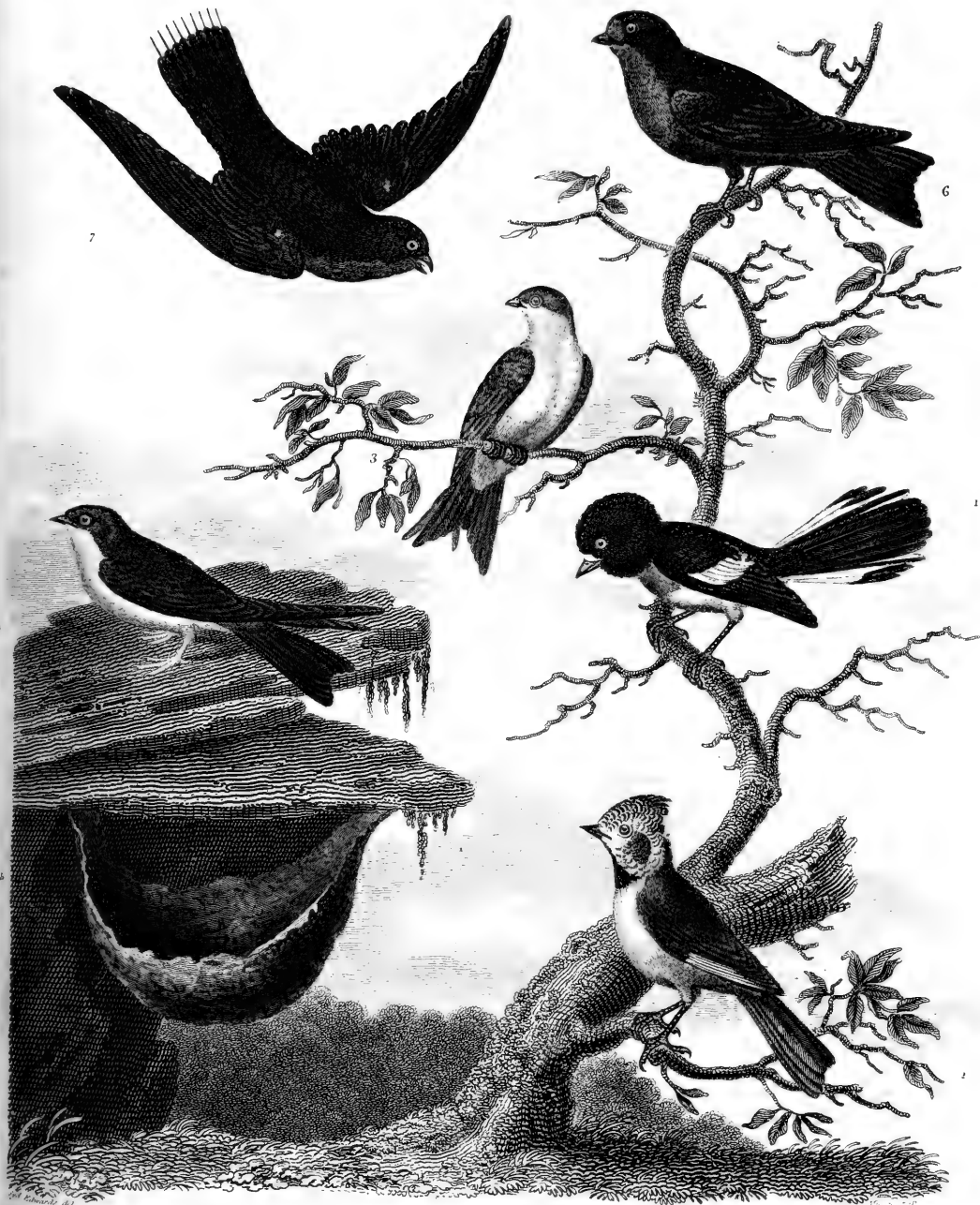
5 P. *striata*  
STRIPED HEADED M.

6 E. *leucoccephala*  
WHITE-CAPPED M.

7 P. *parvifrons*  
SPARKLING M.



Order PASSERES.



GENUS *PARS*

Titmouse

1. *P. Macrocephalus*  
G. HEADED T.

2. *P. cristatus*  
CRUSTED T.

3. *H. Indica*  
G. HEADED S.

4. *H. orientalis*  
ESPELLAY S.

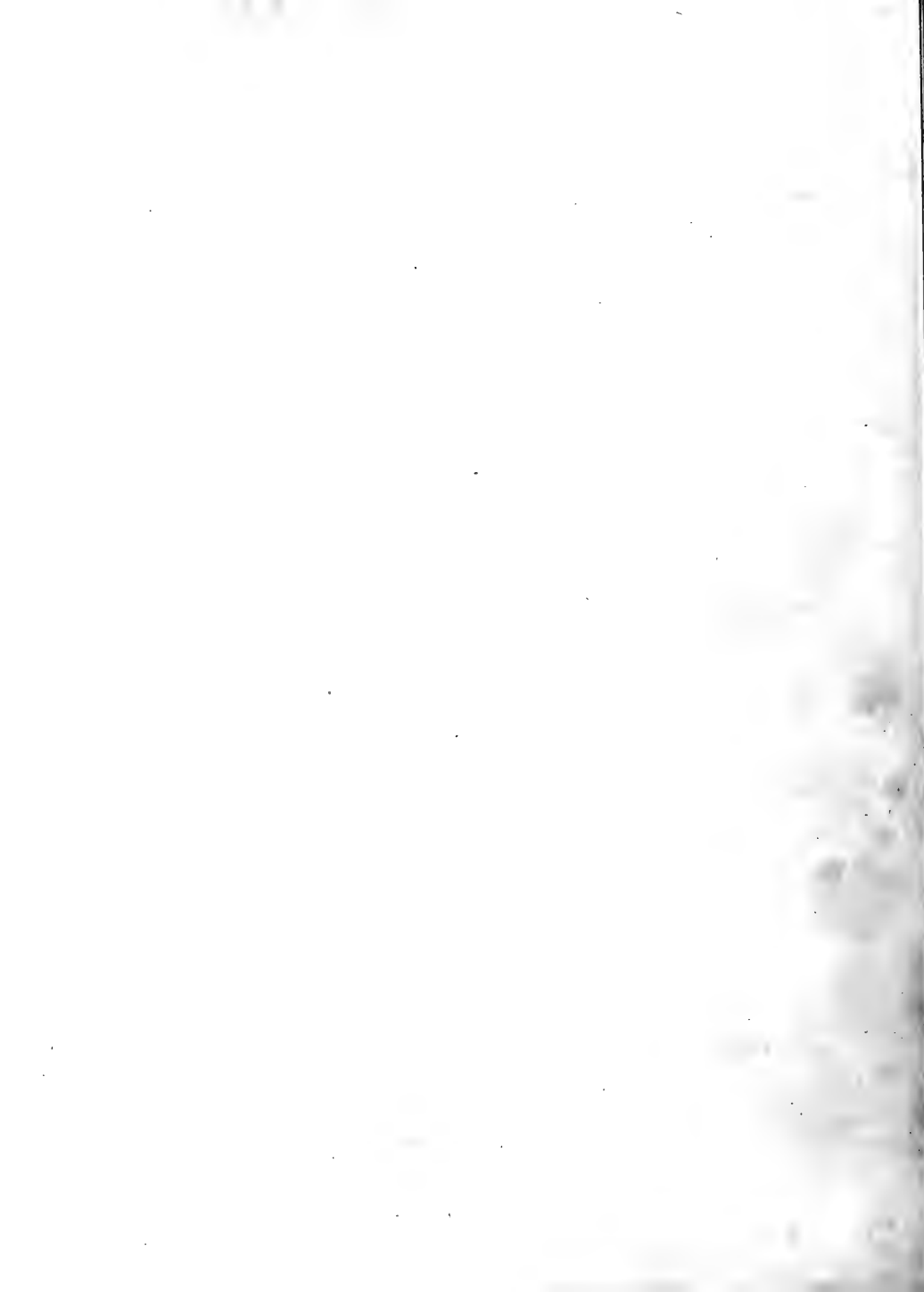
5 NEST

6. *H. Tahitiensis*  
OTAHITIENS

7. *H. P. P. P.*  
ACCALENTIENS

GENUS *HIRUNDO*

Swallow



*Strix flammar*



*Strix passerina*



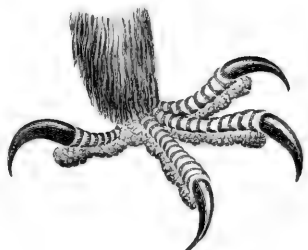
*Strix stridula*



*Tetrio urogallus*



*Falco Chrysoetos*



*Strix brachyotos*



*Tetrao lagopus*



*Motacilla regulus*



*Ardea minuta*



*Tetrio tetriv*



*Alauda obscura*



*Glaucola austriaci*



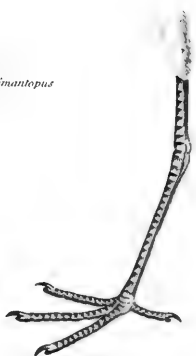
*Ardea cinerea*



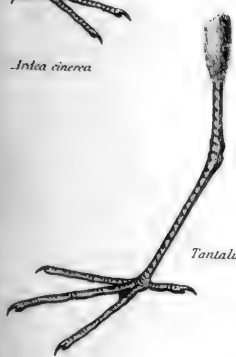
*Charadrius limantopus*



*Platalea ajaja*

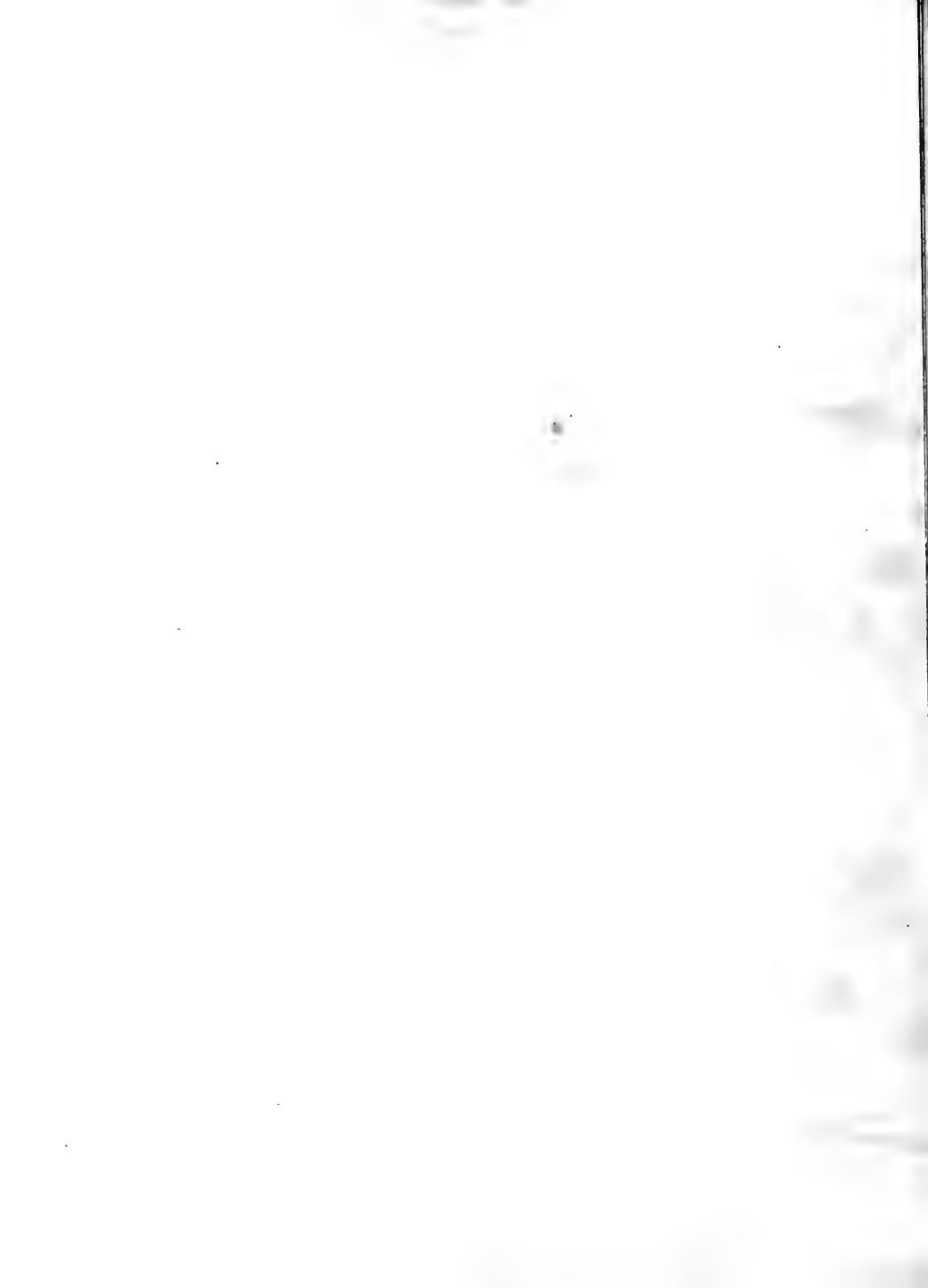


*Tantalus igneus*



*Hamatopus ostralegus*



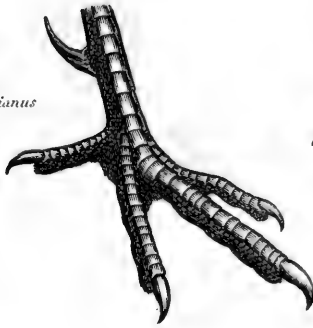






*Parus*

*Phasianus*

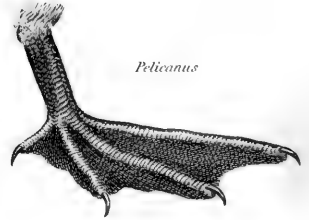


*Paro*

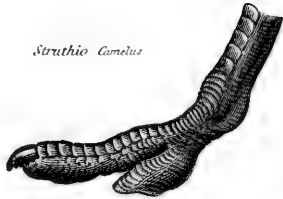
*Corvus*



*Pelicanus*



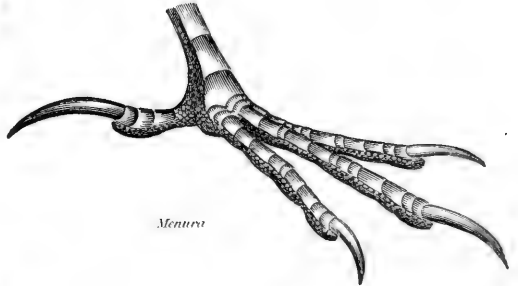
*Struthio Camelus*



*Struthio casuarus*



*Menurus*



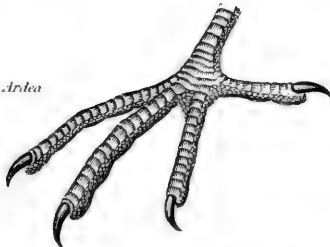
*Cereopsis*



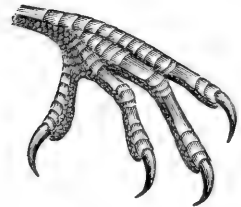
*Otis*

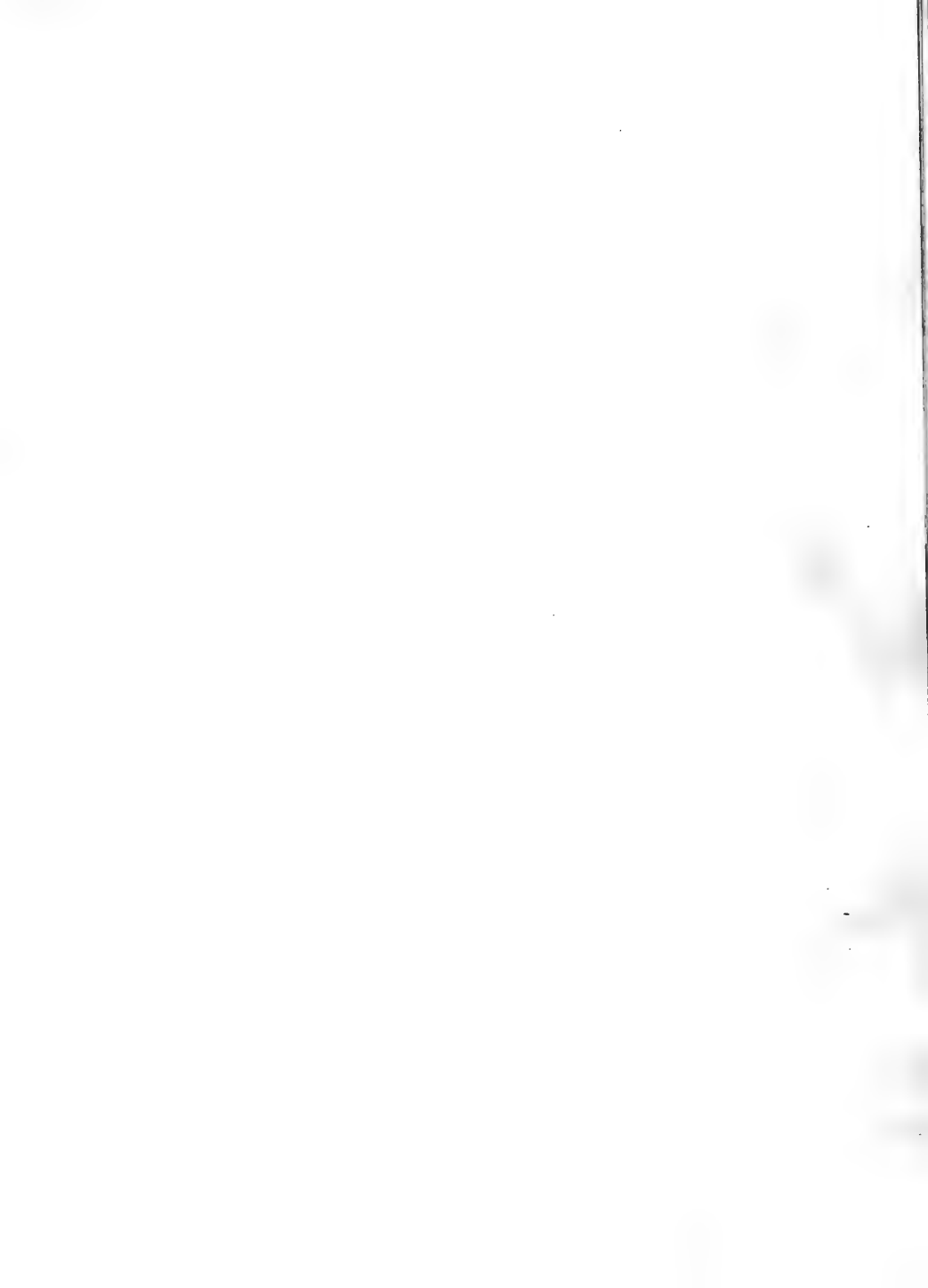


*Ardea*

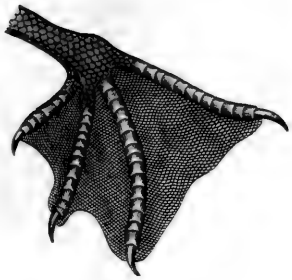


*Paradisca*

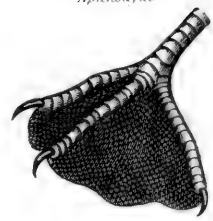




*Pelicanus*



*Aplonodytes*



*Fulica*

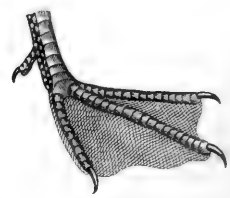


*Phaenicopterus*

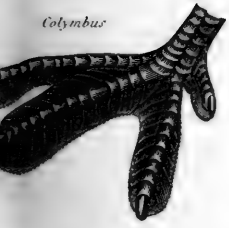


*Tringa lobata*

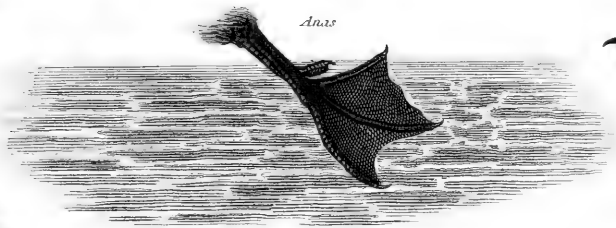
*Larus*



*Colymbus*



*Anas*



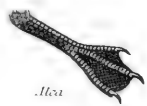
*Avocetta*



*Tringa*



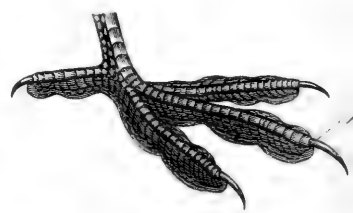
*Mex*



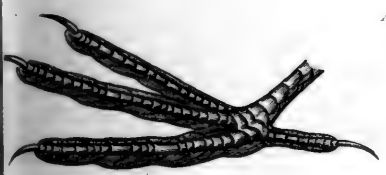
*Avocetta*



*Fulica*



*Ballus pallinul*



*Vaginalis*

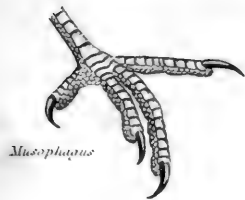


*Colymbus*





Elementary.



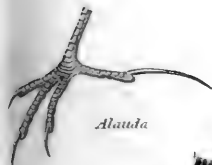
*Muscophagus*



*Picus*



*Picus marinus*



*Alauda*



*Alauda obscura*



*Collinus*



*Alcedo*



*Falco*



*Falco*



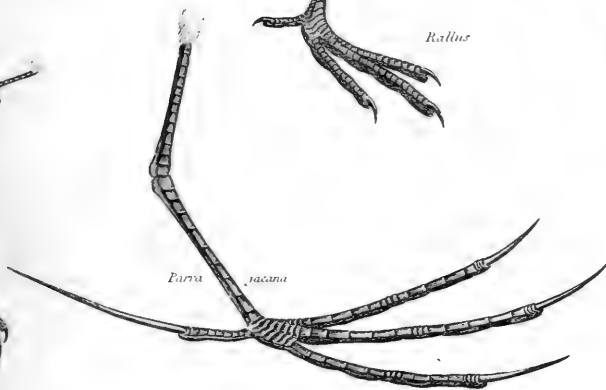
*Sterna*



*Gallus*



*Colymbus Podiceps*



*Falco*

*jacana*



*Turdus*



*Sitta*



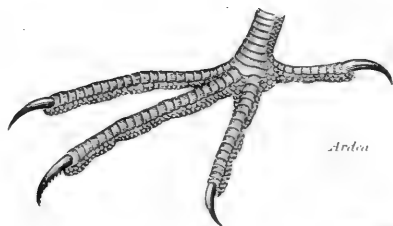
*Motacilla*



*Glareola*



*Pipra*

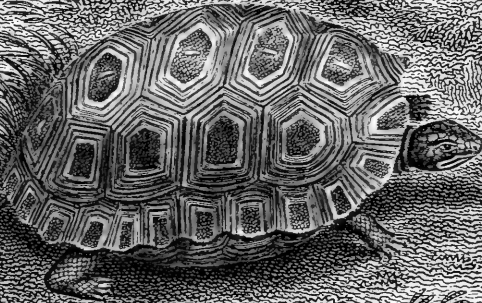
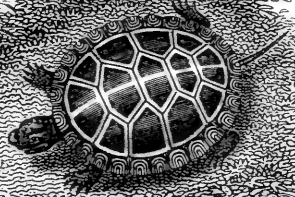
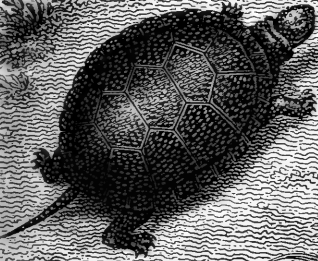
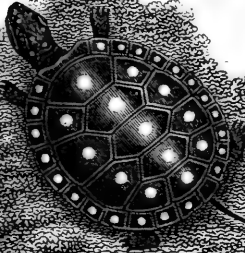
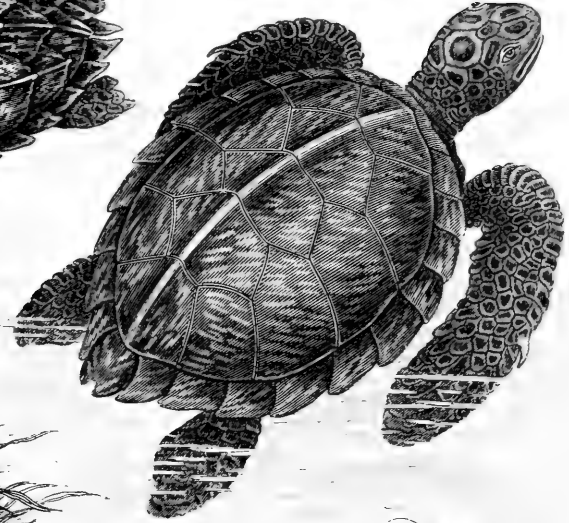
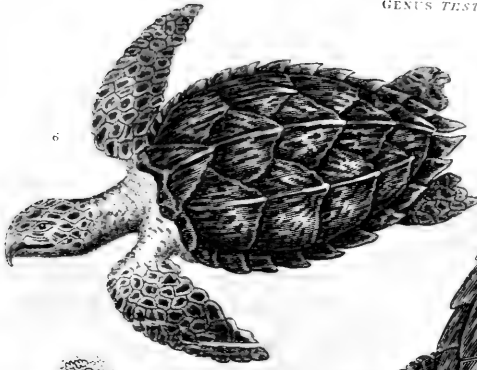


*Ardea*



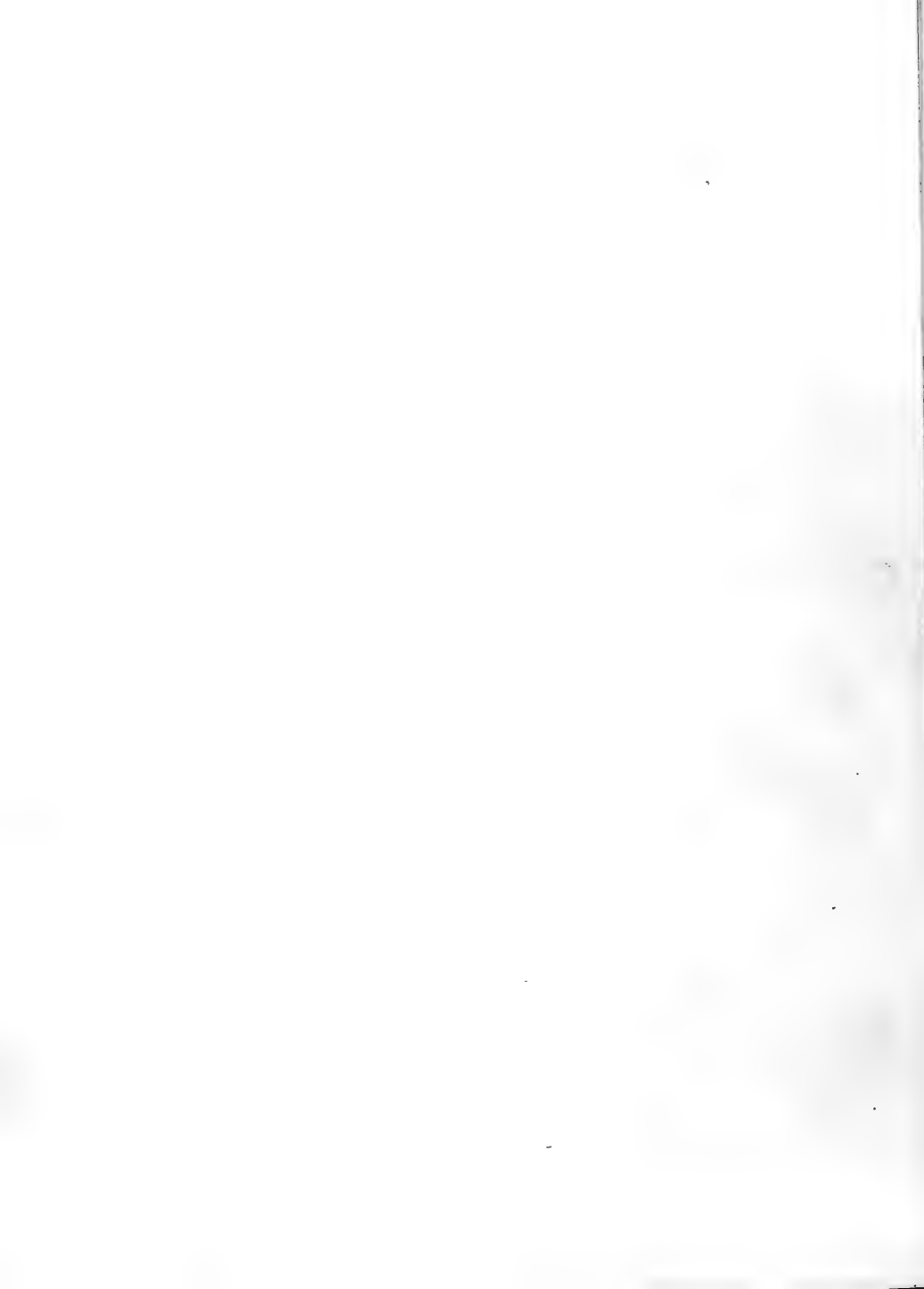
AMPHIBIA.

GENUS TESTUDO

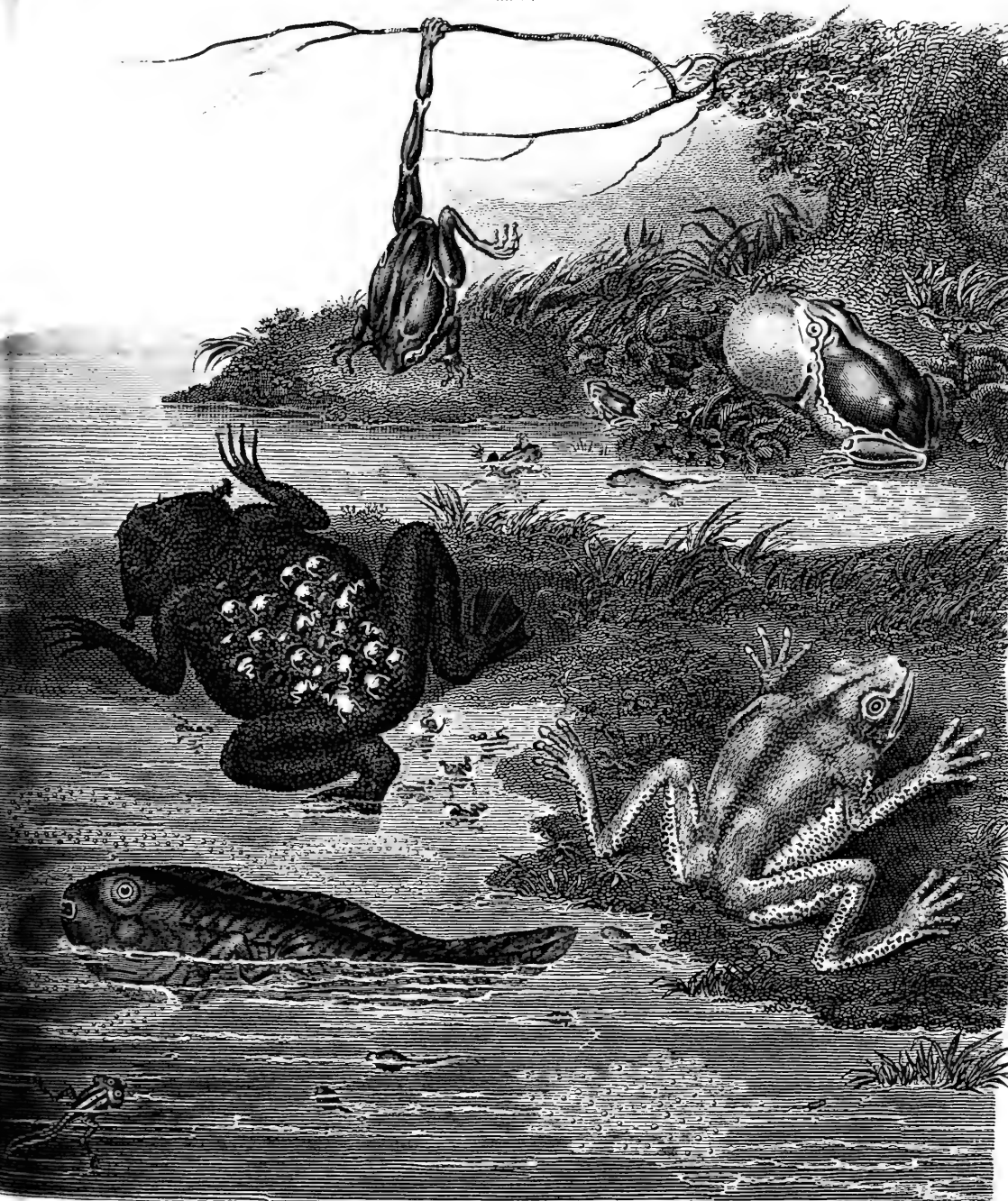


1 *T. denticulata* 2 *T. Europaea* 3 *T. guttata* 4 *T. picta* 5 *T. Midas* 6 *T. imbricata*  
 DENTICULATED TORTOISE GREEN SPECKLED T. SPOTTED T. PAINTED T. ESCULENT GREEN TURTLE HAWKS-BILL T.

Published as the Act directed, Oct. 1825, by Longman Hurler, Beech Street, & Brown Paternoster Row.







Family Frog Family Toad

R. F. 1

R. F. 2

R. F. 3

SURINAM TOAD *Athysanella*

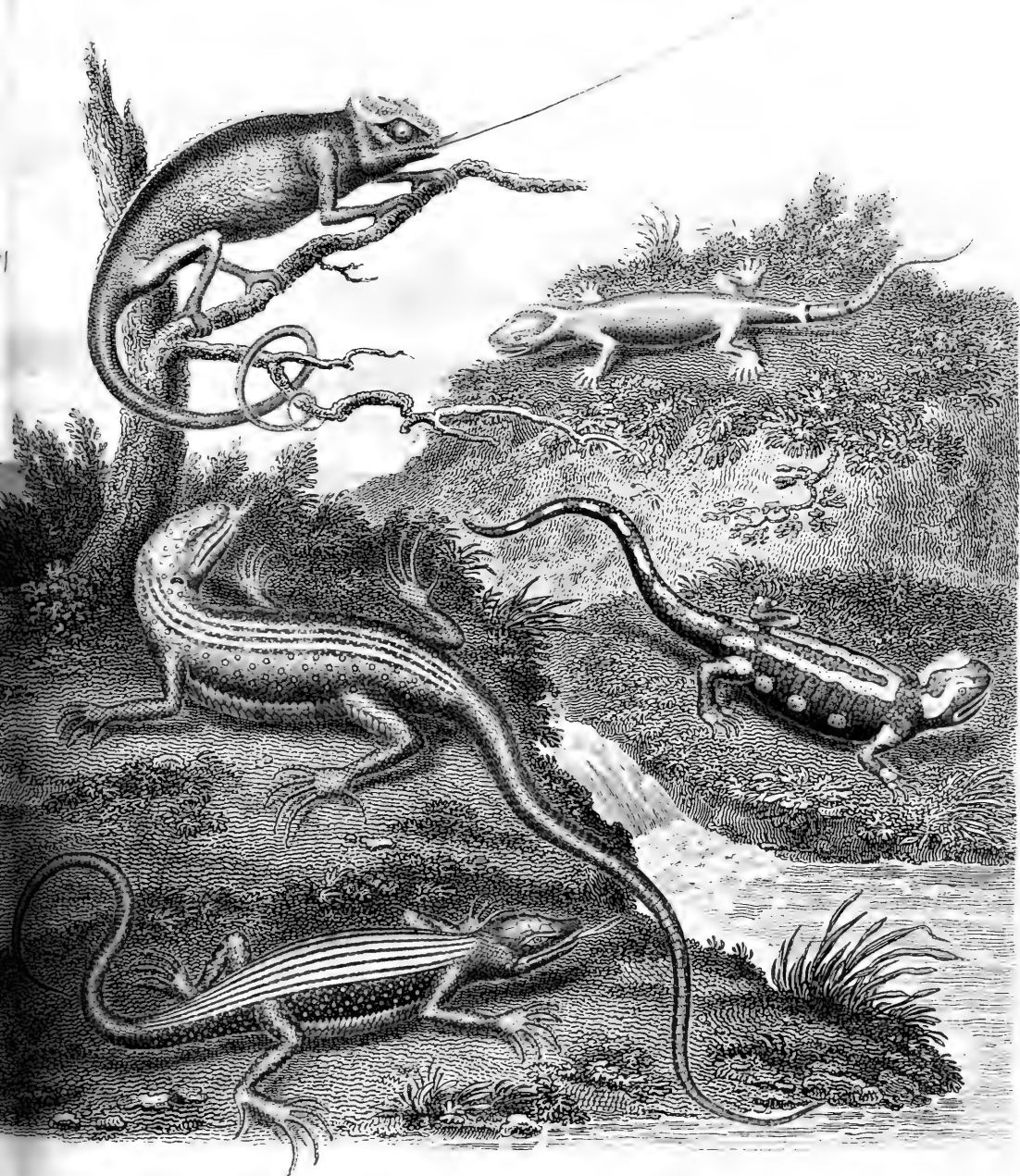
WOOD COLOURED FROG

PARADOXICAL FROG

RED LEG

Published by J. M. Dent & Co., London

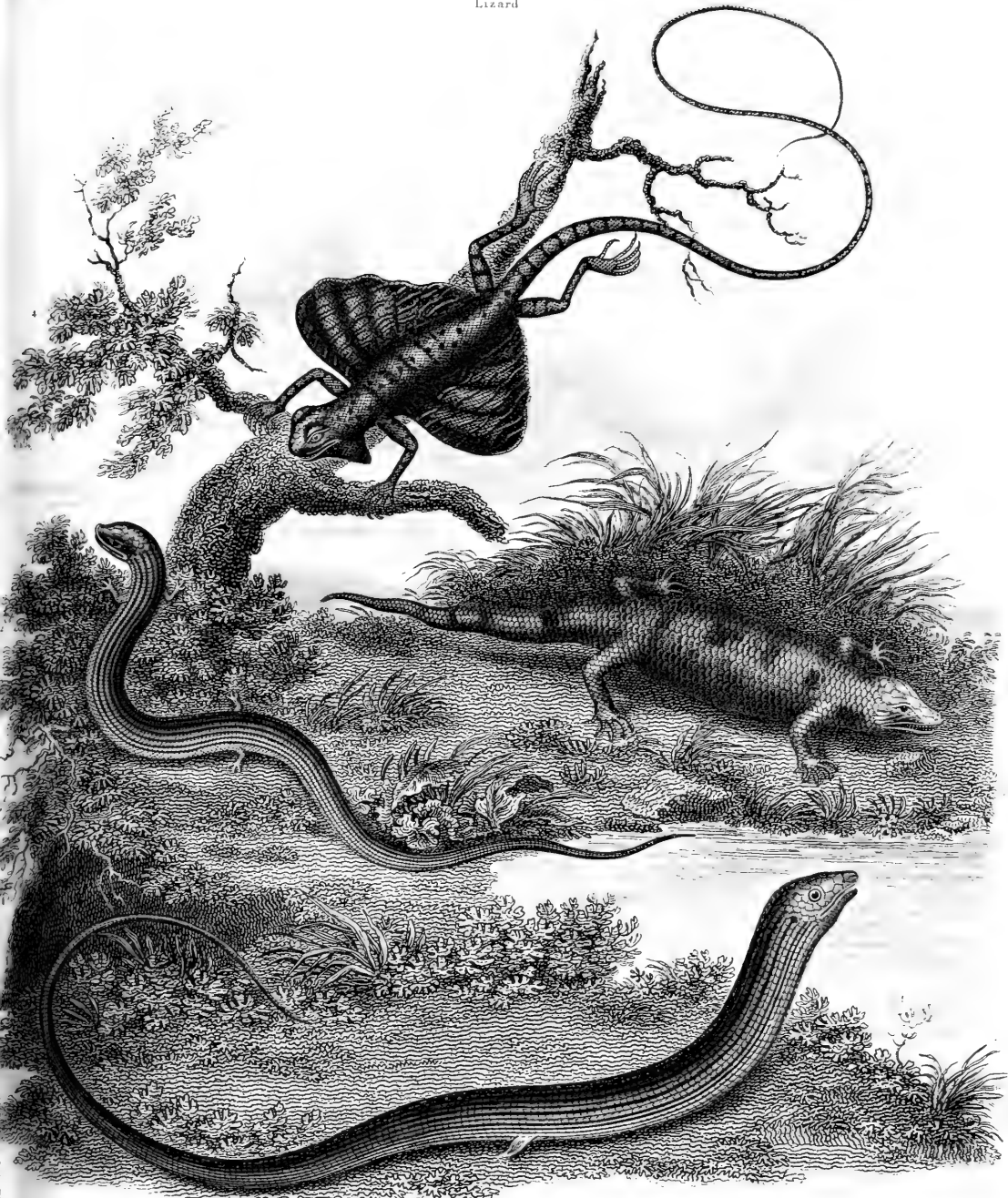




1. *L. Salamandra* 2. *L. Vittata* 3. *L. Chameleon* 4. *L. Agilis* 5. *L. Linnæata*  
 S. SALAMANDER FORKED L. CHAMELEON GREEN L. EIGHT LINED L.



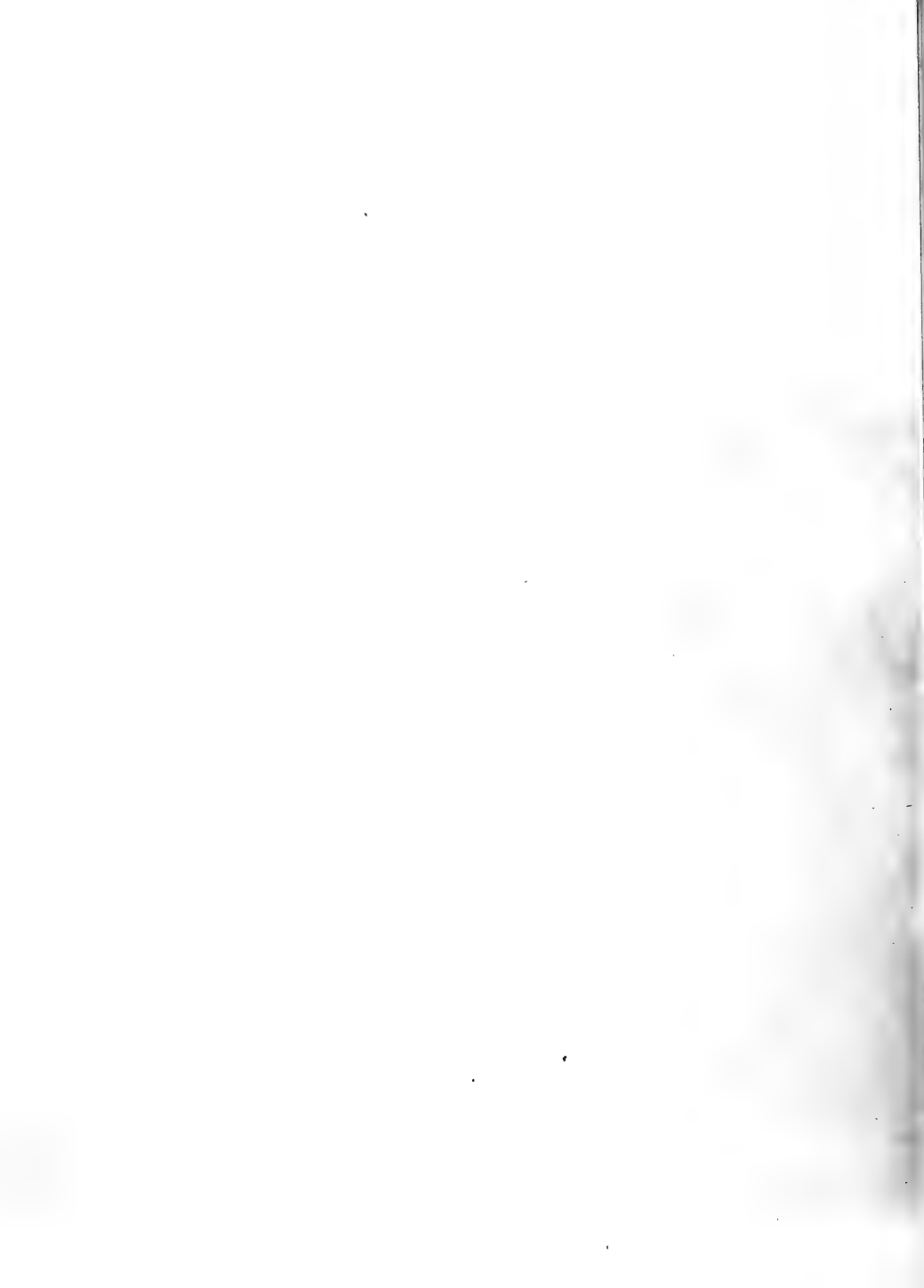
GENUS *LACERTA*. G. DRACO  
Lizard



1. *L. scincoides*    2. *L. chalcides*    3. *L. apodja*    4. *L. draco*

AUSTRALASIAN GALLIWASP    CHALCIDES L. APODJA L. FLYING DRAGON

Milner sculp.



AMPHIBIA

GENUS SIREN



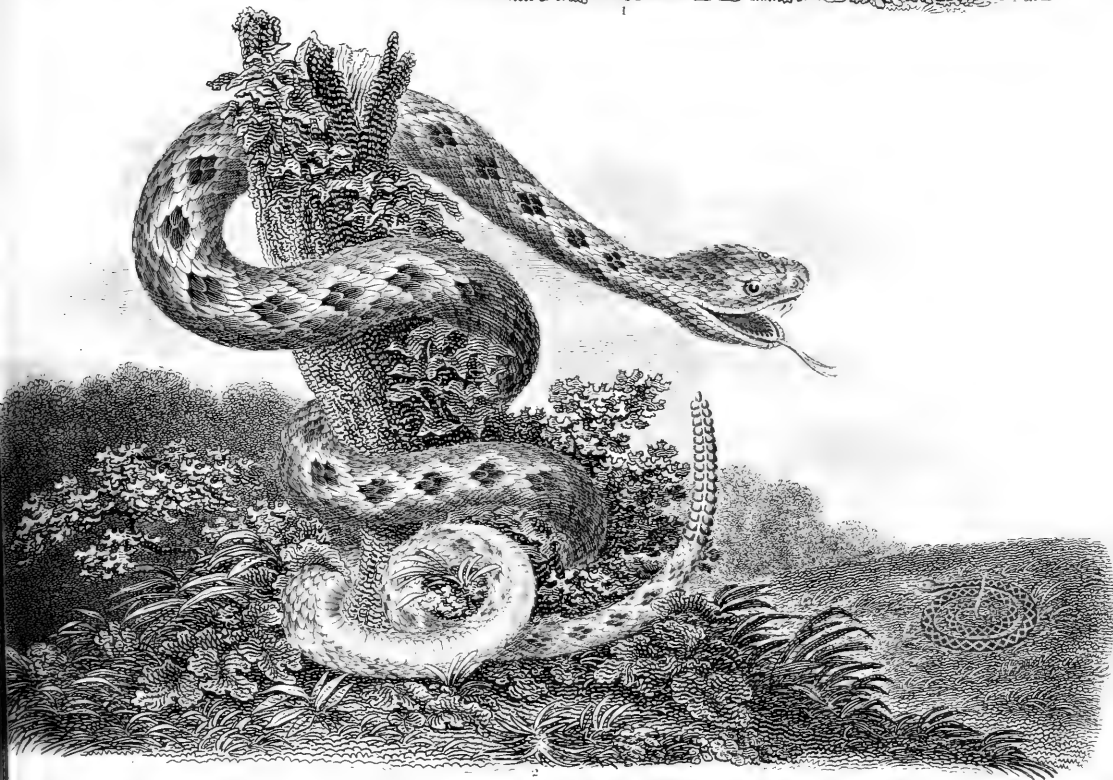
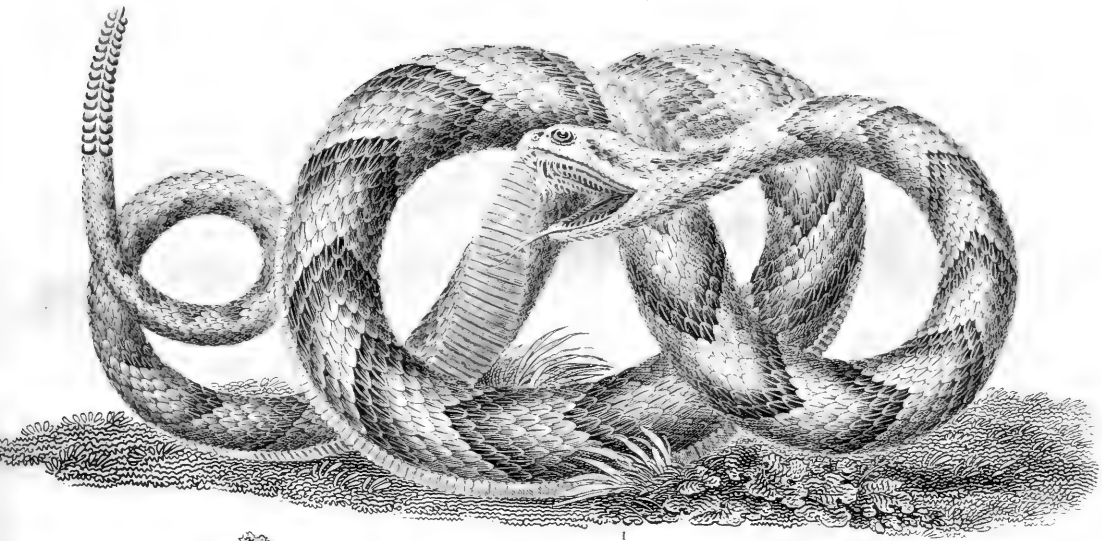
1. *S. ovata* 2. *S. longicauda*

1844. 1844. 1844. 1844.

Engraved by J. G. Thompson, May 1844, by Longman, Hurst, Ke, & Co. & Bowen, Lithographers.







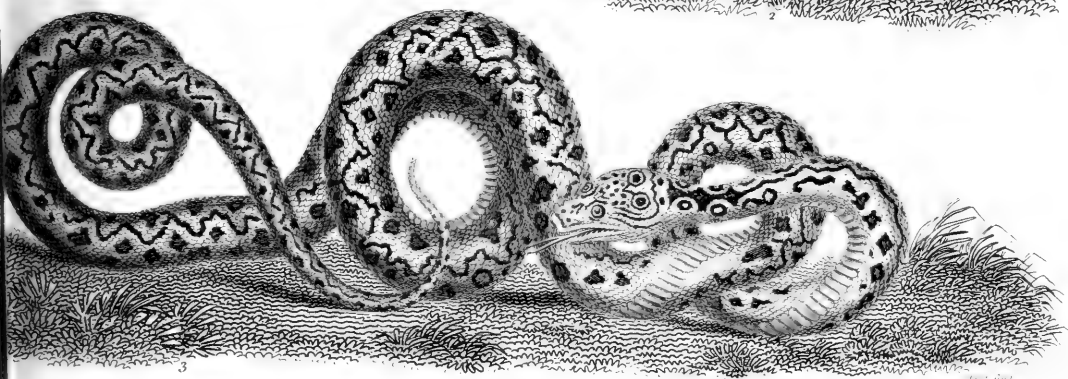
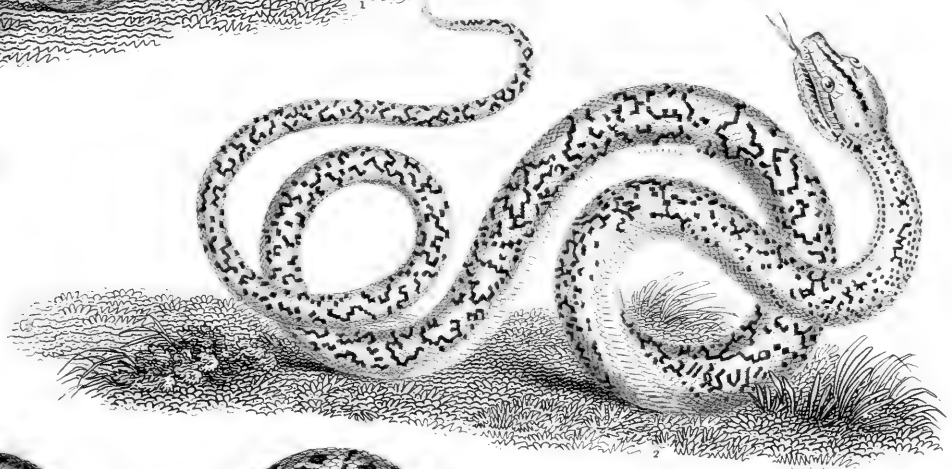
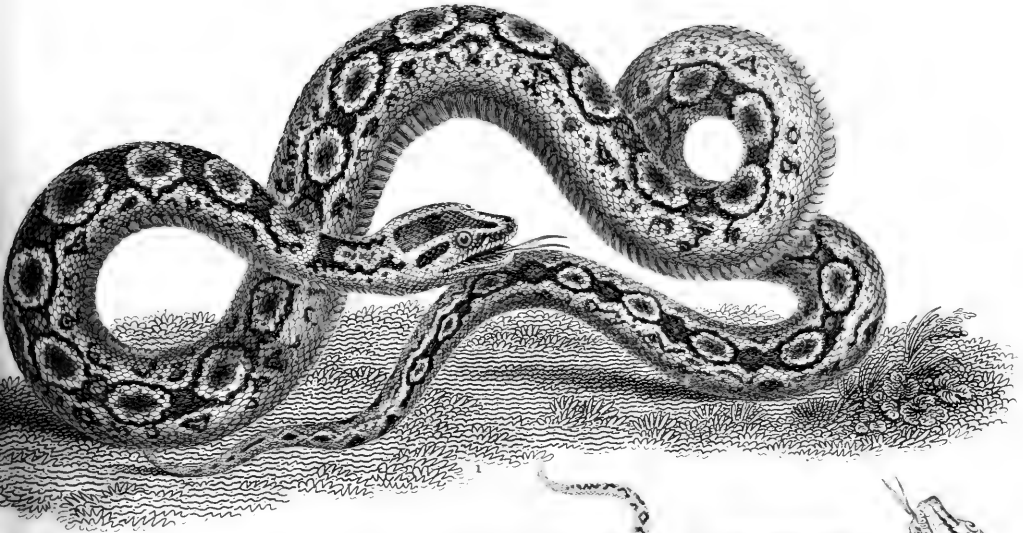
(Rattle Snake)

1. *C. Horridus*  
BUNDLED R.S.

2. *C. Durissus*  
STRIPED R.S.

Published as the Act direct Nov. 17<sup>th</sup> 1837 by Longman Hurst Rose & Orm, City-Printers.





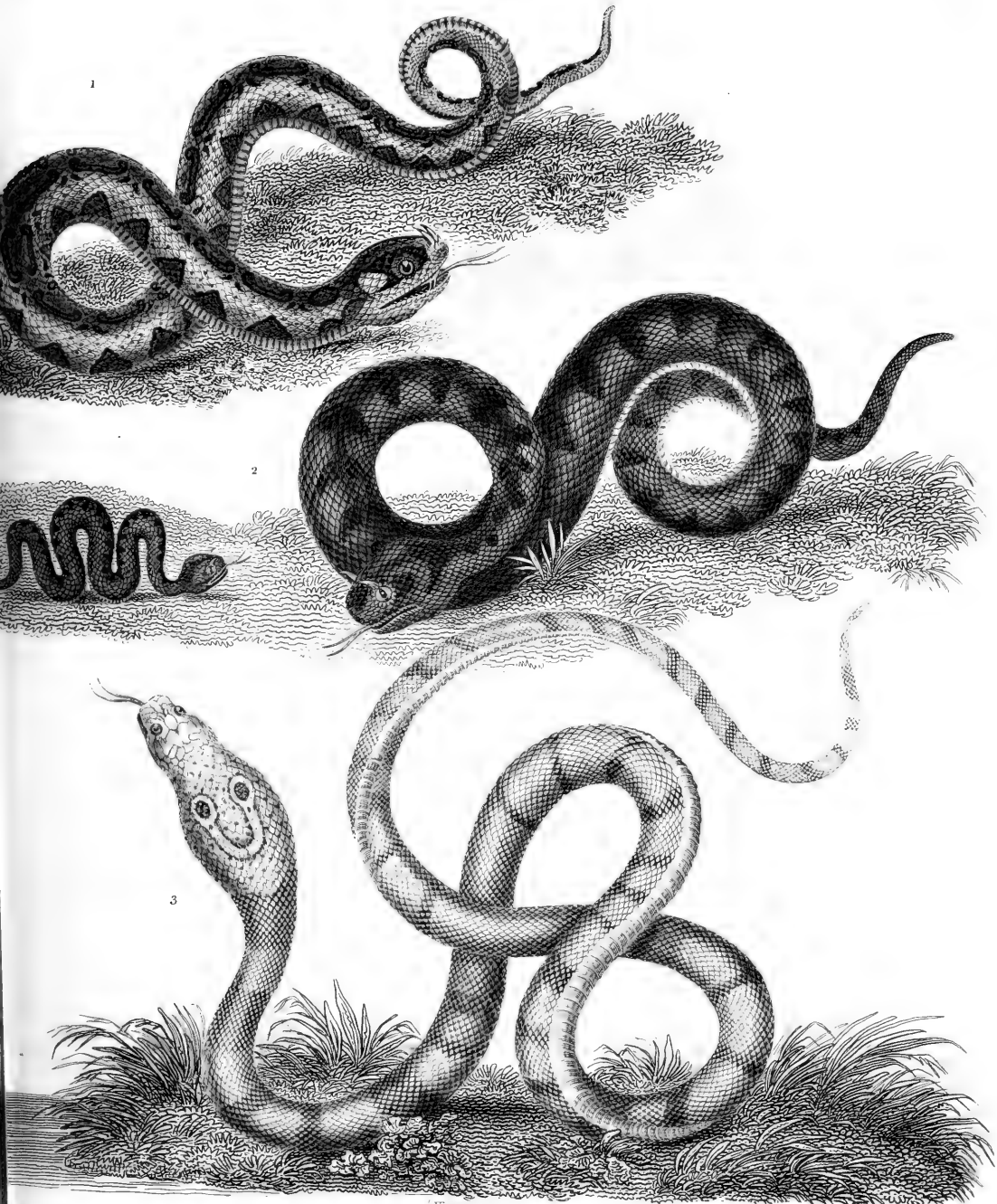
1 Serpent

1 B. Constrictor  
GREAT B.

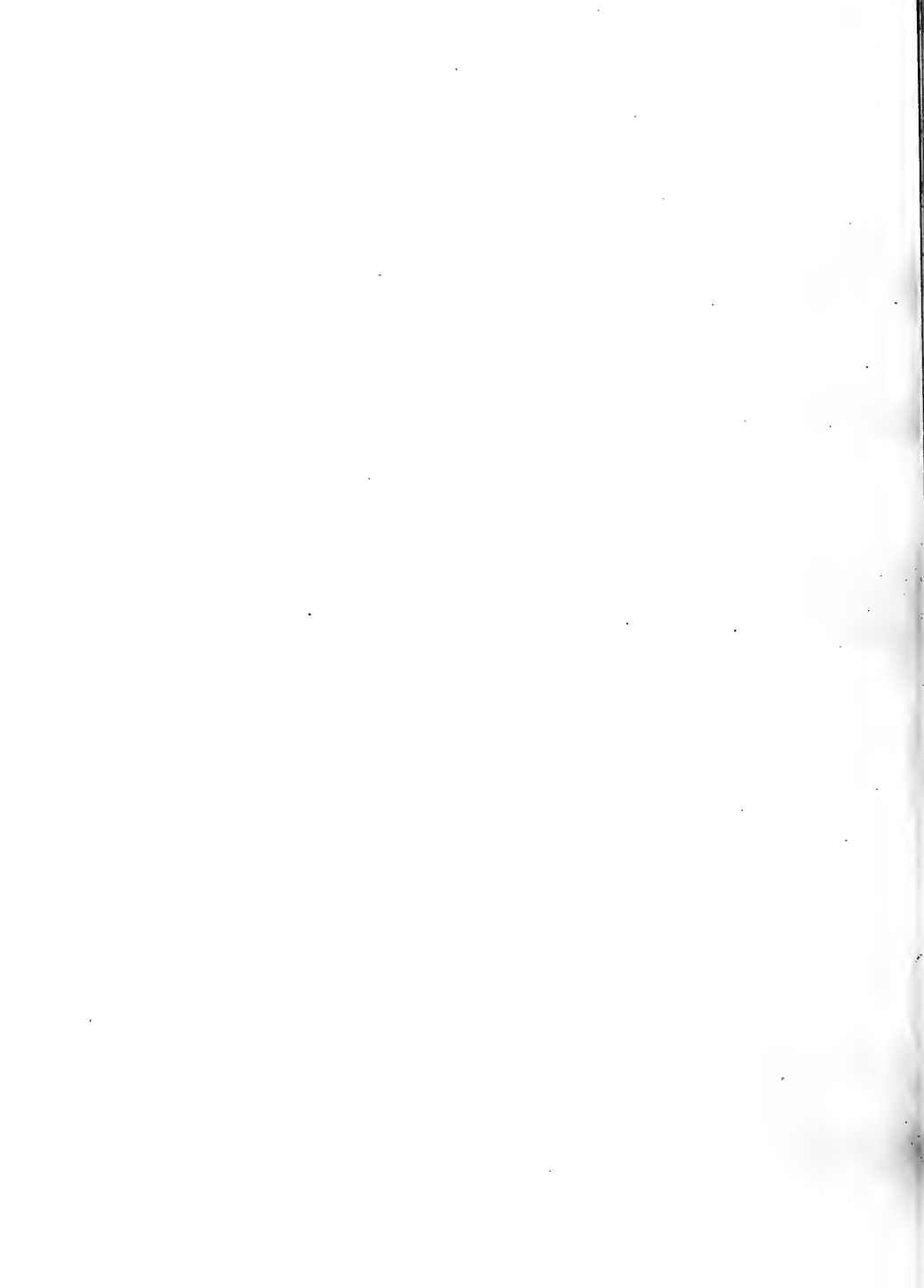
2 B. Phrygias  
EMBROIDERED B.

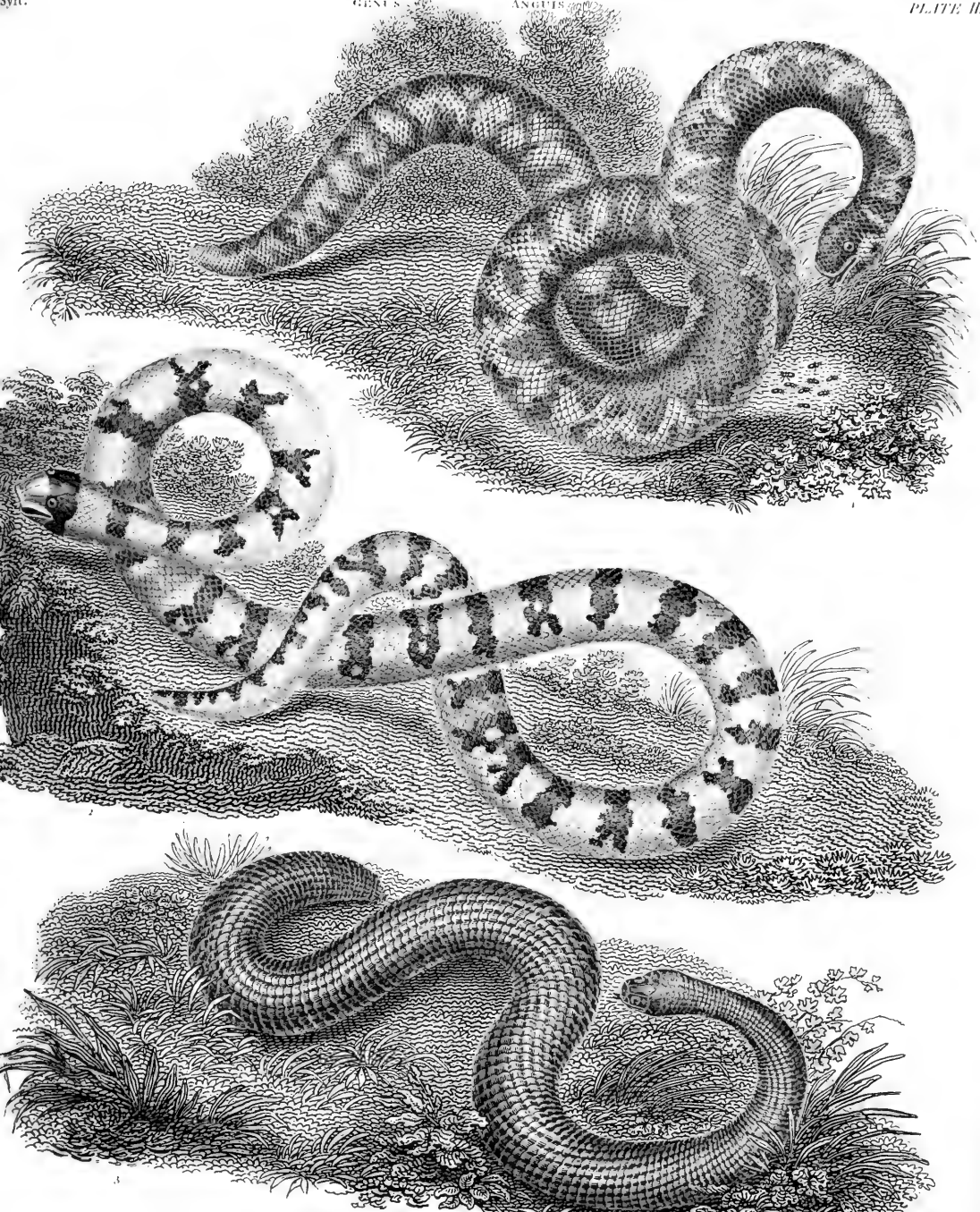
3 B. Hortulana  
GARDEN B.





1. *C. nasicornis* 2. *C. Graetes* 3. *C. Naja*  
 HORN NOSE V. CERASTES V. NAGOO or SPECTACLE V.  
 Published as the Act Street, April 1<sup>st</sup> 1849 by Longman, Murray, Oles & Orme, Paternoster Row.





Slow Worm

C. A. Gordon  
CORAL S.

V. A. L. ...  
BLACK BUNDLED S.

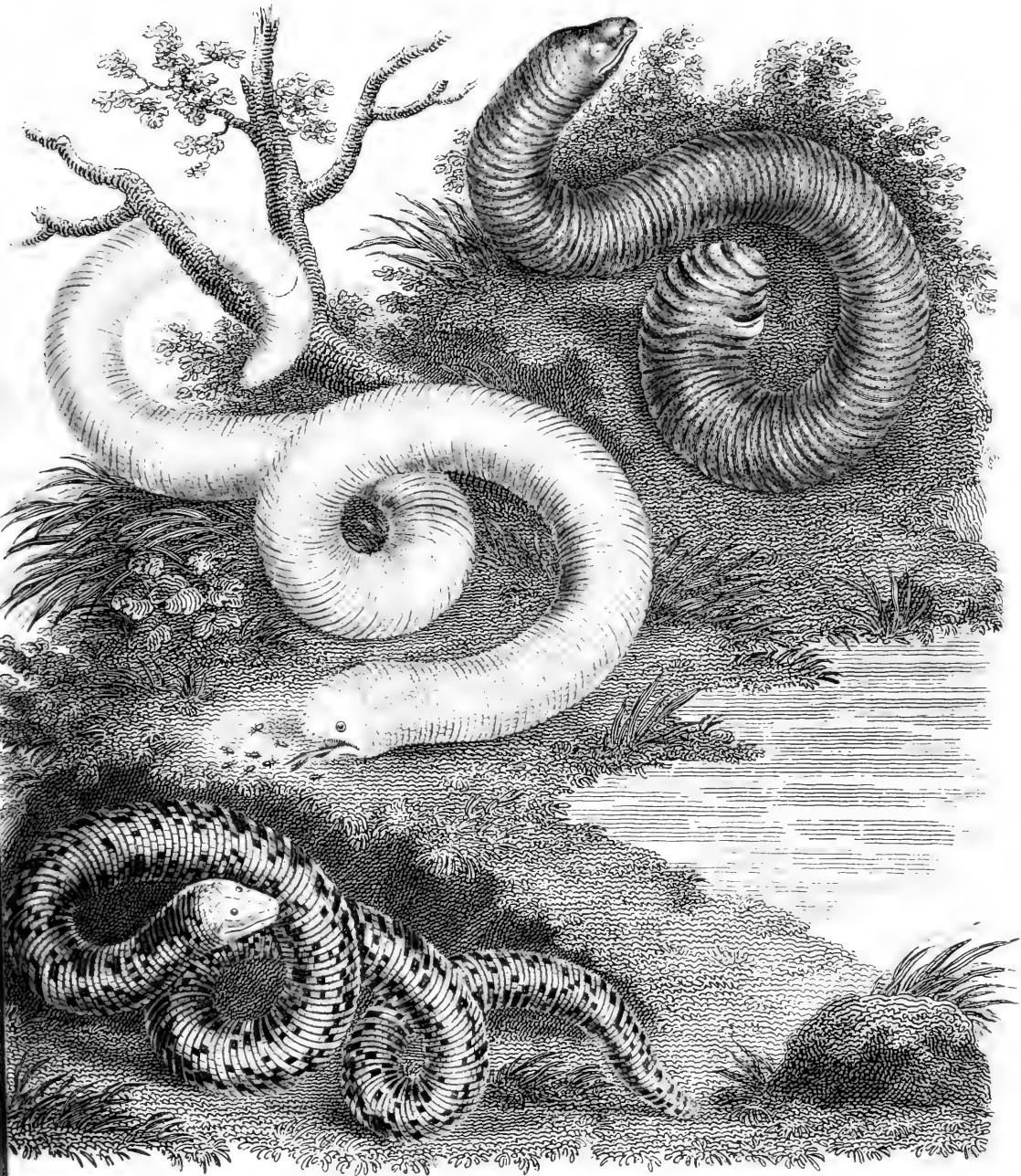
C. A. L. ...  
SILICUS.

Published at the Art Store, April 1, 1869, by Longman, Hurst, Ross & Co., 15, Ave. Marie, New York.



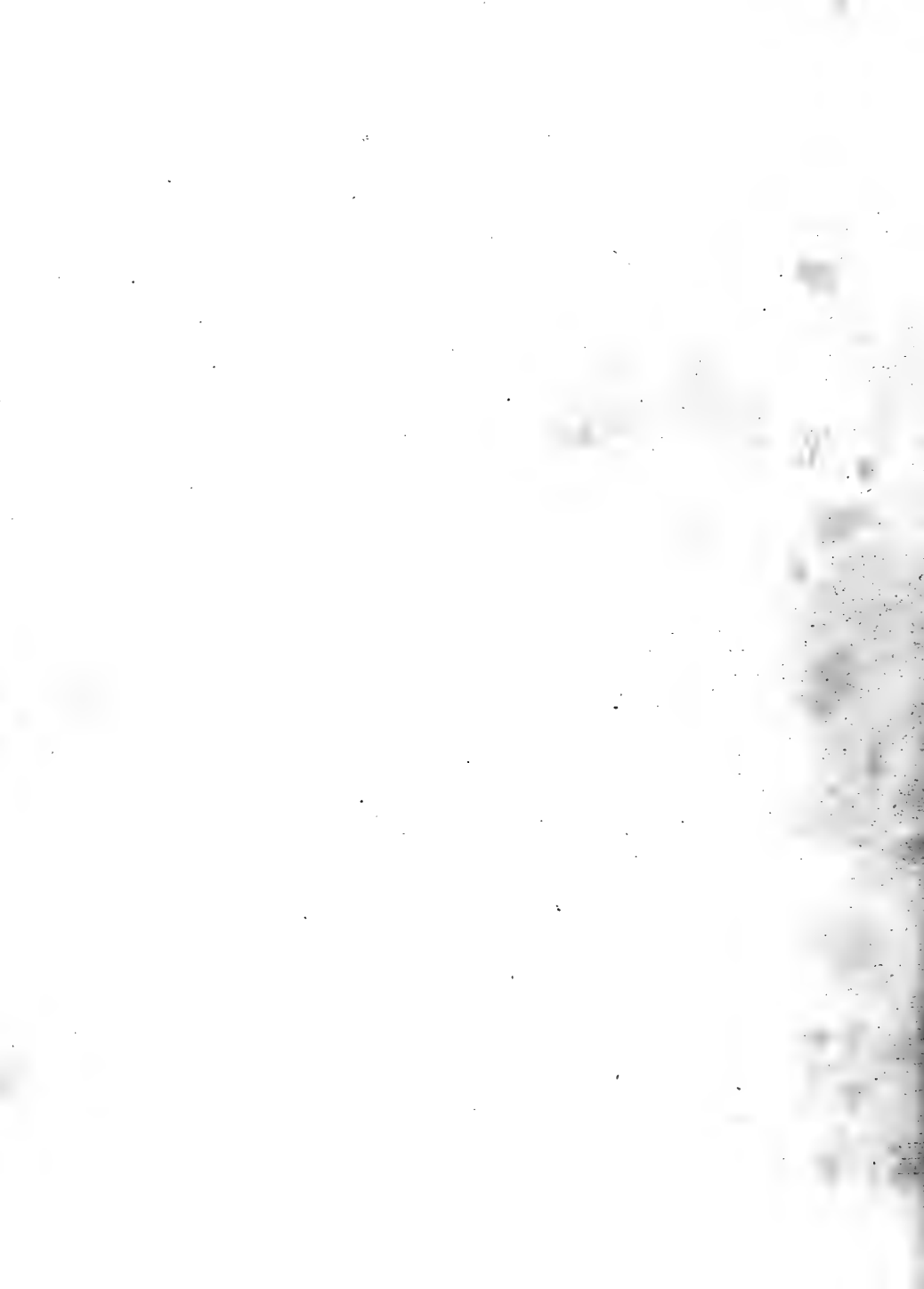


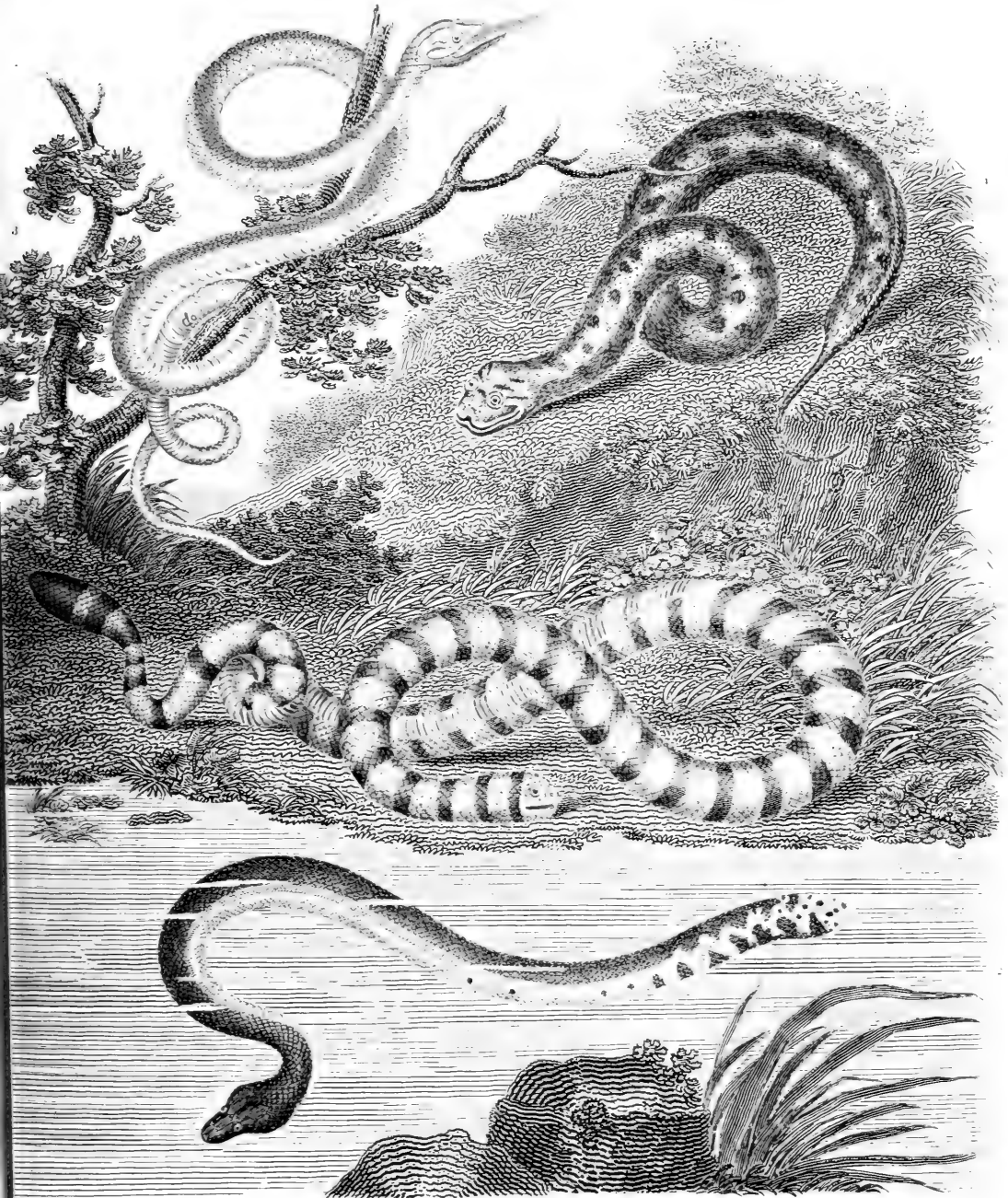
GENUS AMPHISBA. GEN. CECILLI.



A. Alba     A. Virginesca     A. Cincta  
 WILD.     FULVICOSA     LIL. SHAWES.

*Published by the American Society of Naturalists, New York, N.Y., in connection with the*





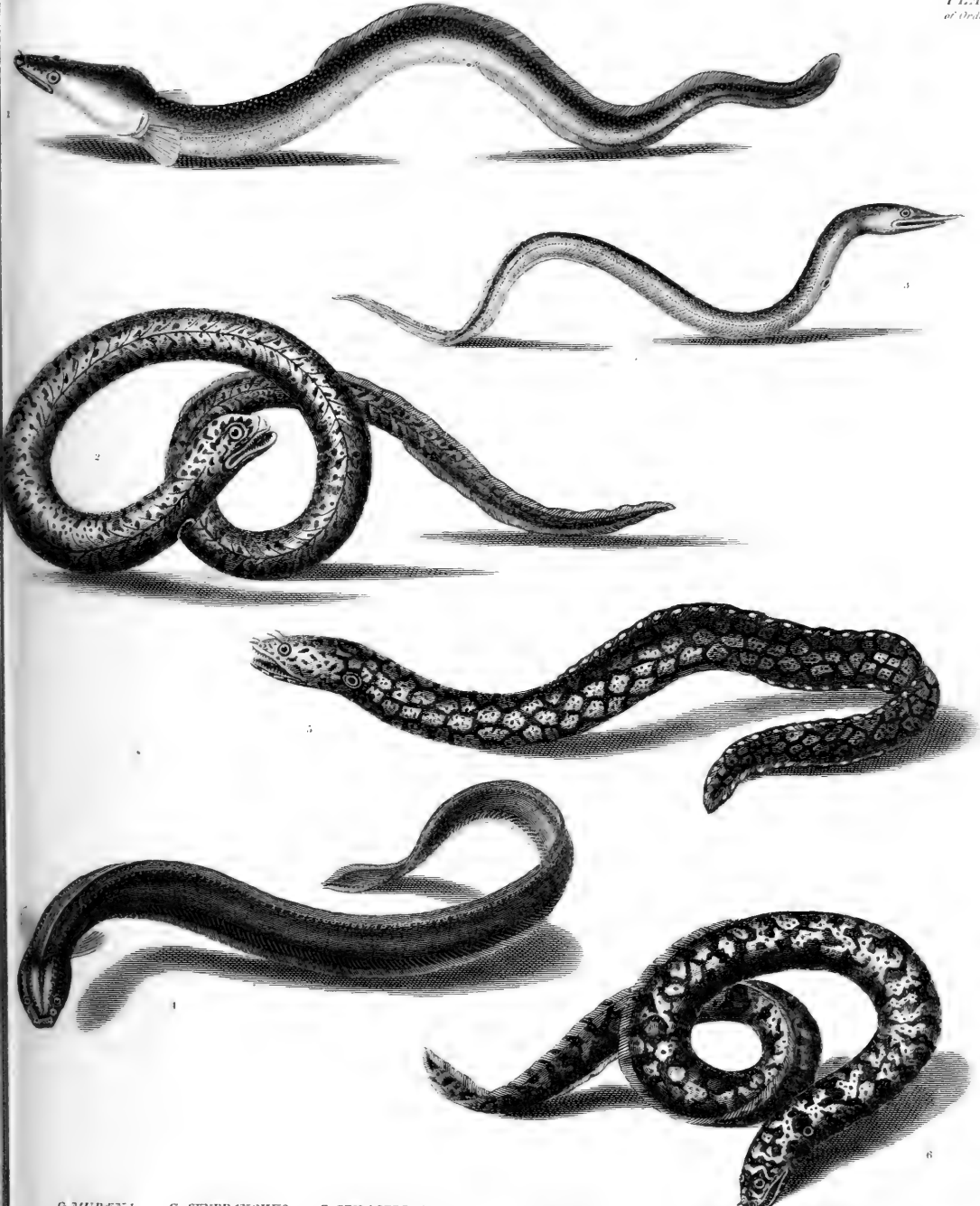
*H. Gibratus*  
COLLEBRIS II

*H. Incolor*  
BLACK RICKED II

*H. nigrata*  
SNOWY II

*H. ...*  
... II





1. *G. MURENA*  
 1. *M. Aquilla*  
 EEL MURENA

2. *G. SINBRANCHUS*  
 2. *Syn. Marmoratus*  
 MARBLED SINBRANCHUS

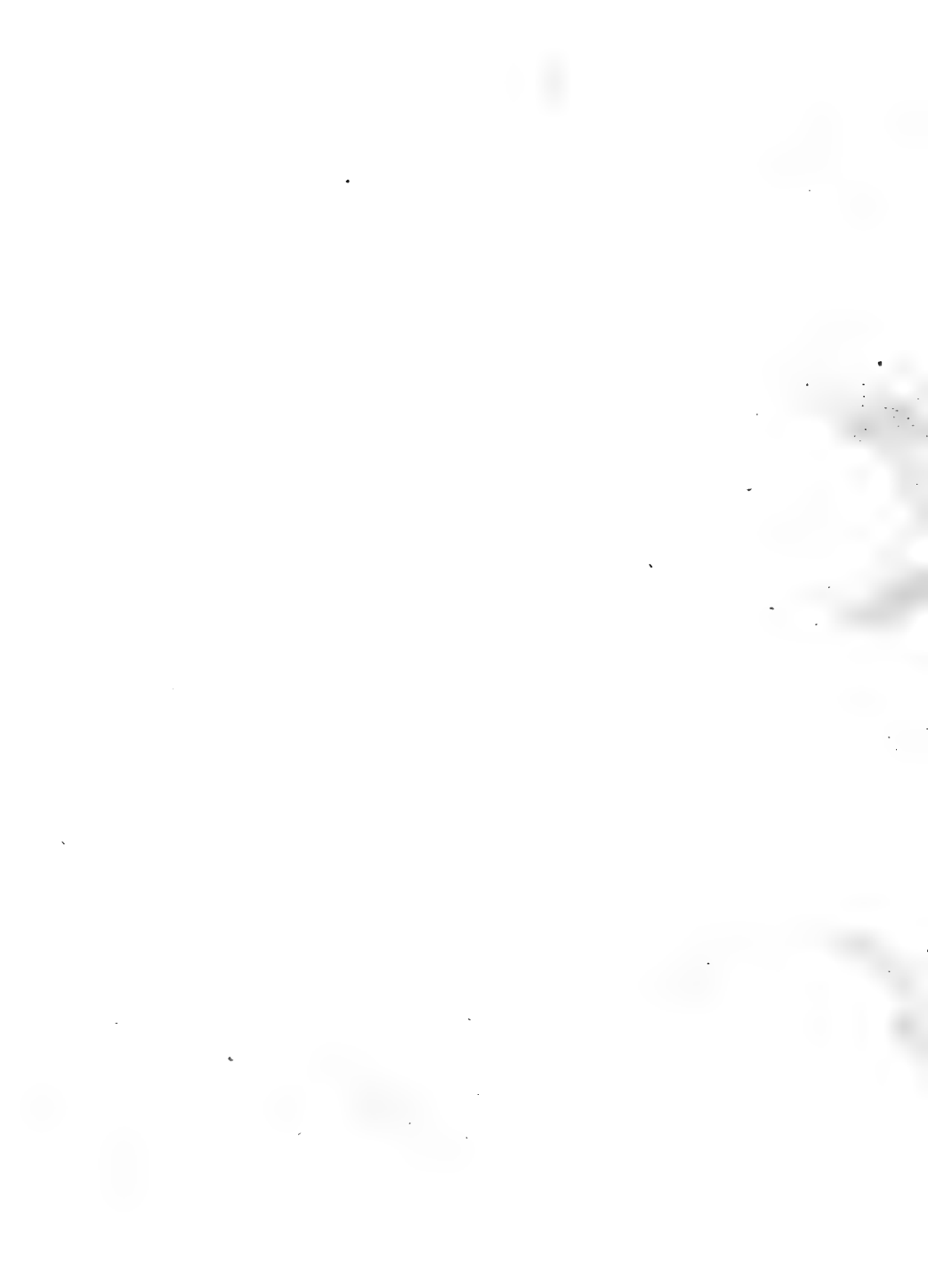
3. *G. SPHICEBRANCHUS*  
 3. *Spha. Rostratus*  
 SNOUTED SPHICEBRANCHUS

4. *G. GYMNOTUS*  
 4. *Gym. Electricus*  
 ELECTRIC GYMNOTUS

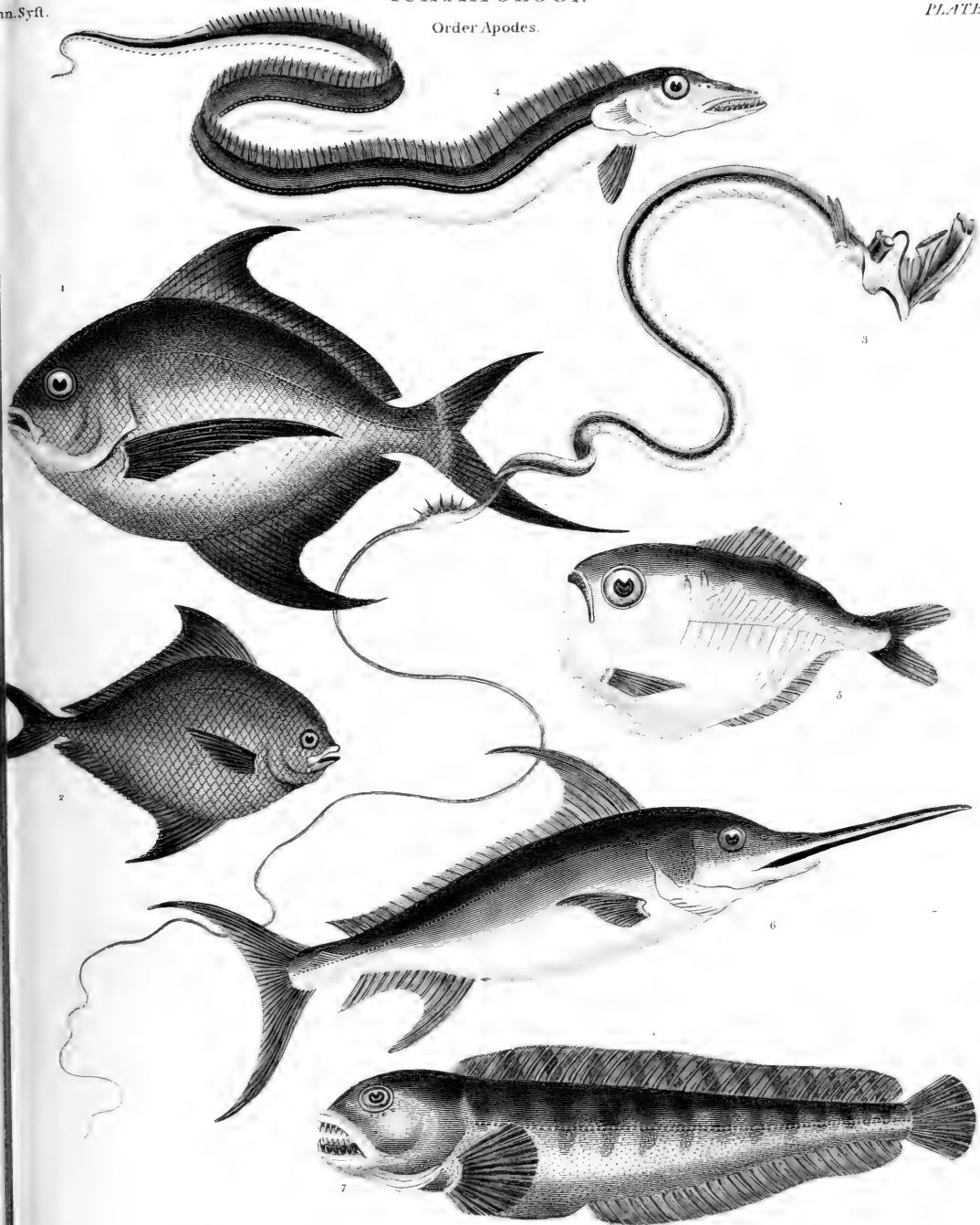
GENUS *G. GYMNOTHORAX*  
 5. *Gym. Murena*  
 EEL GYMNOTHORAX

6. *Gym. Catenatus*  
 CHAIN GYMNOTHORAX

*Milton sculp*

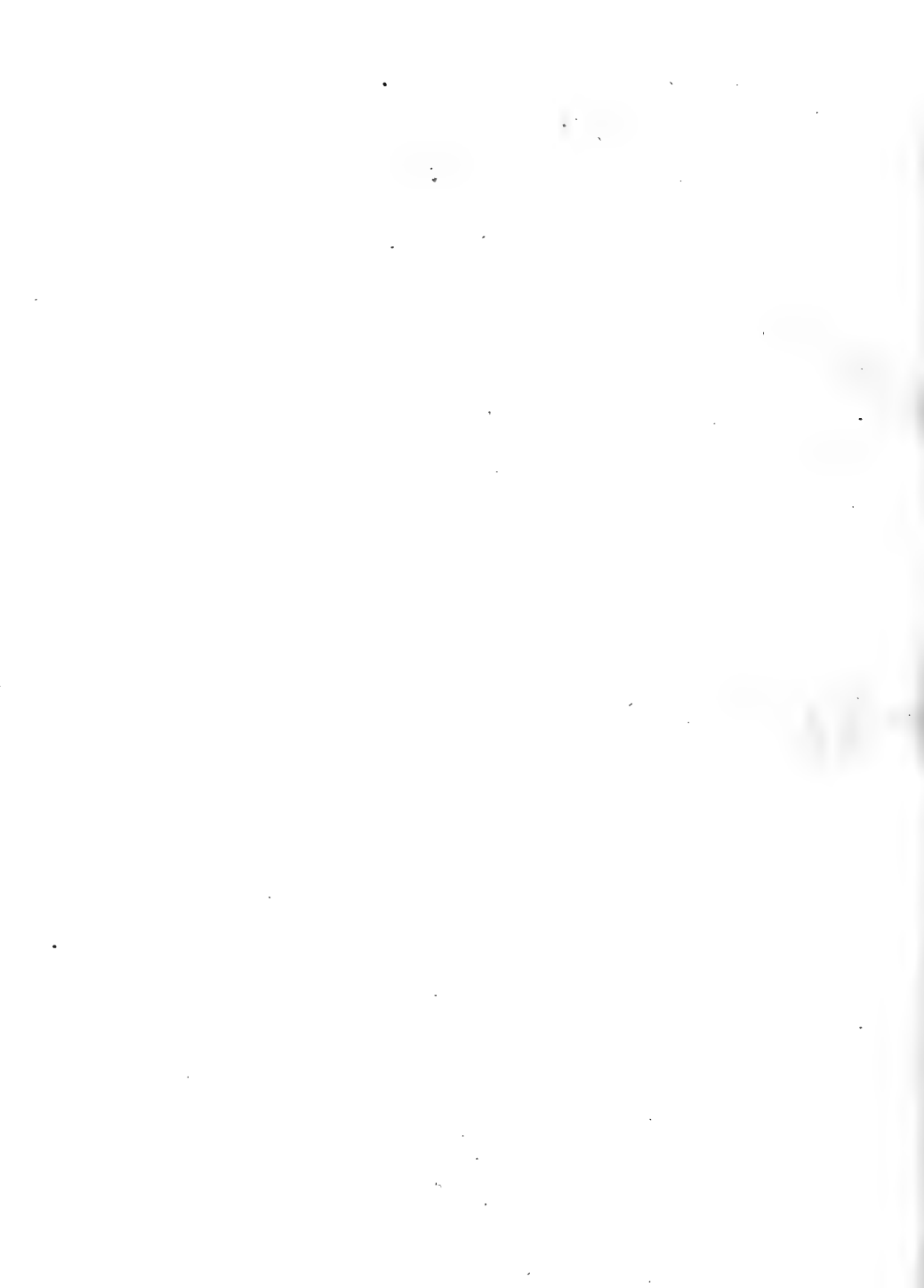


Order Apodes.

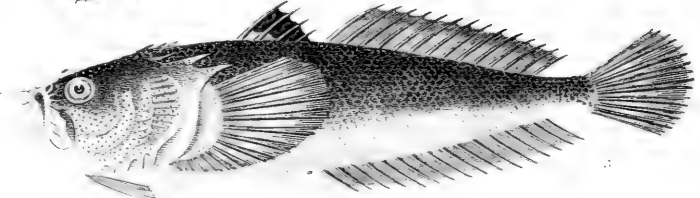
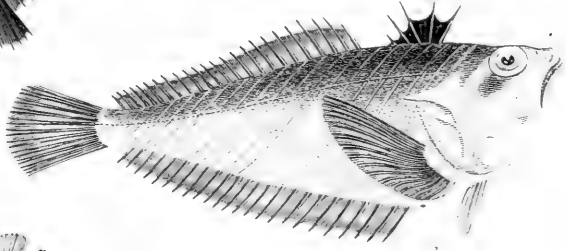
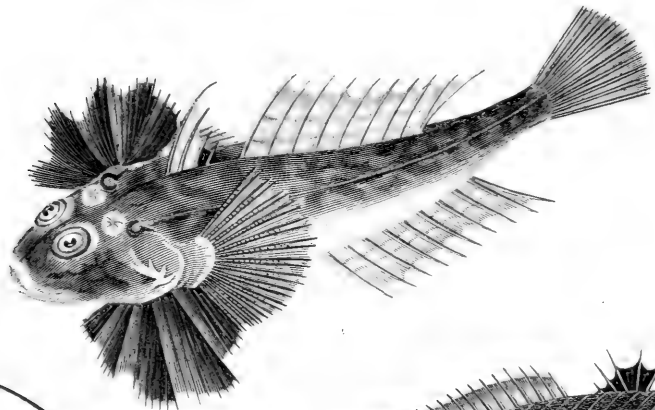
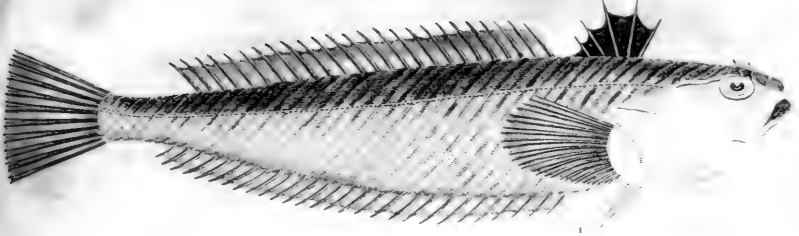


GENUS STROMATECS	G. STYLEPHORUS	G. TRICHIURUS	G. STERNOPTYX	G. XIPHLAS	G. ANRHICIS
1. <i>Stx. cinereus</i>	3. <i>Sty. chordatus</i>	4. <i>T. arcticus</i>	5. <i>Stx. diaphana</i>	6. <i>X. gladius</i>	7. <i>A. lupus</i>
2. <i>... niger</i>				(Sword Fish)	Wolf Fish

Wilson del.







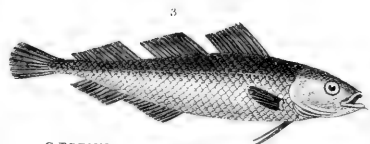
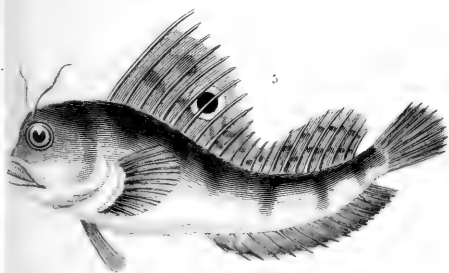
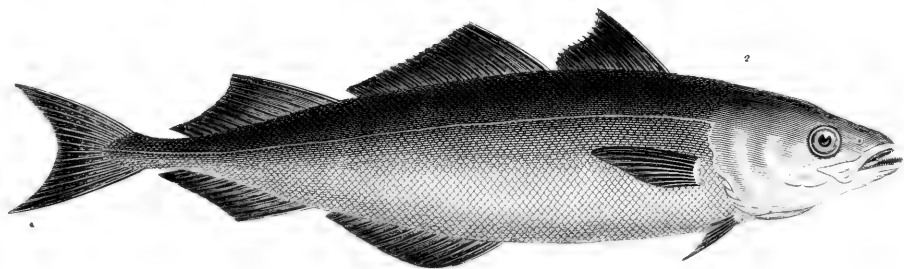
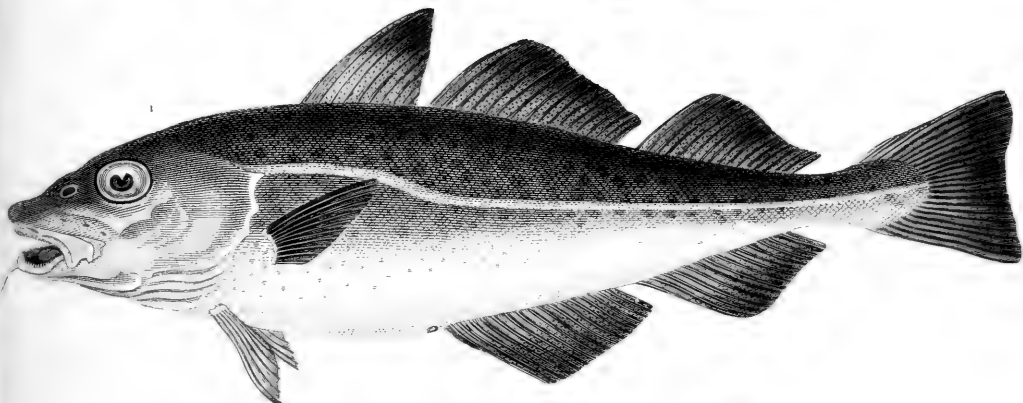
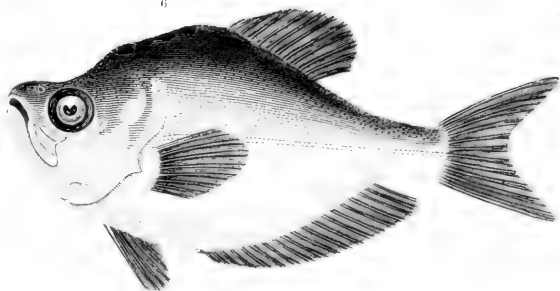
GEN. TRICHINUS  
(Weever)  
1. *T. major* 2. *T. draco*  
3. *T. ot* 4. *T. ot* 5. *T. ot*

G. URINOSCOPUS  
(Star gazer)  
1. *U. scaber*  
2. *U. scaber*

G. CILLIONYMUS  
(Dragonet)  
1. *C. dracunculoides* 2. *C. linn*  
3. *C. linn* 4. *C. linn*



ORDER JUGULARIS



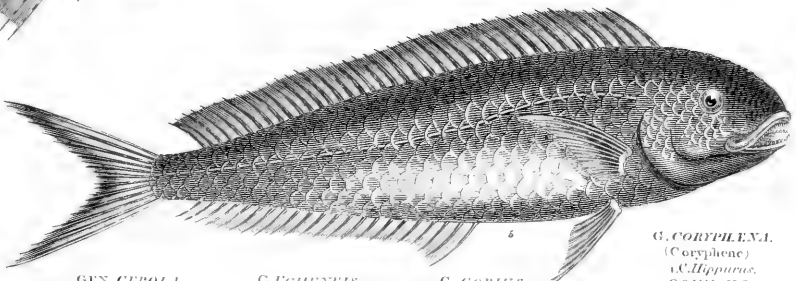
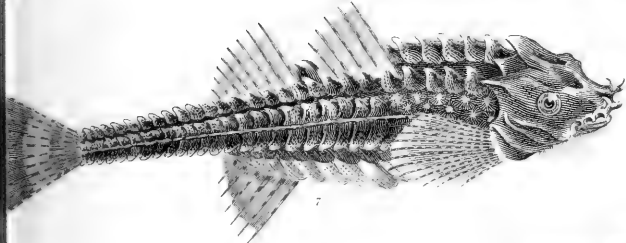
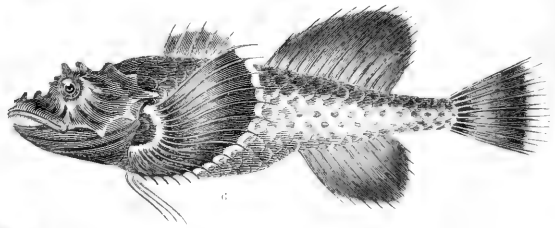
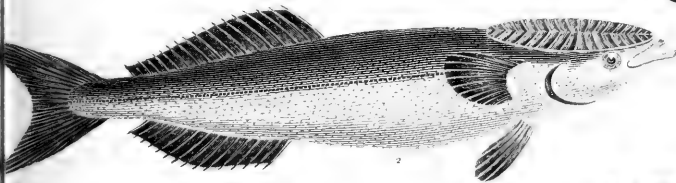
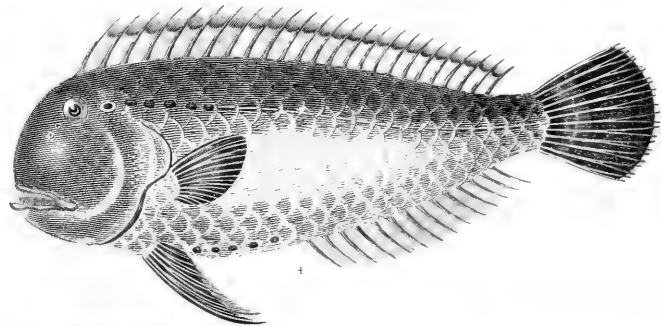
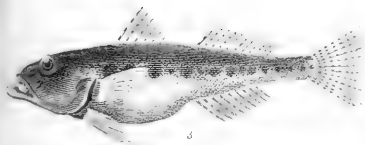
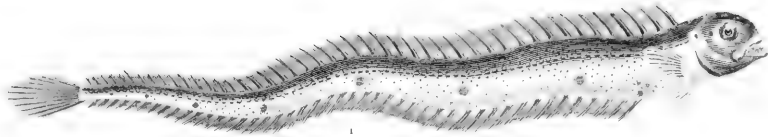
GENUS GADUS

G. BLENNIUS    G. KURTUS

1. G. morhua — 2. G. carbonarus — 3. G. minutus — 4. G. kurtus — 5. B. maris — 6. K. indicus  
 (Cod)                    (Coal Fish)                    (Poor)

Milton sculp





**G. COTTUS.**  
(Bull Head)  
6 *C. Granulosus*  
**GRUNTING BULL HEAD.**  
7 *C. Calapheonius*  
**MULEDBIT.**

**GEN. CEPOLI.**  
(Ribband Fish),  
1 *C. Tota*.

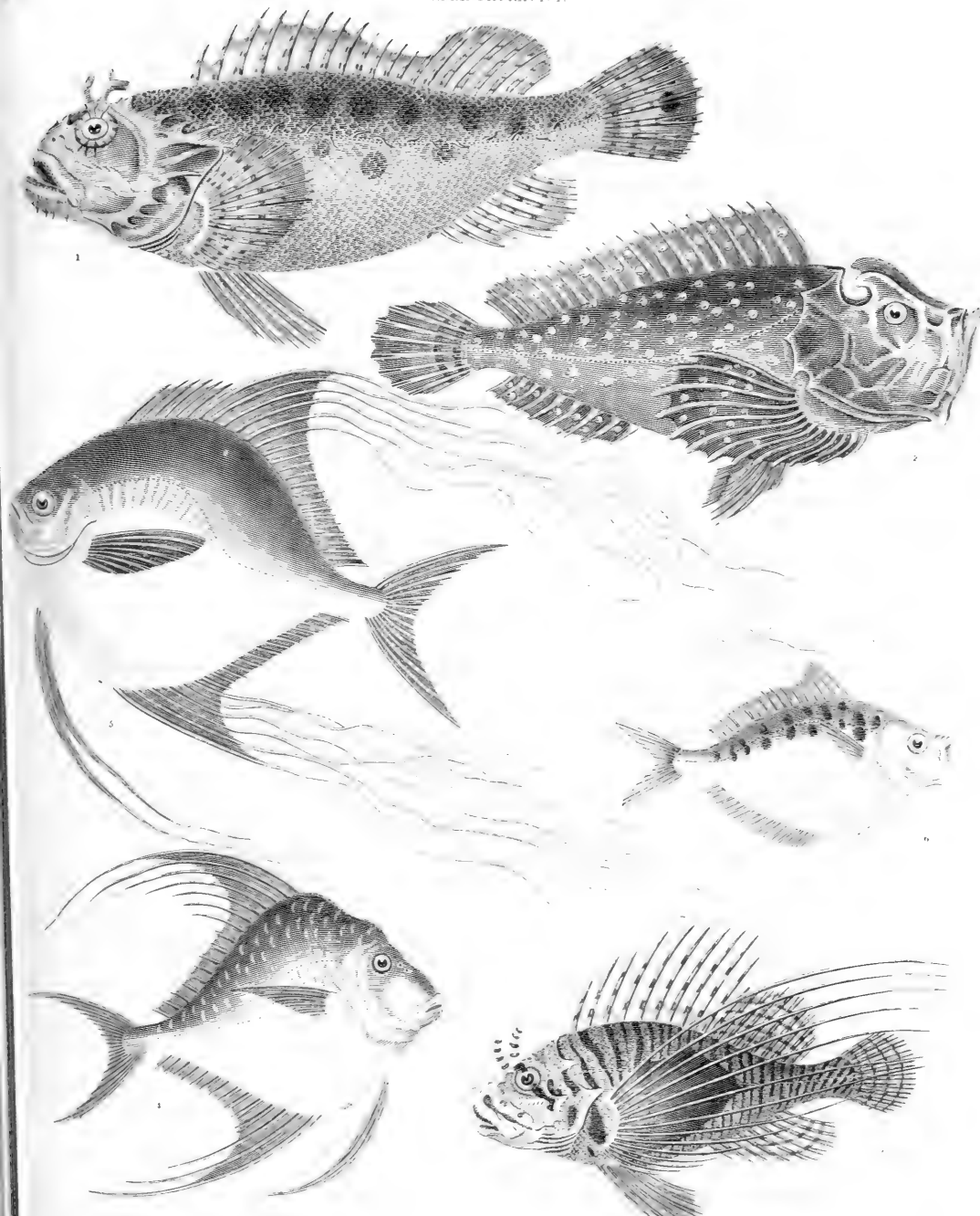
**G. ECHENEIS.**  
(Sucking Fish),  
2 *A. Remora*.  
**M. DILERICÆ INSE.**

**G. GORISC.**  
(Goby),  
3 *G. Minutus*.  
**SPOTTED G.**

**G. CORYPHÆNI.**  
(Coryphene)  
1 *C. Hippurus*.  
**COMMON C.**  
3 *C. Pandoctyla*.  
**FIVE SPOT C.**

Published in the 4th Article of 1, 2, 3, 4, Longman Street Row & 10, Paternoster Row.





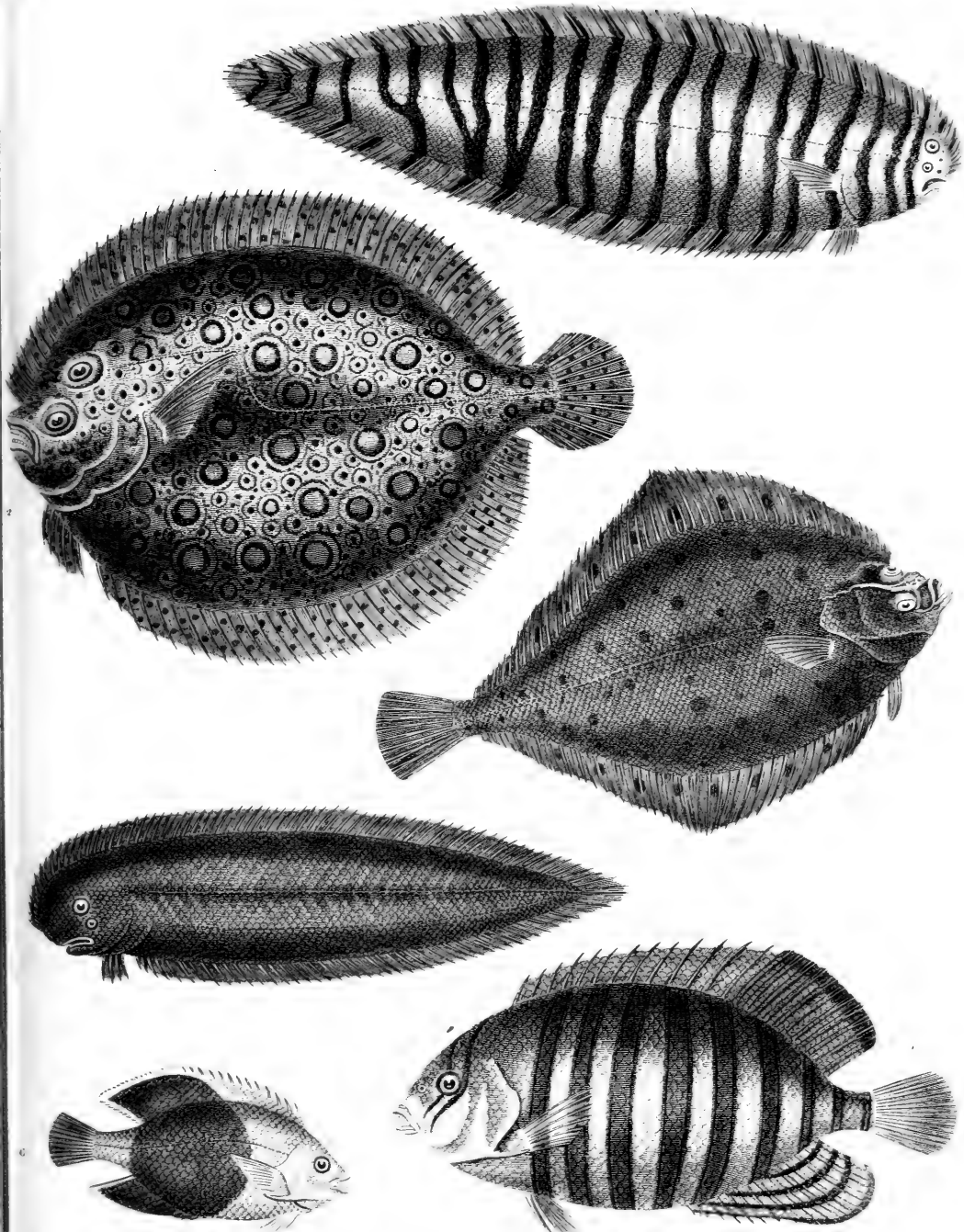
G. SCORPENA

GENUS ZEUS

1. *S. scorpa* - 2. *S. alborida* - 3. *S. antennata* - 4. *Z. callis* - 5. *Z. allaris* - 6. *Z. insidiator*







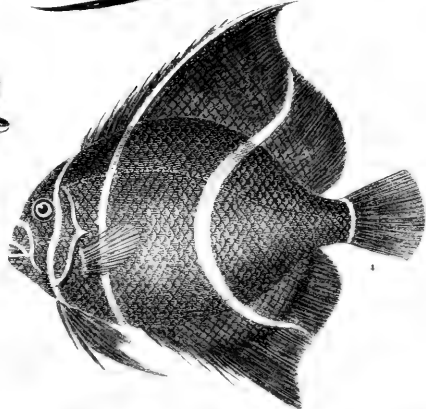
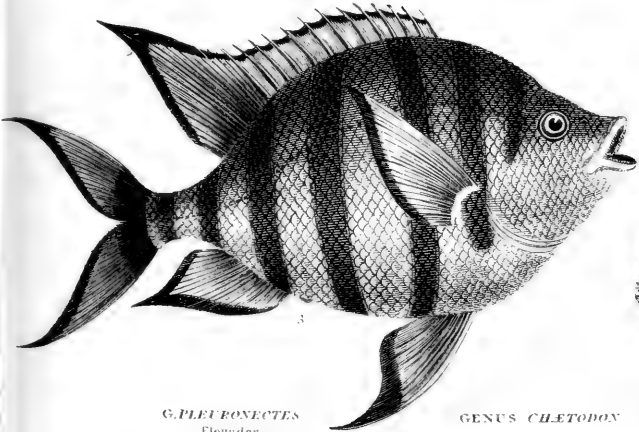
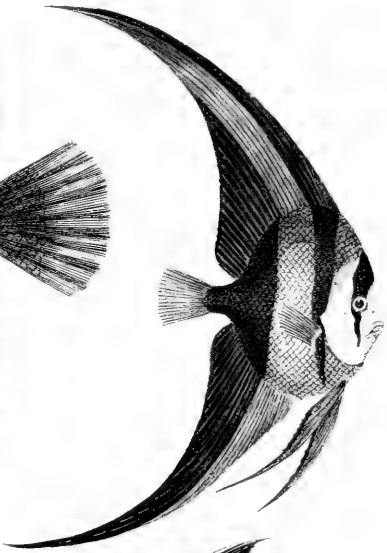
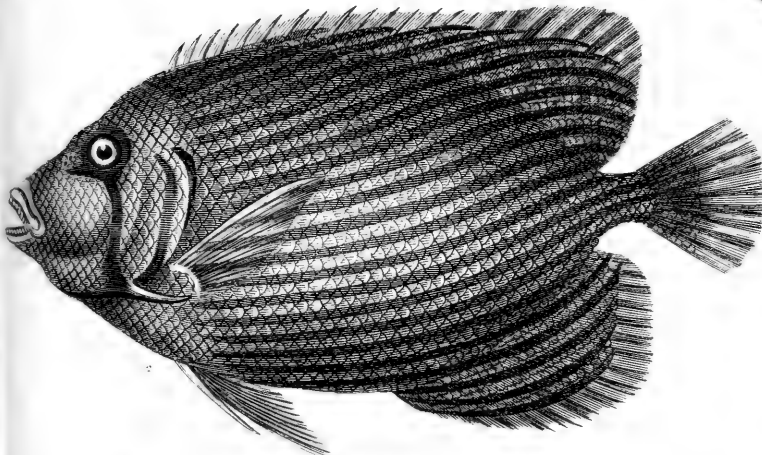
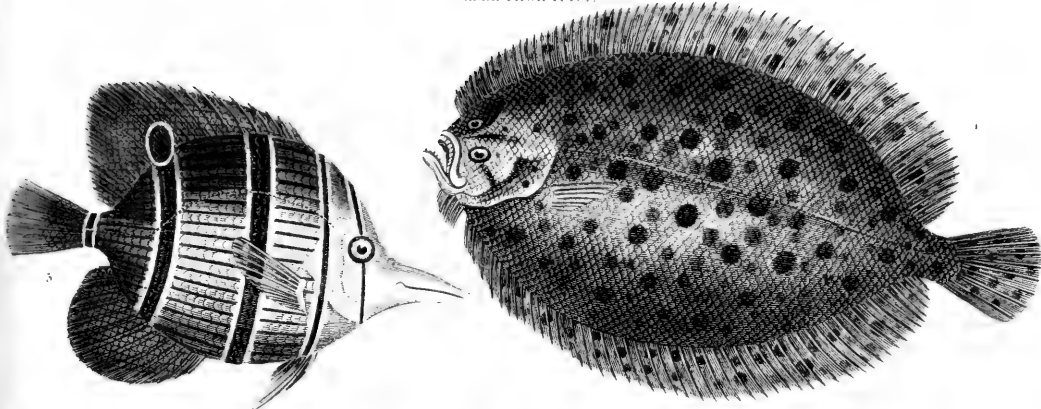
GENUS *PLEURONECTES*  
Flounder

*G. CHETODON*

1. *P. Zebra*. 2. *P. Argus*. 3. *P. Platessa*. 4. *P. Bullinatus*. 5. *C. Bicolor*. 6. *C. Fasciatus*.

Published as the Act directs April 1. 1879. By Leighton Hurst, Esq. Ornithologist & Botanist, R. S.





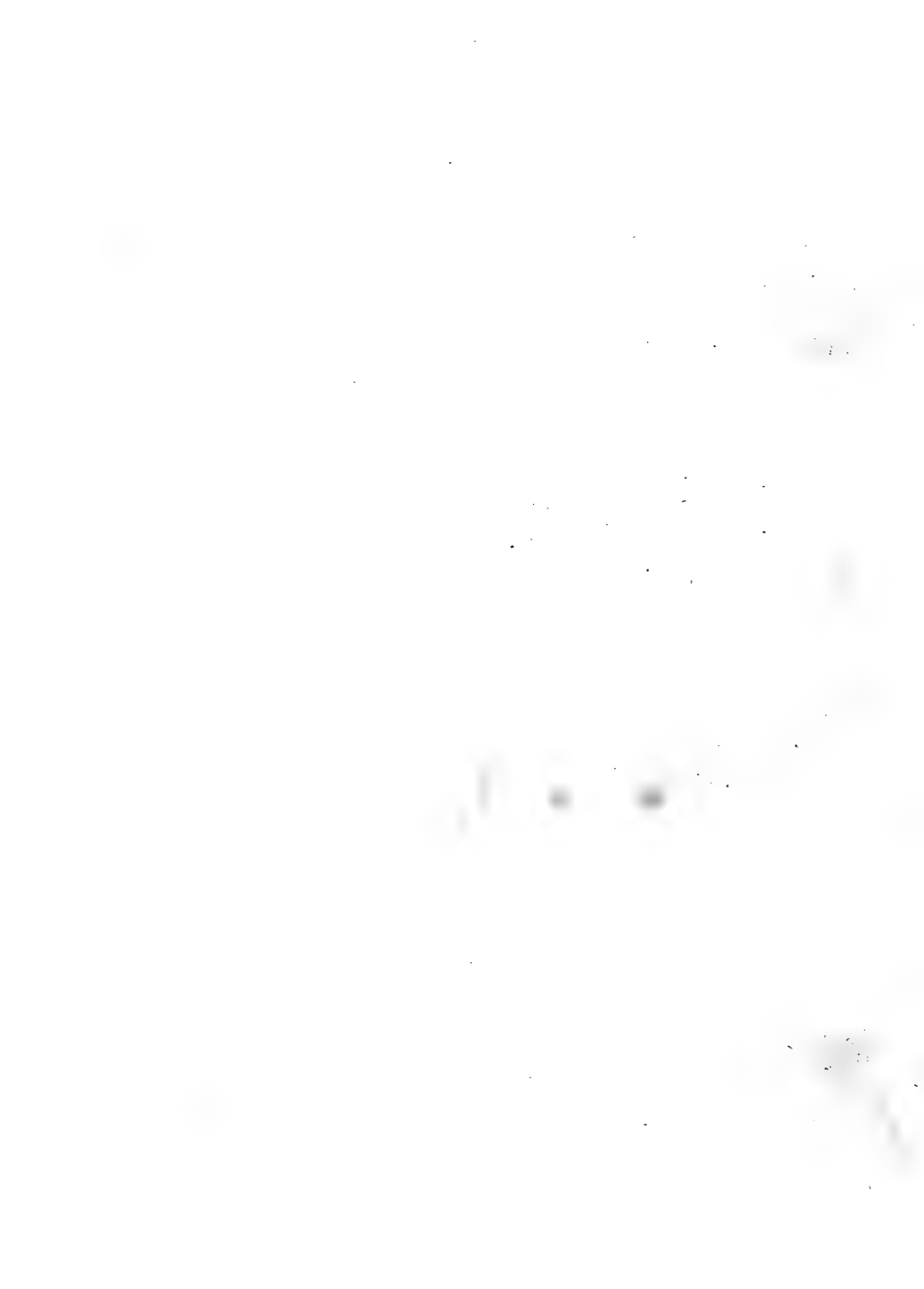
**G. PLEURONECTES**

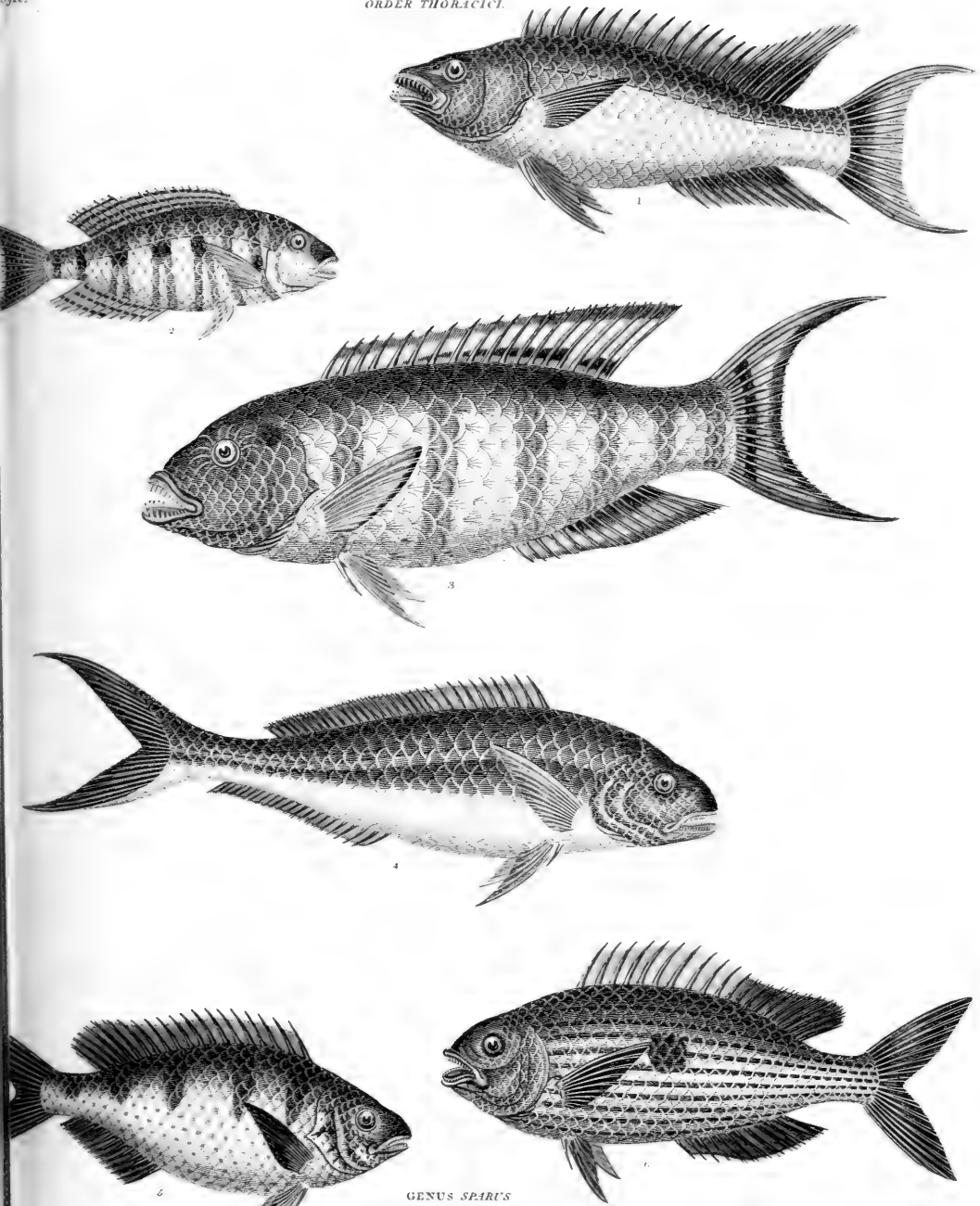
Flounder

**GENUS CHELTON**

1 *P. punctatus* 2 *C. imperator* 3 *C. marginatus* 4 *C. arcuatus* 5 *C. restratus* 6 *C. fira*

Published at the Art directed Nov 1 1881 by Longmans Green & Brown Paternoster Row



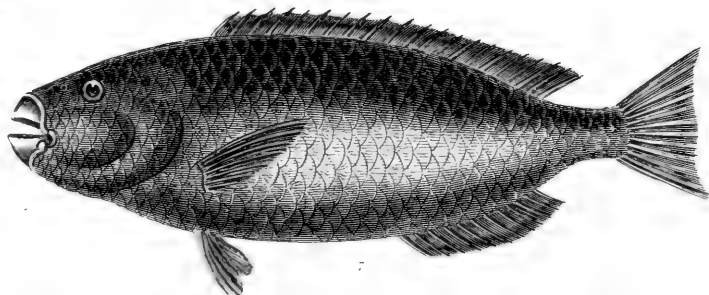
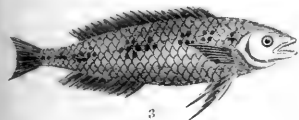
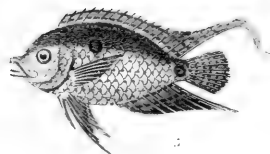
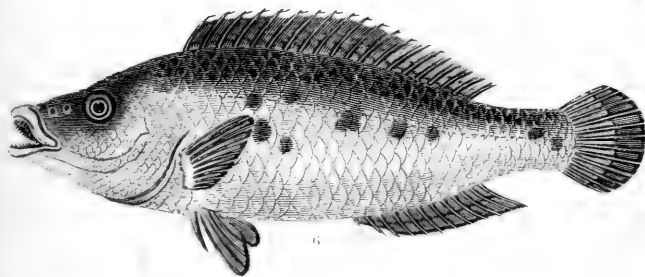
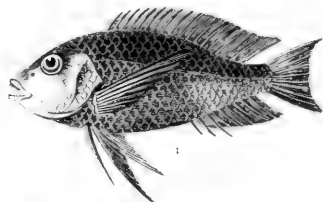
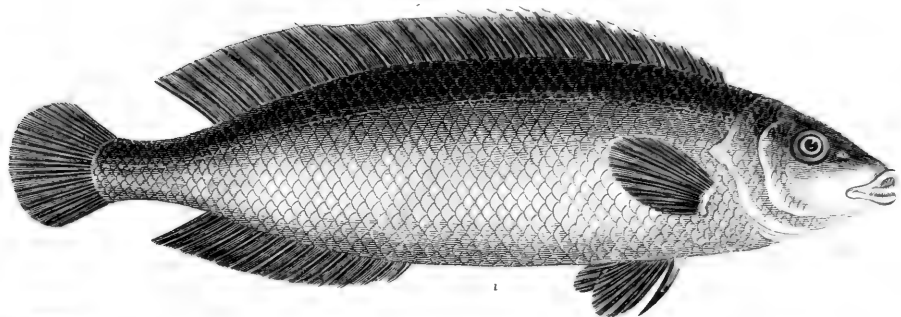


GENUS SPARUS  
(Gilt head)

- |                       |                           |                       |                         |                        |                    |
|-----------------------|---------------------------|-----------------------|-------------------------|------------------------|--------------------|
| 1. <i>S. falcatus</i> | 2. <i>S. Surinamensis</i> | 3. <i>S. tiliatus</i> | 4. <i>S. Chryssurus</i> | 5. <i>S. annularis</i> | 6. <i>S. magna</i> |
| FALCATED G.           | SURINAM G.                | RANDED G.             | GOLDEN TAIL G.          | ANNULATED G.           | CHACKEREL G.       |



ORDER THORACICI



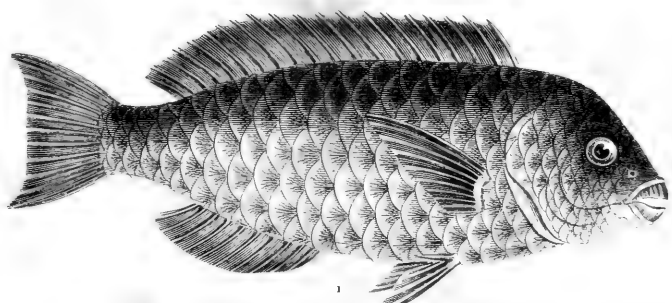
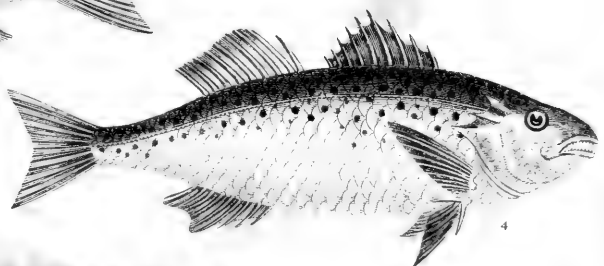
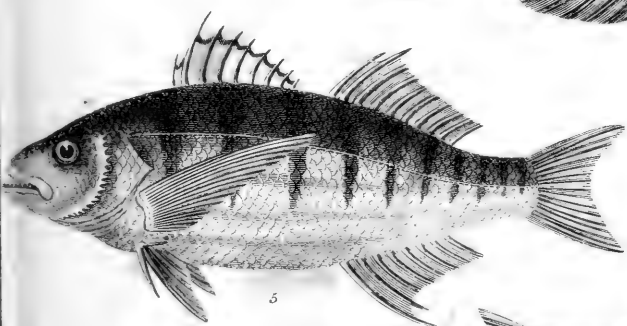
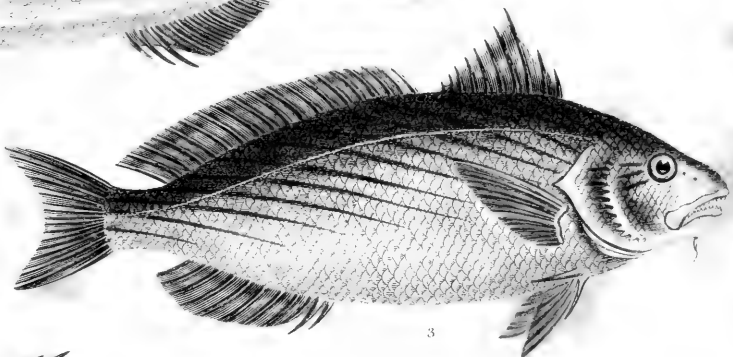
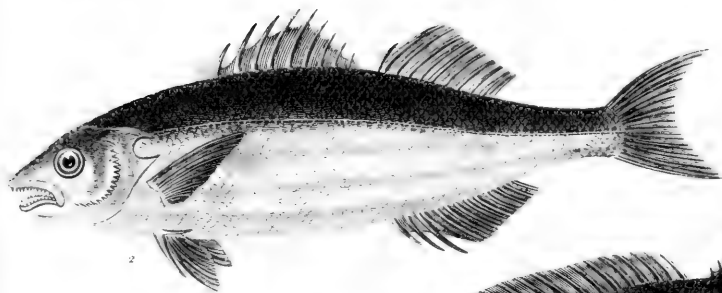
GENUS LABRUS

G. SCARUS

1. *microlepidotus* — 2. *trichopterus* — 3. *malopterus* — 4. *maculatus* — 5. *punctatus* — 6. *melagaster* — 7. *viridis*

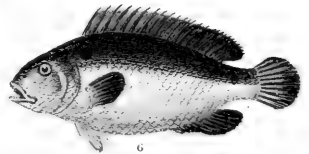
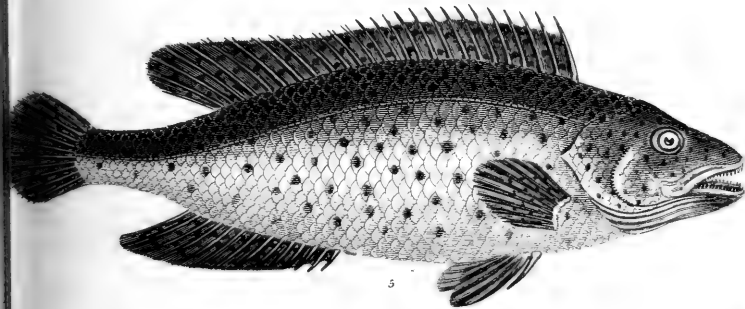
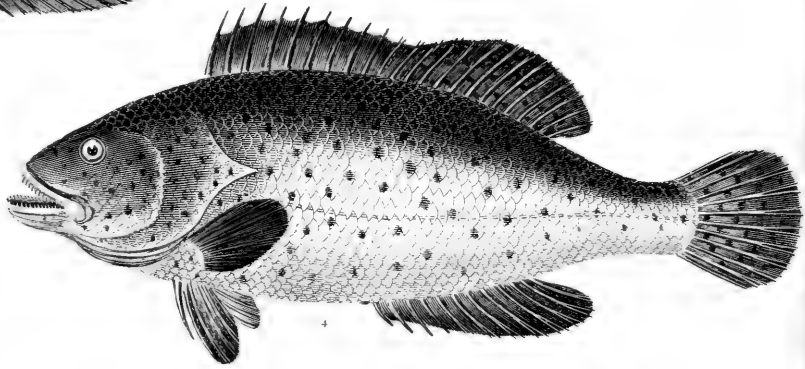
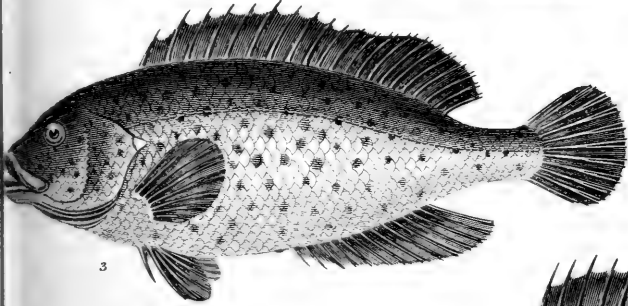
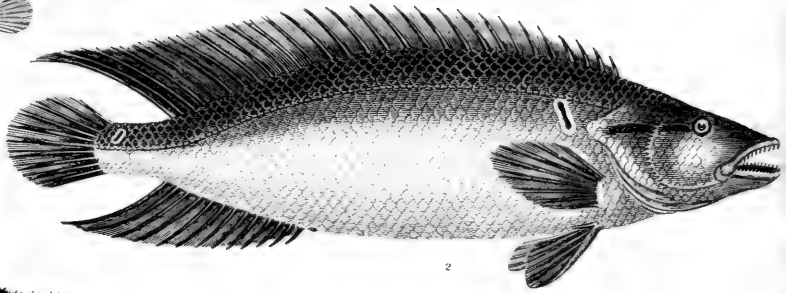
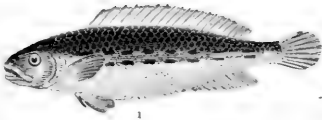






G. SCARUS                      GENUS    S. CLENA  
 1. S<sup>o</sup> cretensis    2. S<sup>o</sup> diaacantha    3. S<sup>o</sup> cirrosa    4. S<sup>o</sup> punctata    5. S<sup>o</sup> plumieri.





GENUS PERCA  
Perch)

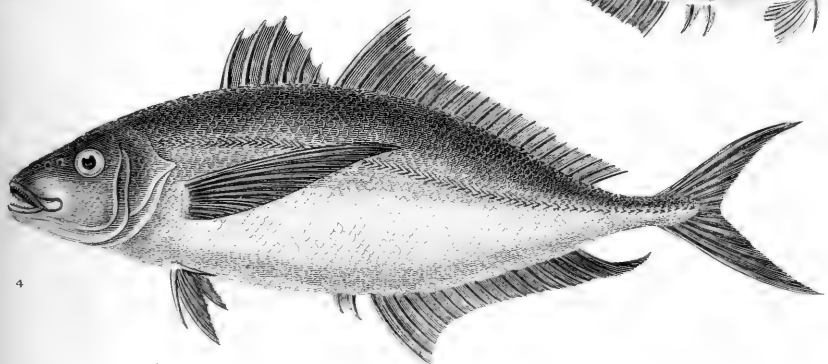
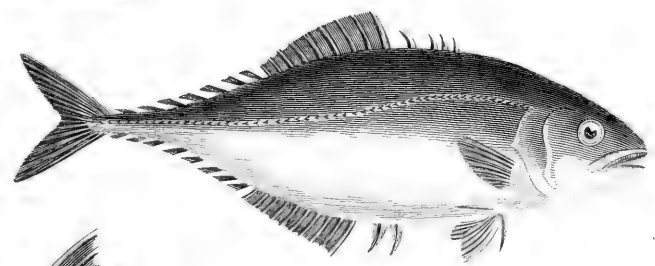
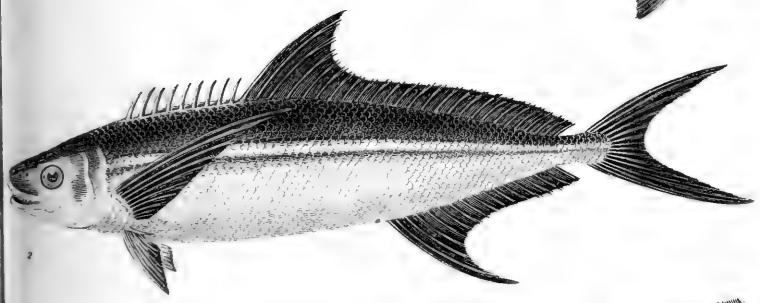
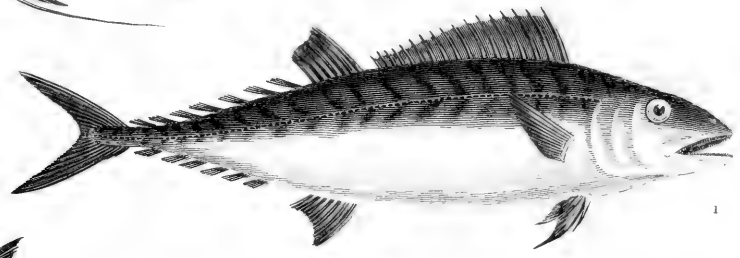
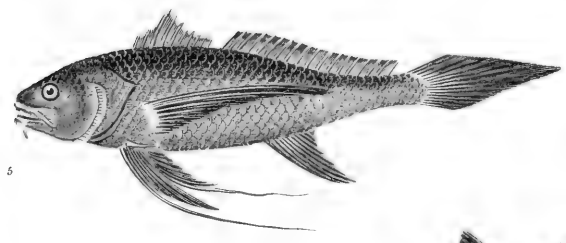
1. *P. brasiliensis* — 2. *P. saxatilis* — 3. *P. punctata* — 4. *P. guttata* — 5. *P. maculata* — 6. *P. bimaculata*.

Published as the Act directs, June 1<sup>st</sup> 1809, by Longman, Hurst, Rees & Orme, Printers to the King.









GENUS SCOMBER  
Mackerel

GENUS LONCHURUS

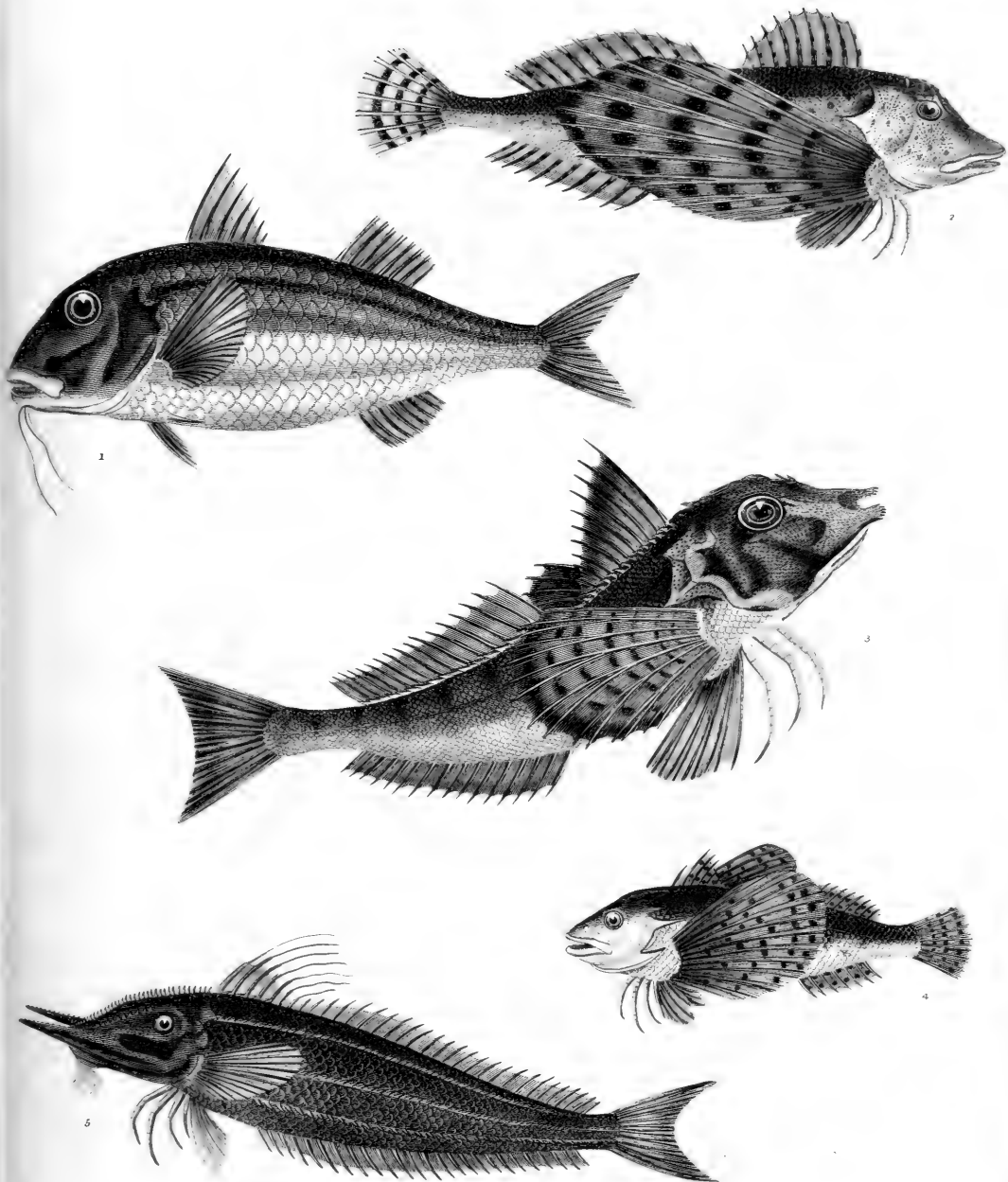
1. *S. Sarda*    2. *S. Niger*    3. *S. Saliens*    4. *S. Ruber*    5. *L. Barbatius*

M.DCCC.LXV

Published as the Act directs, July 21<sup>st</sup> 1816, by Longman Hurst, Rees, Orme & Brown, Paternoster-Row.







G. MULLUS  
Mullet

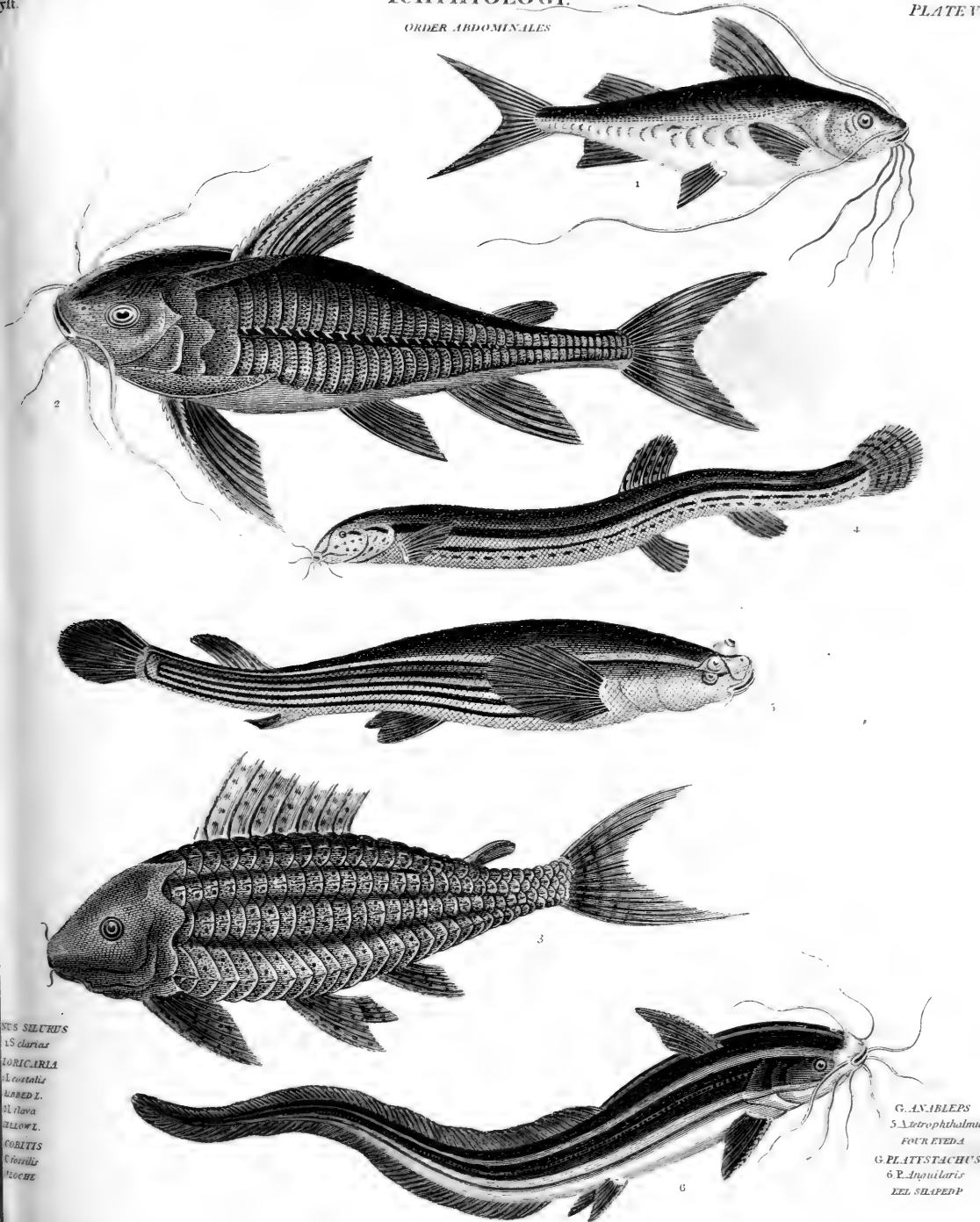
GENUS TRIGLA  
(Gurnard)

1. *M. Surmuleus* — 2. *T. Carolina* — 3. *T. Hirundo* — 4. *T. Punctata* — 5. *T. Cataphractus*.

Published as the Act directs, June 1857, by Longman Hurst, Esq. & Brown, Paternoster Row



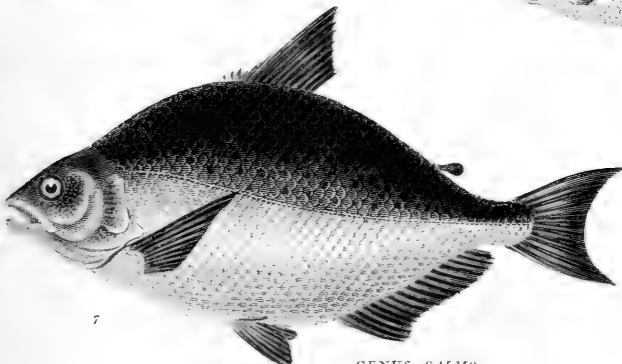
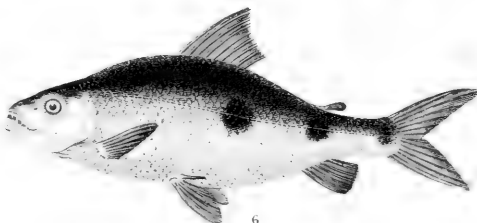
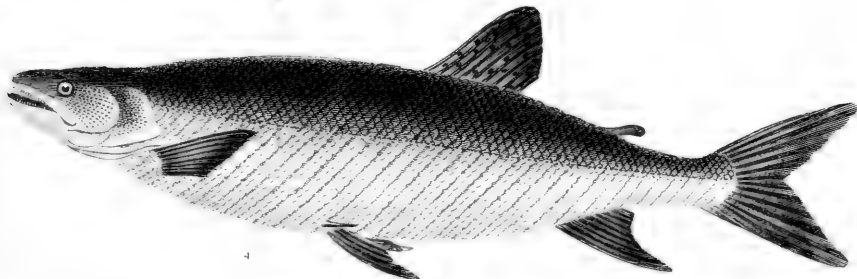
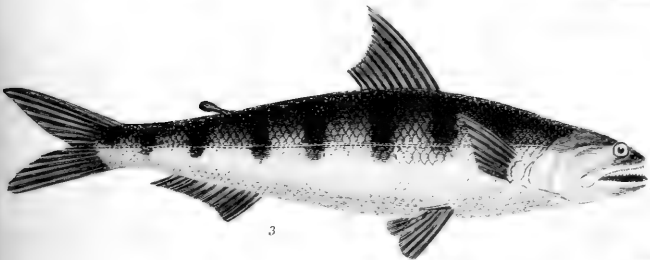
yt.



S. SILURUS  
 S. clarus  
 LORICATA  
 L. costalis  
 L. flavo  
 L. yellow  
 COBITIS  
 C. gracilis  
 MOCHE

G. ANBLEPS  
 5. A. zotophthalmus  
 FOUR EYED  
 G. PLATYSTACHUS  
 6. P. anguillar  
 EEL SLAYER





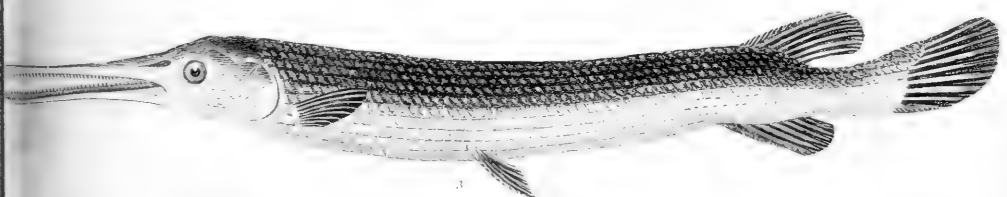
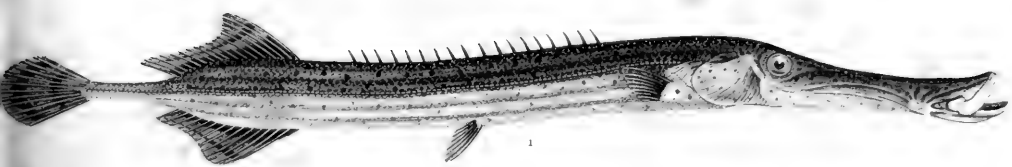
GENUS SALMO

Salmon

1 *S. Bimaculatus* - 2 *S. Fasciatus* - 3 *S. Tambil* - 4 *S. Odoc* - 5 *S. Gasteropelecus* - 6 *S. Friderici* - 7 *S. Rhombus*

Published as the Act directs. July 1<sup>st</sup> 1871 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row





**FISTULARIA**

(Tobacco Pipe Fish)

1. *F. chilensis*

2. *F. tubararia*

3. *F. oceanus*

**GEN. ESOX**

(Sea Pike or Gar Fish)

4. *E. luciae*

5. *E. brasiliensis*

**ELOPS**

**ARGENTINA**

(Argentine)

6. *E. luciae*

7. *A. ophiocera*

CHINESE TOBACCO P.F.    SPOTTED TOBACCO P.F.

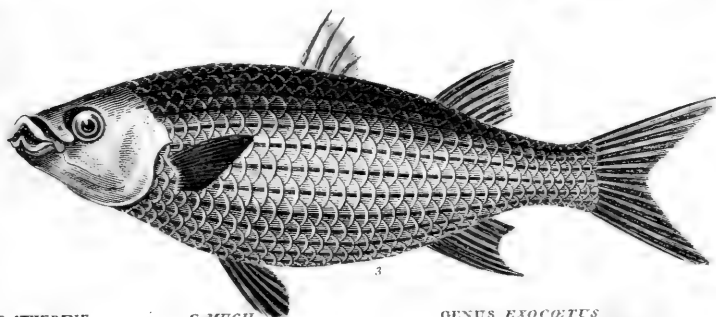
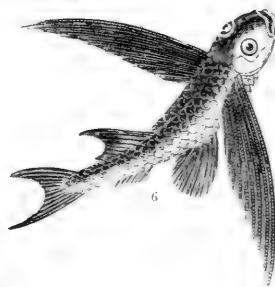
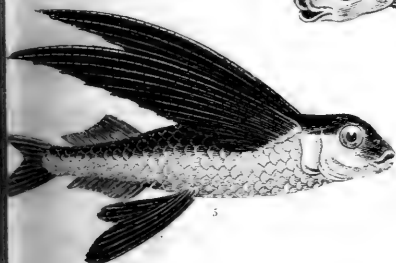
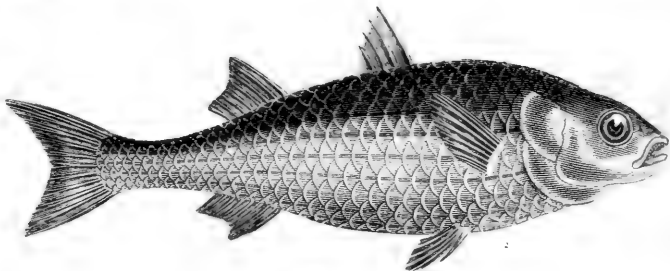
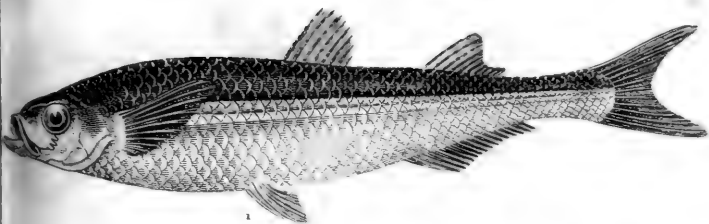
OR GAR FISH OR ROVY P.    SEA PIKE OR GAR F.

BRASILIAN P.

EUROPEAN A.







**G.ATHERINE**  
(Atherine)  
1. *A. lepectus*

**G. MUGIL**  
(Mullet)  
2. *M. tang* 3. *M. cephalus*

**GENUS EXOCETUS**  
(Flying Fish)  
4. *E. volans* 5. *E. cailliaui* 6. *E. meogaster*

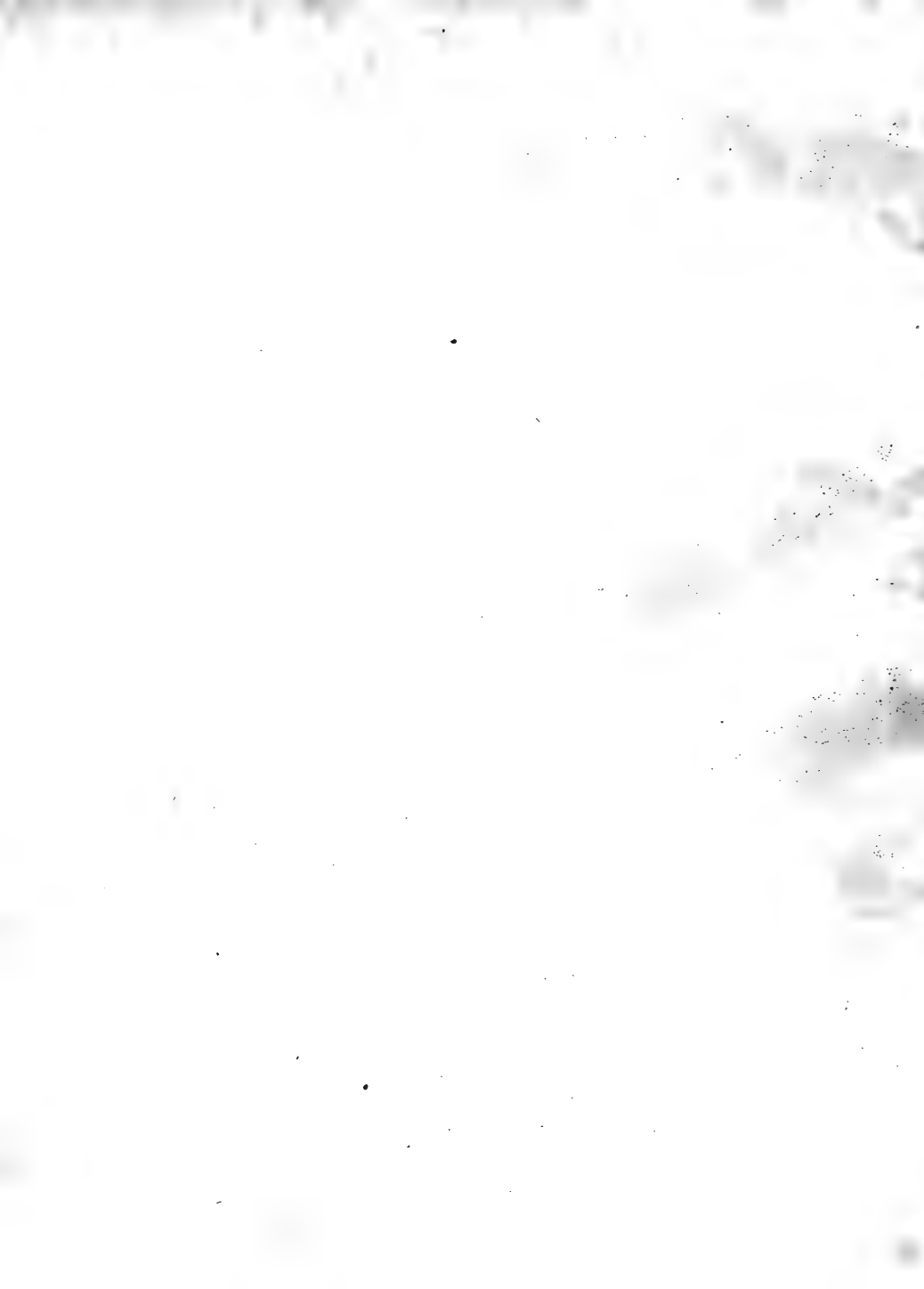
COMMON ATHERINE

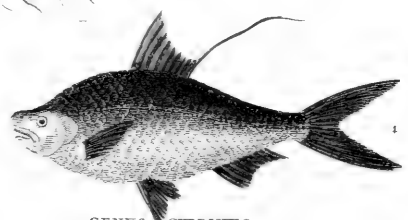
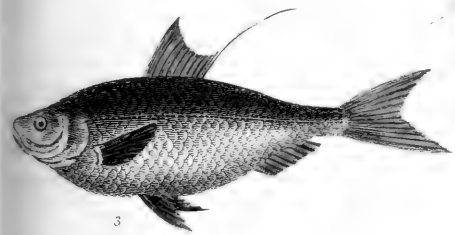
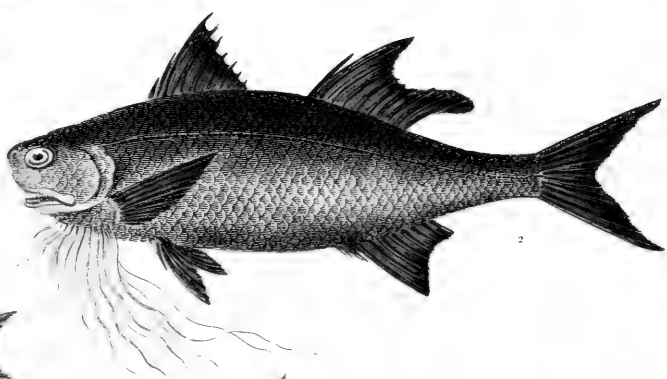
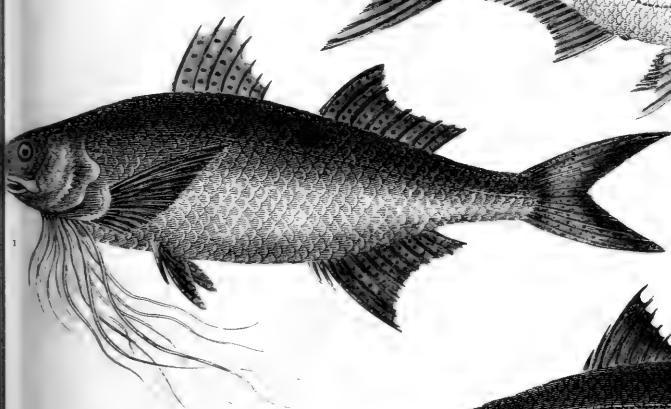
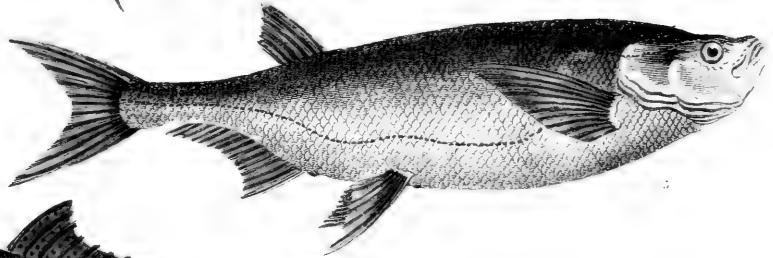
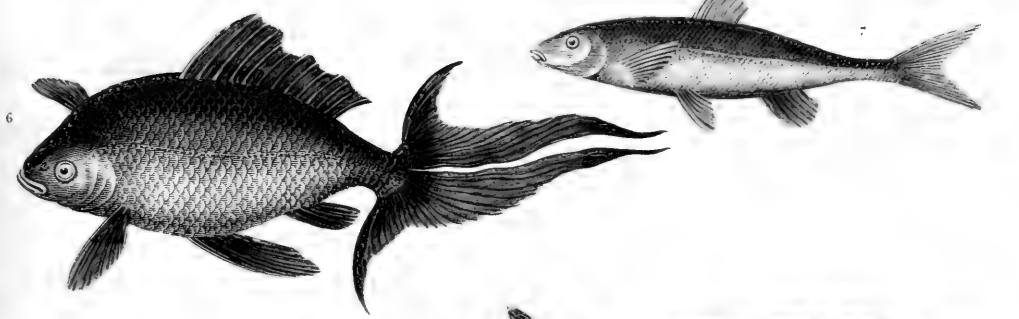
TANG M.

GREY M.

MEDITERRANEAN EE.

SWALLOWEE ATLANTIC EE.



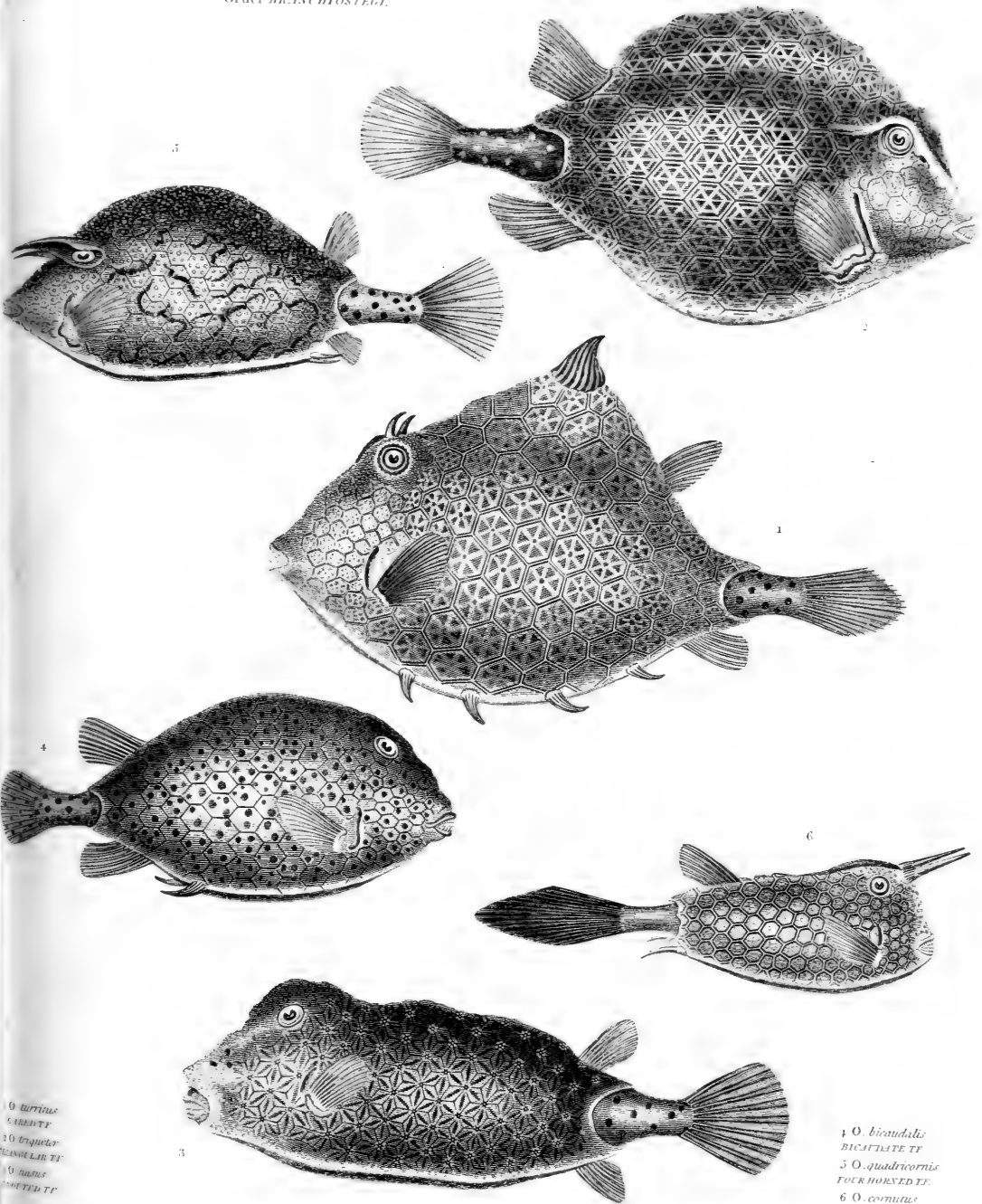


<b>G. POLYNEMUS</b> Polynemus		<b>G. CLUPEI</b> Herring		<b>GENUS CYPRINUS</b>		
1. <i>P. Paradicus</i>	2. <i>P. Decadactylus</i>	3. <i>C. Triessa</i>	4. <i>C. Nasus</i>	5. <i>C. Cultratus</i>	6. <i>C. Auratus</i>	7. <i>C. Phosrinus</i>
PARADISE F	TEN FINGERED F	FLORISSAH.	NASALH.	RAZOR C.	GOLDFEN C. var	MINNOW

Milner sculp



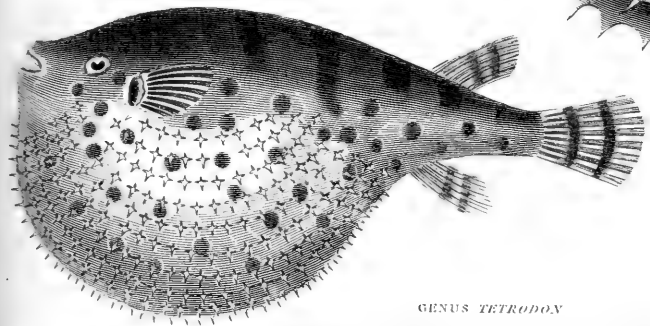
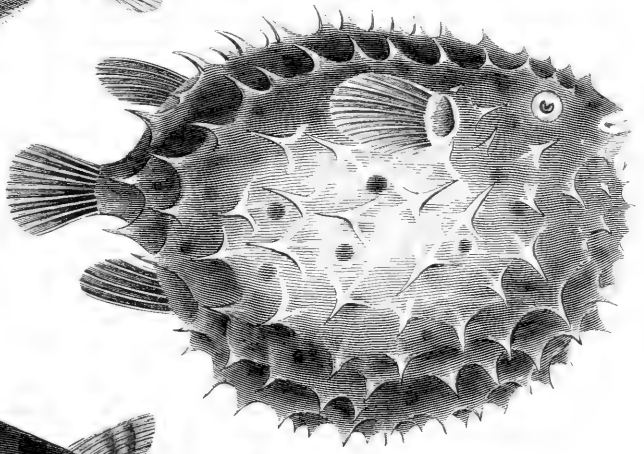
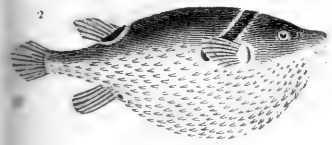
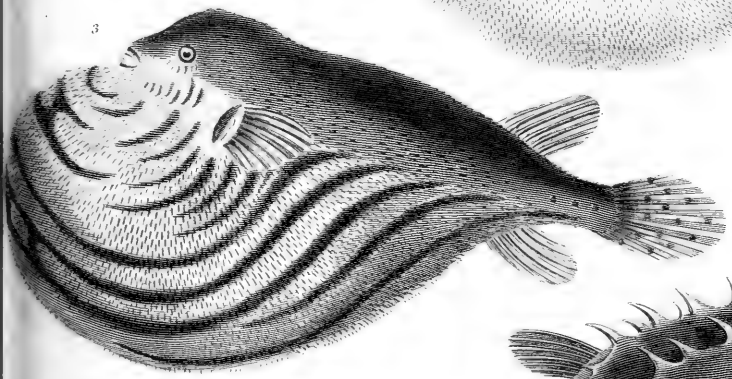
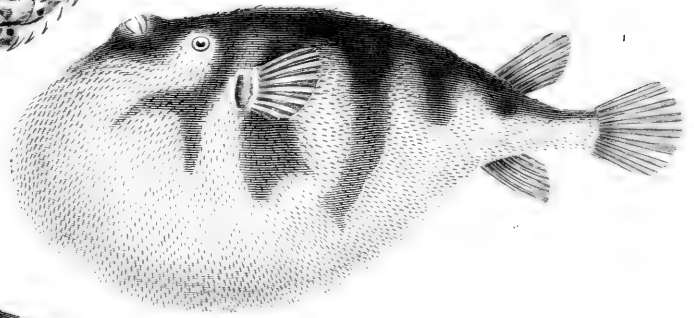
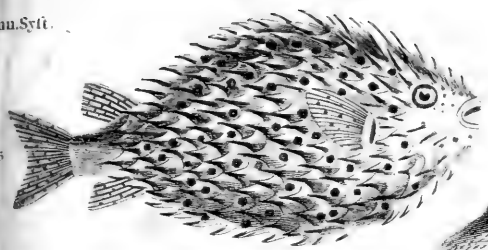
Order BRACHYOSTEGI.



1 O. bispinatus  
 2 O. quadricornis  
 3 O. triquetrum  
 4 O. hexactis  
 5 O. cornutus  
 6 O. bispinatus

1 O. bispinatus  
 2 O. quadricornis  
 3 O. triquetrum  
 4 O. hexactis  
 5 O. cornutus  
 6 O. bispinatus





GENUS TETRODOX

G. Diodon

- |                      |                     |                      |                         |                 |                        |
|----------------------|---------------------|----------------------|-------------------------|-----------------|------------------------|
| 1 <i>T. hispidus</i> | 2 <i>Cocillanus</i> | 3 <i>T. lineatus</i> | 4 <i>T. globocarpus</i> | 5 <i>Diodon</i> | 6 <i>Diosbacularis</i> |
| HAIRD T.             | OCCELLATED.         | LINED T.             | HARE T.                 | FORCIFIED.      | ROUND.                 |

Published at the University of London Press, Ltd., 10, Bedford Square, W.C.1.





Order Branchiostegi.

GENUS *SINGNATHUS* G. *PEGASUS* G. *CENTRISCUS*

Pipe Fish

Pegasus

Centricen

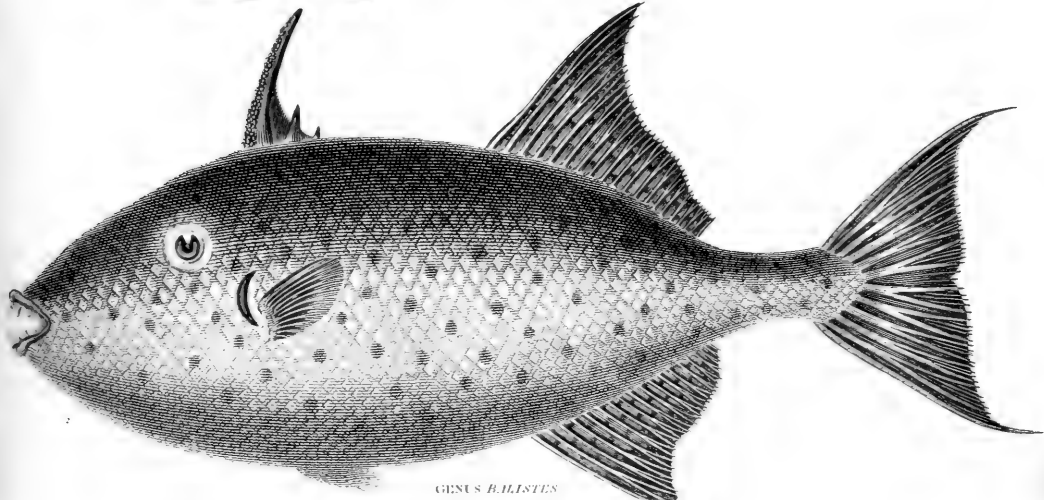
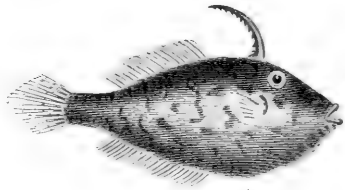
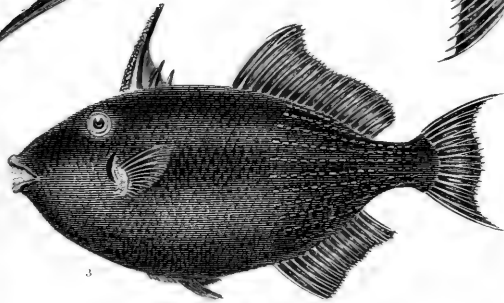
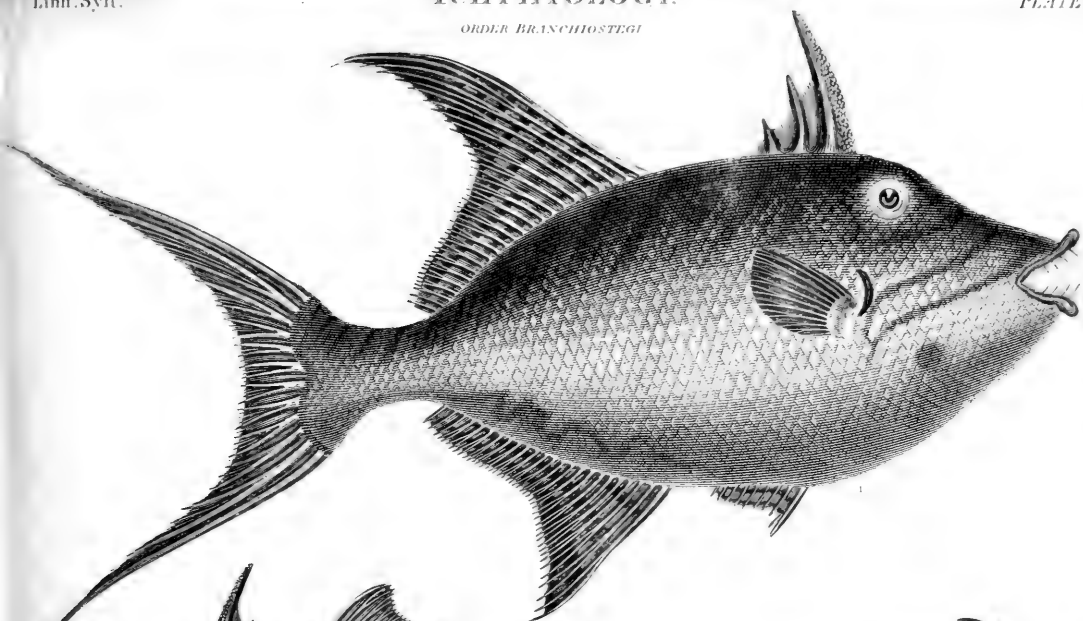


1. *S. foliatus* FOLiated P.F.    2. *S. acut* GREAT P.F.    3. *S. hipposympus* SEA HORSE P.F.    4. *P. droco* DRAGON P.    5. *P. natans* SWIMMING P.    6. *C. scutatus* MALLEd C.    + *magnirod* *Wunderwurth*

Published as the 1st division April 1. 1853 by Longman Hurst, Ross, Orme & Brown, Paternoster Row



ORDER BRANCHIOSTEGI



1. *B. Actus*  
OLD WIFE.

2. *B. Maculatus*  
SPOTTED OW

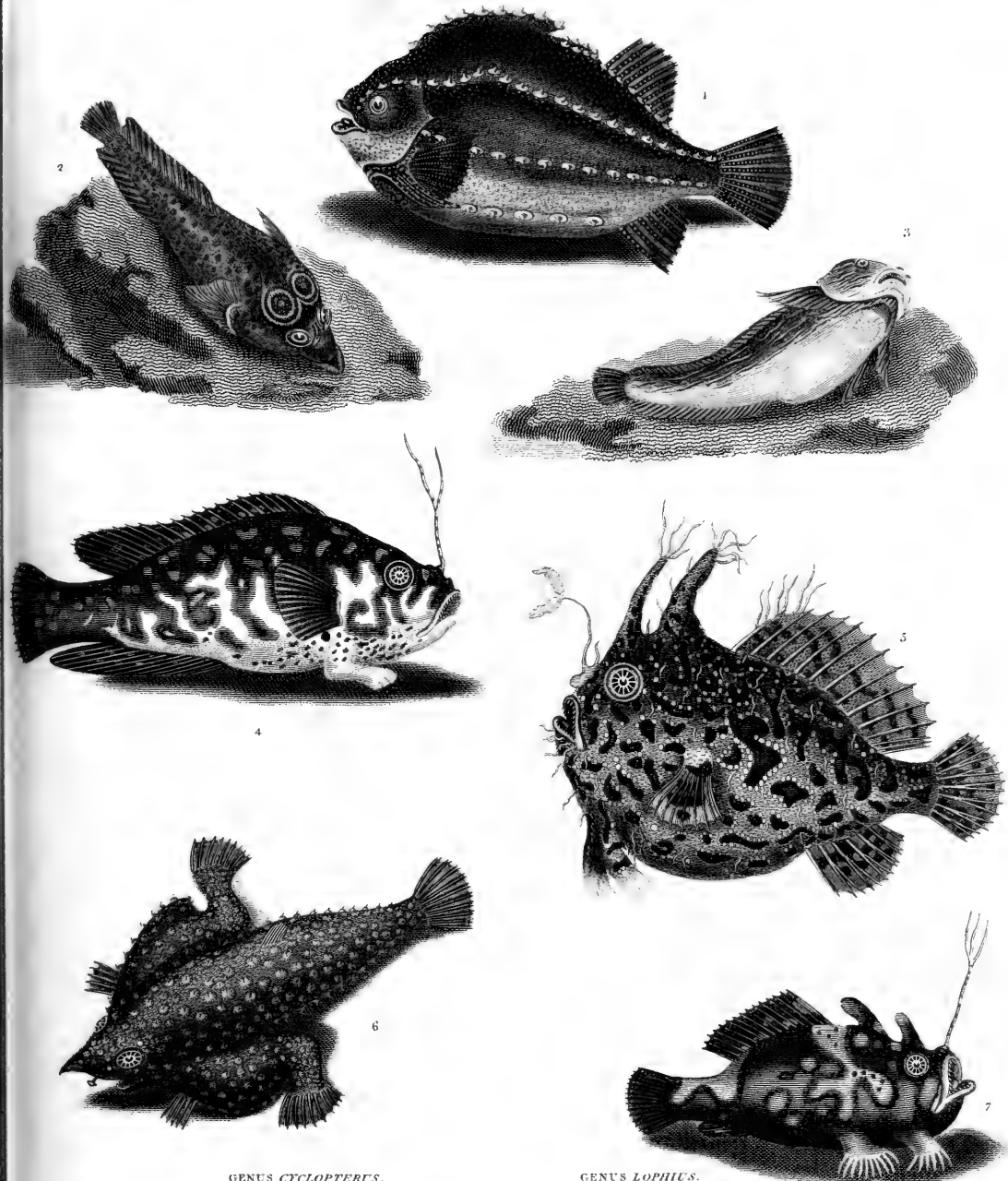
GENUS BALISTES  
Old Wife or File fish

3. *B. Latissus*  
ACUTE-TAILED OW

4. *B. Monoceros*  
ONE HORNED OW

Published at the Art Store, Jan. 1852, by Benjamin H. Wall, Boston. Est. 1827.





GENUS CYCLOPTERUS.

(Sucker)

1. *C. Lumpus*

2. *C. Ocellatus*

3. *C. Lineatus*

4. *L. Marmorata*

5. *L. Mistris*

6. *L. Rostratus*

7. *L. Pictus*

LUMP S.

OCCELLATED S.

LINEATED S.

MARbled S.

MARbled S.

BEARed S.

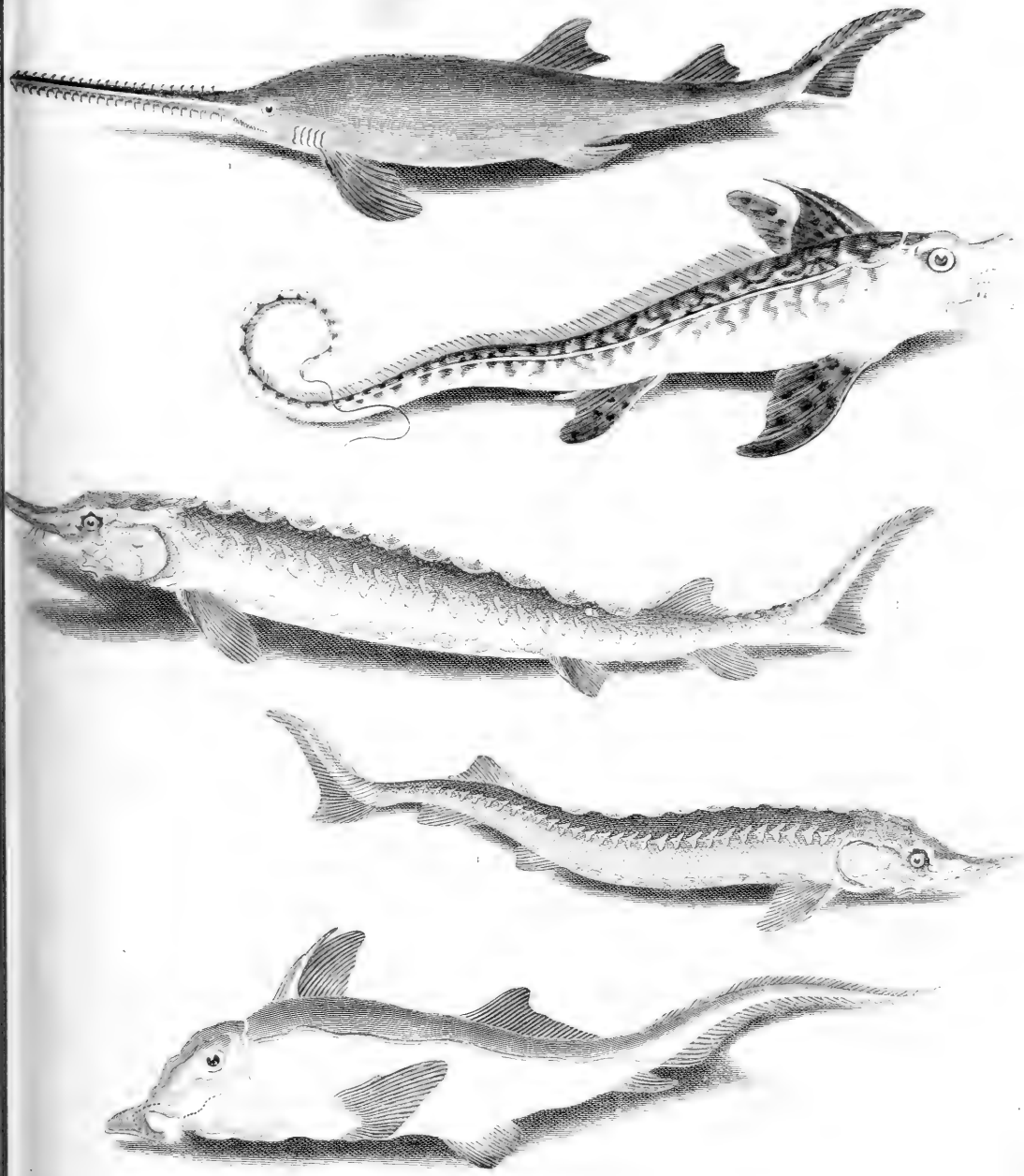
PAINTed S.

GENUS LOPHIUS.

(Angler)



ICHTHYOLOGY.  
ORDER CHONDROPHYGH.  
Gen. Acipenser G. Chimæra G. Pristis.

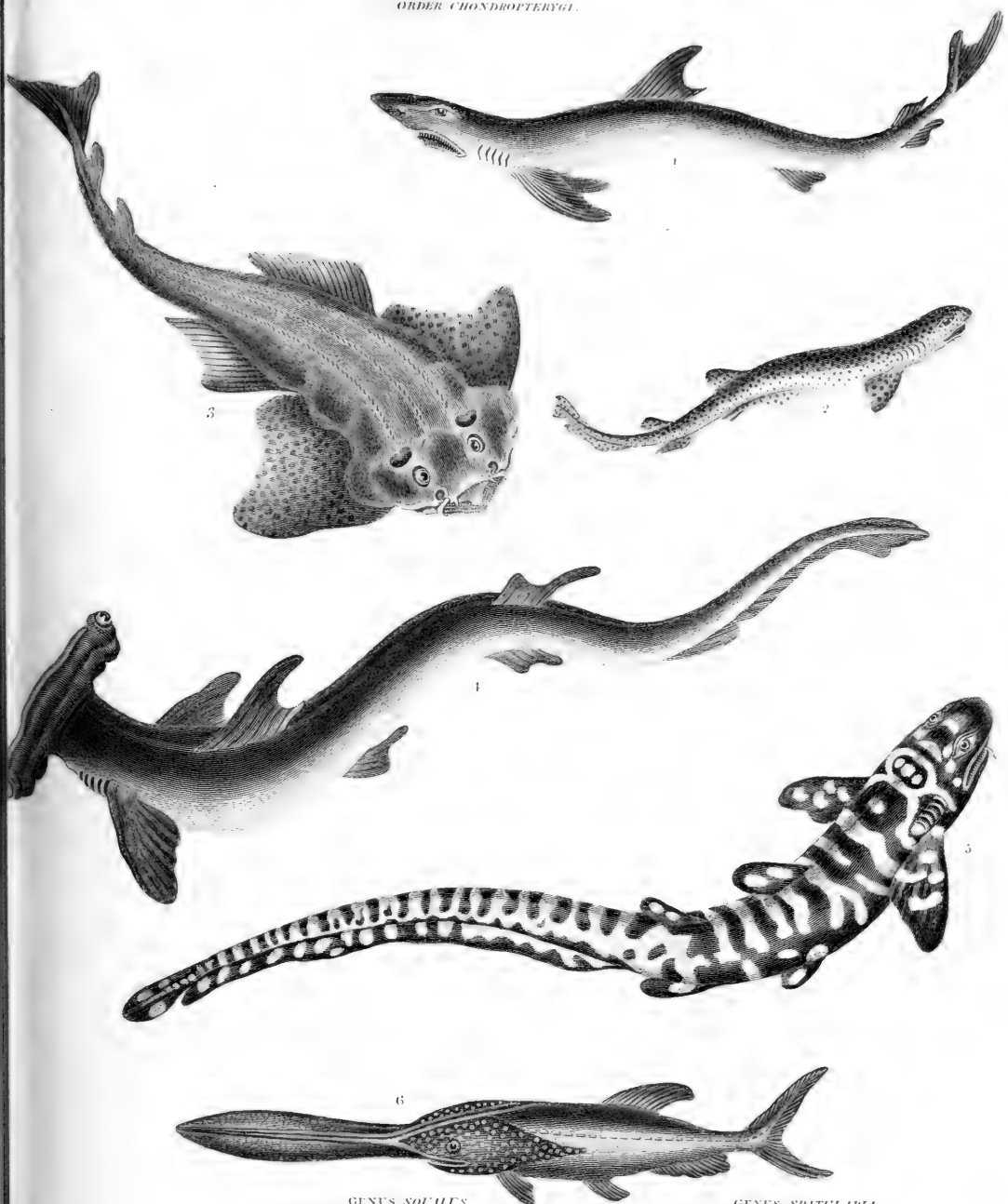


1. <i>P. Antiquorum</i>	2. <i>C. monstrosa</i>	3. <i>A. albatris</i>	4. <i>A. kishinouyei</i>	5. <i>C. Colubrinus</i>
COMMON SAW-FISH	SEA MONSTER	STURGEON	SHARK	SOUTHERN C.

Published at the Art Directors Office by Longman, Hurst, Rees & Orme, Paternoster Row.







1. *Clavus*  
BLUE S.

2. *S. Catulus*  
LESSER SPOTTED DOG FISH.

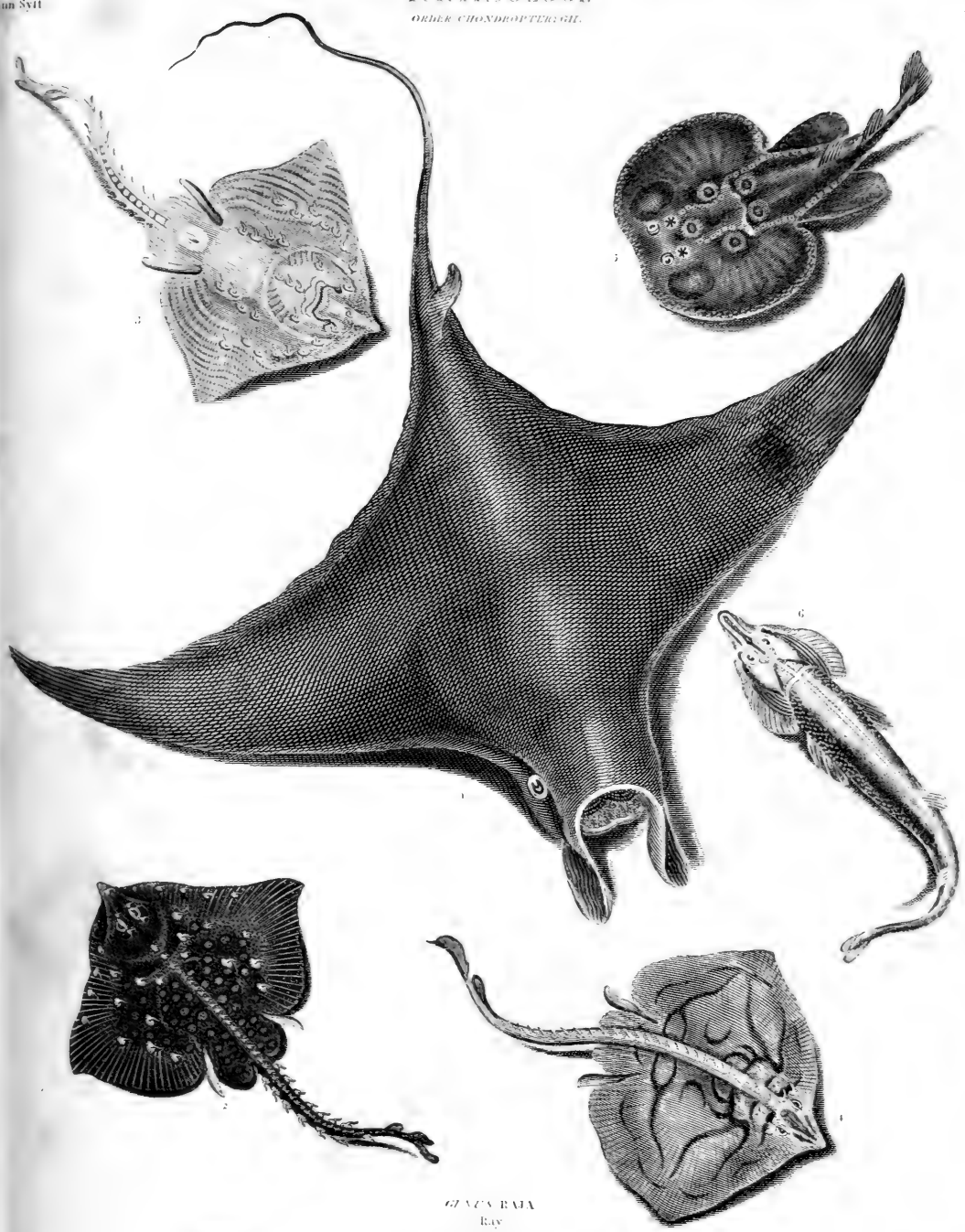
GENUS *SQUALUS*  
(Shark)  
3. *S. Squatina*  
ANGEL S.

4. *S. Zygaena*  
HAMMERHEADED S.

5. *S. Zebra*  
ZEBRA S.

GENUS *SPATULARIA*  
6. *Sp. reticulata*  
RETICULATED SP.





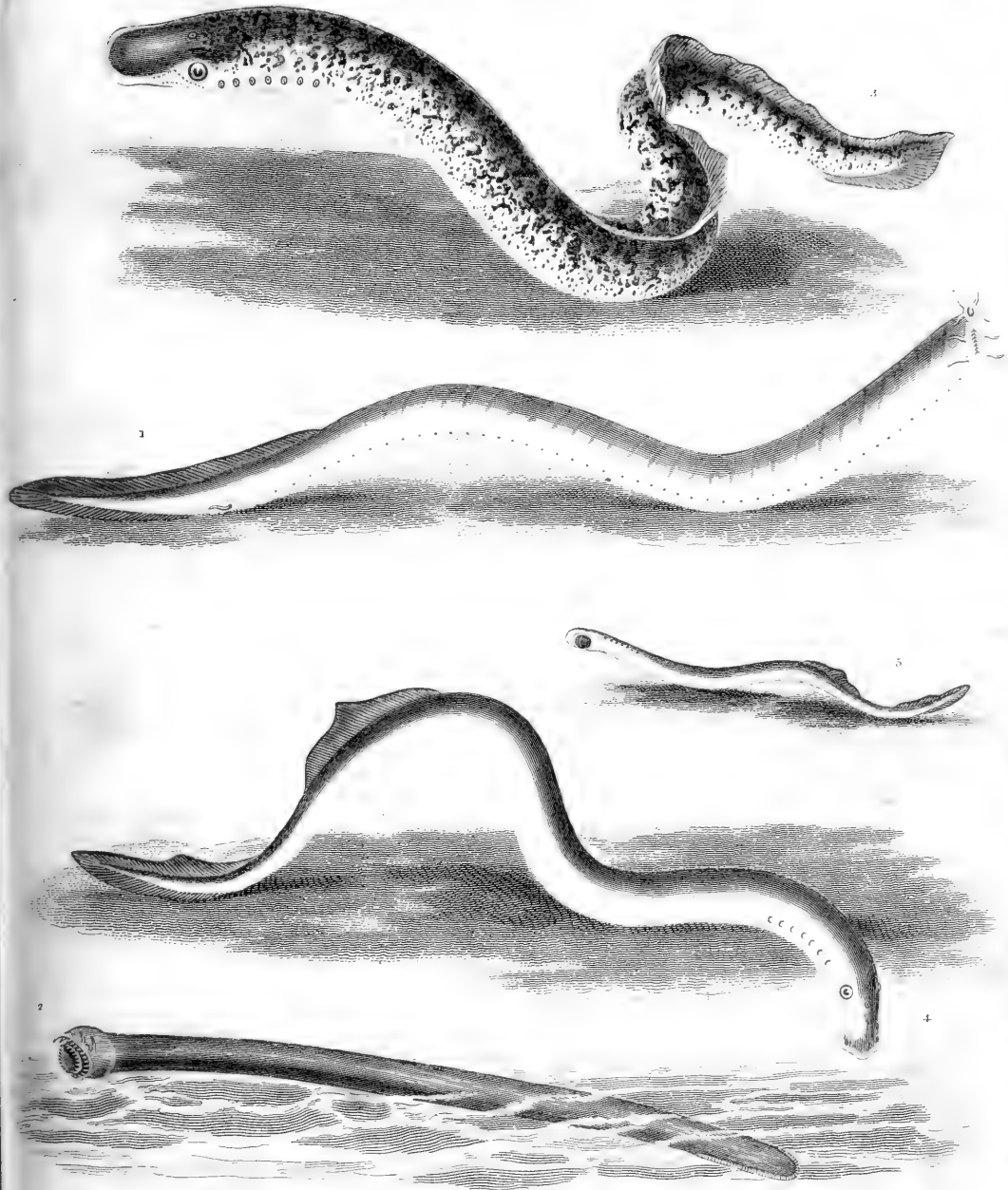
GLACIS RAYA  
Ray

- |                      |                      |                        |                      |                         |
|----------------------|----------------------|------------------------|----------------------|-------------------------|
| 1. <i>Ediobata</i> . | 2. <i>R. asata</i> . | 3. <i>R. radiata</i> . | 4. <i>R. opata</i> . | 5. <i>R. rhombata</i> . |
| DAESON R.            | TURNBACK             | WATER                  | WATER                | LONG NOSE R.            |

Published by G. & C. Whittaker, 10, Northumberland Street, London, W. 1.



ICHTHYOLOGY.  
ORDER CHONDROPTERYGII



G. GASTROBLINCHUS                      GENUS PETROMYZON  
 1 G. Coecus - 2 G. Dombeyi - 3 P. marinus - 4 P. fluvialis - 5 P. fluvialis Jun?  
 Hag Fish    Dombeyan HF. Marine Lamprey    River Lamp?    under surface

Michx. sculp

Published as the Art Director, No. 1 1897, by L. W. Brown, in *Horst, Rosa Orme & Pison's International Zoo*



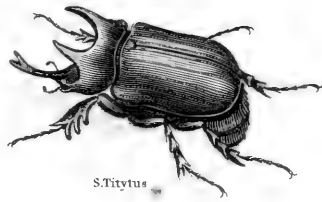
# ENTOMOLOGY

Order Coleoptera.

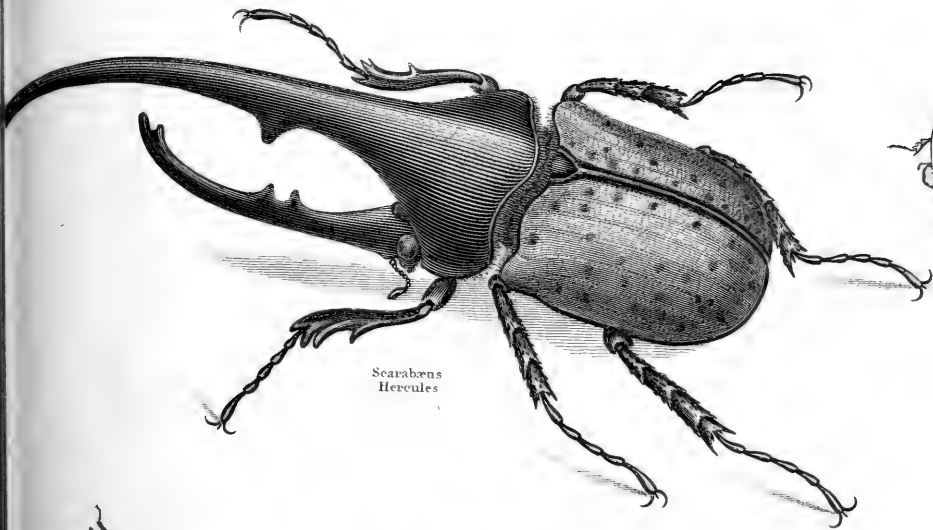
GENUS SCARABÆUS.



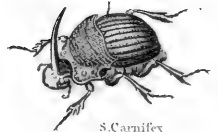
S. Chorinæus



S. Titytus



Scarabæus  
Hercules



S. Carnifex  
mal.



S. Carnifex  
female



S. Molossus



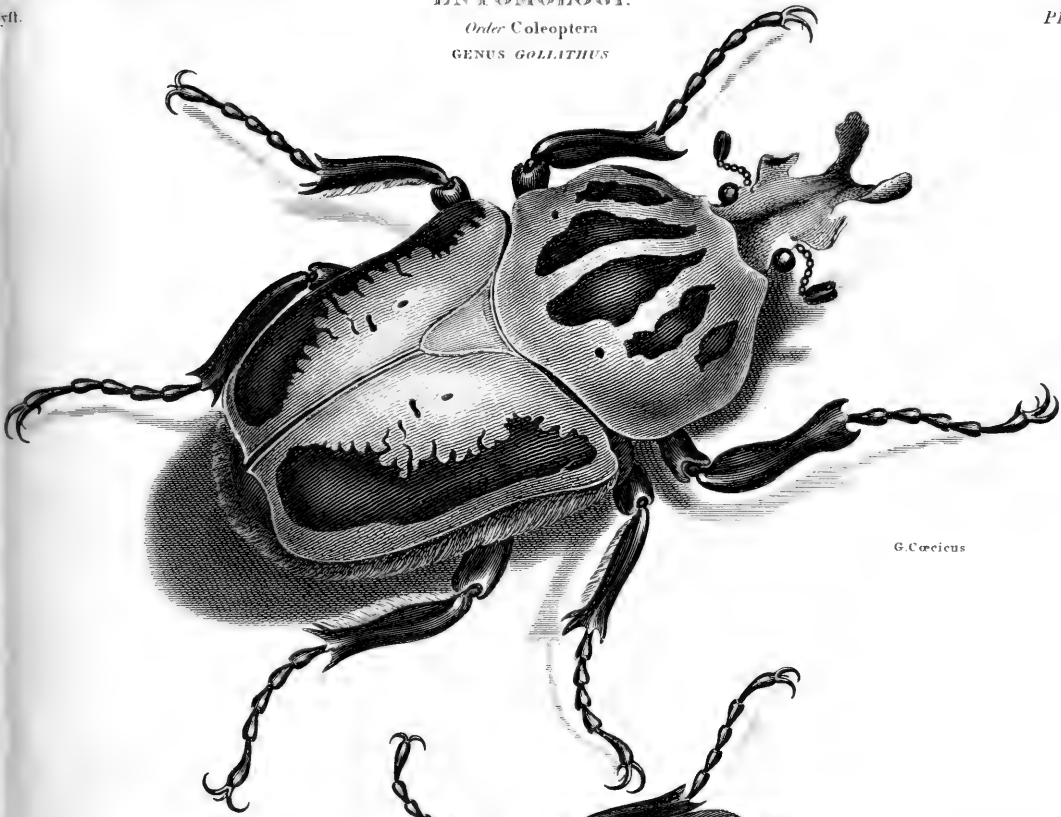
S. Sacer



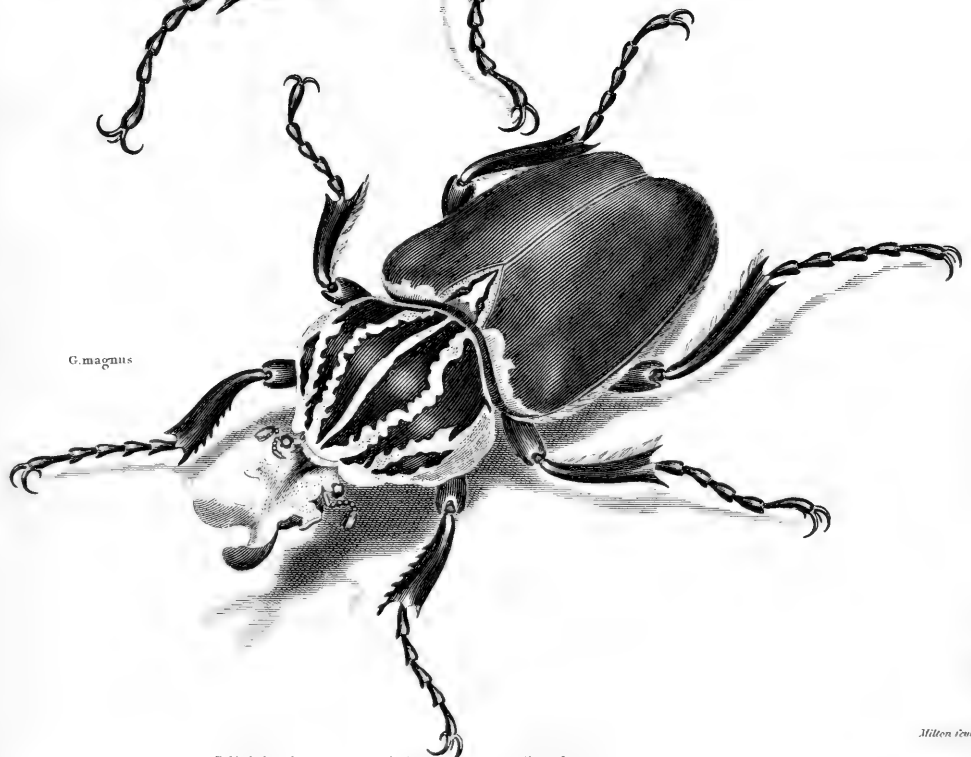


ENTOMOLOGY.

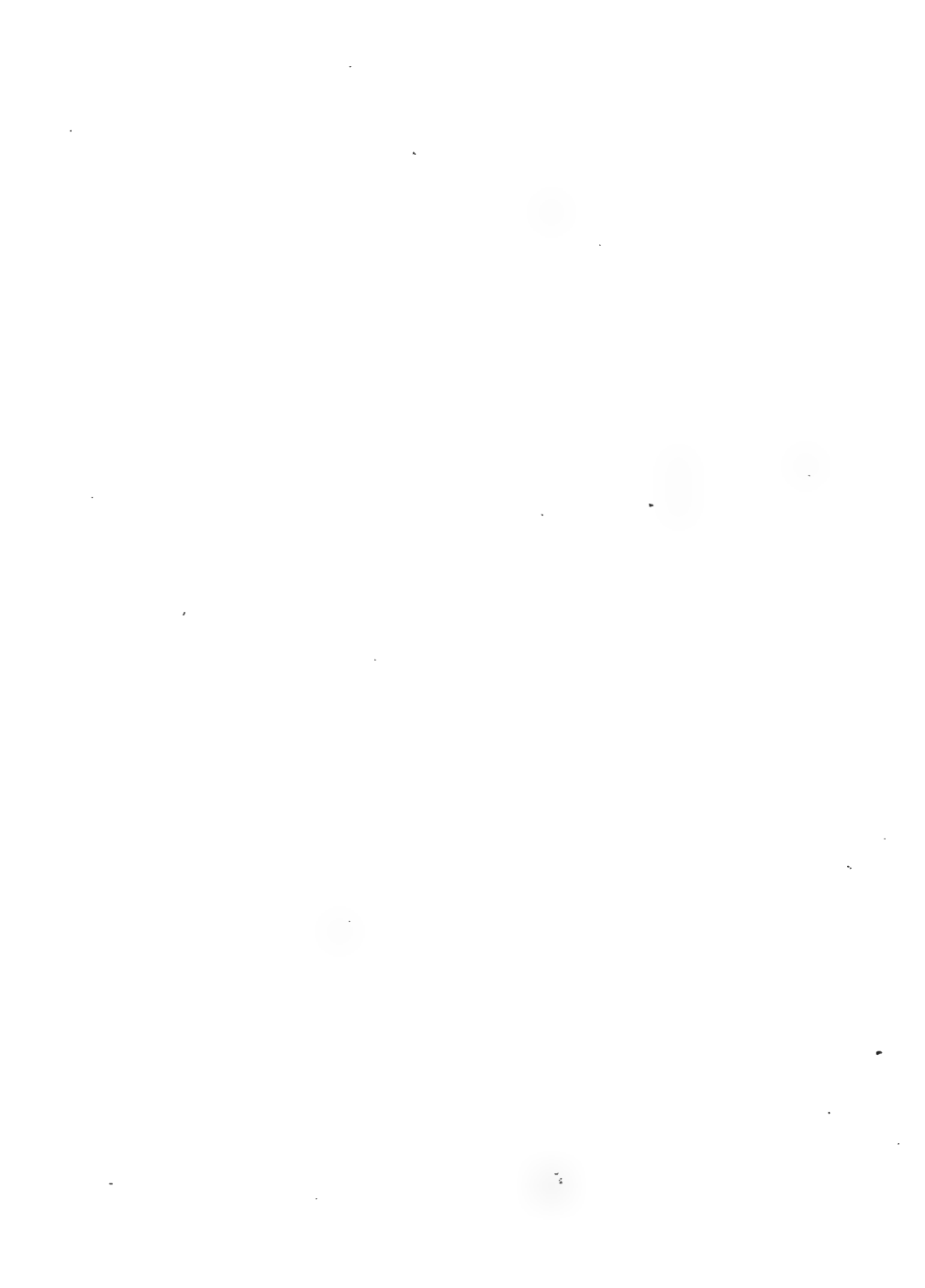
Order Coleoptera  
GENUS GOLLITHUS

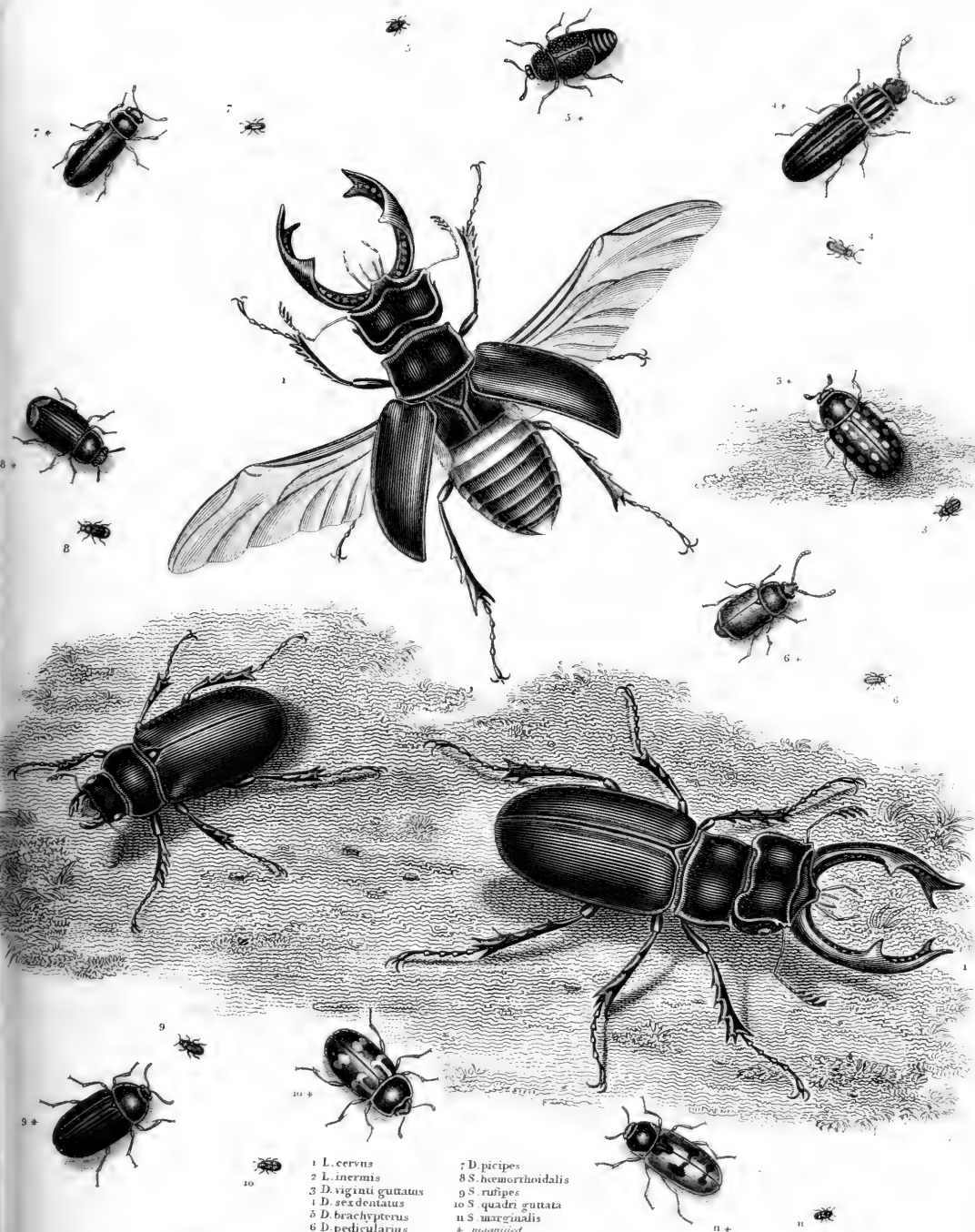


G. Cœcicus

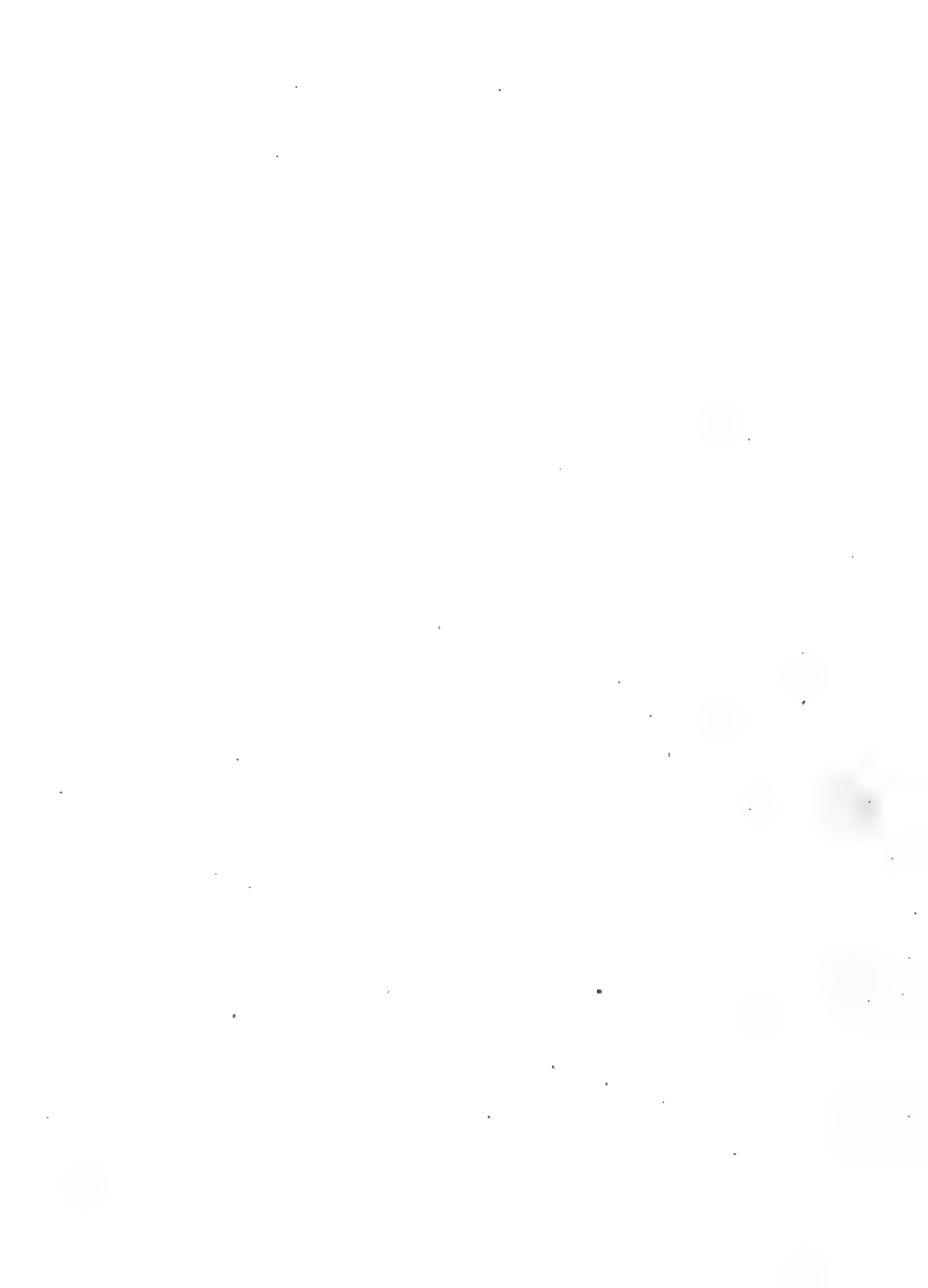


G. magnus





- 1 *L. cervina*
- 2 *L. linearis*
- 3 *D. vicinatus*
- 4 *D. sexdentatus*
- 5 *D. brachypterus*
- 6 *D. pedicularius*
- 7 *D. picipes*
- 8 *D. hemerthoidalis*
- 9 *D. rufipes*
- 10 *D. quadriguttata*
- 11 *D. marginalis*
- \* *magnificus*



Order Coleoptera.



12. *B. pubescens*

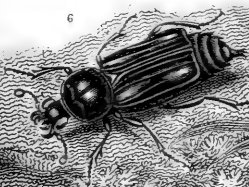
1. *B. polegraphus* - 2. *P. typographus* - 3. *B. piniperda* - 4. *P. scottii* - 5. *P. imperialis* - 6. *P. sex punctatus* - 7. *P. fassellatus* - 8. *P. faccinicornis*.

9. *H. unicolor* - 10. *H. planus* - 11. *G. natator* - \* magnified - † under surface.



Order Coleoptera.

NB. *Cistela* is a Fabrician genus & answers to the *Cryptoccephalus* of Linnæus.  
GENUS *BYRRHUS*. *G. ANTHREUS*. *G. CISTELA*. *G. SILPHA*. *G. MELYS*



13

13

13



- 5 *C. lepturoides*
- 6 *S. germanica*
- 7 *S. vesillo*
- 8 *S. thoracica*

- 1 *B. pilula*
- 2 *A. schrophulariae*
- 3 *C. pallida*
- 4 *C. lreta*



- 9 *S. Innator*
- 10 *S. obscura*
- 11 *S. quadrimaculata*

- 12 *S. sinuata*
- 13 *M. viridis*
- \* *magnifici*





# ENTOMOLOGY.

Order Coleoptera.

GENUS *OPITRUM* *G. TRITOMI* *G. TETRITOMI* *G. CASSIDI*

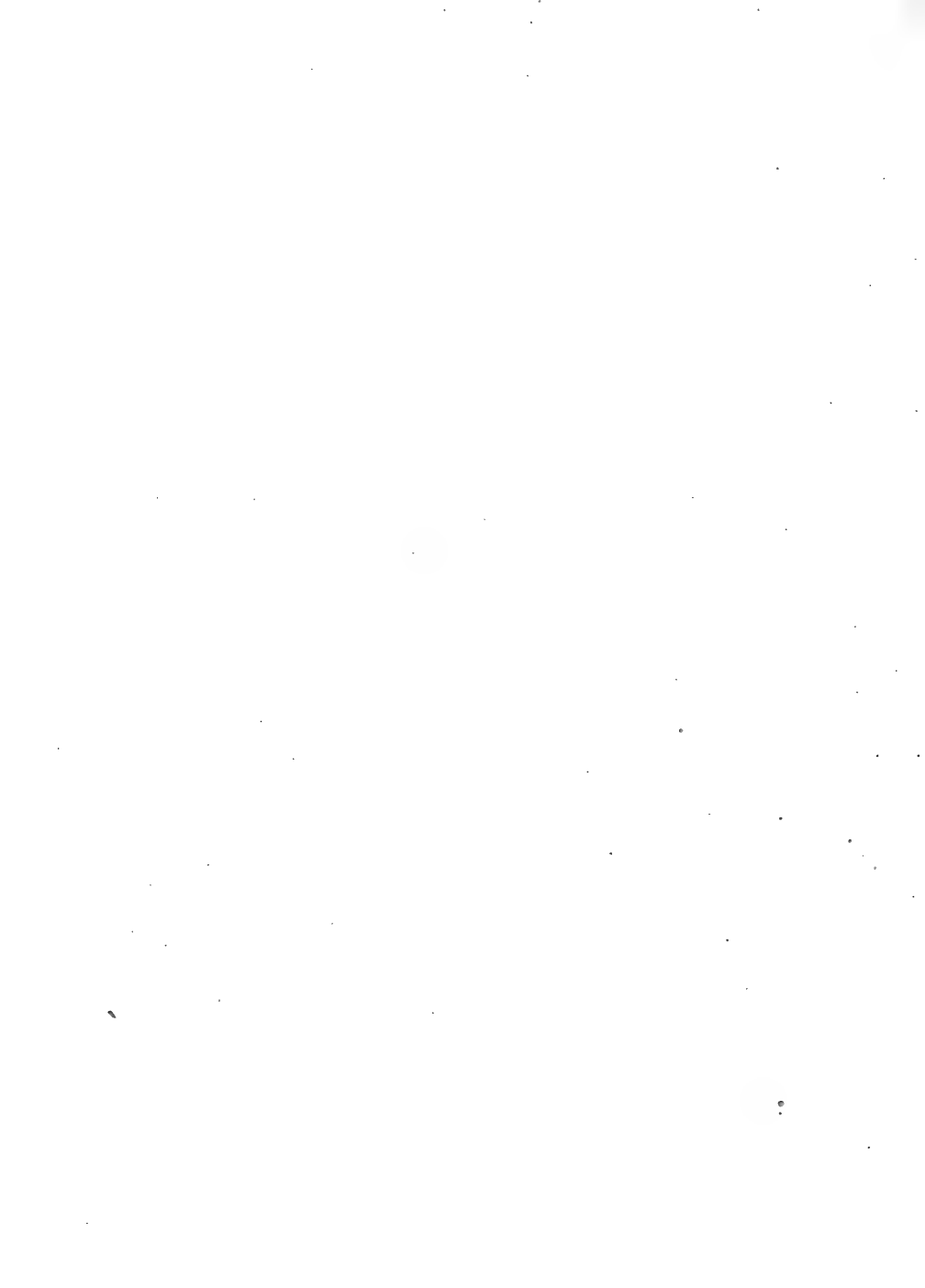


1. *O. sabulosum* - 2. *O. rufipes* - 3. *O. pilosa* - 4. *O. cinnamomeum* - 5. *O. fungorum* - 6. *O. ancora* - 7. *O. grassa* - 8. *O. lateralis* - 9. *O. cruentata* - 10. *O. maculata* -

\* magnified † under surface

Published as the Act directs - Sep 1 1837 - by Longman, Hurst, Roe & Co. Printers & Booksellers, Pall Mall

W. H. W. sculp.



# ENTOMOLOGY.

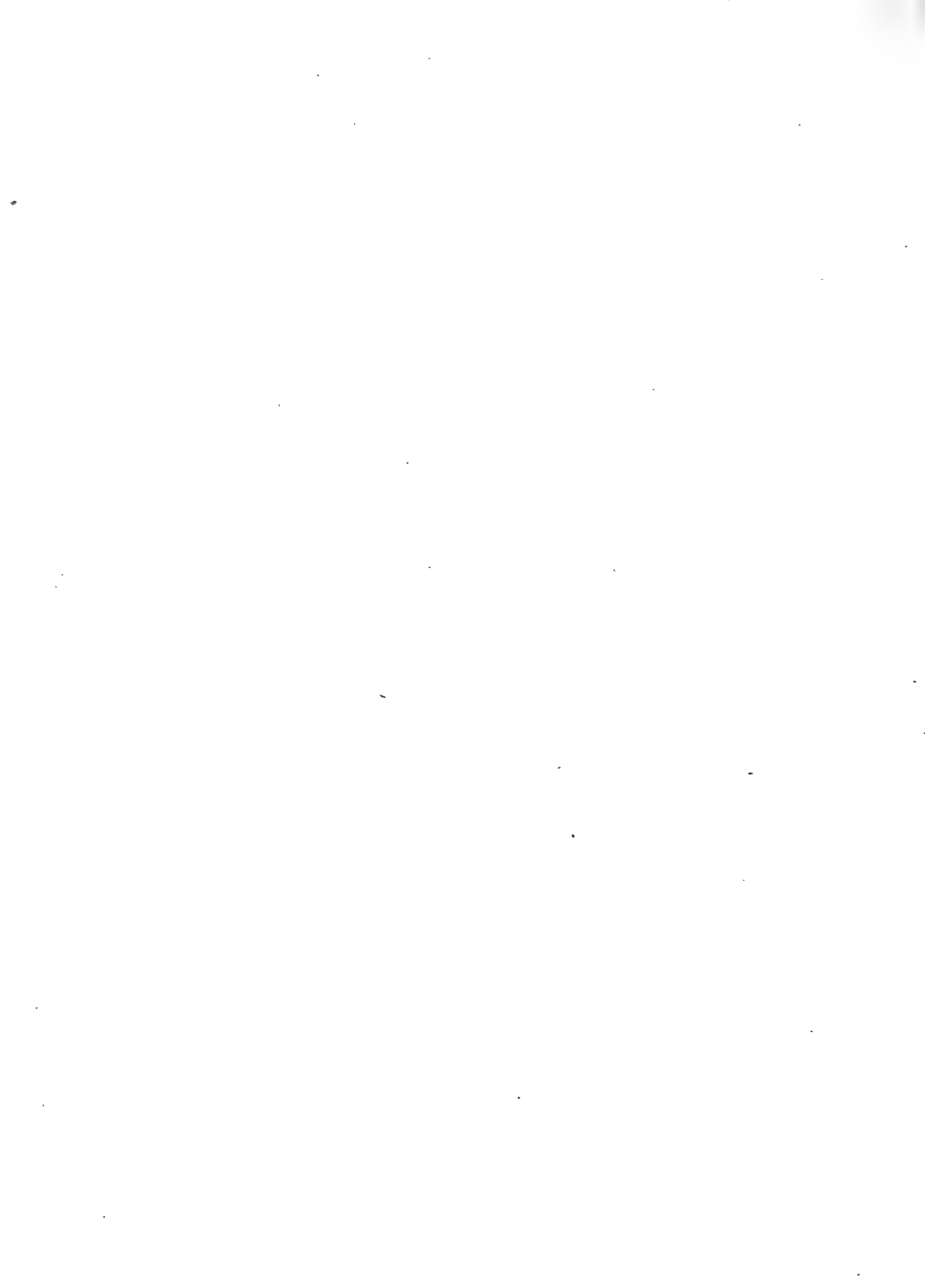
Order Coleoptera

GENUS COCCINELLI



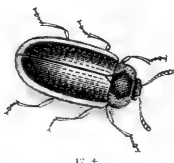
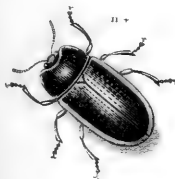
- 16 guttata
- 1 oblongo-guttata
- 12 pustulata
- 1 frontalis
- 11 punctata
- 10 punctata
- 10 punctata
- 10 punctata

- 7 C. septem-notata
- 8 C. 4-pustulata
- 9 C. punctata
- 10 C. analis
- 11 C. parvula
- 12 C. 6-pustulata





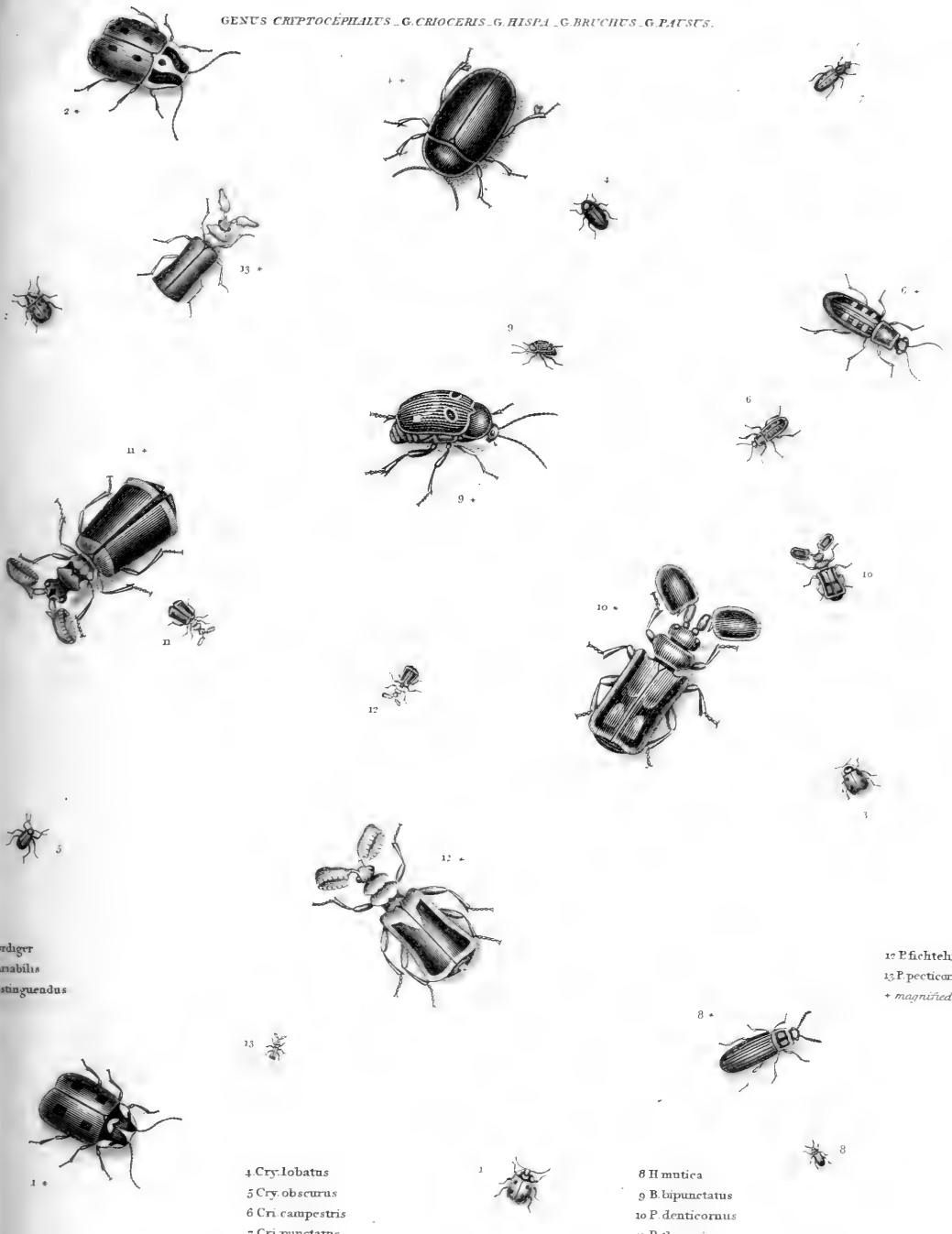
- 8 *C. boleti*
- 9 *C. 14 guttata*
- 10 *C. marginalis*
- 11 *C. marginata*
- 12 *C. marginella*
- 13 *C. hannoveriana*
- \* *marginifera*



*marginata*  
*urinanensis*  
*o punctata*  
*truncicornis*  
*truncipes*  
*umbata*  
*hidymus*



GENUS *CRYPTOCEPHALUS* - *G. CROCERIS* - *G. HISPA* - *G. BRUCHUS* - *G. PAUSUS*.



- 4 *Cry. lobatus*
- 5 *Cry. obscurus*
- 6 *Cri. caupestris*
- 7 *Cri. punctatus*

- 8 *H. mutica*
- 9 *B. bipunctatus*
- 10 *P. denticornis*
- 11 *P. thoracicus*

12 *P. fichteli*  
 13 *P. pectinatus*  
 + *magnificus*

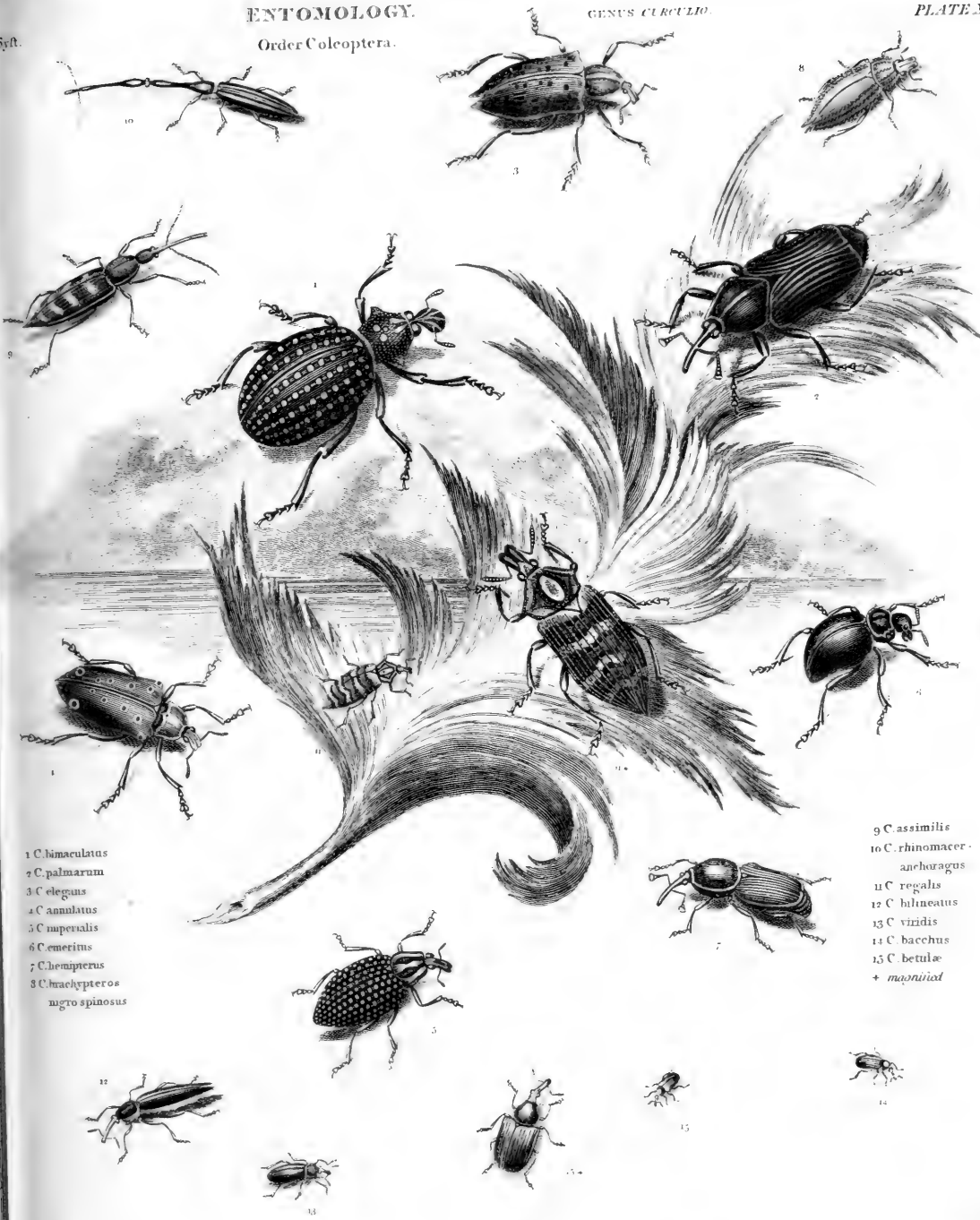
*Cry. cordiger*  
*Cry. variabilis*  
*Cry. distinguendus*





Order Coleoptera.

1.5 ft.



- 1 *C. bimaculatus*
- 2 *C. palmarum*
- 3 *C. elegans*
- 4 *C. annulatus*
- 5 *C. impevalis*
- 6 *C. emerinus*
- 7 *C. hemipterus*
- 8 *C. brachypteros*  
*micro spinosus*

- 9 *C. assimilis*
- 10 *C. rhinomacer*  
*anchragus*
- 11 *C. regalis*
- 12 *C. bilineatus*
- 13 *C. viridis*
- 14 *C. bacchus*
- 15 *C. betulæ*  
+ *maquinioid*



# ENTOMOLOGY.

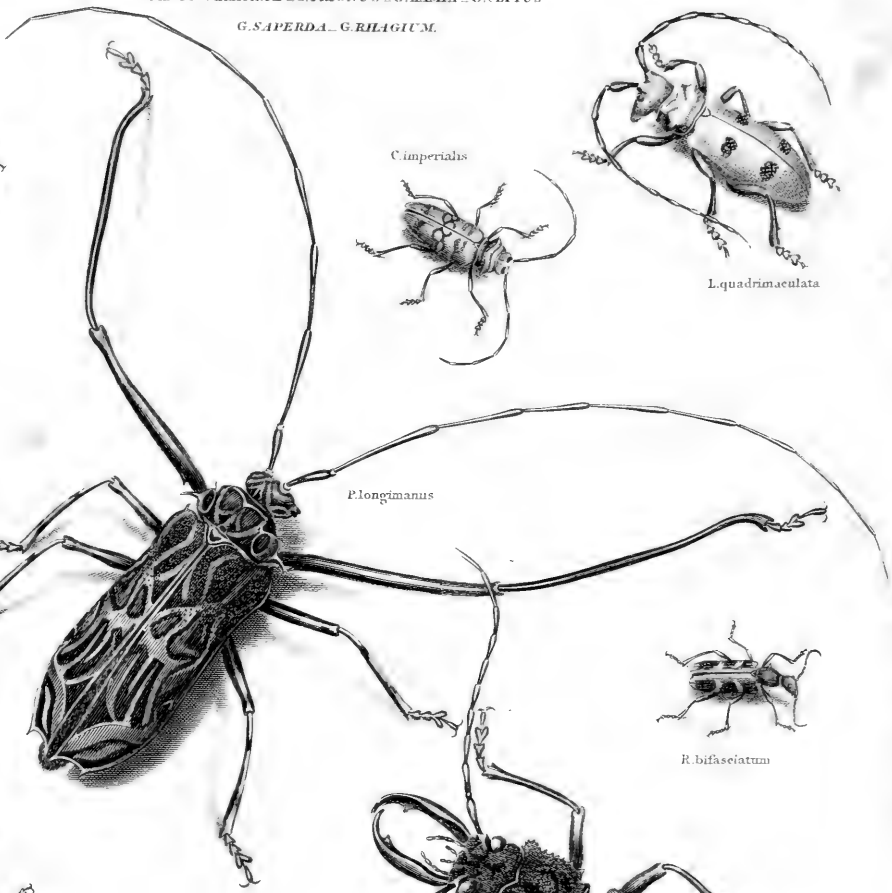
Order Coleoptera.

GENUS CERAMBYX - G. PRIONUS - G. LAMBA - G. CLYTUS

G. SAPERDA - G. RHAGIUM.



S. collaris



P. longimanus



L. quadrimaculata



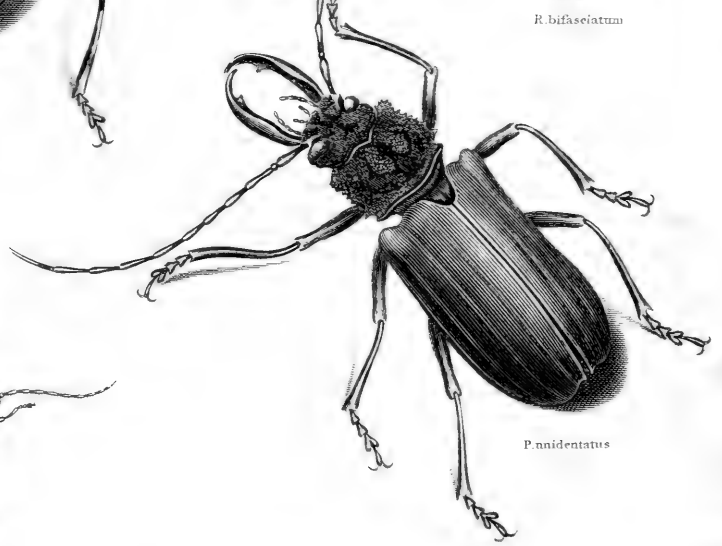
C. imperialis



R. bifasciatum



C. thoracicus



P. nidentatus



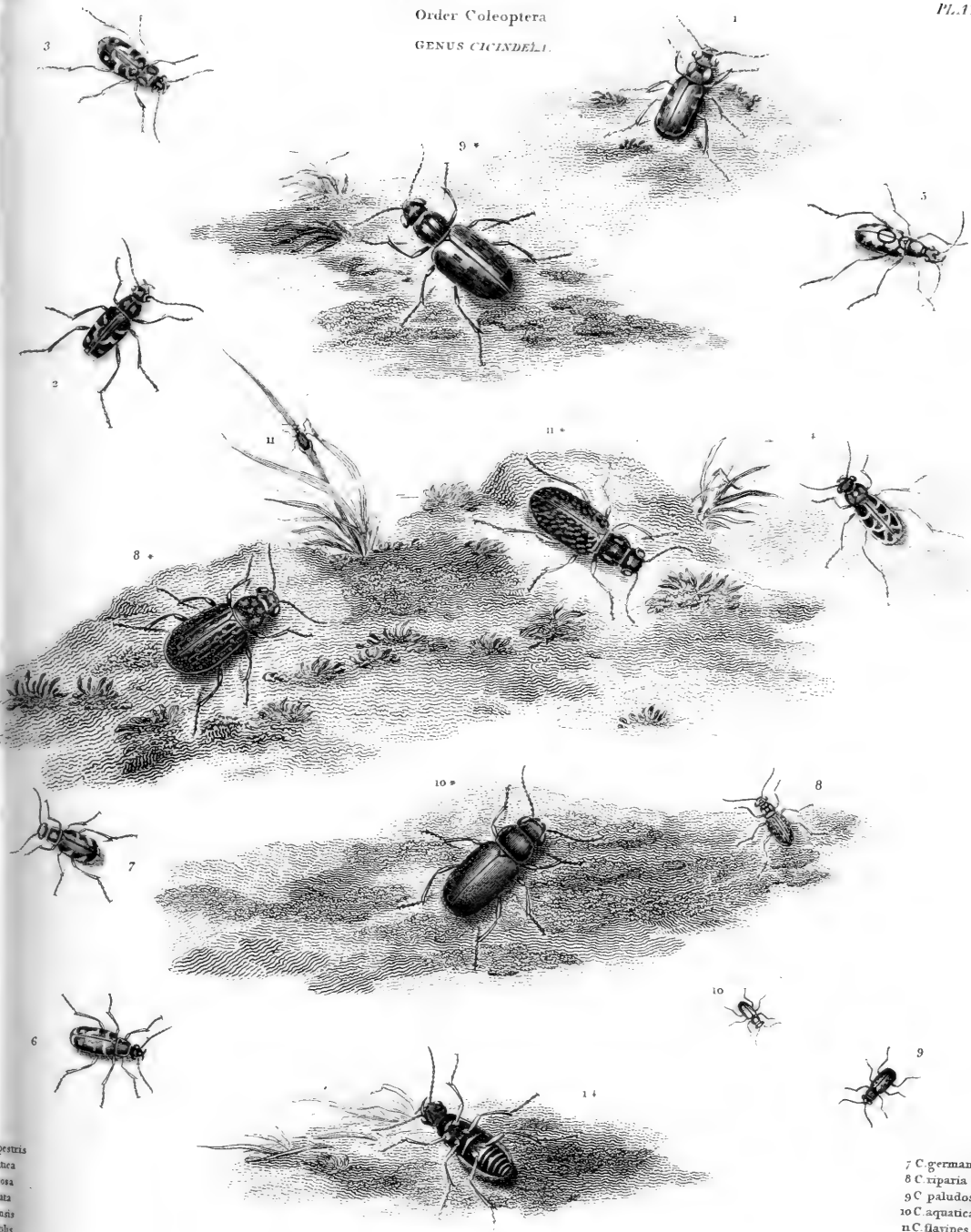
S. nigro-virens



# ENTOMOLOGY.

Order Coleoptera

GENUS CICINDELA.



- 7 C. germanica
- 8 C. riparia
- 9 C. paludosa
- 10 C. aquaticus
- n C. flavipes

\* magnified 4 under surface

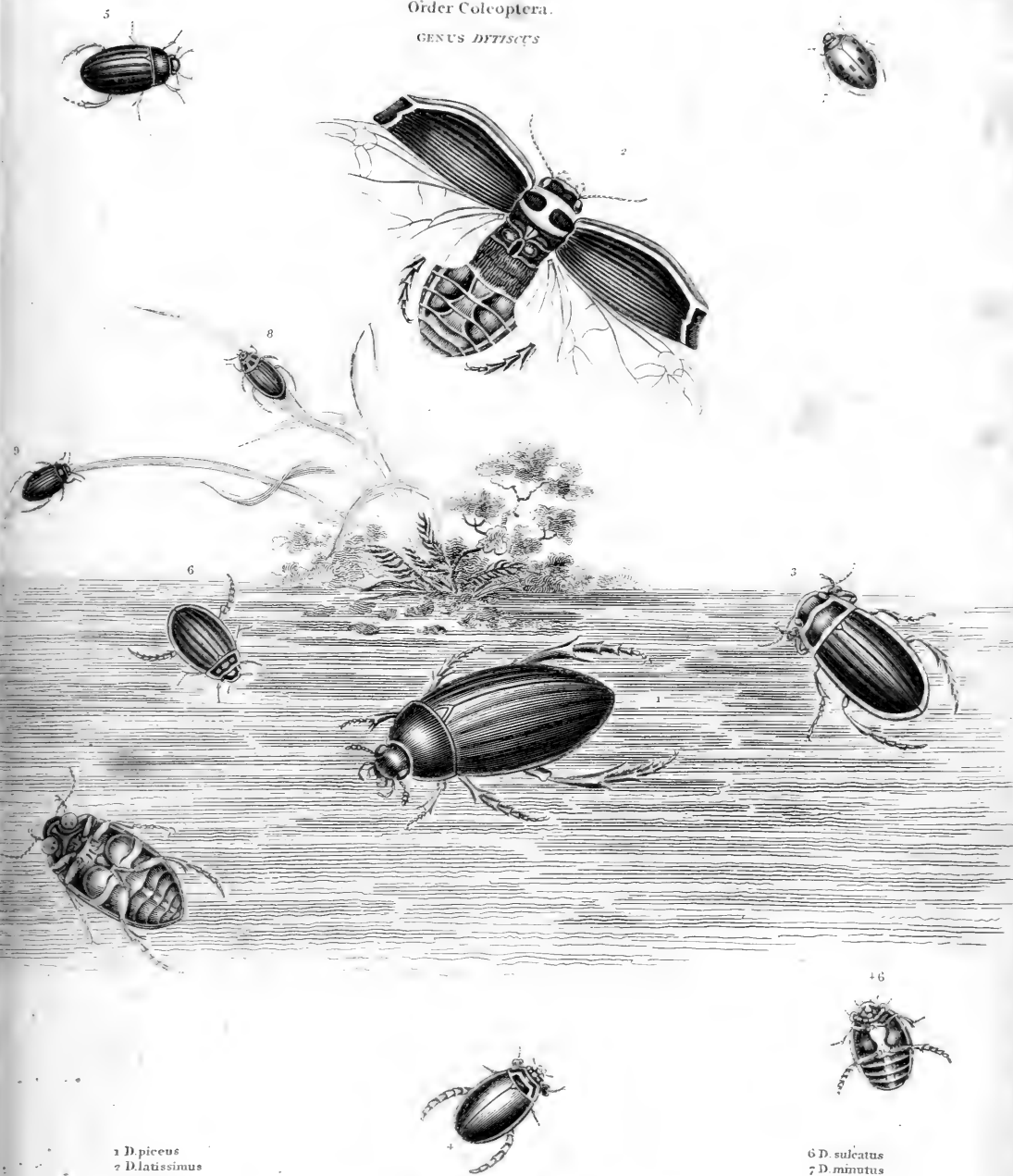
pestris  
anca  
rosa  
sata  
ruis  
sols



# ENTOMOLOGY.

Order Coleoptera.

GENUS *DYTISCUS*

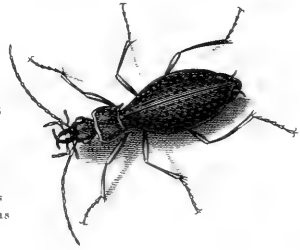
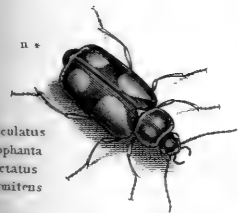
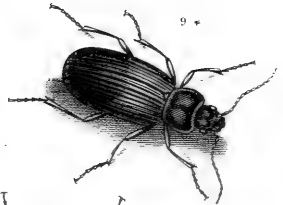
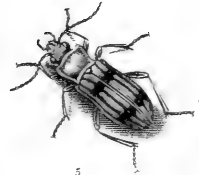
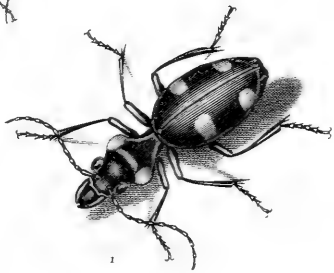
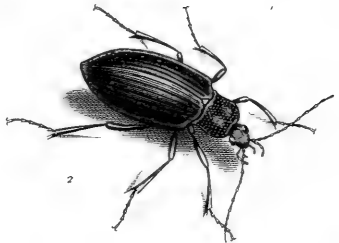
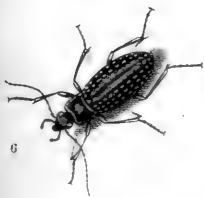


- 1 *D. piceus*
- 2 *D. latissimus*
- 3 *D. marginatus*
- 4 *D. cinereus*
- 5 *D. caraboides*

- 6 *D. sulcatus*
- 7 *D. minutus*
- 8 *D. bipustulatus*
- 9 *D. uliginosus*
- 4 under *surda*







1 C. maculatus  
2 C. cycophanta  
3 C. punctatus  
4 C. arenarius

5 C. arenarius  
6 C. granulatus

\* magnificus

7 C. thoracicus  
8 C. maculatus

9 C. germanus  
10 C. prasinus  
11 C. crux minor  
12 C. semipunctatus



# ENTOMOLOGY.

Order Coleoptera.

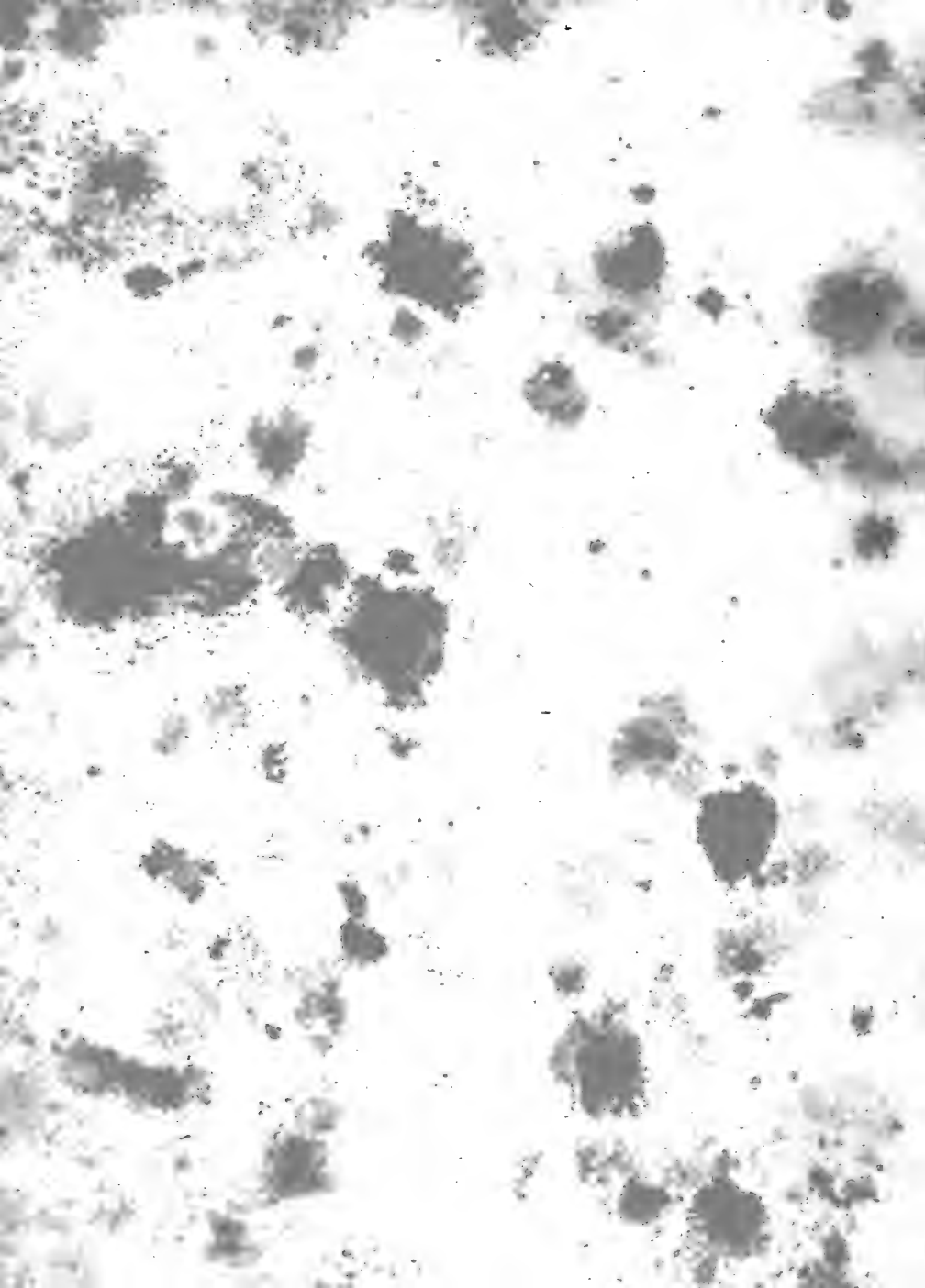
GENUS TENEBRIO - G. PINELLA - G. HELOPS.



1 T. gigas  
 2 T. femoratus  
 3 T. molitor  
 4 T. europaeus

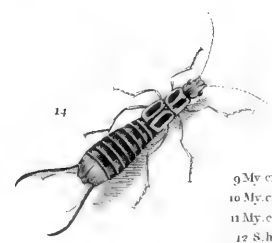
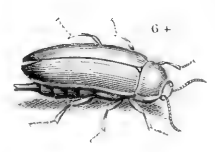
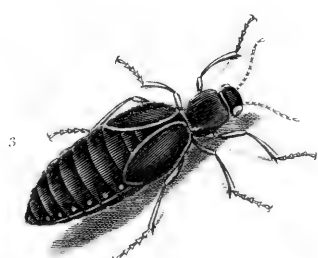
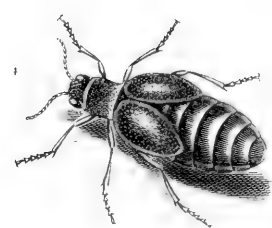
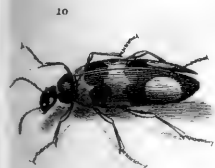
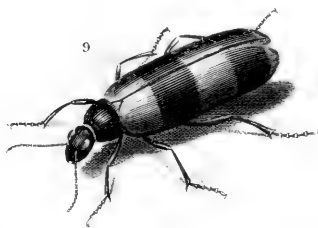
5 T. culinaris  
 6 T. ferrugineus  
 7 P. gages  
 8 P. sepitimum

9 P. aragonensis  
 10 H. lanipes  
 11 H. fasciata  
 12 H. fusca  
 + unnamed

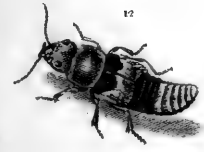


an. Syst.

Order Coleoptera.



L. vesicatoria  
L. dubia  
M. proscarabaeus  
M. variegatus  
M. bicolor  
M. flava  
M. dorsalis  
M. frontalis



9 My. cichorei var  
10 My. cichorei var  
11 My. cichorei var  
12 S. hirtus  
13 F. gigantea  
14 F. gigantea  
15 L. schafferi  
+ magnified



Lin. Syst.

GENUS 12 *Hispa*



G. 13 *Bruchus*



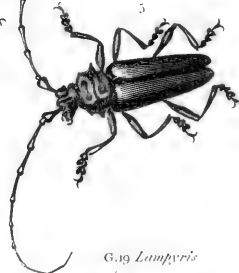
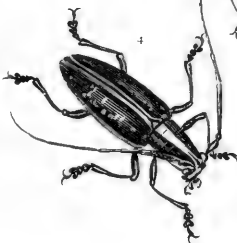
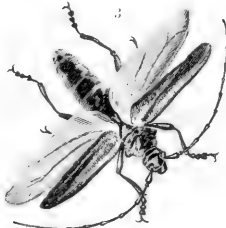
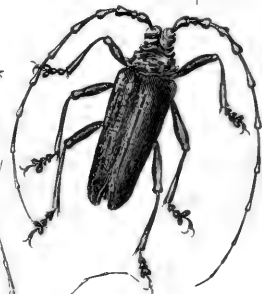
G. 14 *Cucullio*



G. 15 *Atelabus*



G. 16 *Cerambyx*



G. 18 *Aecydalis*



G. 17 *Leptura*



G. 19 *Lampris*



G. 20 *Cantharis*



G. 21 *Elater*

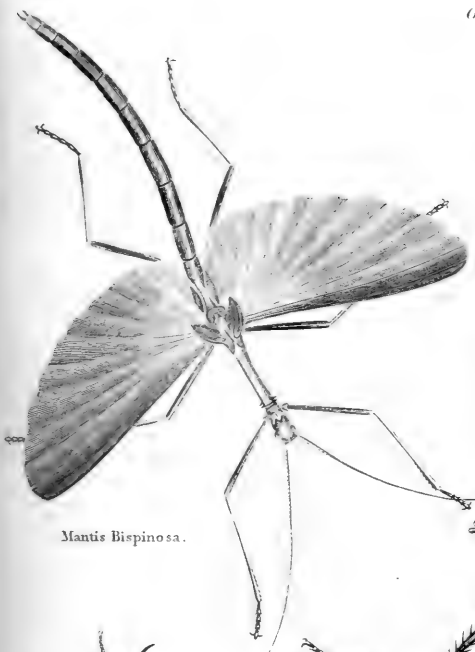




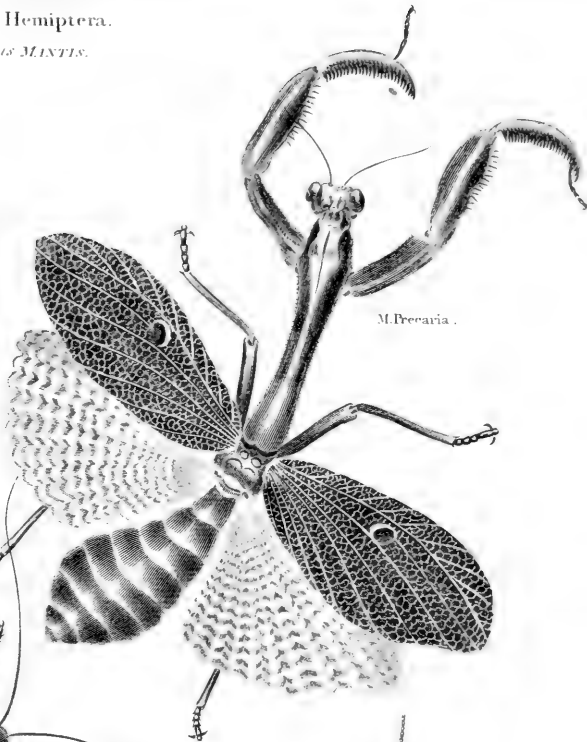


Order Hemiptera.

Genus MANTIS.



Mantis Bispinosa.



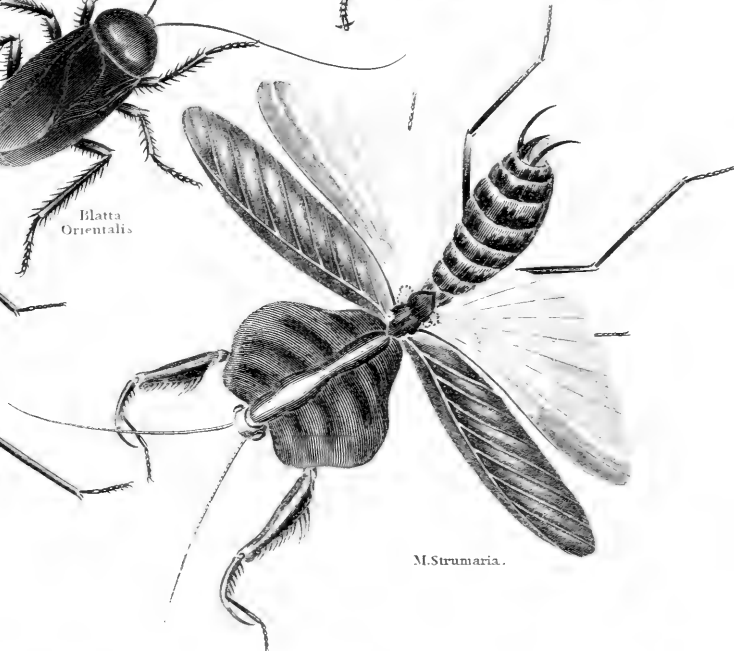
M.Preecaria.



Blatta Orientalis



M.Gongylodes.



M.Strumaria.

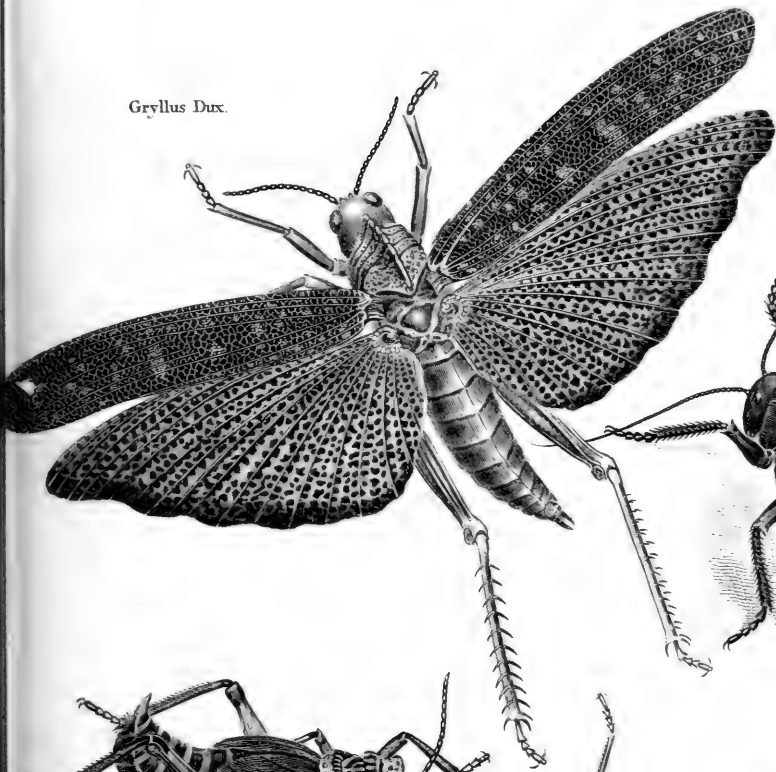


# ENTOMOLOGY.

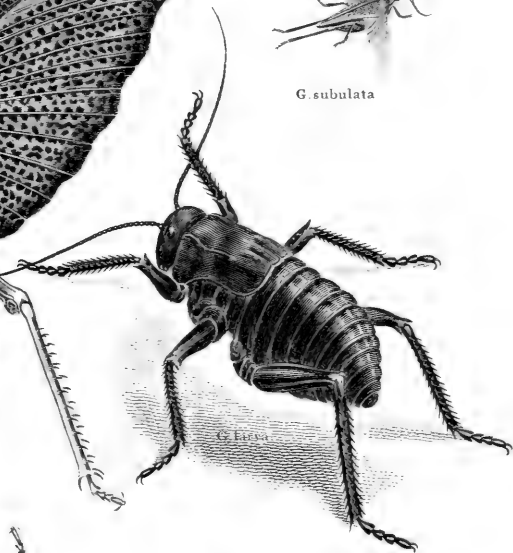
Order Hemiptera.

Genus GRYLLES.

Gryllus Dux.



G. subulata



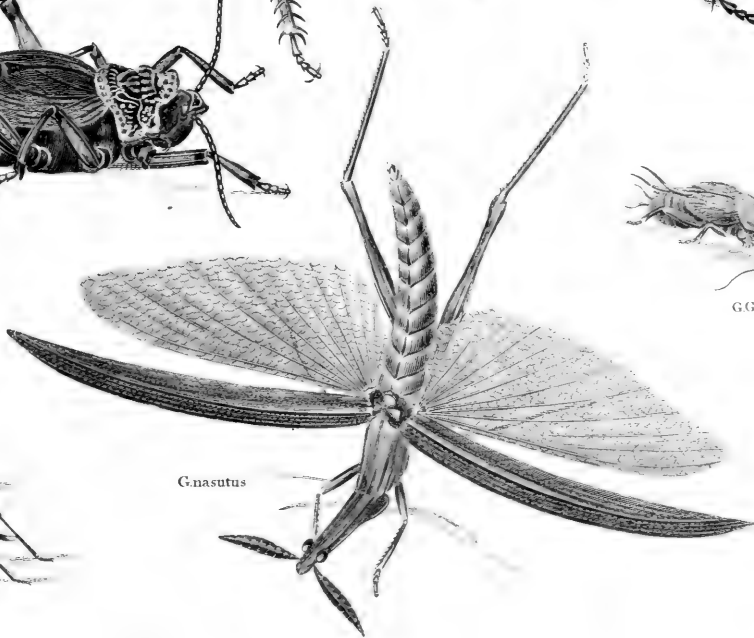
G. Erasa



G pupa



G.Gryllotalpa.



G.nasutus

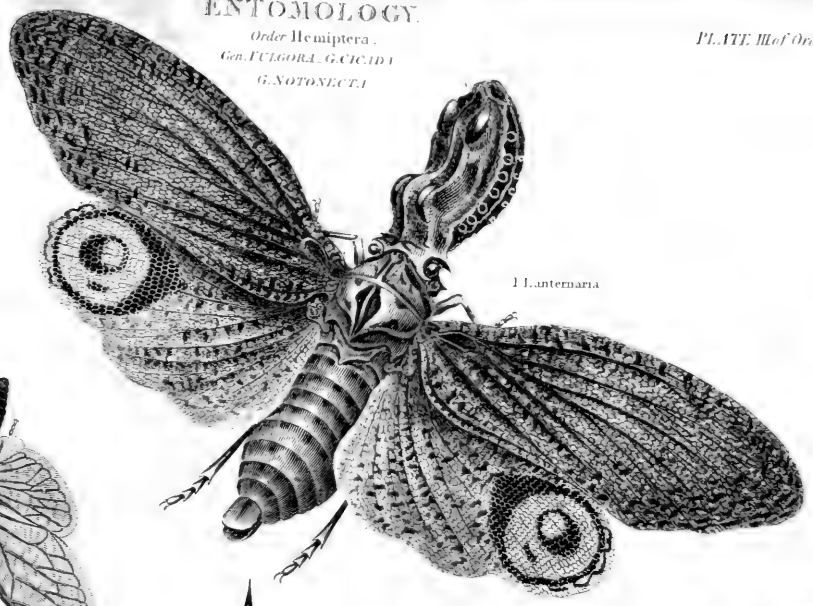


G.viridisimus minor.



# ENTOMOLOGY.

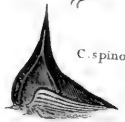
Order Hemiptera.  
Gen. FULGORA, G. CICADA  
G. NOTONECTA



F.L. lanternaria



C. hamatodes



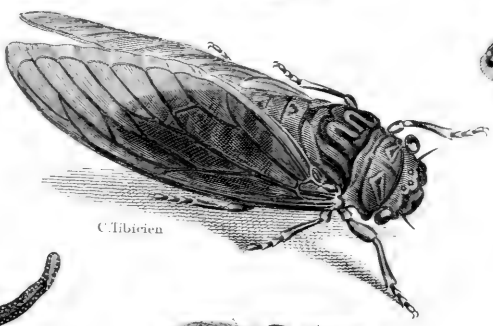
C. spinosa



C. stridula



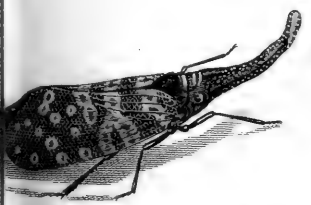
C. taurus



C. tibicen



Notonecta  
Glauca



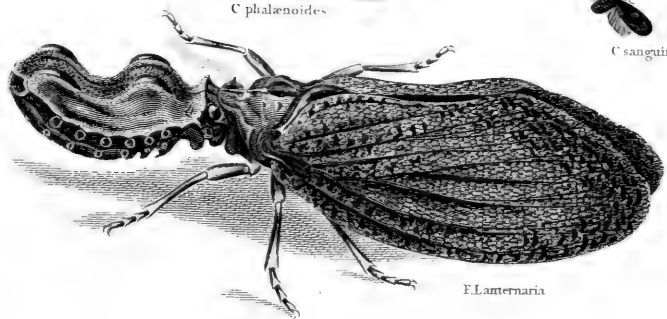
F. candelaria



C. phalaenoides



C. sanguinolenta



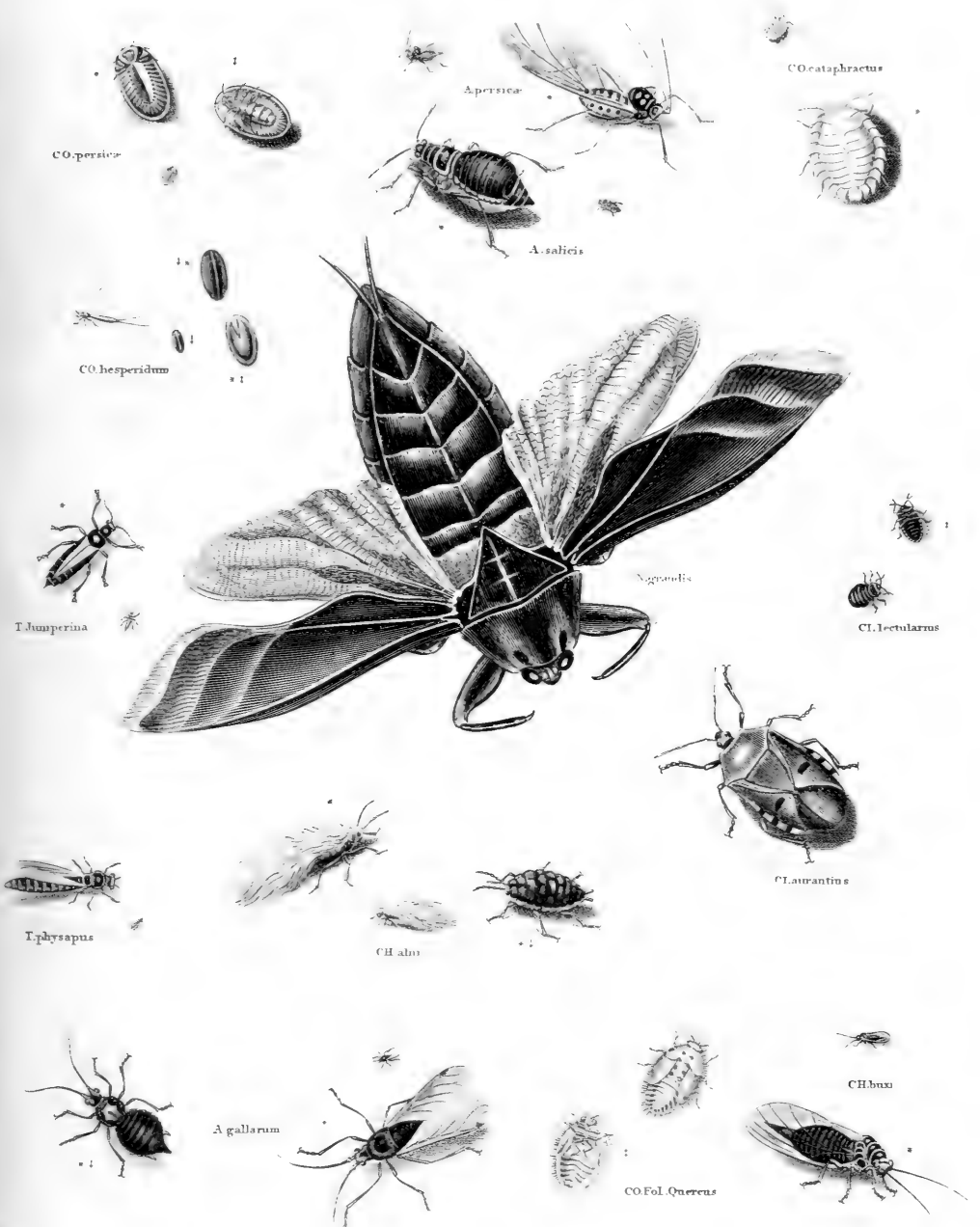
F.L. lanternaria



ENTOMOLOGY

Order Hemiptera.

GENUS CHERMES . G. CIMEX . G. COCCUS . G. NEBA . G. THIRPS . G. APIIIS



CO. persica

A. persica

CO. cataphractus

A. salicis

CO. hesperidum

Nymphalis

T. Juniperina

CI. lectularius

CI. laurantiæ

T. tylosopus

CH. alni

A. gallarum

CO. Fol. Quercus

CH. buxi





Order Lepidoptera.  
Genus PAPILO.



Eq. Troes. 1.



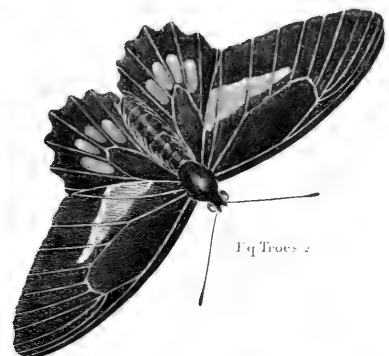
Eq. Achiv. 1.



Eq. Achiv. 1.



Eq. Achiv. 5.



Eq. Troes. 2.



Eq. Achiv. 1.



Eq. Achiv. 3.

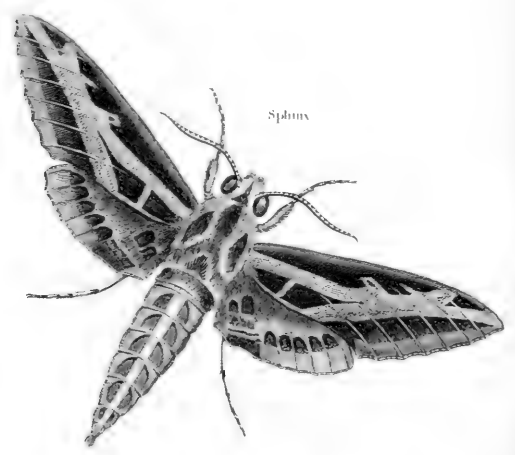


Order Lepidoptera.

Genus SPHINX.



Sesia



Sphinx



Sphinx



Sesia



Zygæna



Sphinx



Sesia



Zygæna



*B. Lacoona*



*B. Pyronia*



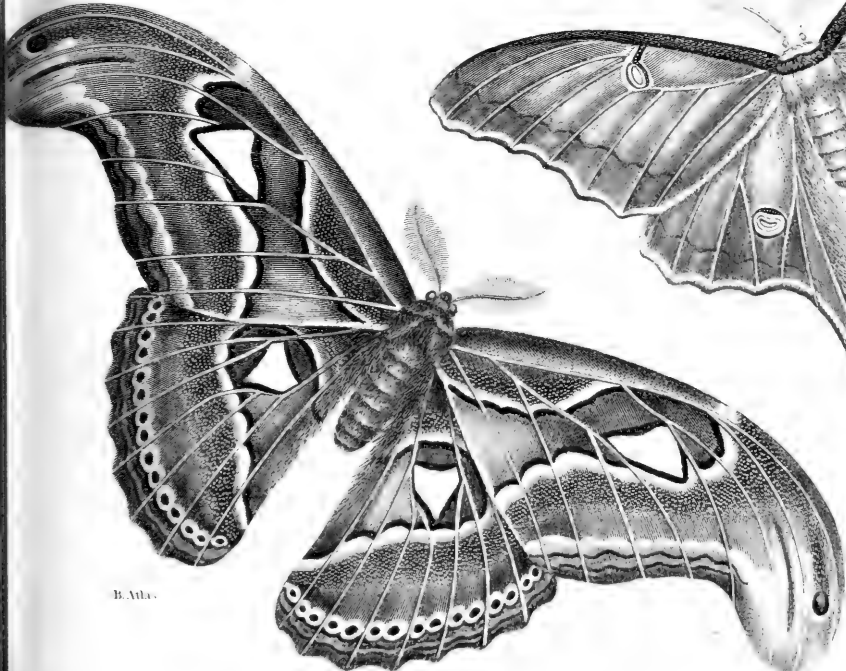
*Bombyx Tau*

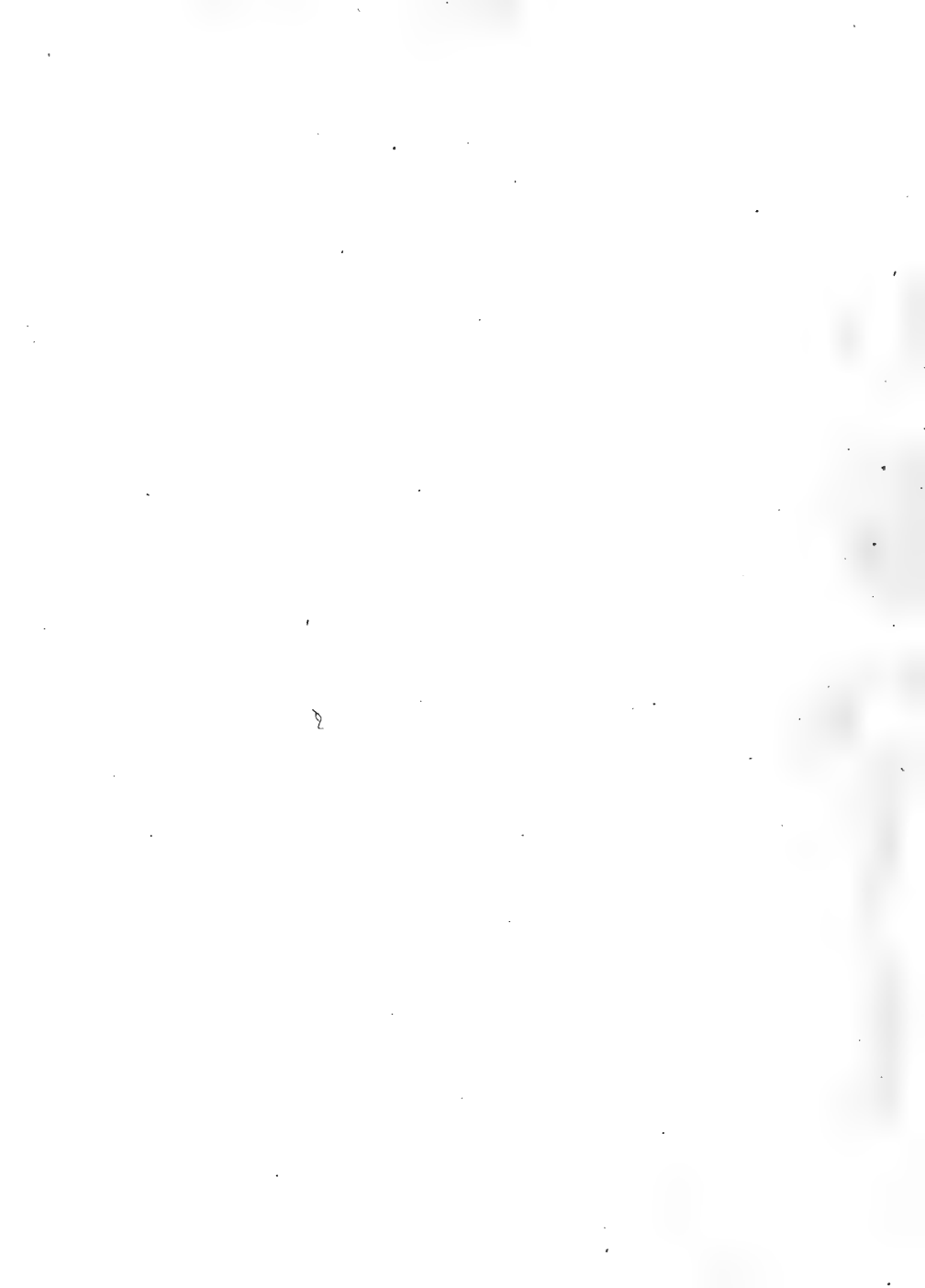


*B. Luna*



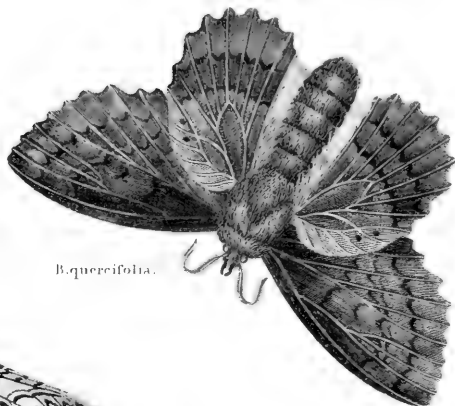
*B. Atlas*





ENTOMOLOGY.

Order Lepidoptera Genus Bombyx.



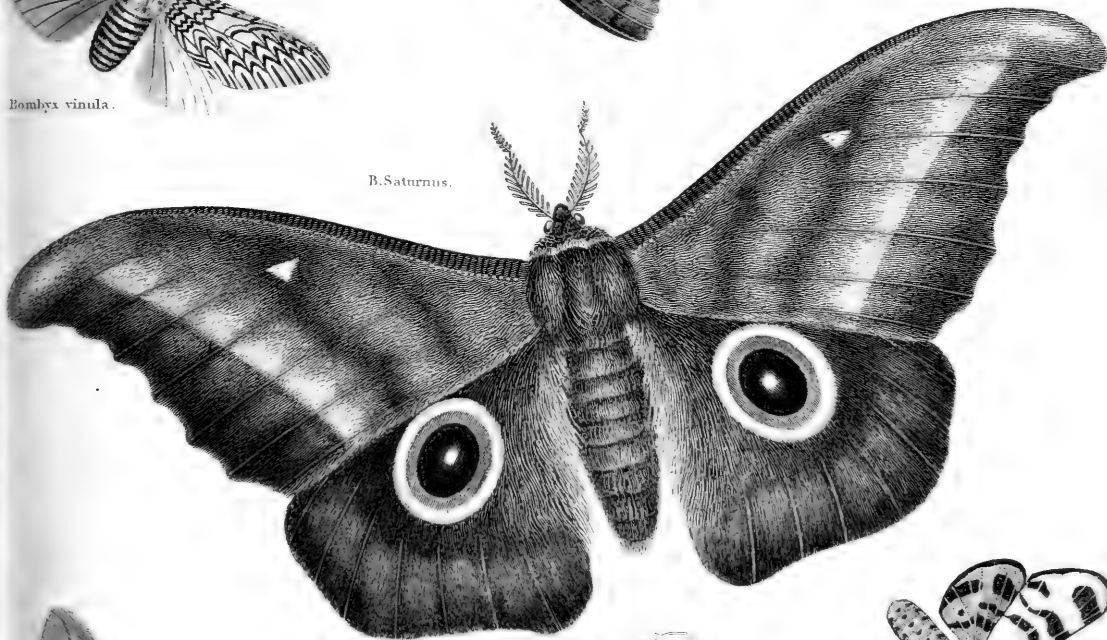
B. quercifolia.



B. versicolora



Bombyx vinula.



B. Saturnus.



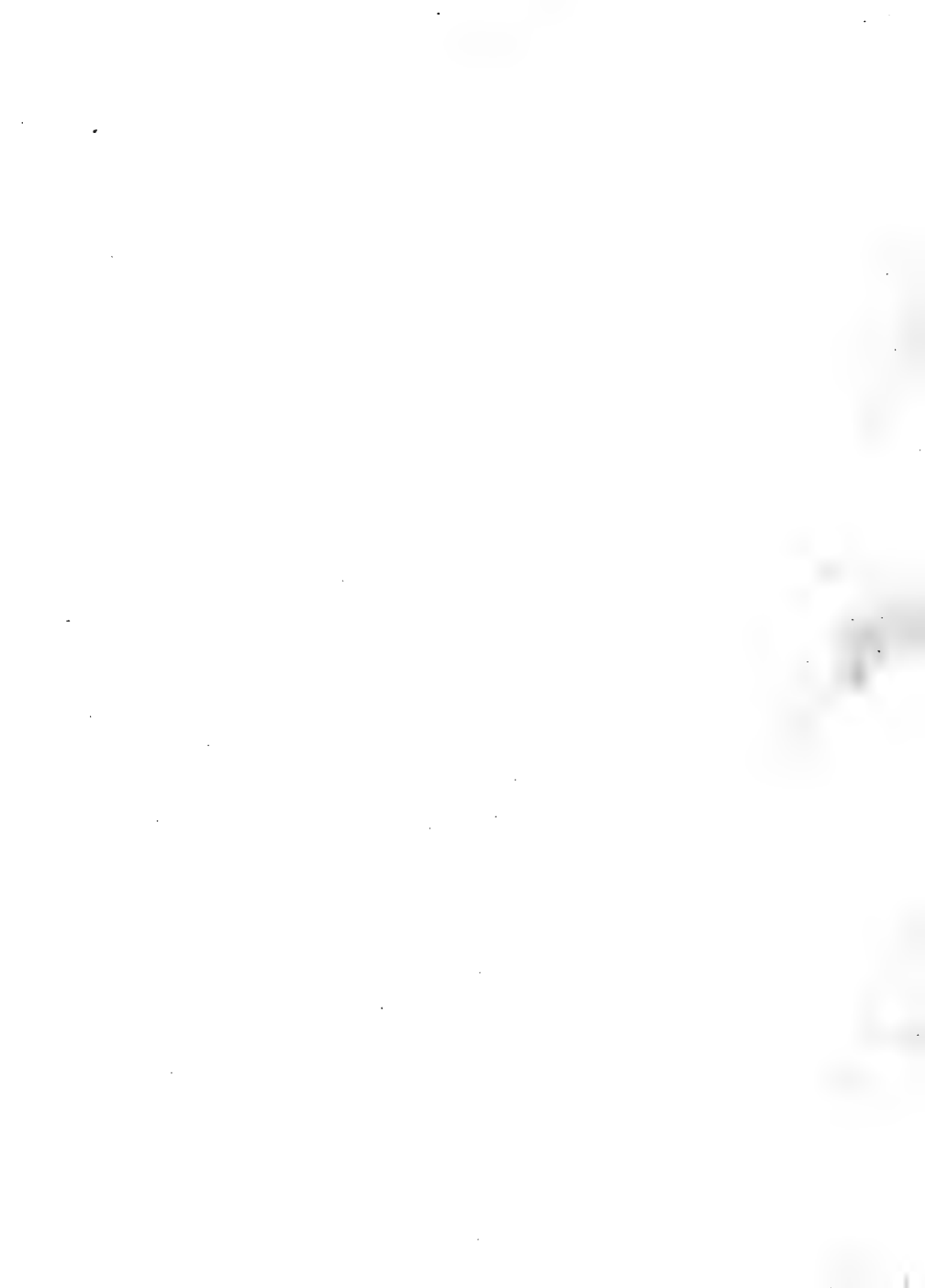
B. Potatoria.



B. Potatoria



B. Hebe.

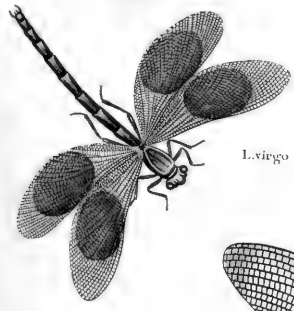




# ENTOMOLOGY.

## ORDER NEUROPTERI.

GENUS *Libellula*. *Ephemera*. *Phryganea*.



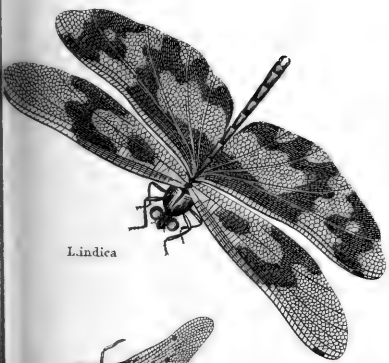
*L. virgo*



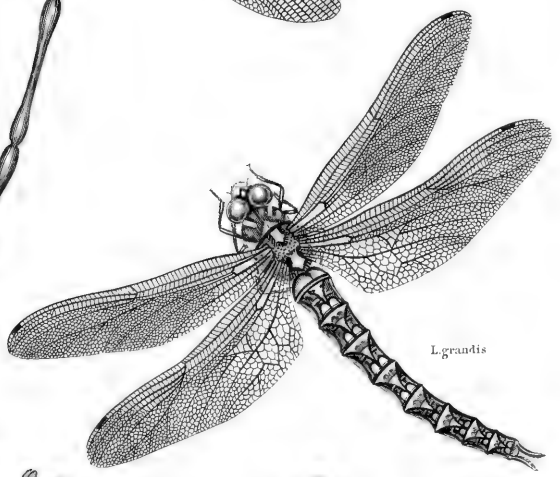
*L. clavata*



*Libellula linearis*



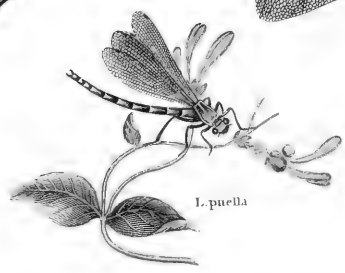
*L. indica*



*L. grandis*



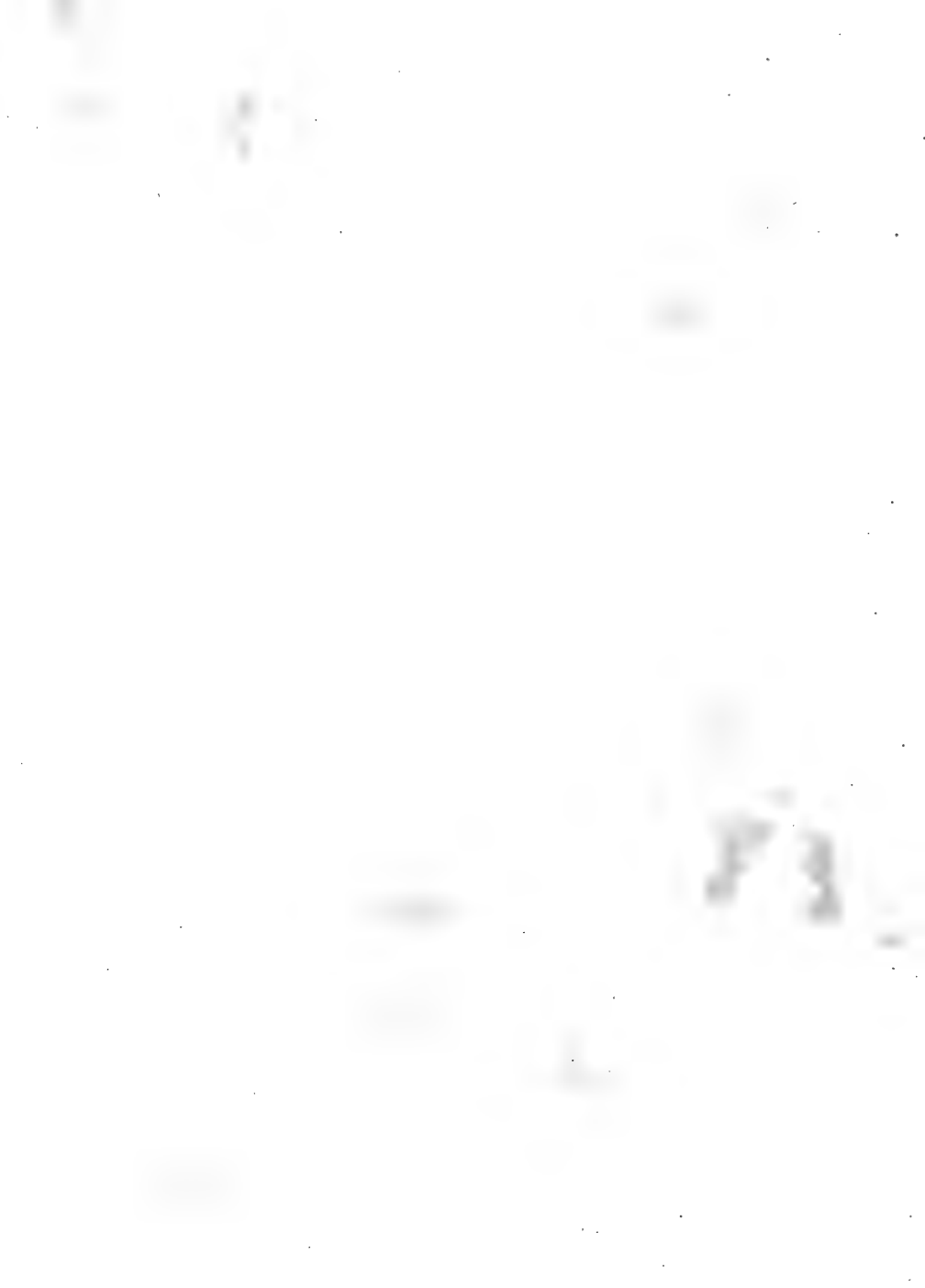
*Ephemera vulgata*



*L. puella*



*Phryganea varia*

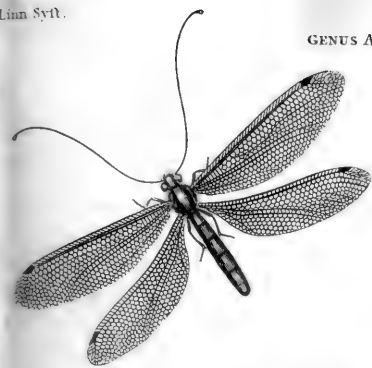


ENTOMOLOGY.

ORDER NEUROPTERA.

GENUS Ascalphus - Hemerobius - Myrmeleon - Panorpa - Raphidia.

PLATE  
of Order N.



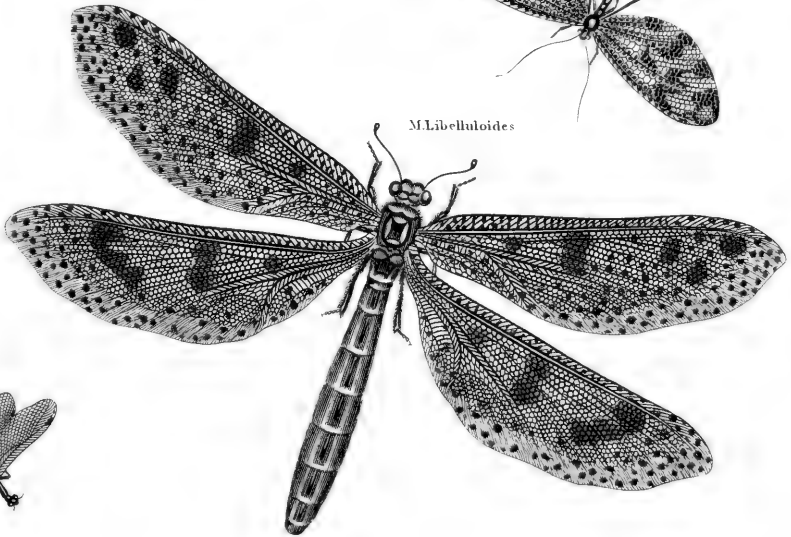
A. Americanus



P. Communis



P. Coa

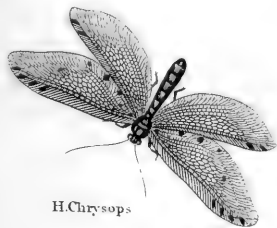


M. Libelluloides



R. Ophiopsis

R. Ophiopsis



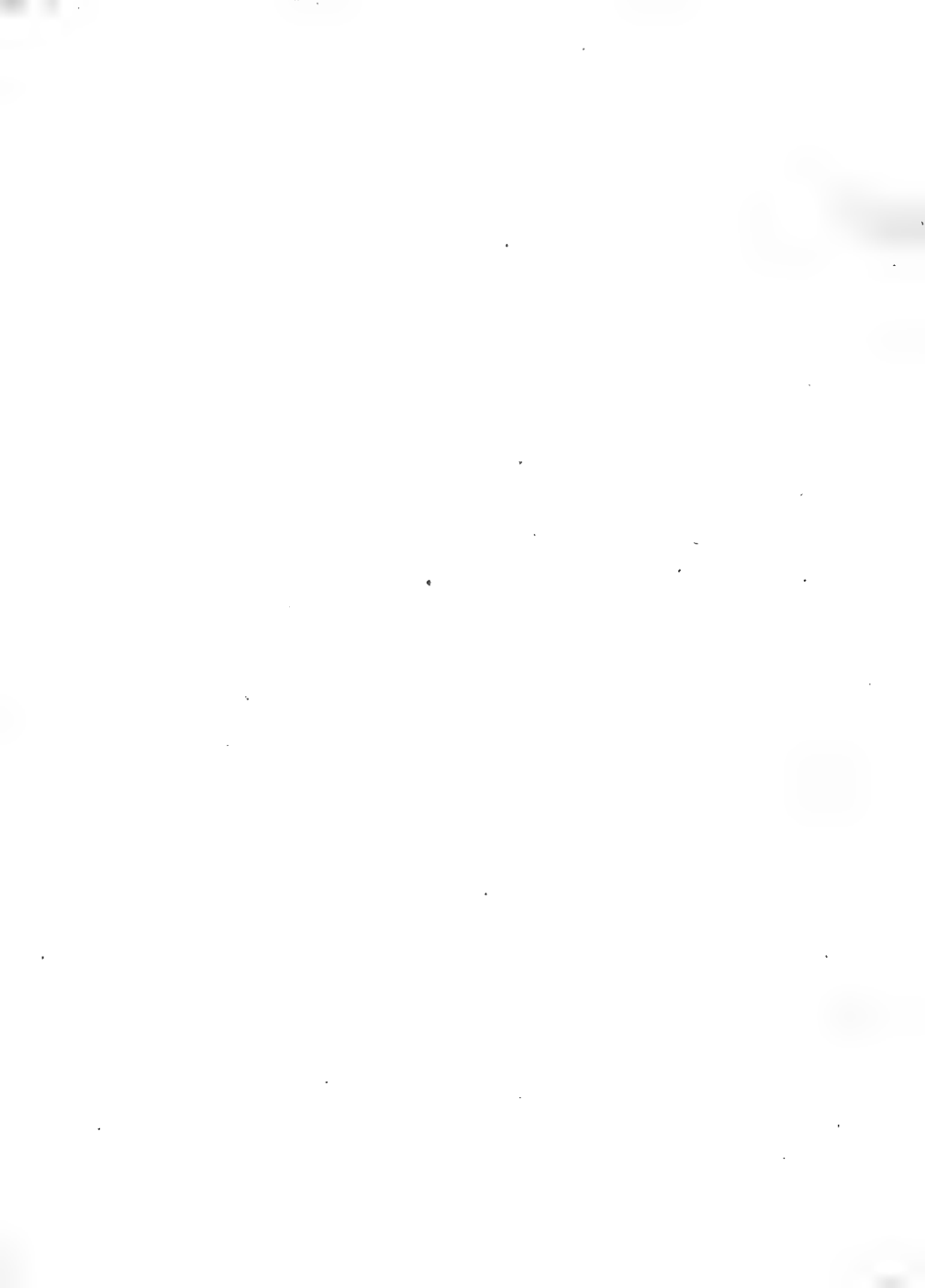
H. Chrysops



P. Communis



A. Barbarus



Genus CYNIPS. G. TENTHREDO.

G. SIREX

G. ICHNEUMON G. SPHIX



C. Quercus folii  
 1. bimaculata  
 2. femorata  
 3. fulvicornis  
 4. gigas

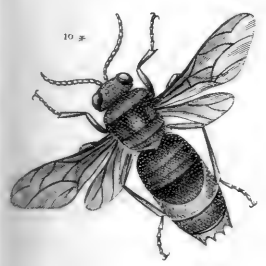
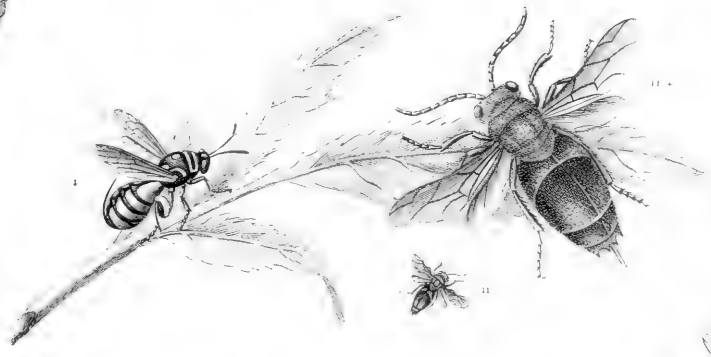
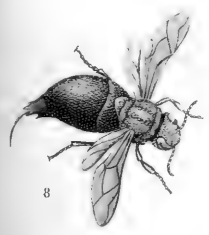
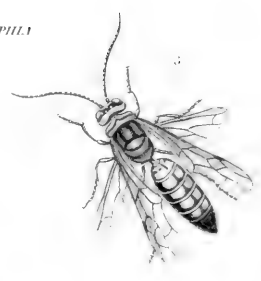
6. S. juvenens  
 7. S. lobat.  
 8. I. flavicornis  
 9. I. persusatorius  
 +. marmorata



# ENTOMOLOGY.

Order Hymenoptera.

GENUS *AMMOPHILA* - *G. SCOLIA* - *G. THYXUS* - *G. LEUCOPYSIS* - *G. TIPHIA*  
*G. CHALCIS* - *G. CHRYSIS*.



1 *A. sabulosa*  
2 *D. flavifrons*  
3 *G. emarginatus*  
4 *L. dorsigera*  
5 *Tip. nudata*

6 *Tip. villosa*  
7 *Cha. sispes*

8 *Chr. splendida*  
9 *Chr. amethystina*  
10 *Chr. fasciata*  
11 *Chr. ignita*  
12 *\* magnificata*





Order Hymenoptera.



Vespa  
 Mutilla  
 Vespa  
 Vespa  
 Vespa  
 Vespa  
 Vespa

- 1 Vespa
- 9 Vespa Bengalsis
- 10 Vespa bilamata
- 11 Vespa Americana simul
- 12 Vespa Bengalsis
- 13 Vespa rubra mal.





1 Equi  
 2 Equi  
 3 Bovis  
 4 Bovis  
 5 Bovis  
 6 Bovis  
 7 Bovis  
 8 Bovis  
 9 Bovis  
 10 Bovis  
 11 Bovis  
 12 Bovis  
 13 Bovis  
 14 Bovis  
 15 Bovis  
 16 Bovis  
 17 Bovis

8 Terecata  
 9 Terecata  
 10 Terecata  
 11 Terecata  
 12 Terecata  
 13 Terecata  
 14 Terecata  
 15 Terecata  
 16 Terecata  
 17 Terecata



ENTOMOLOGY.  
Order Diptera.  
GENUS *MUSC.*



*M. Noctiluca*

*M. bilineata*



*M. sexbalaria*

*M. gibrona*



*M. hottentotta*



*M. Tenax*  
*Syrphus tenax F.*



*M. bifasciata*



*M. Ceria Clavicornis F.*



*M. fasciata*



*M. Florea*



*M. Analis Bibio F.*



*M. Vespiiformis*



*M. lurida*



*M. Cupraria*



*M. grossa*



*M. Onopordii*



*M. morio*



*Chamaedon*  
*Stratiotrys F.*



*M. Pendula*



*M. Triangulana*



*M. Nemotelus Uliginosus*



*M. tenax*  
*Syrphus tenax F.*



*M. Solstitialis*



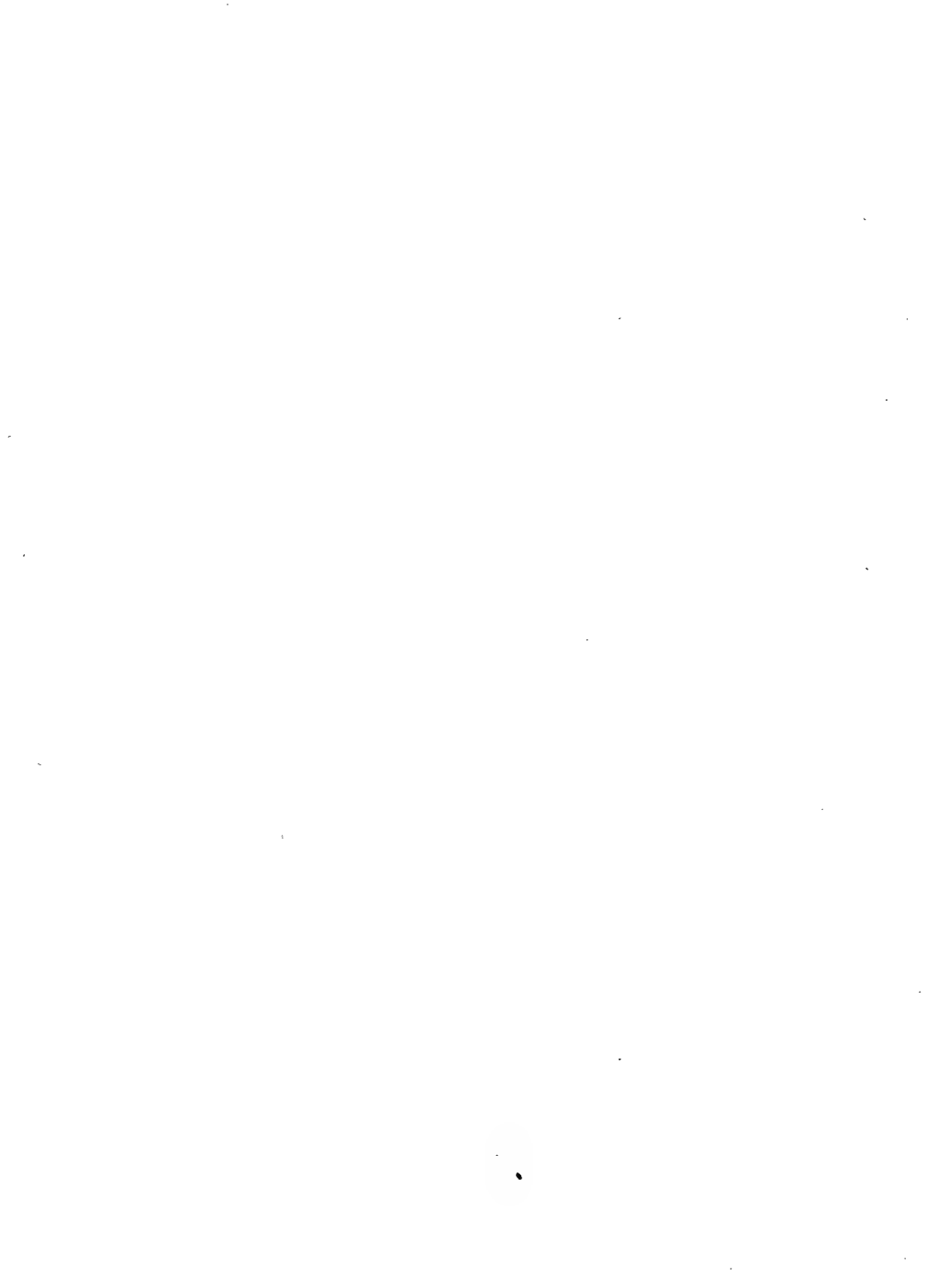
*M. Scolopacea*  
*Egria Scolopacea F.*

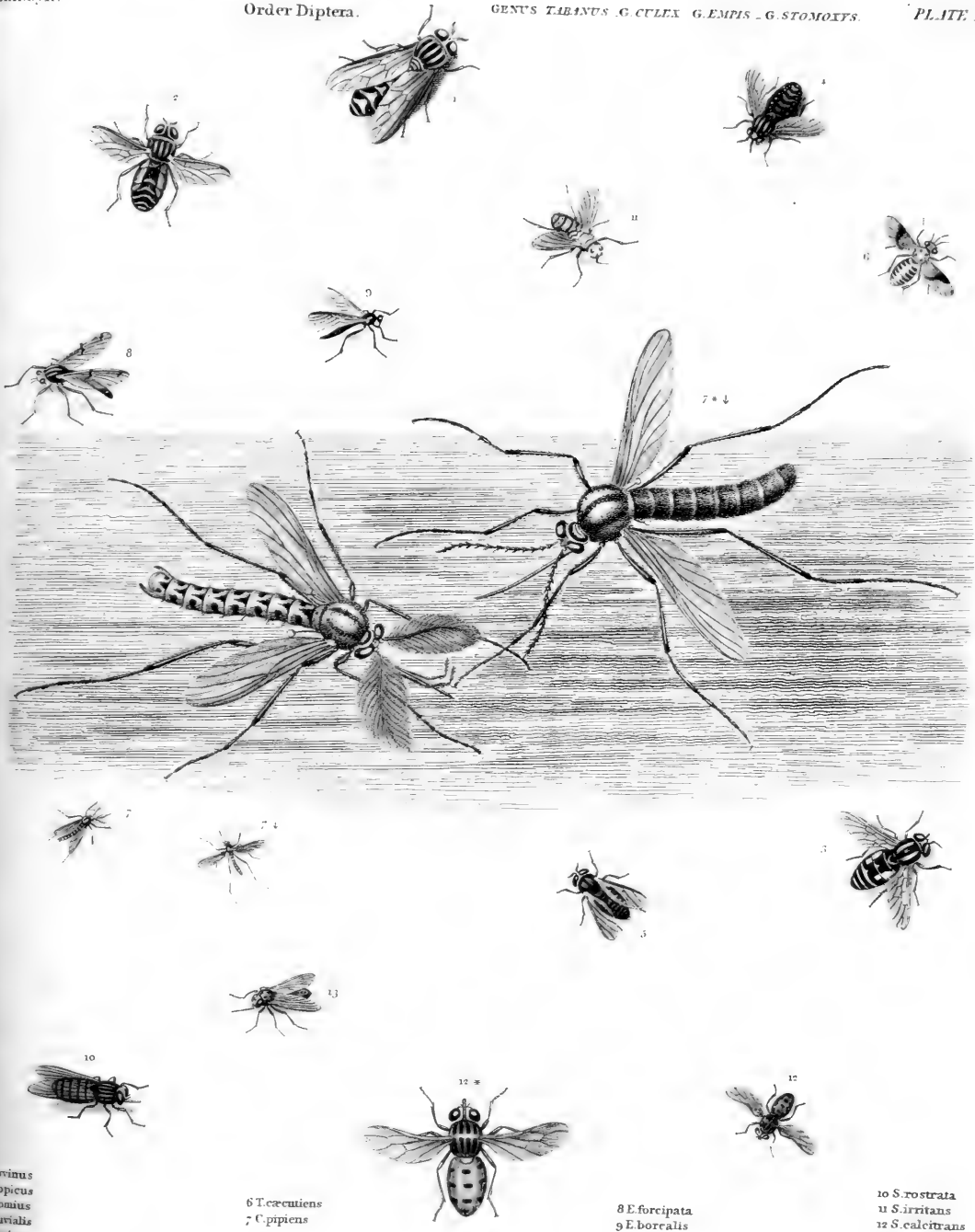


*M. Stellata*



\* *Magnificus*  
† *Female*  
‡ *Fabricius*





1 *T. bovinus*  
 2 *T. tropicus*  
 3 *T. bromius*  
 4 *T. pluvialis*  
 5 *T. rusticus*

6 *T. caecutiens*  
 7 *C. pipiens*

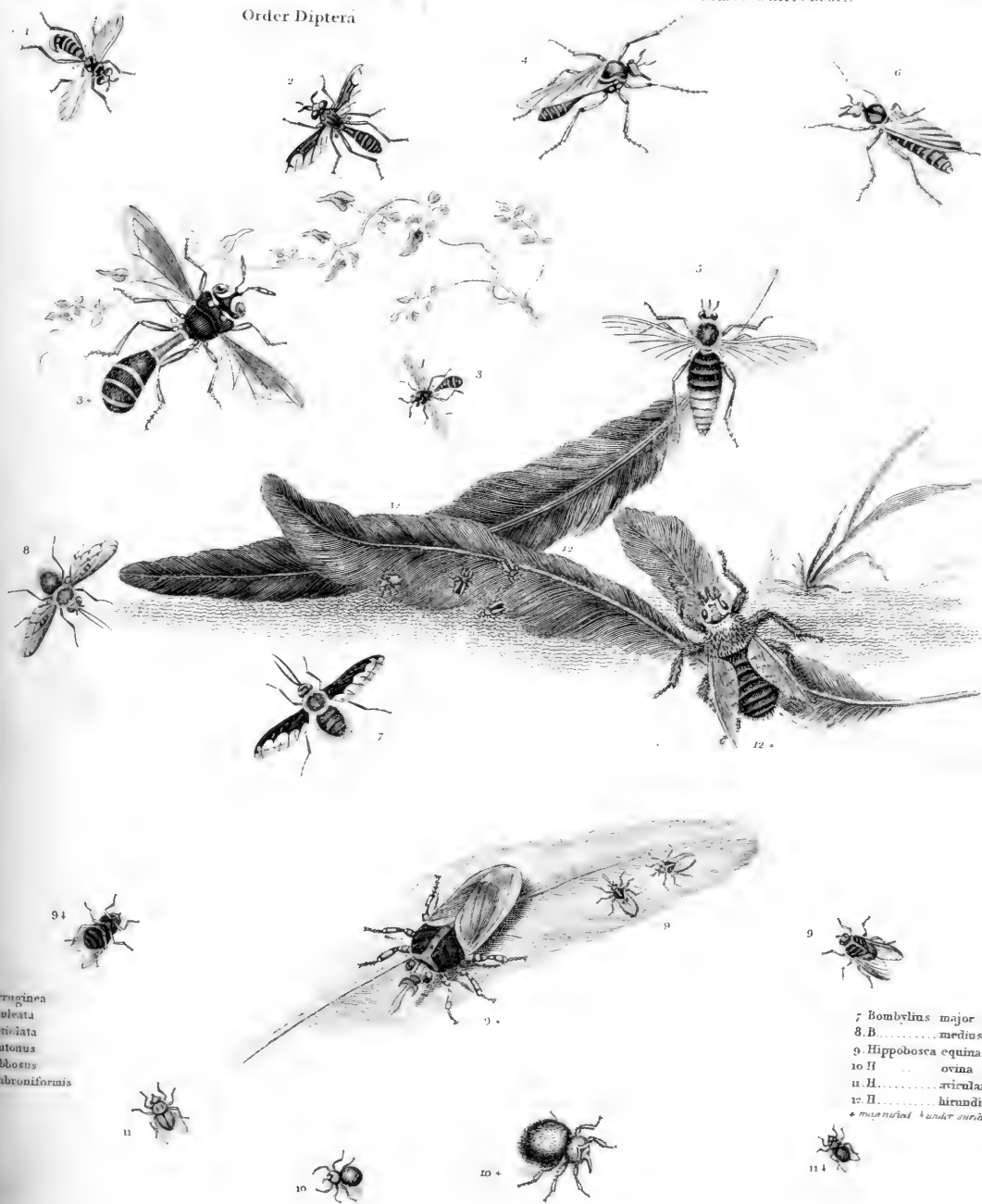
8 *E. forcipata*  
 9 *E. borealis*

10 *S. rostrata*  
 11 *S. irritans*  
 12 *S. calcitrans*  
 13 *S. pungens*  
 \* magnified & female





Order Diptera



13. *ferruginea*  
 14. *aculeata*  
 15. *petiolata*  
 16. *teutonius*  
 17. *gibbosus*  
 18. *crabroniformis*

7. *Bombylius major*  
 8. *B. .... medius*  
 9. *Hippobosca equina*  
 10. *H. .... ovina*  
 11. *H. .... avicularia*  
 12. *H. .... hirundinis*  
 \* *muscaria* & *under curdler*

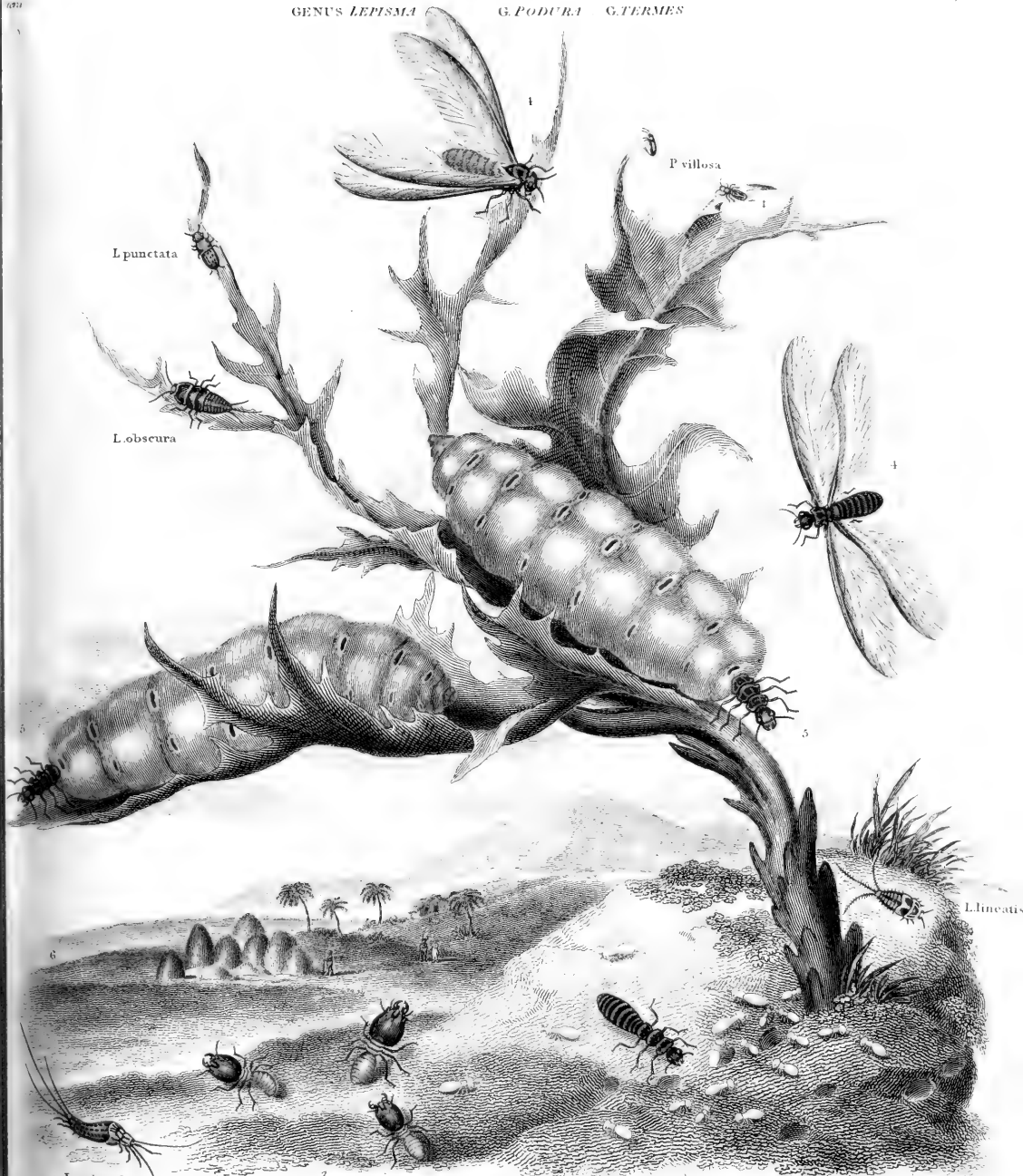


ENTOMOLOGY.

Order Aptera.

PLATE V  
of Apteris

GENUS LEPISMA G. PODURI G. TERMES



L punctata

P villosa

L obscura

L lineatus

L polypoda

Helliconus

Great African White Ant.

1. Labreters - 2. Soldiers - 3. King - 4. Male - 5. Pregnant Female or Queen - 6. Nests.

1. male, 2. female.



Order Aptera

GENUS PEDICULUS. G. PULEX. G. LICARUS. G. FROMBIDIUM. G. HYDRACHNA  
Louse Flea



- 1 P. humanus  
HUMAN L.
- 7 P. asini  
ASS L.
- 3 P. cygni  
SWAN L.
- 4 P. corvi  
CROW L.

- 5 P. picre  
MAPLE L.
- 6 P. gruis  
CRANE L.

- 7 P. columbe  
PIGEON L.

- 8 P. pluvialis  
FLOWER L.
- 9 P. apis  
BEE L.

- 10 P. irritans  
FLEA
- 11 A. edvinius
- 12 F. aquaticum
- 13 F. abstragens
- 14 H. geographica
- 15 H. abstragens  
\* ruginosus  
! ornata



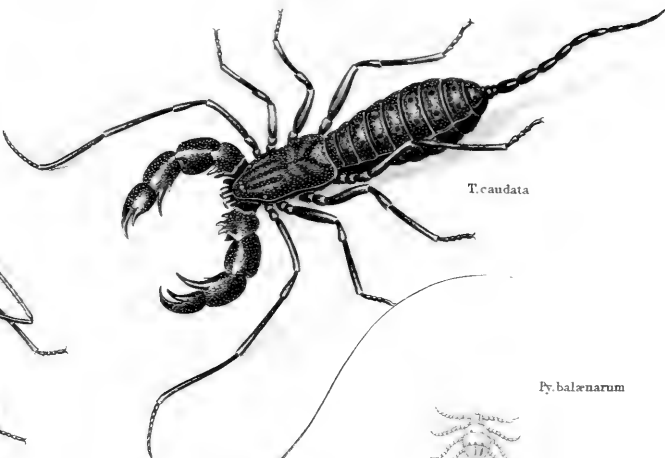
# ENTOMOLOGY.

Order Apta.

GENUS TARANTULA, G. PHALANGIUM, G. NYMPHON, G. PYCNOGONUM.



T. reniforme



T. caudata



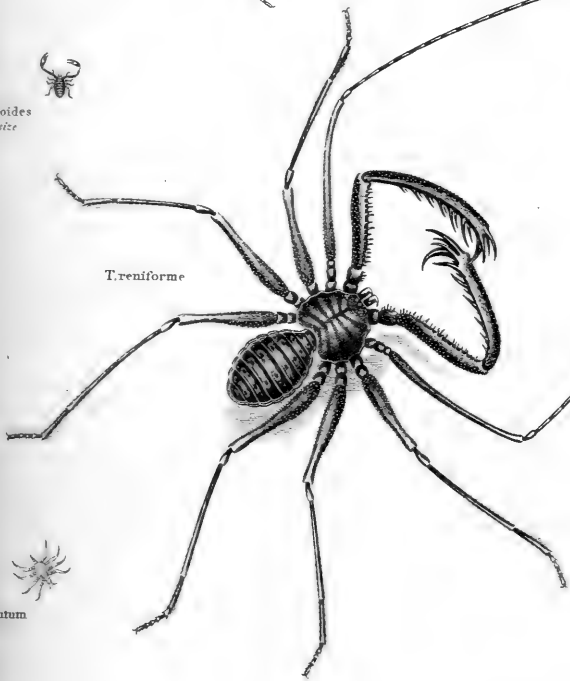
Ph. balnearum



Th. cancroides  
natural size



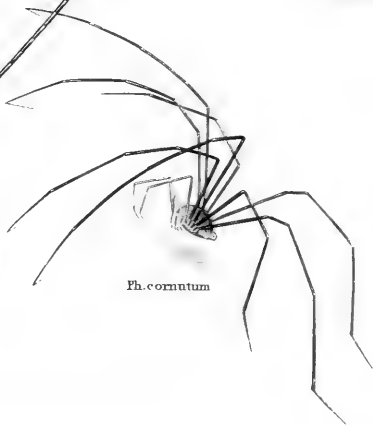
N. grossipes



T. reniforme



Th. cancroides



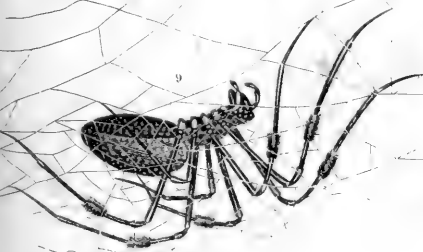
Ph. cornutum



Ph. hirsutum





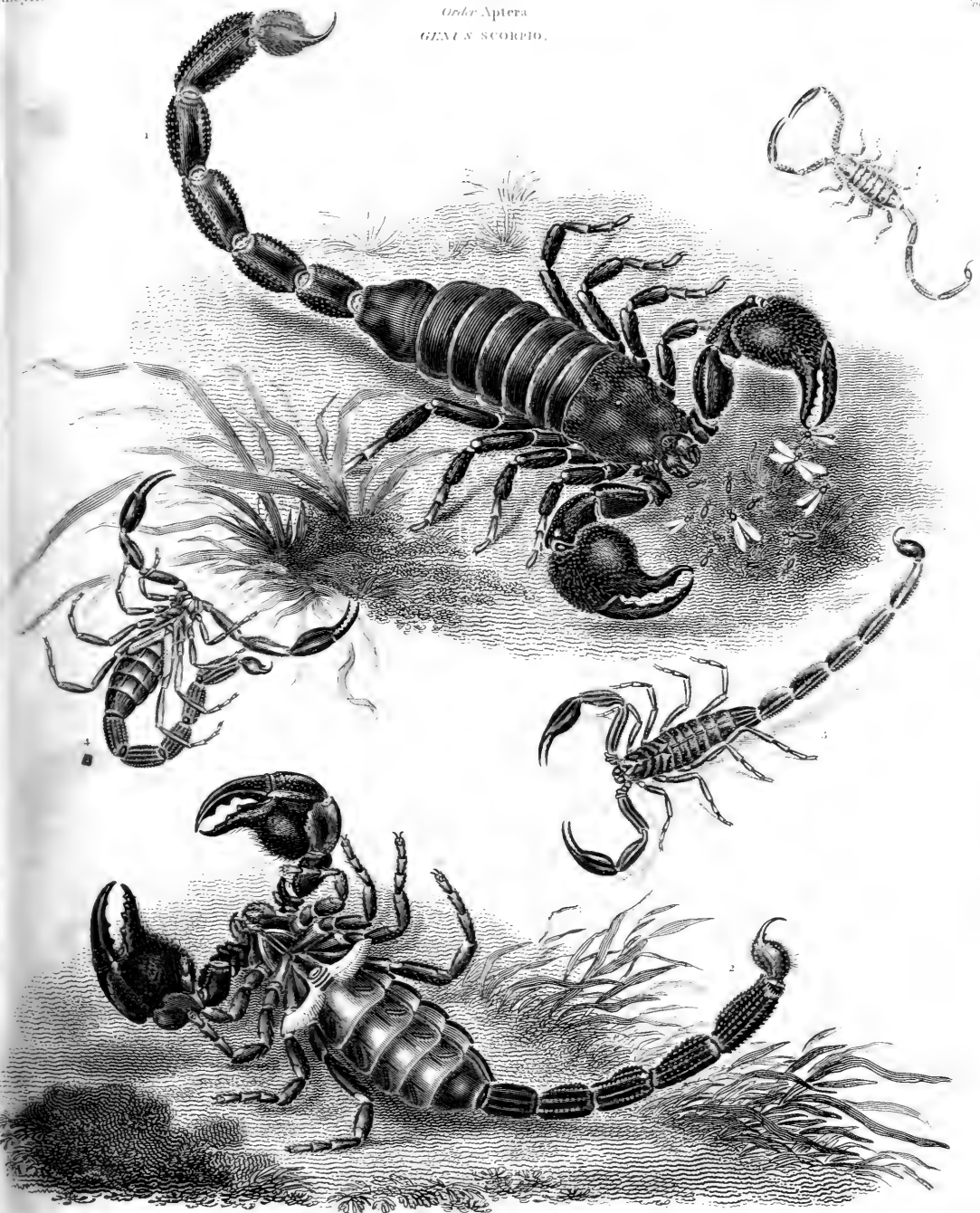


Position of the Eyes in different Spiders

1 •••••	2 •••••	3 •••••	4 •••••	5 •••••	6 •••••	7 •••••	8 •••••	9 •••••
<i>A. Ectus.</i>	<i>A. Globosa.</i>	<i>A. Loricata.</i>	<i>A. Aquatica.</i>	<i>A. Fasciata.</i>	<i>A. Angulata.</i>	<i>A. Tarantula.</i>	<i>A. Avicularia.</i>	<i>A. Maculata.</i>

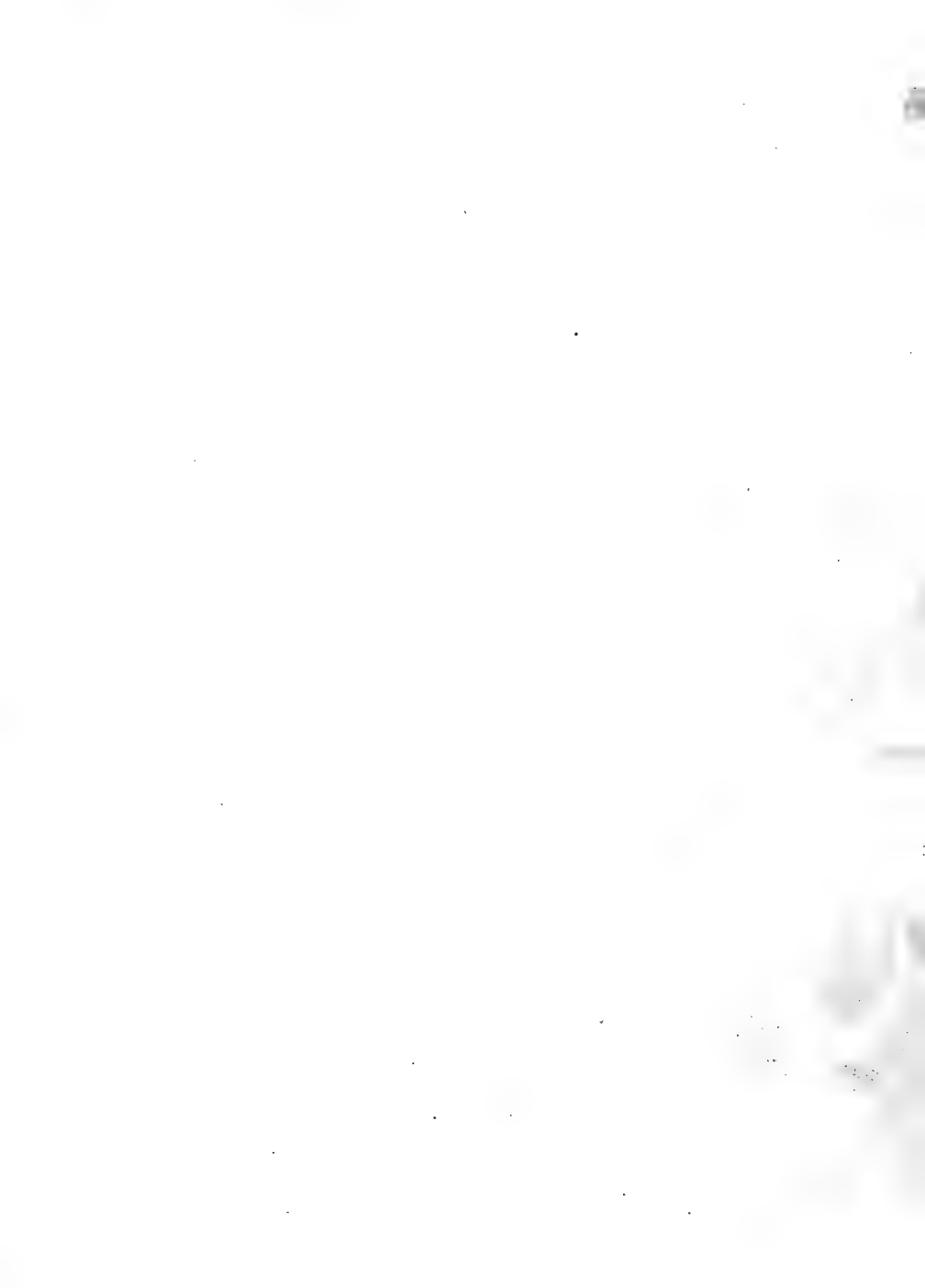


Order APTERA  
GENA SCORPIO.



1. Scorpio afer.      2. S. linearis.      3. S. Europaeus.  
 4. S. Siculus.      5. S. Siculus.

... ..  
 ... ..  
 ... ..



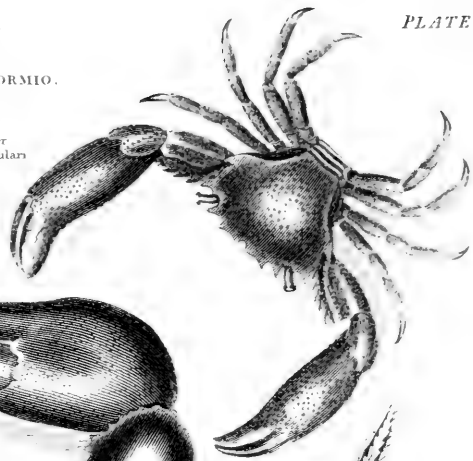
CRUSTACEA.

Order CANCER

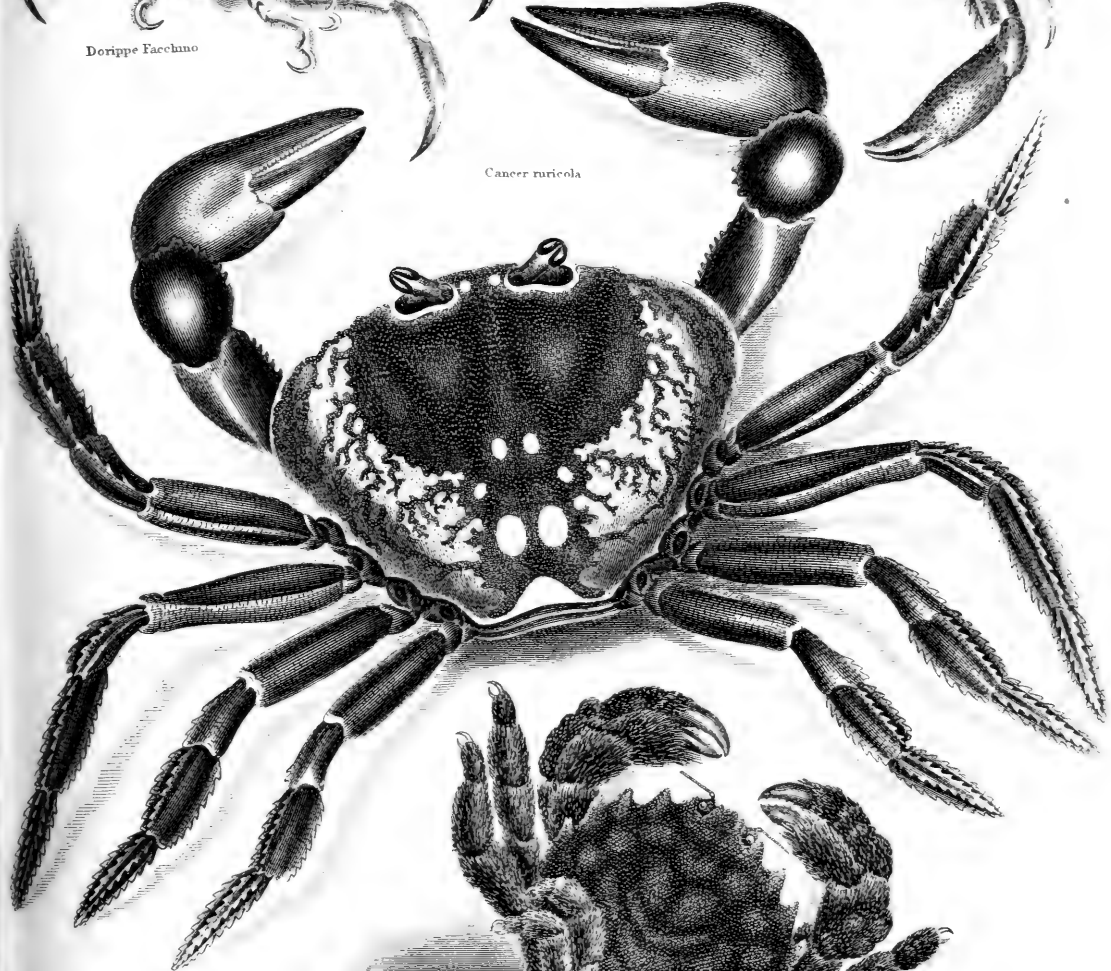
GENUS DORIPPE. GENUS DORMIO.



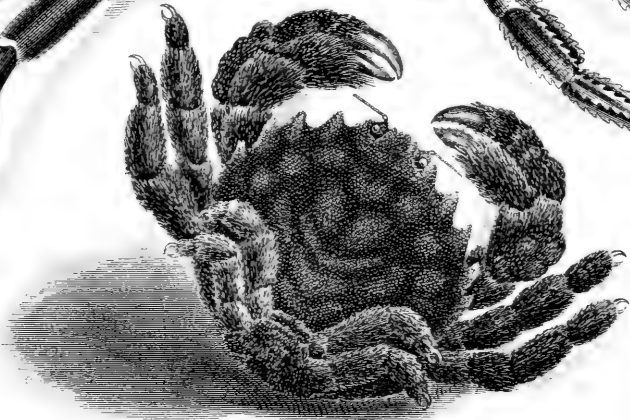
Dorippe facchino



Cancer facicularis



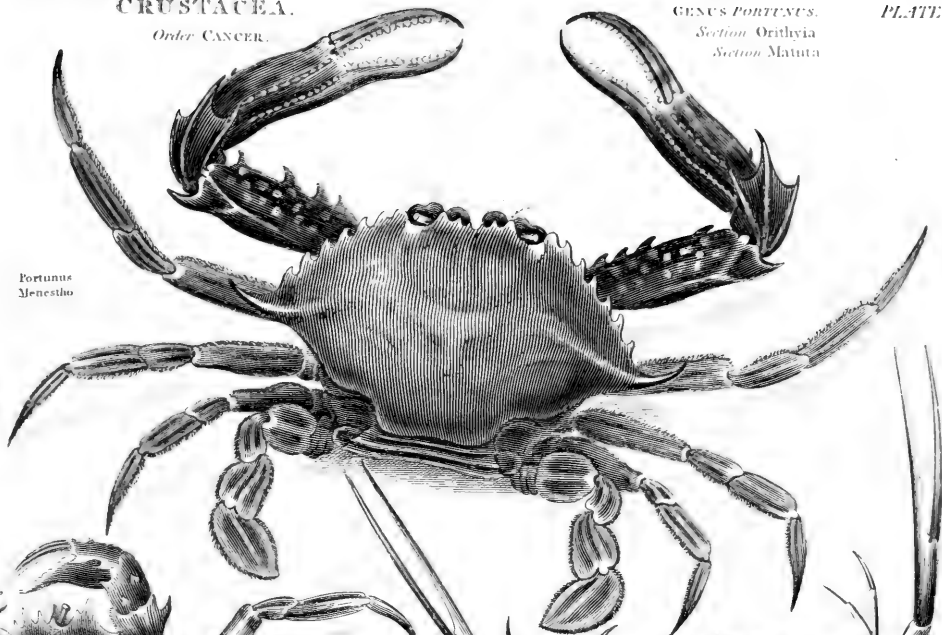
Cancer ruficollis



Dormio artificiosa



Portunus  
Menestho



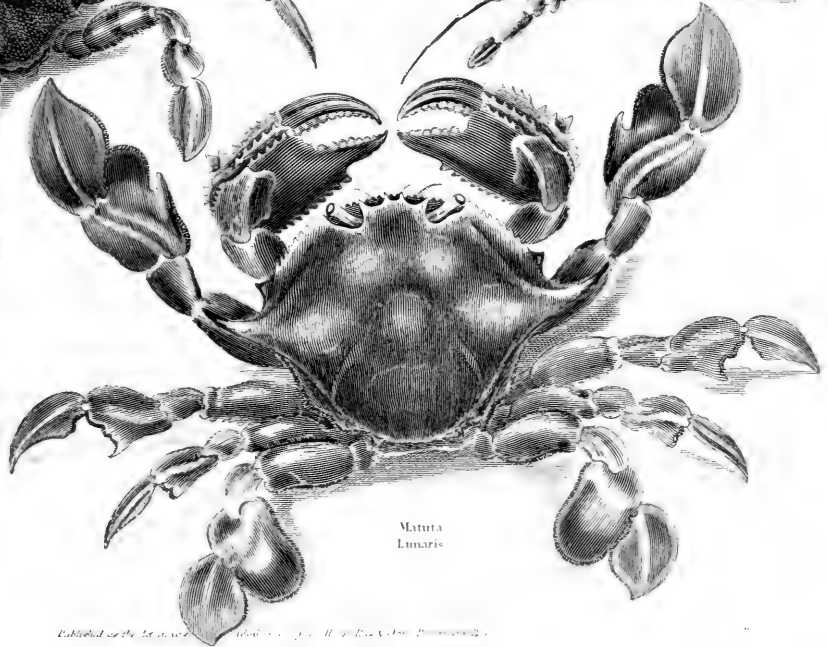
Portunus  
Foreceps

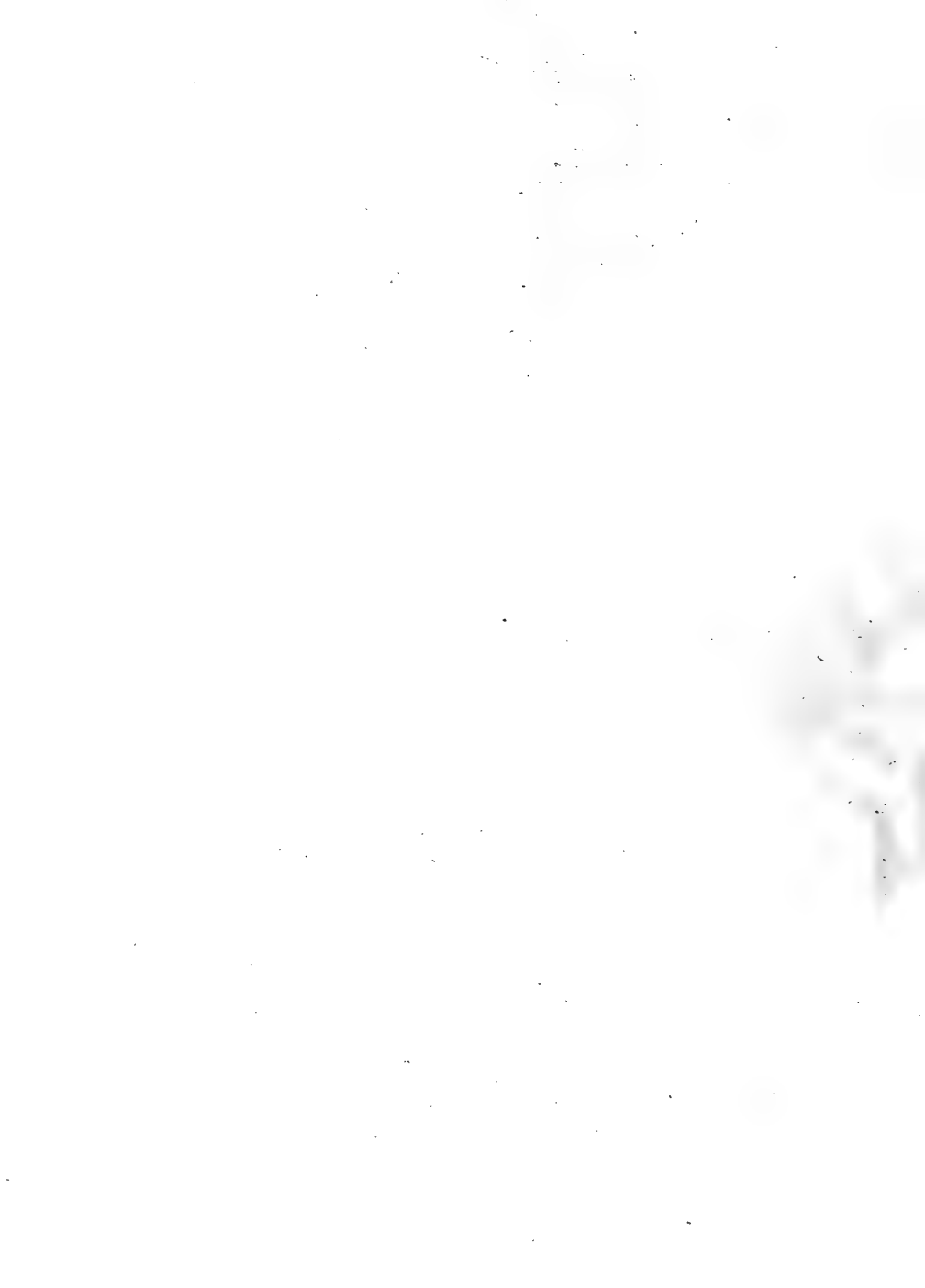


Orithya  
Mammillaris



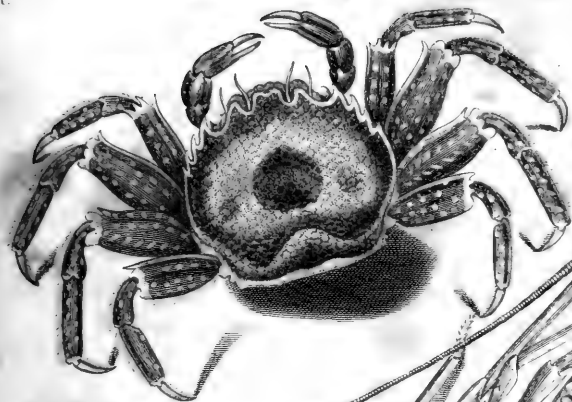
Matuta  
Lunaris



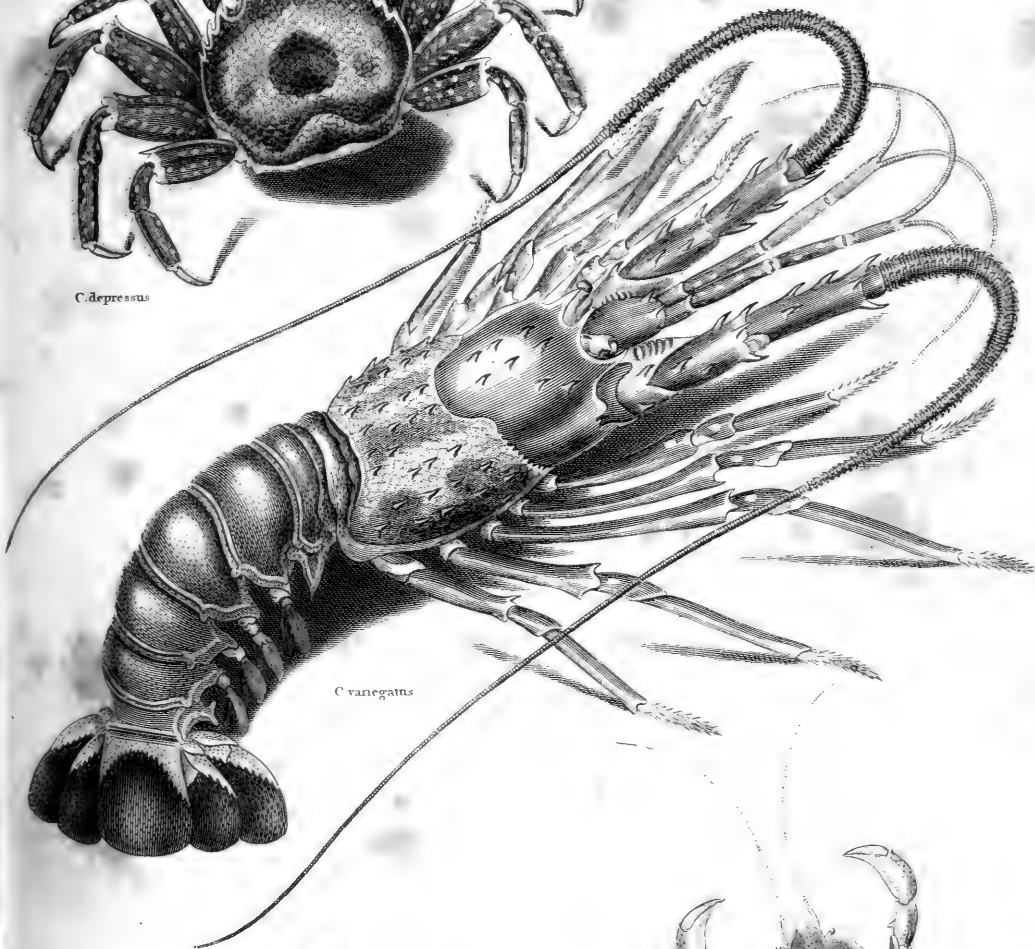




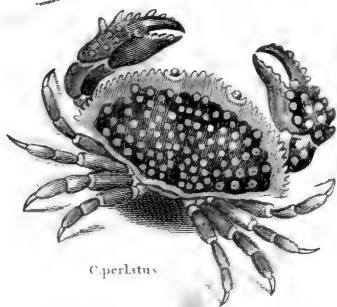
CRUSTACEA.  
GENUS CANCER



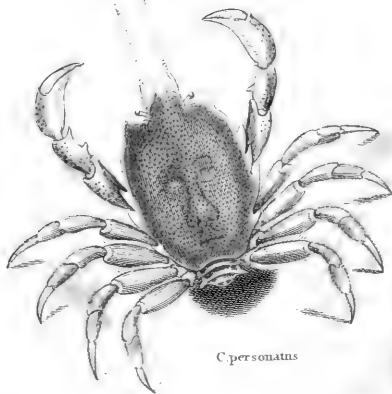
*C. depressus*



*C. variegatus*



*C. perlatus*

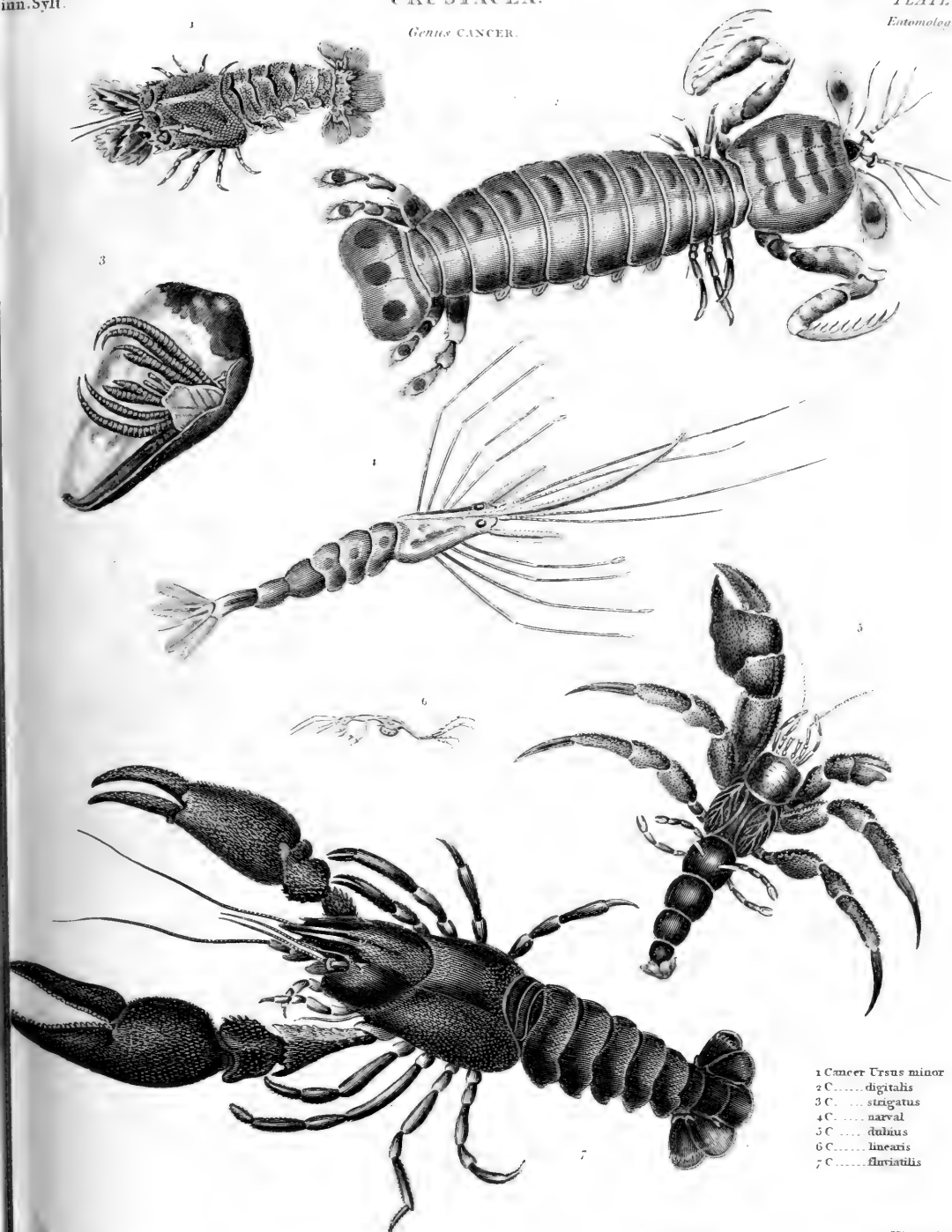


*C. personatus*



Genus CANCER.

Entomoleus



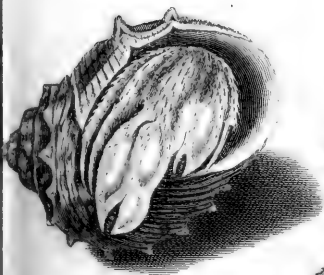
- 1 Cancer Ursus minor
- 2 C..... digitalis
- 3 C..... strigatus
- 4 C..... narval
- 5 C..... tubius
- 6 C..... lineans
- 7 C..... fluviatilis



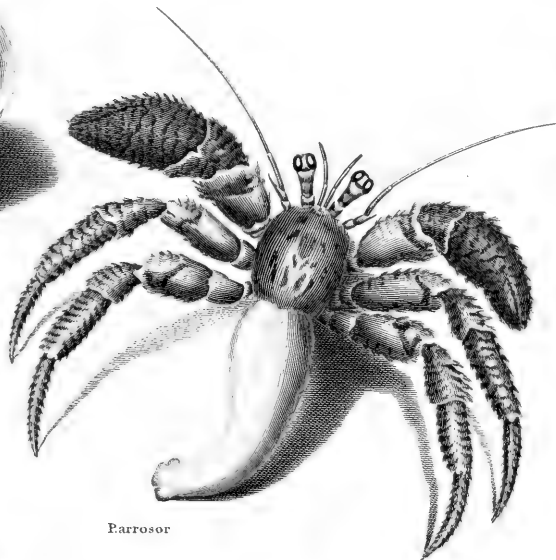
CRUSTACEA.

Order CANCER.

GENUS PAGURUS . G. GAMMARUS . G. GAMMARELLUS.



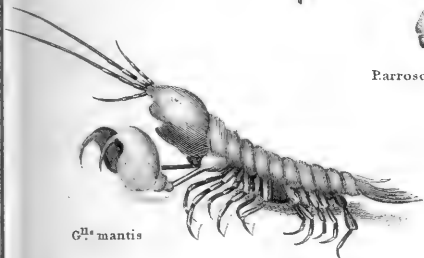
P. excavatus



Parrosor



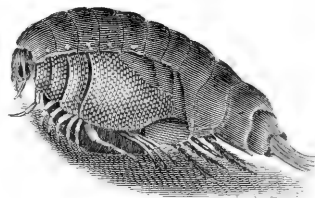
Peanaticulatus



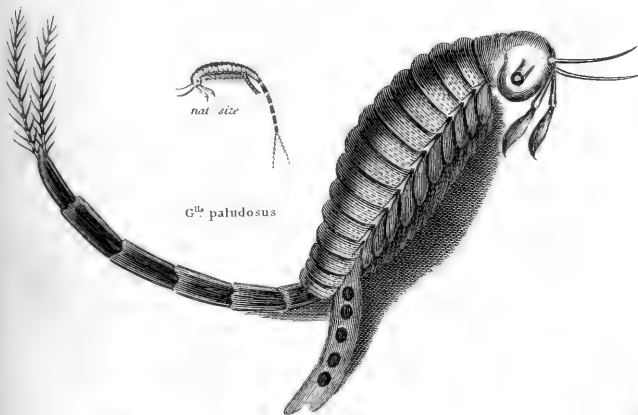
G<sup>l</sup> mantis



G<sup>l</sup> podurus



G ampulla



G<sup>l</sup> paludosus



G<sup>l</sup> spinosus



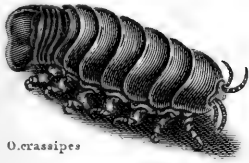
G<sup>l</sup> pulex. Haster



G<sup>l</sup> linearis



Order *APTERA*



*O. crassipes*



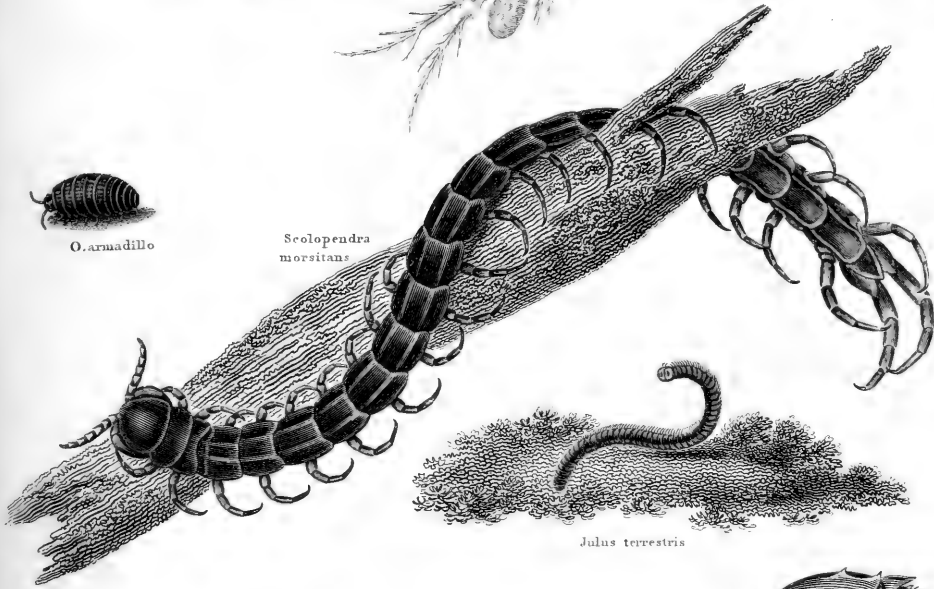
*M. quadricornis*



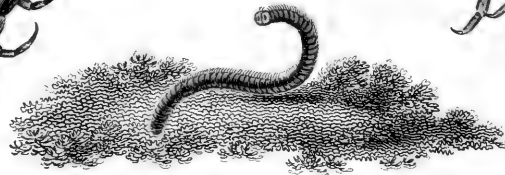
*O. oceanicus*



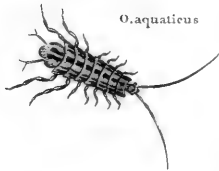
*O. armadillo*



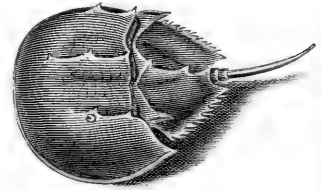
*Scolopendra morsitans*



*Julus terrestris*



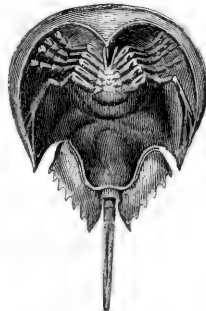
*O. aquaticus*



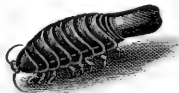
*M. polyphemus*



*Oniscus psora*



*Monoecus polyphemus*



*O. oestrus*



*O. psora*

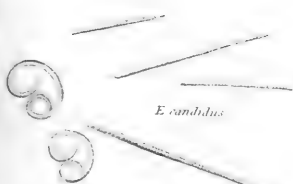




VERMES.

Order: Intestata.

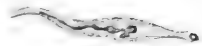
Genus ASCARIS G. ECHINORHINCHUS G. FASCIOLA G. LINGULATI.



*E. candidus*



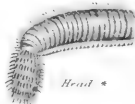
*F. Luca*



*F. alba*



*F. brunnea*



Head \*



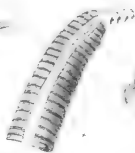
Head \*



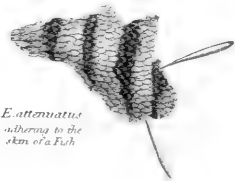
*F. coryphæa*



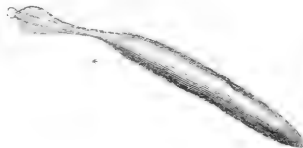
*E. lineolatus*



Head \*



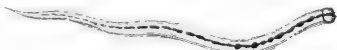
*E. attenuatus*  
adhering to the  
skin of a Fish



*E. attenuatus*



*L. abrupta*



*A. vermicularis*



*L. abrupta*



*F. Scorpius*

*F. Aegleina*



*F. Leucoperca*

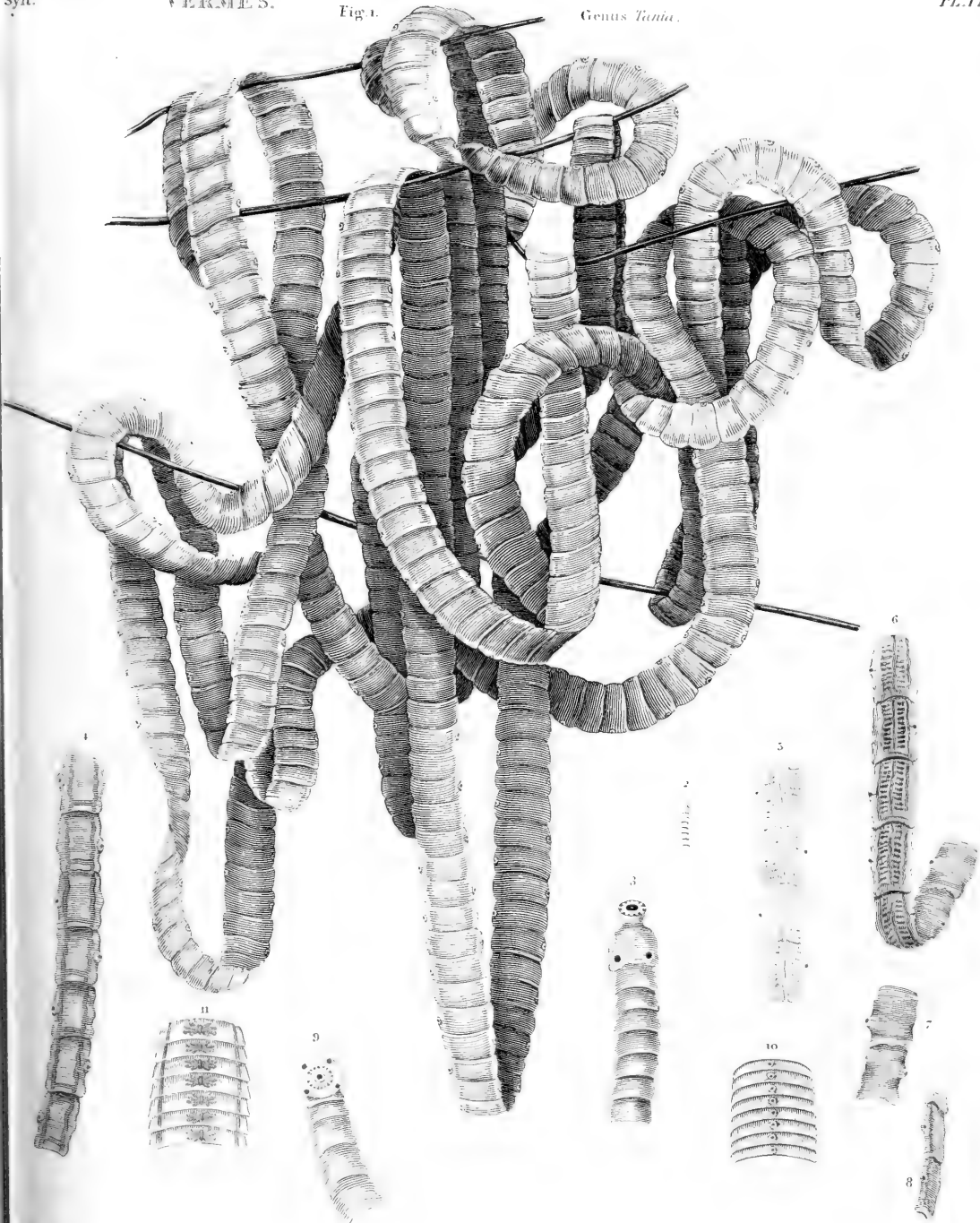
*F. binodis*



*F. Branca*



Fig 1.





G. Planaria.

G. Sipunculus.

G. aquaticus

G. aquaticus

Lum. terrestris

Lum. terrestris var.

Lim. maximus

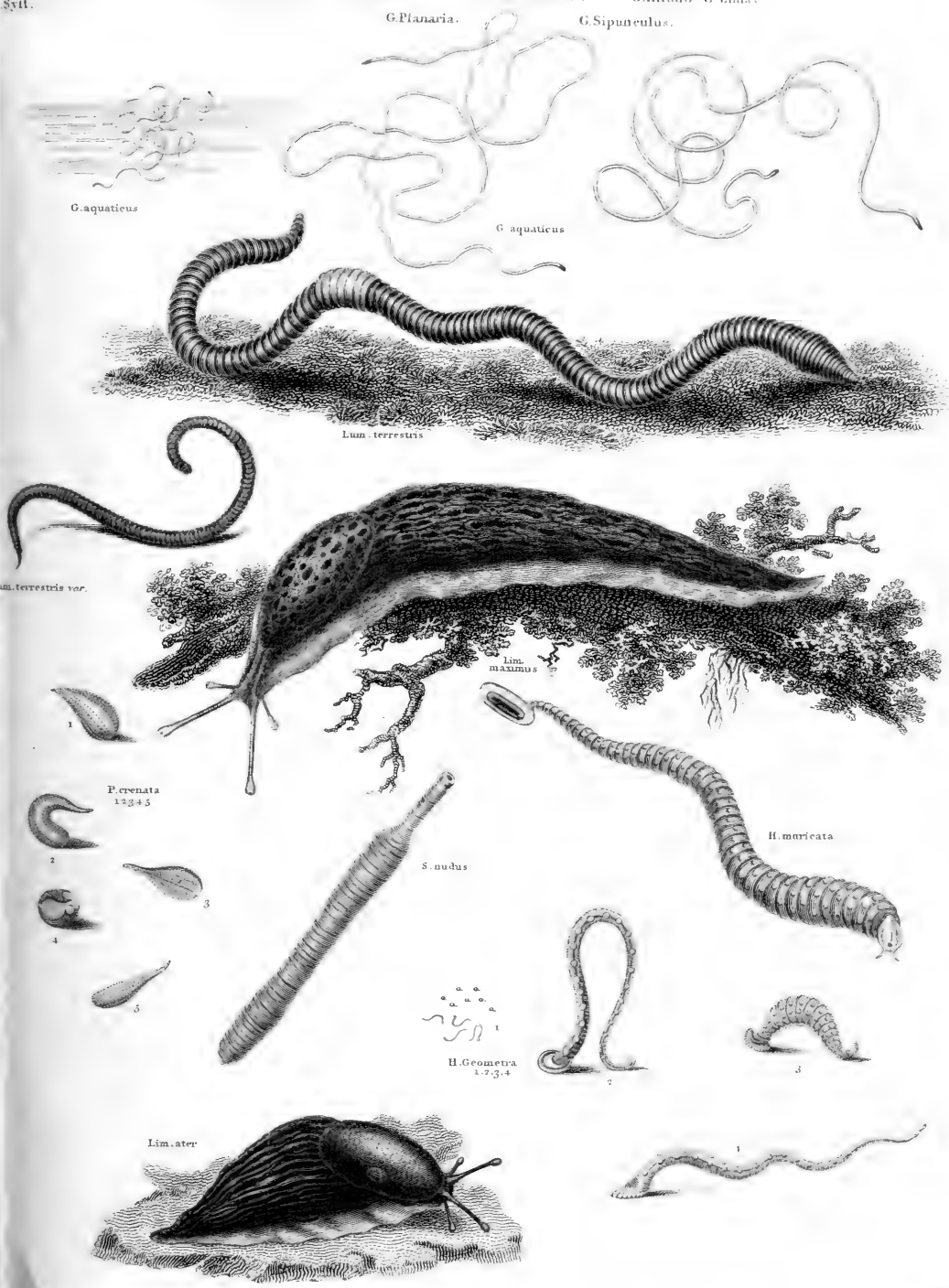
P. crenata  
1 2 3 4 5

S. nudus

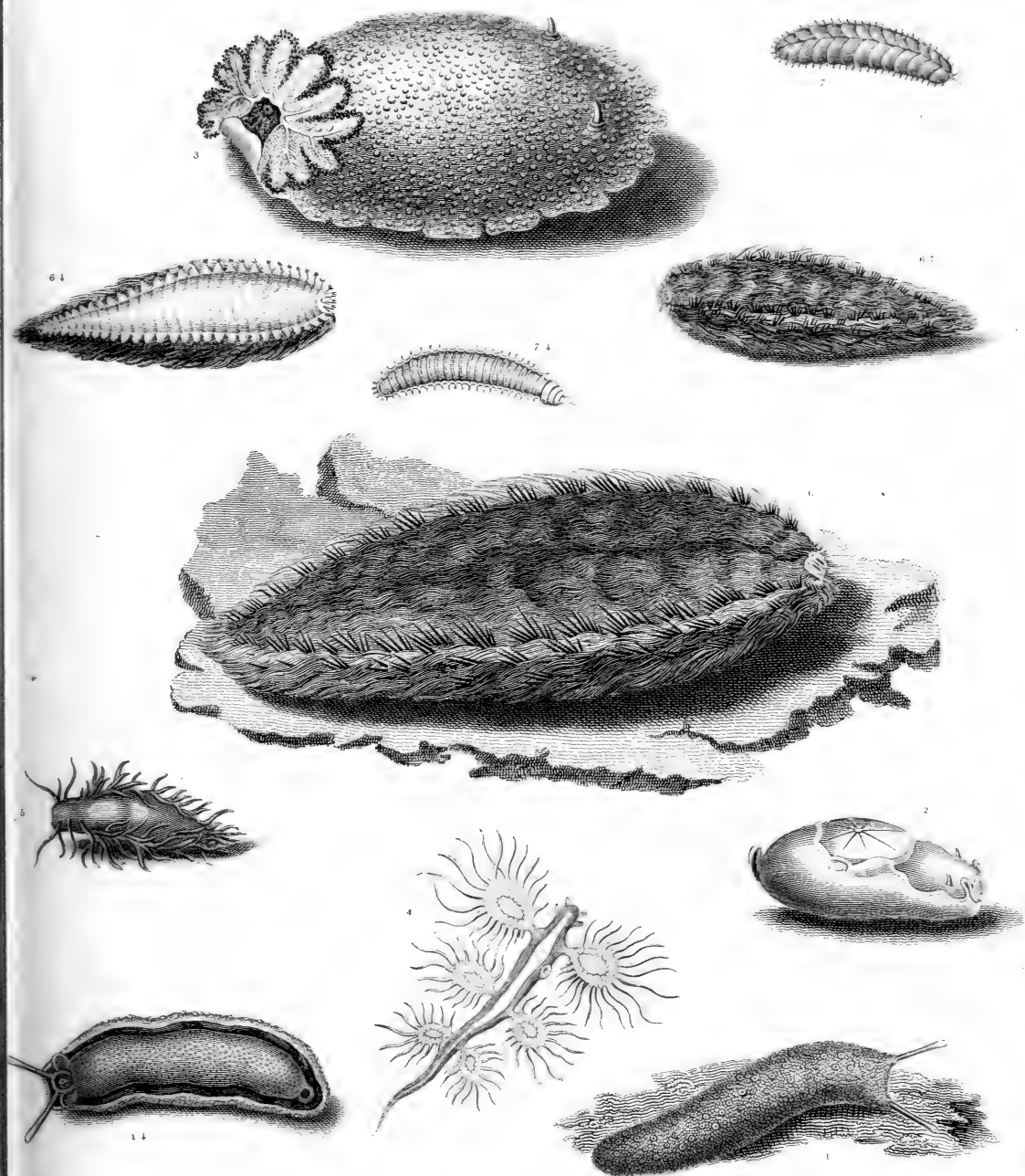
H. muricata

H. Geometra  
1 2 3 4

Lim. ater







1. Otyphæ. 2. L. depilans. 3. D. argo. 4. D. radiata. 5. D. papillosa. 6. A. aculeata. 7. A. squamata.

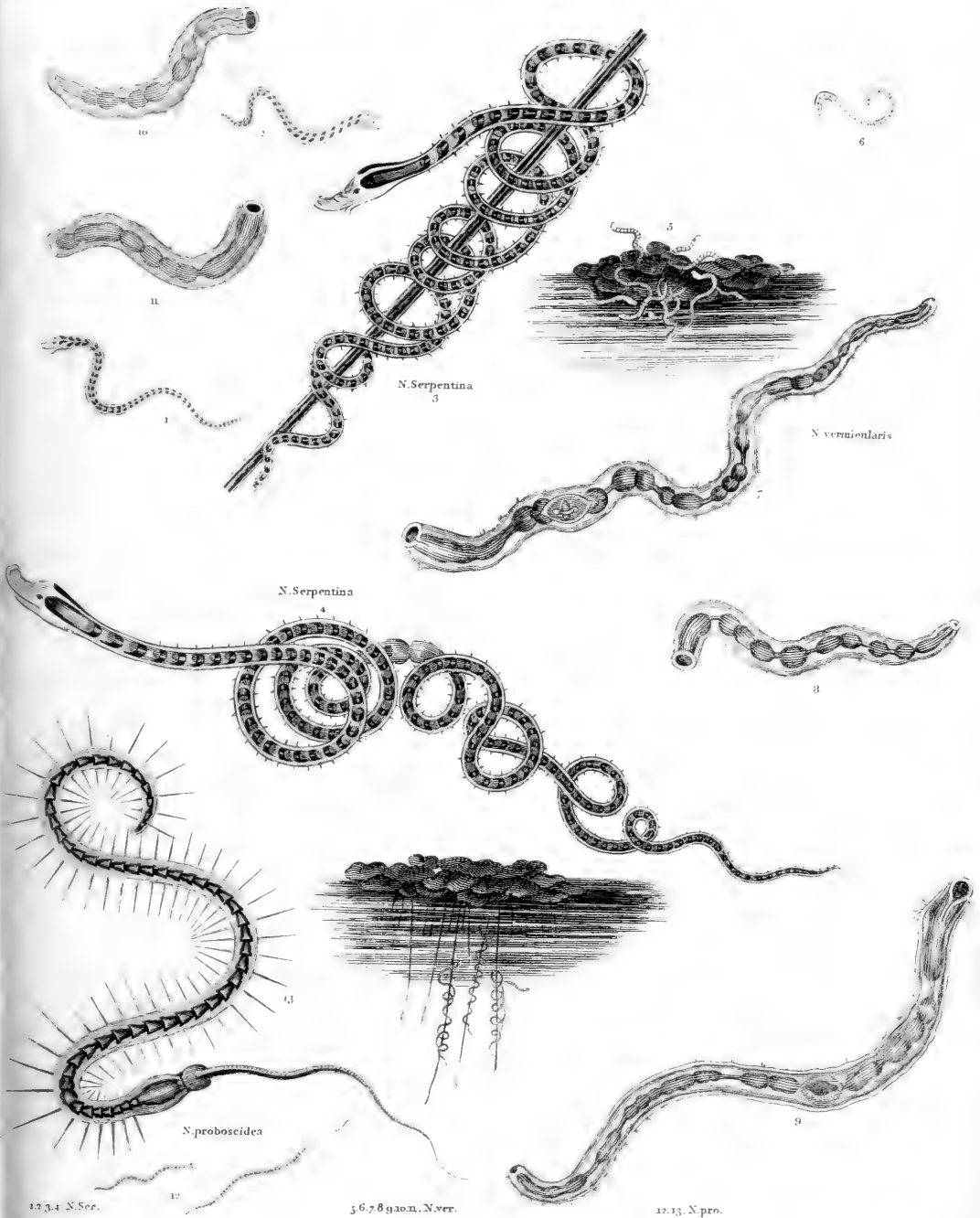
HINDLIN O. 2. SEA HIRE. 3. SEA LEMON. 4. RADIATED D.

4 under curia. 1 young.

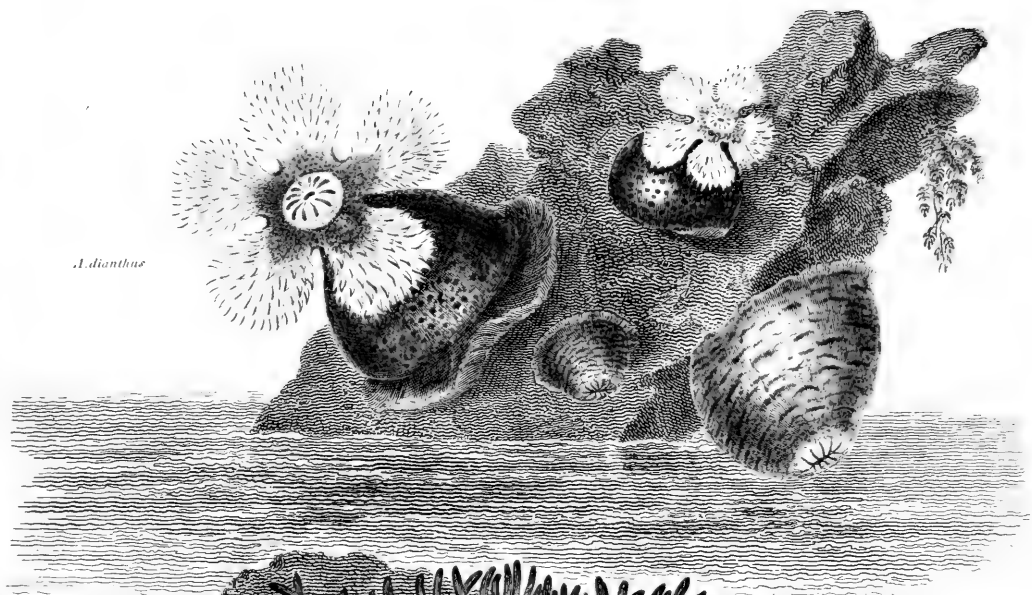
5 PAPILLOUS D. 6 SEA MOUSE. 7. SCALY SEA-MOUSE.



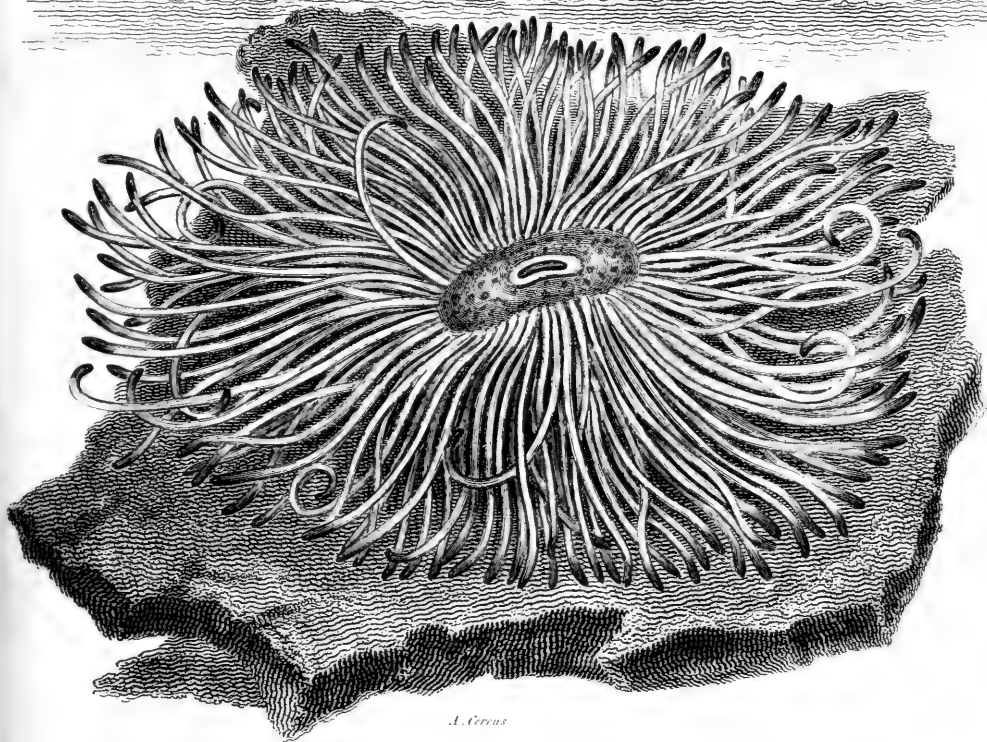




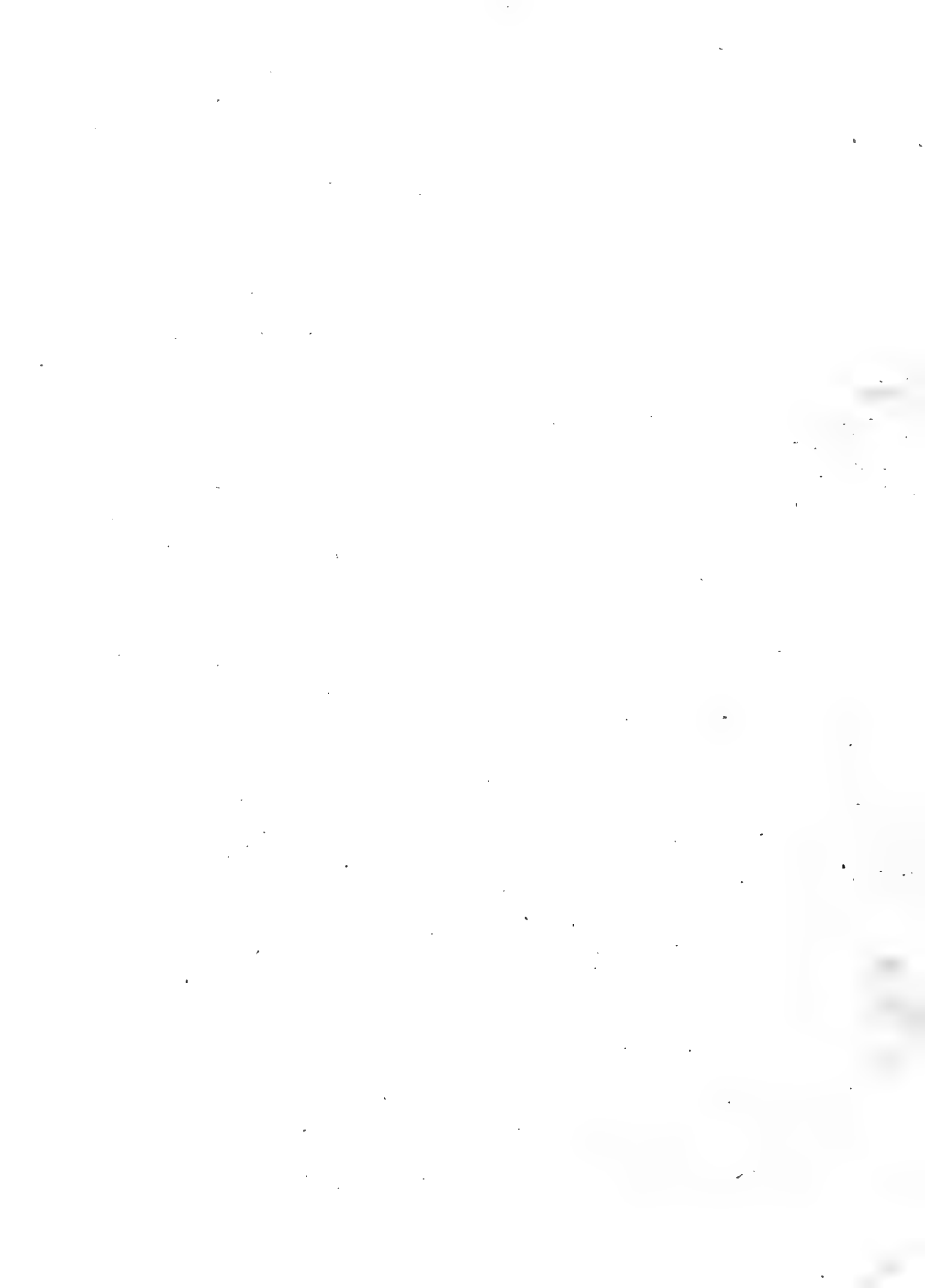




*A. dianthus*

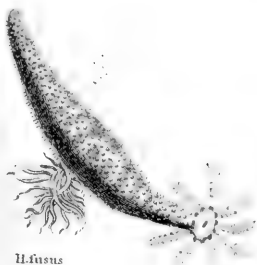


*A. Circus*



# ZOOLOGY.

Class VERMES - Order MOLLUSCA - GENUS HOLOTHURIA.



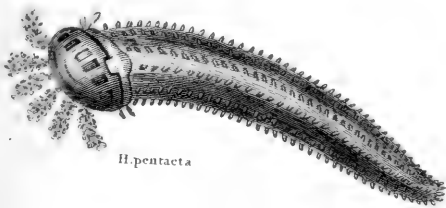
H. fusus



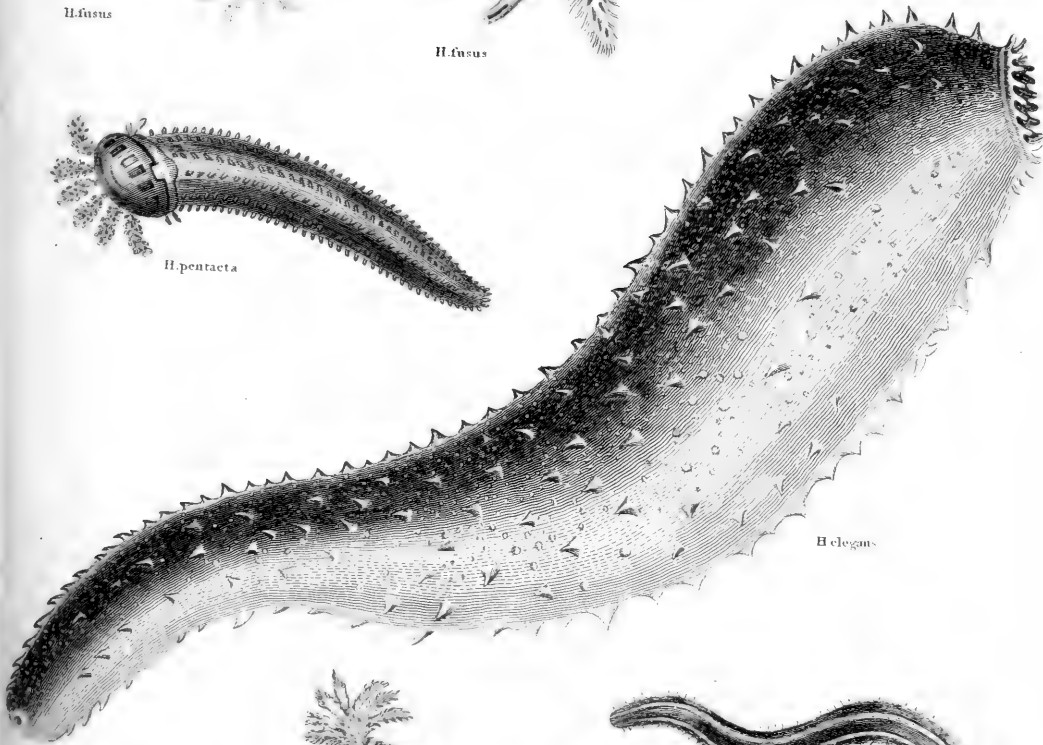
H. fusus



H. penicillus



H. pentacta



H. elegans



H. squamata



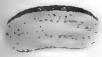
H. squamata  
with tentacula expanded



H. inhaerens



H. inhaerens

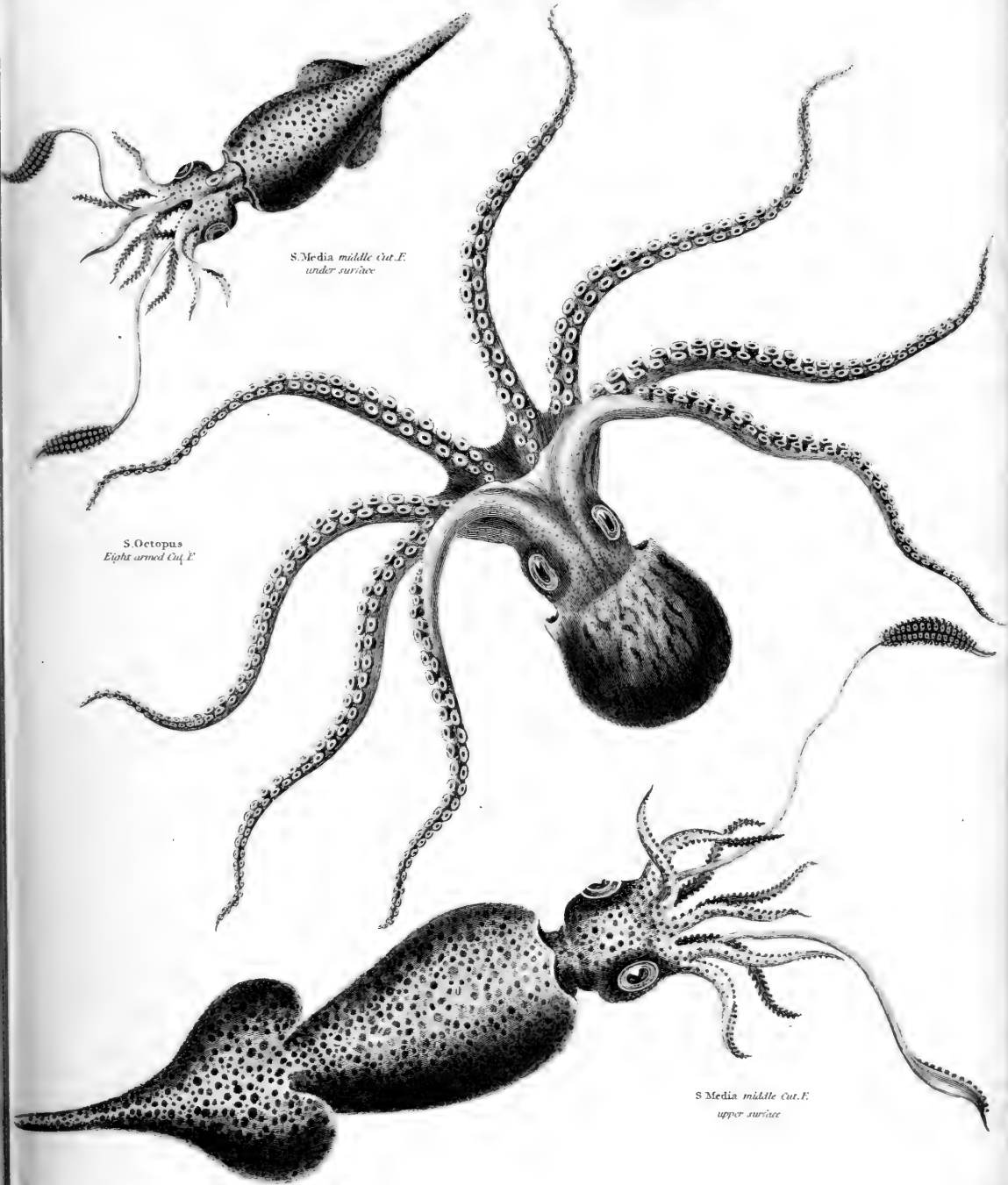


Under surface



Order Mollusca.

Genus Sepia—Cuttle Fish



*S Media middle Cut.F.  
under surface*

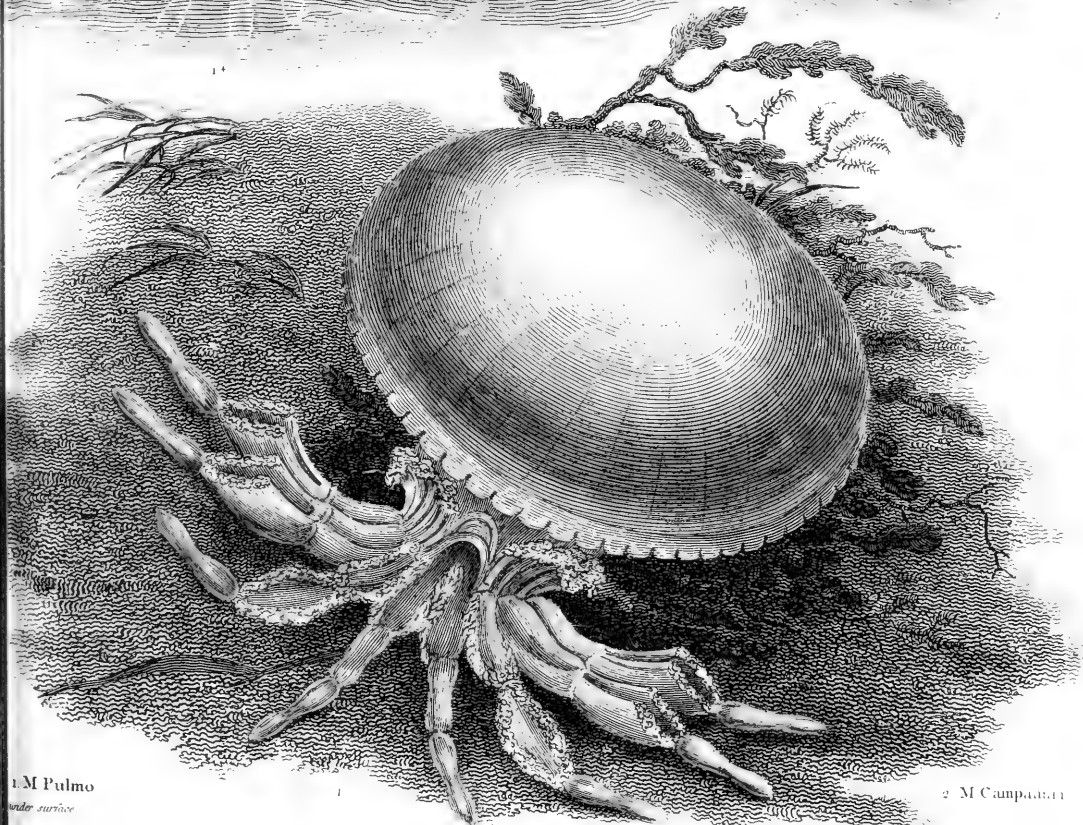
*S Octopus  
Eight armed Cut.F.*

*S Media middle Cut.F.  
upper surface*





Order Mollusca Genus *Medusa*



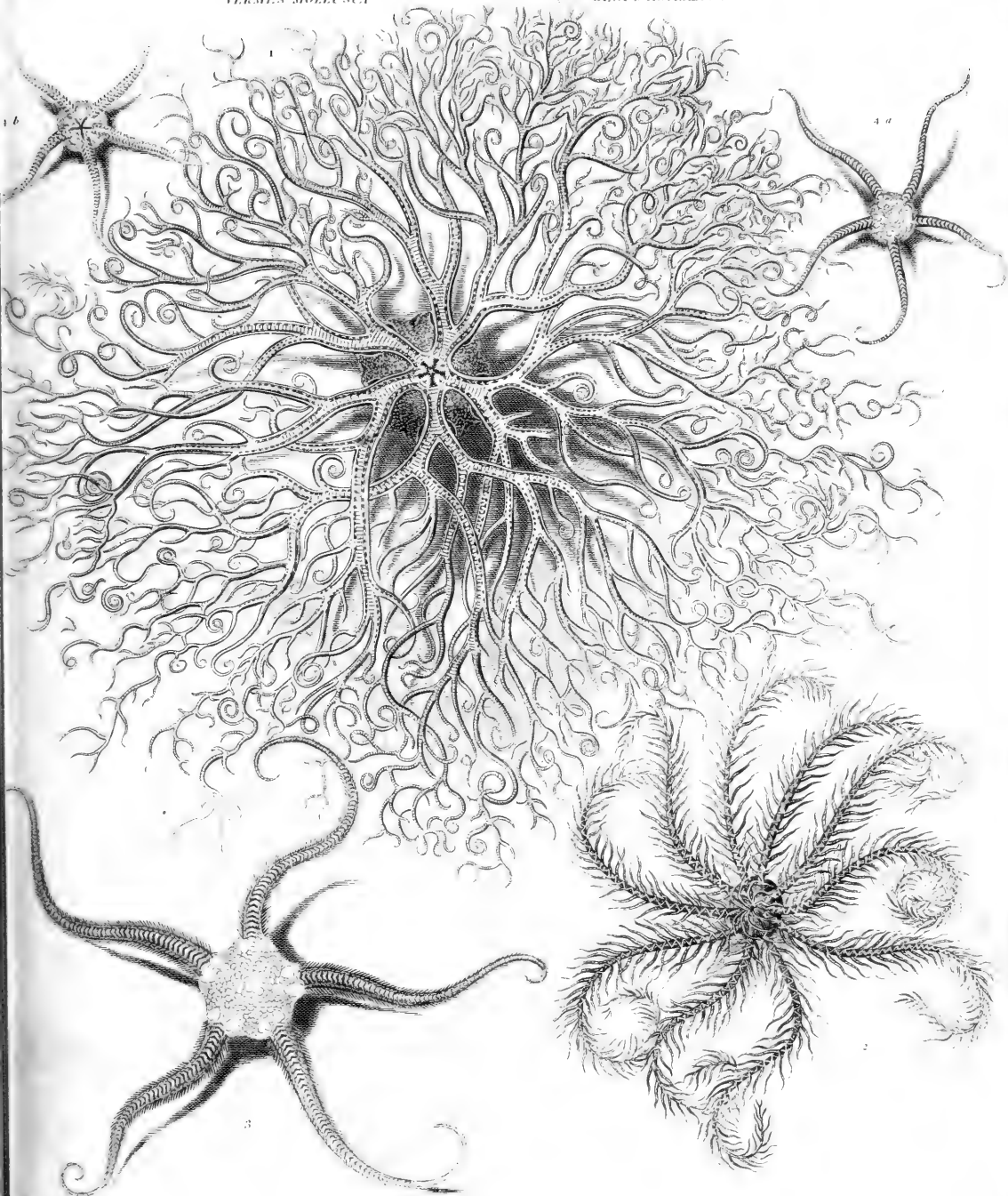
1 M Pulmo  
under surface

2 M Campana



VERMES MOLLUSCA

GENUS ASTERIAS or Sea Star



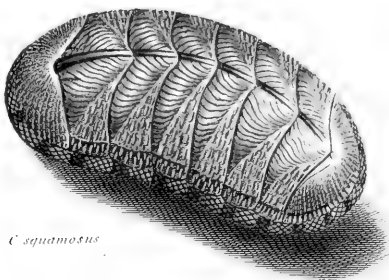
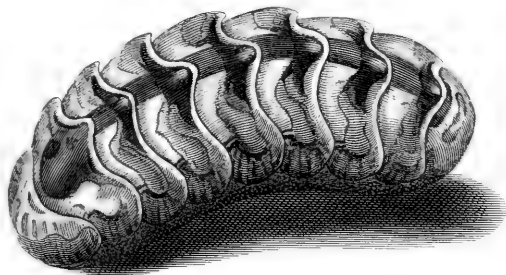
1. A. *Giput Melosae*      2. A. *posticata*      3. A. *sphaerulata*      4. A. *ophiura* { *species novae*  
 MILDUSIS DE ID. SEAS.    PECTINIFID SEAS.    BEADED SEAS.    LIZARD TAIL SEAS } *6. under de*

Published as the Act direct May 1<sup>st</sup> 1841 by Longman Hurst, Rose & Co. in St. Pauls Church-yard London.



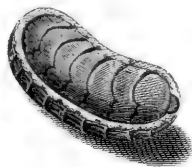
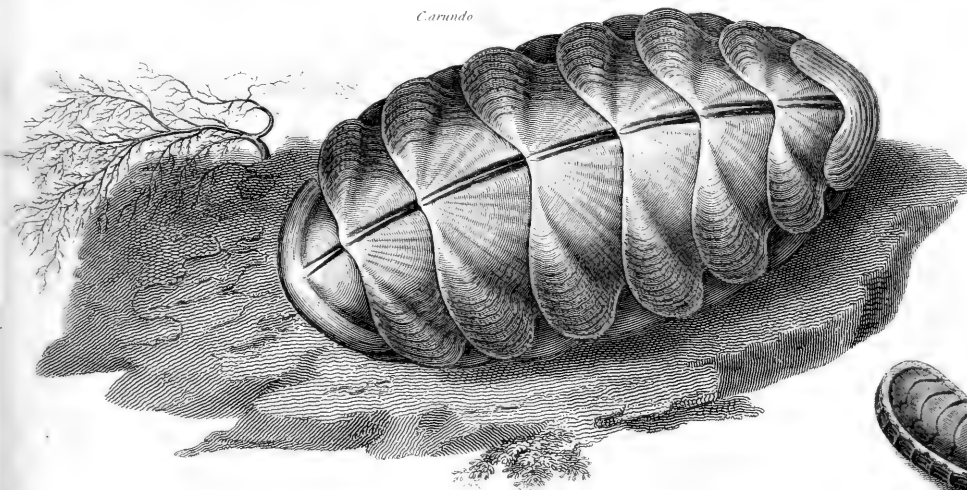
GENUS *CHITON*

*C. aculeatus*



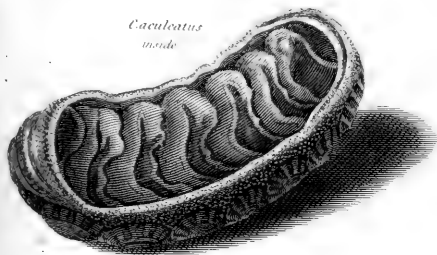
*C. squamosus*

*Carando*

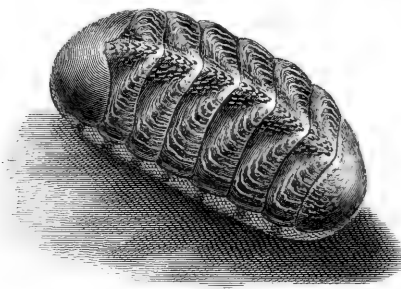


*Collyareus*  
*musci.*

*Caculeatus*  
*intide*



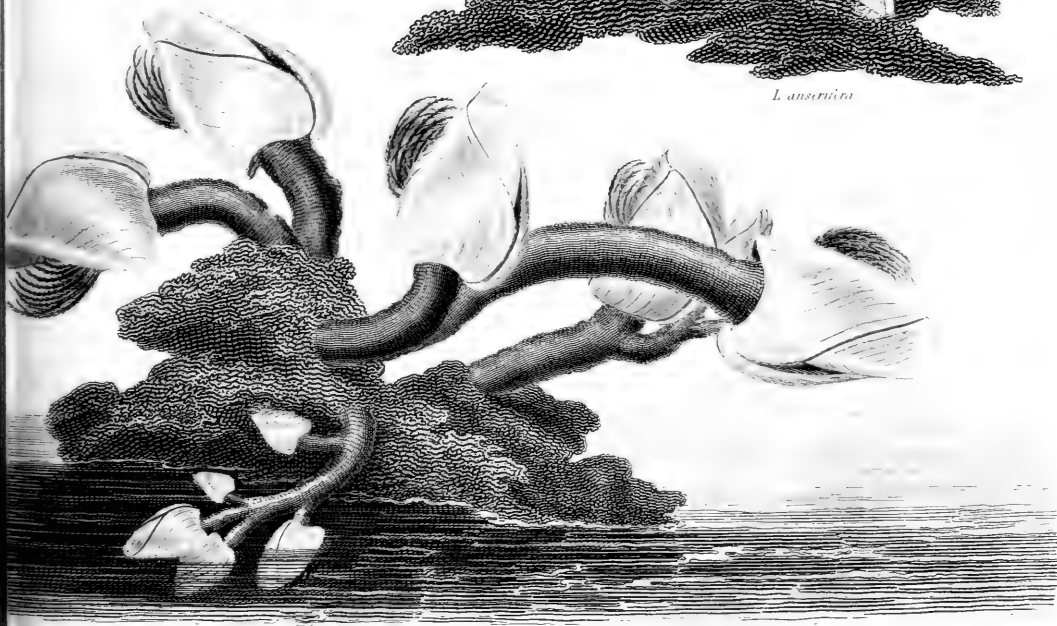
*C. olivaceus*







*L. anserina*



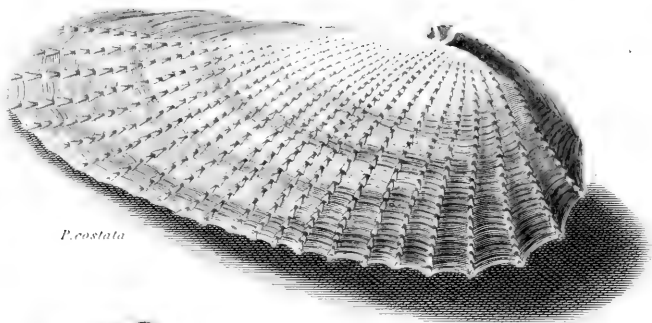
*L. anatina*



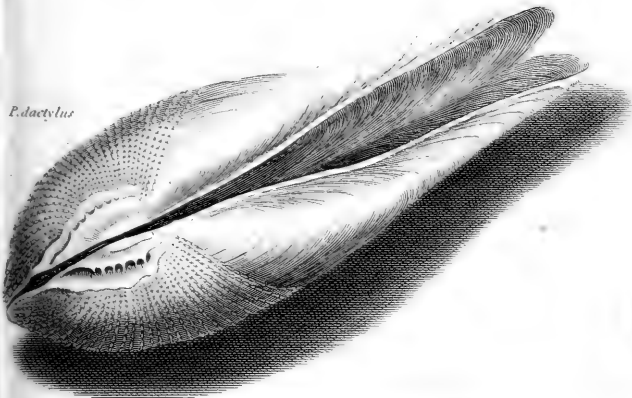




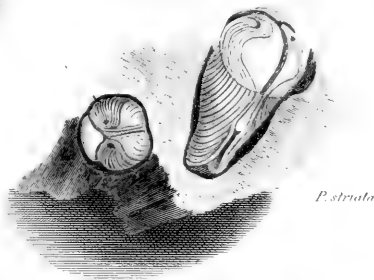
*P. striata*



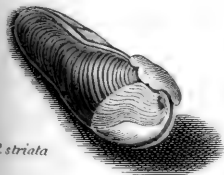
*P. costata*



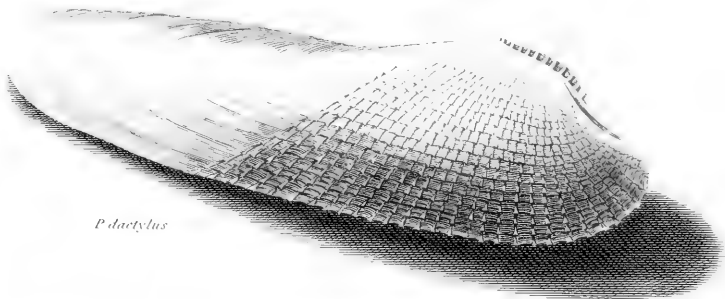
*P. daactylus*



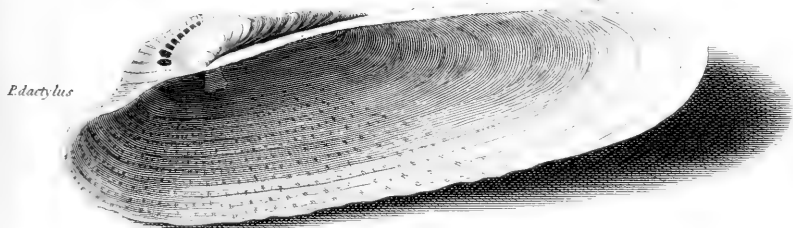
*P. striata*



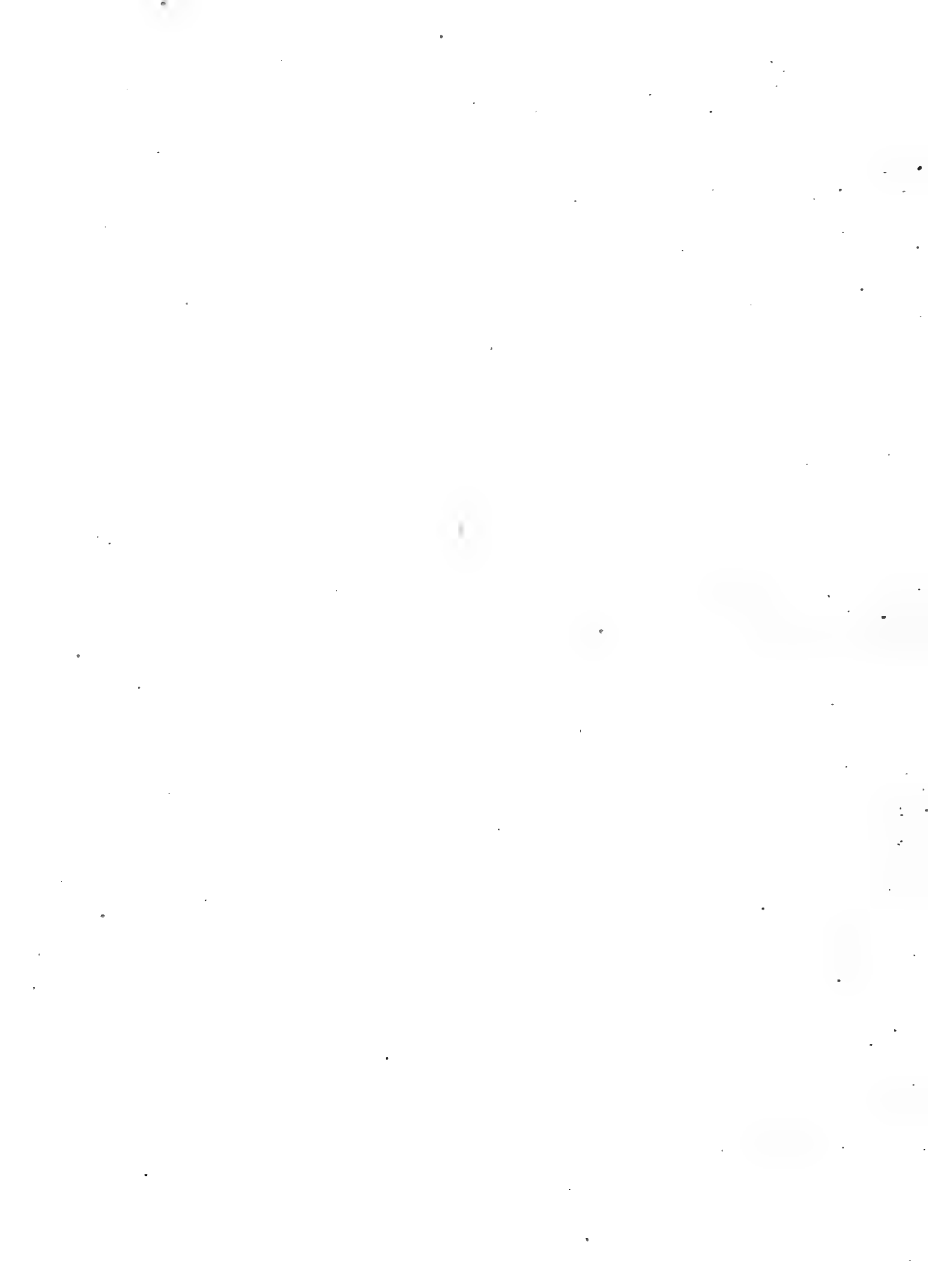
*P. striata*



*P. daactylus*



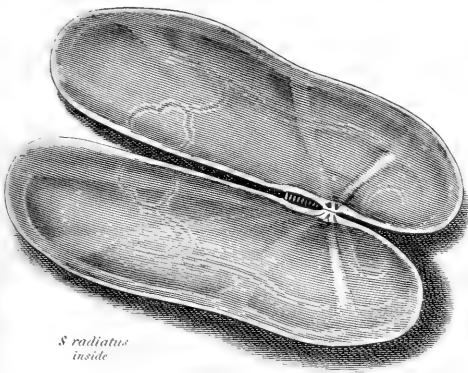
*P. daactylus*



CONCHIOLOGY.

GENUS SOLEN

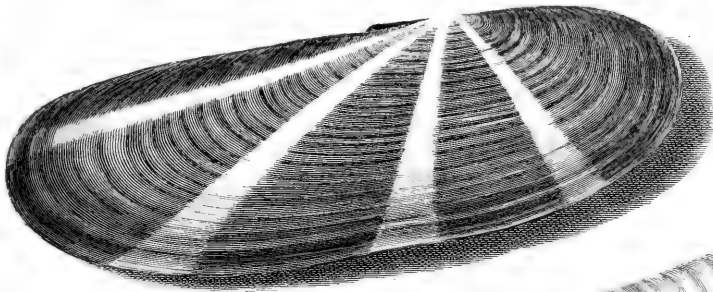
PLATE



*S. radiatus*  
inside



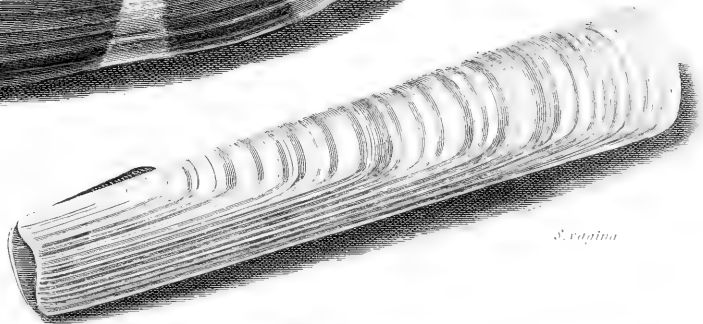
*S. striolatus*



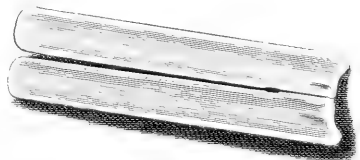
*S. radiatus*



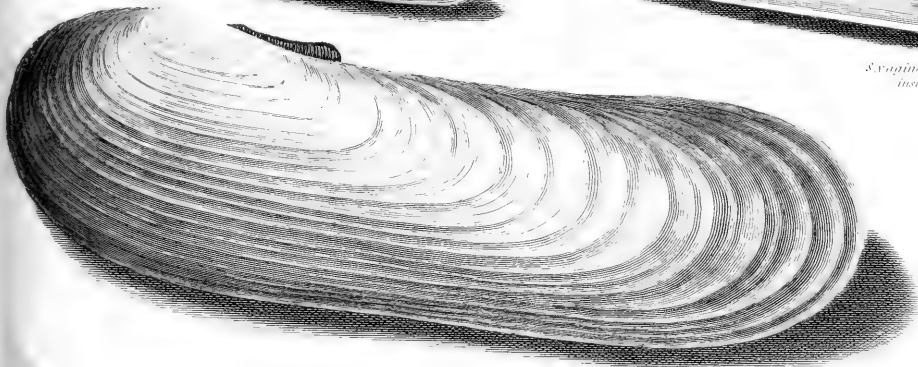
*S. ensis*

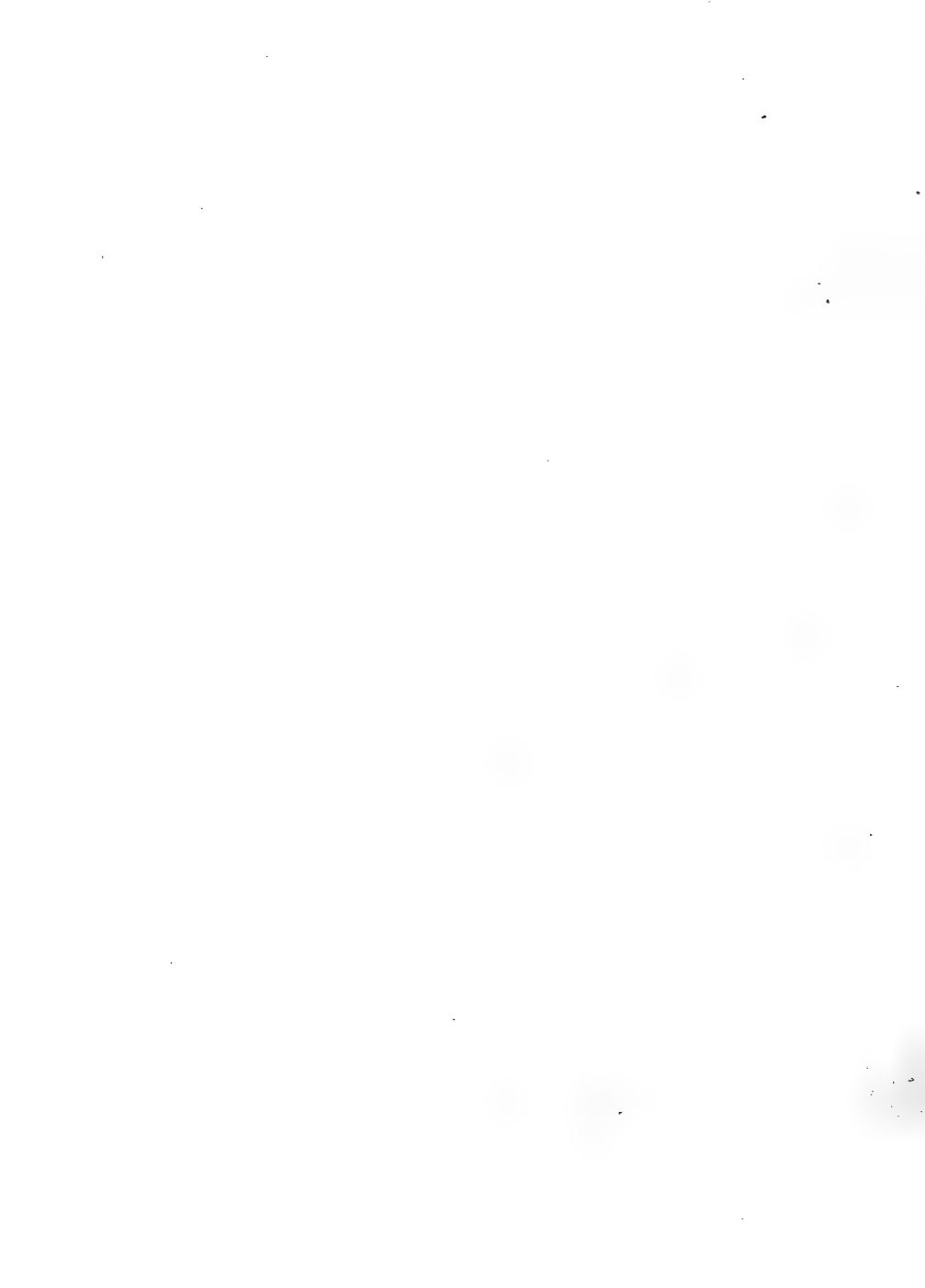


*S. vagina*



*S. vagina* young  
inside

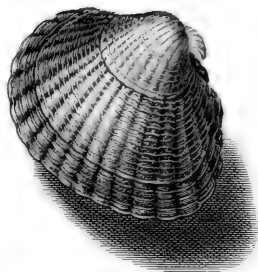




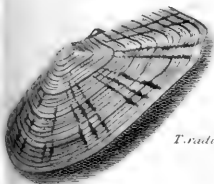
GENUS TELLINA — GENUS CARDIUM.



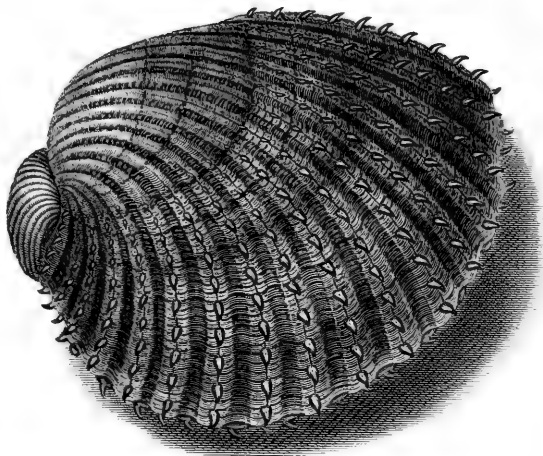
*Cardium*



*C. edule var.*



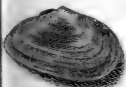
*T. radiata*



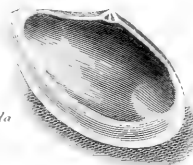
*Cardium aculeatum*



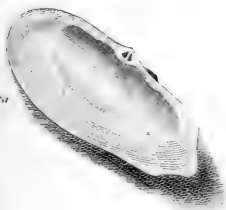
*Tellina bimaculata*



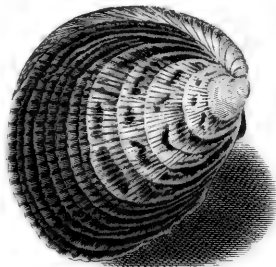
*T. fabulata lot side.*



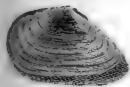
*T. aequalida inside.*



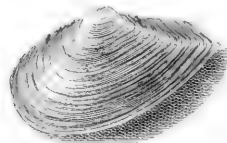
*T. radiata inside.*



*C. laevigatum*



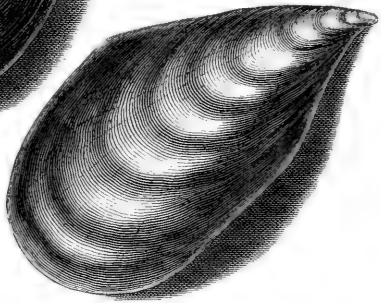
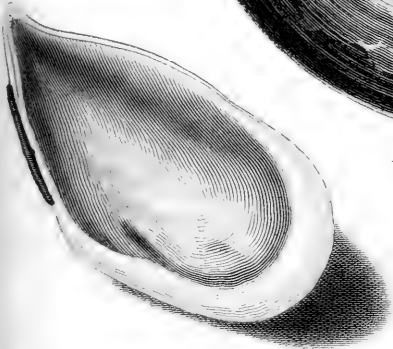
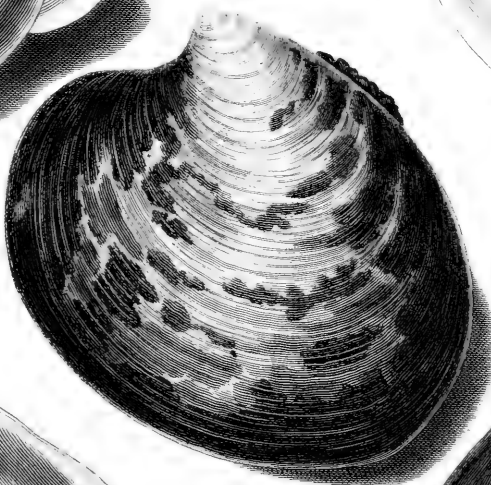
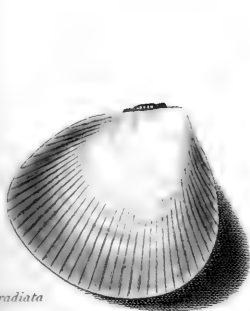
*T. fabulata right side.*



*T. aequalida*



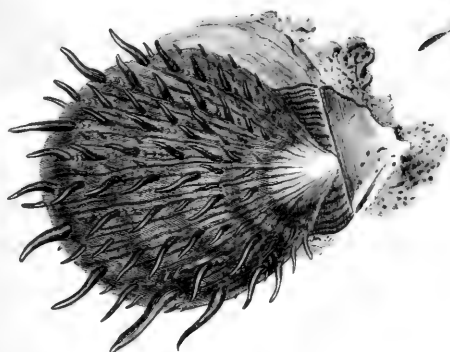
GENUS MYA G. MITRA G. CHIMA. GENUS G. MYTILUS G. DON. &c.



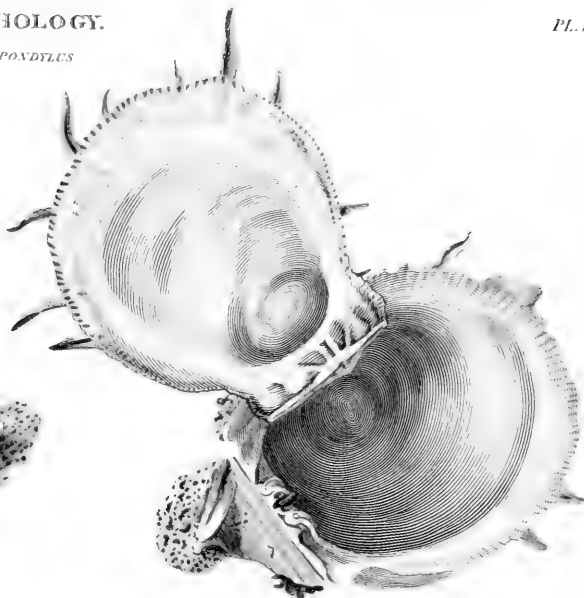




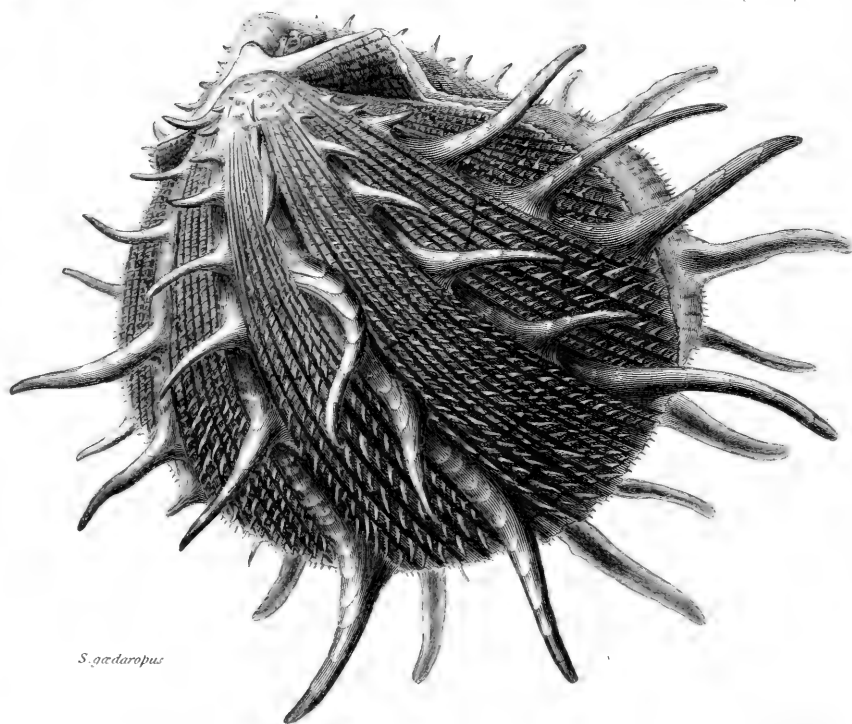
Genus SPONDYLES



*S. gædaropus* var



*S. gædaropus* var



*S. gædaropus*



CONCHIOLOGY.

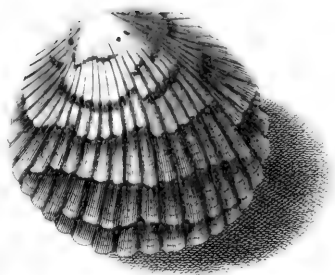
Genus *ARCA*.

PLATE VIII.

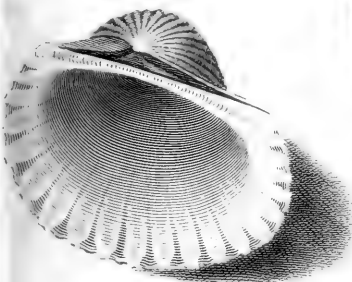
*A. tortuosa*  
*usata*



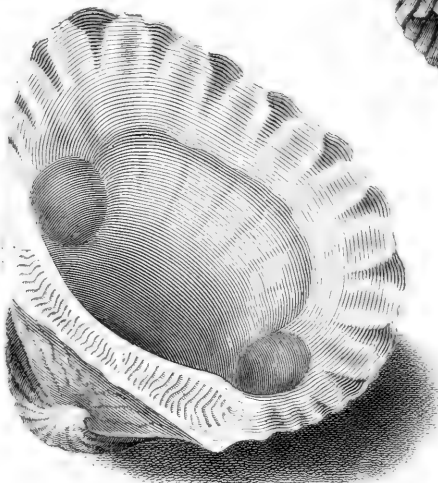
*A. nodulosa*



*A. nodulosa*  
*usata*

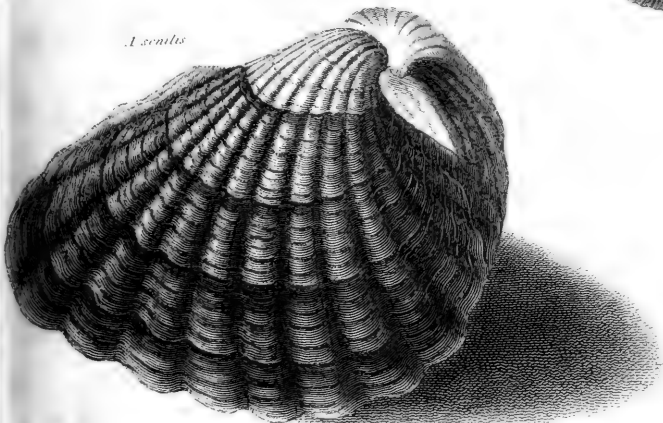


*A. senilis*  
*usata*

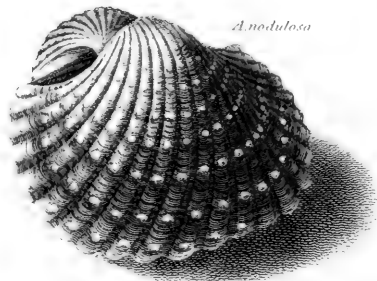


*A. tortuosa*

*A. senilis*

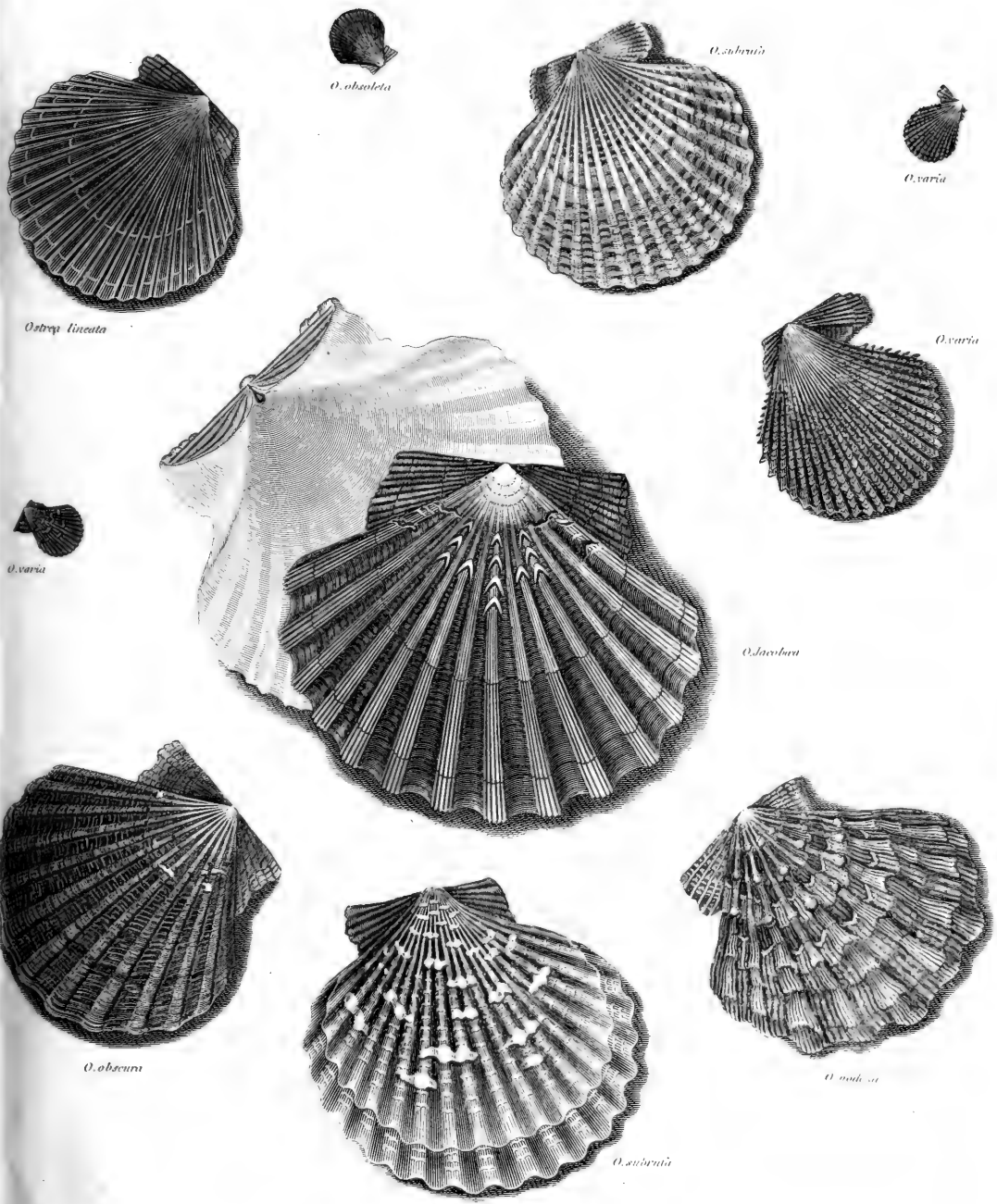


*A. nodulosa*





GENUS OSTREA.



*O. obsoleta*

*O. subrotunda*

*O. varia*

*Ostrea lineata*

*O. varia*

*O. varia*

*O. Jacquin*

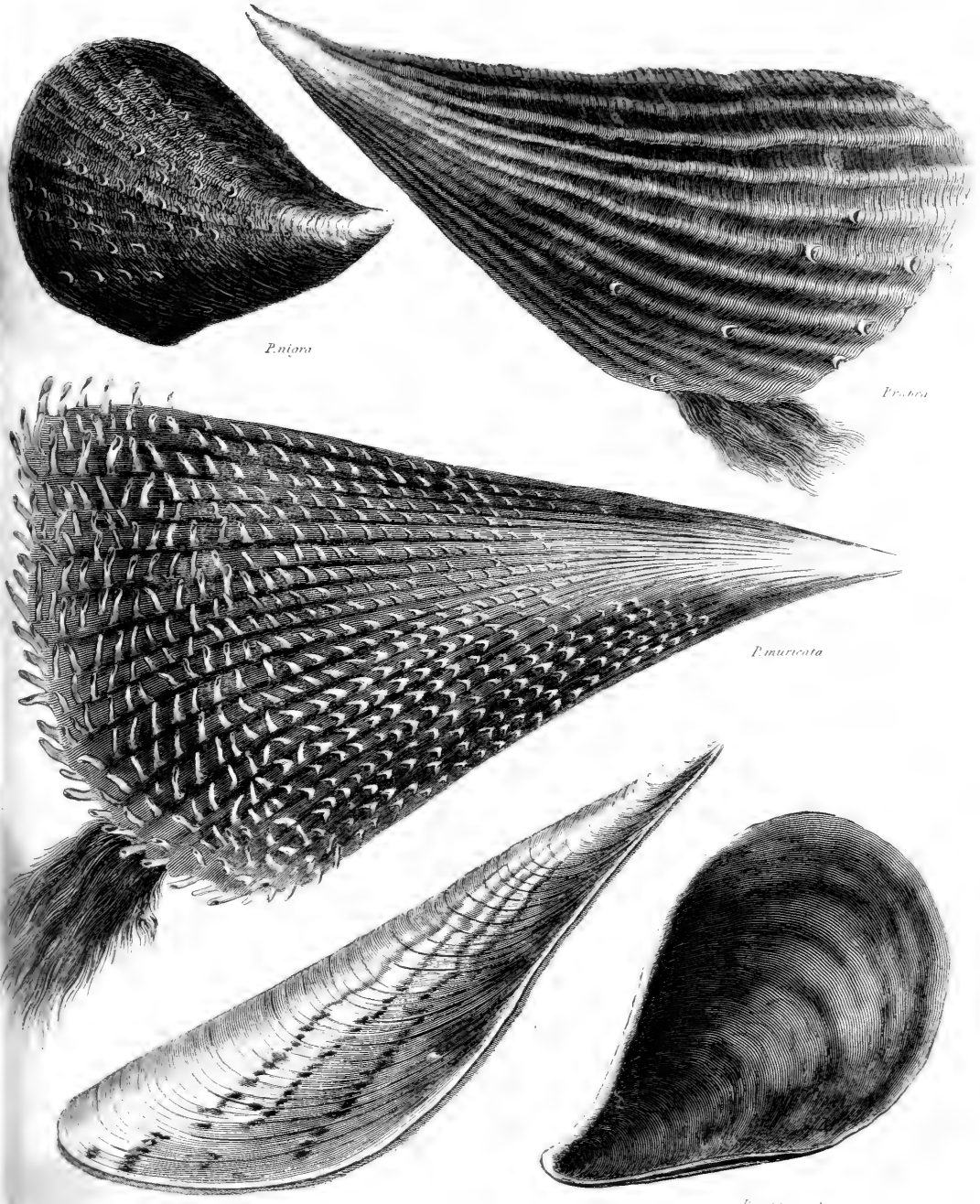
*O. obscura*

*O. nodosa*

*O. subrotunda*



Genus PINNA



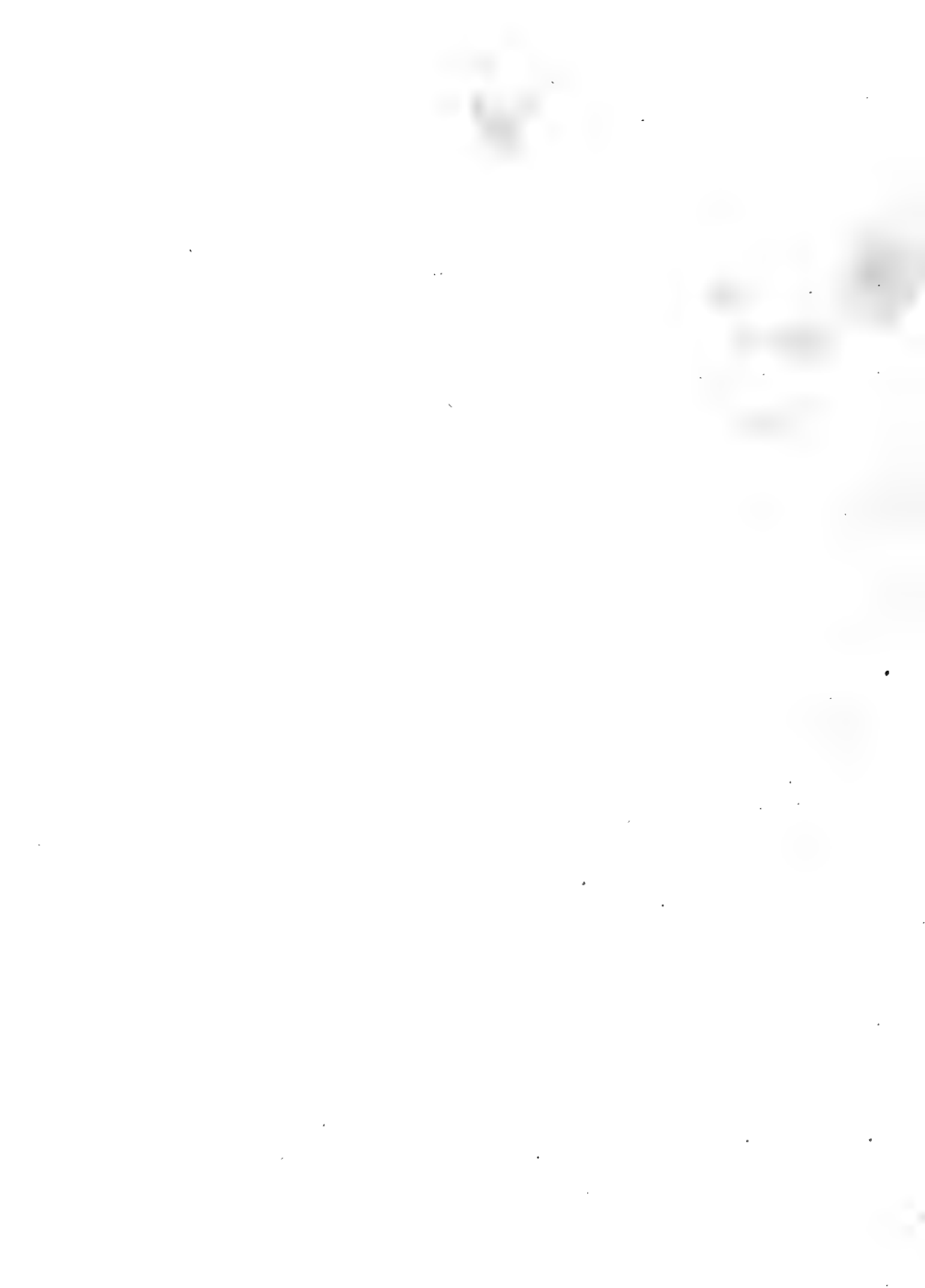
*Pinna*

*Pinna*

*Pinna*

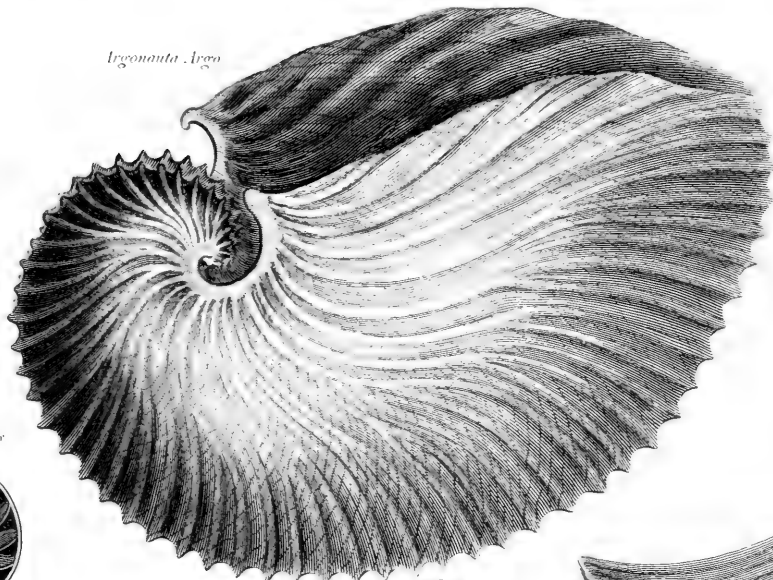
*Pinna*

*Pinna*





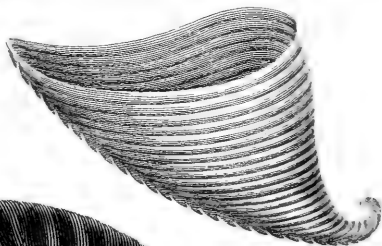
*Argonauta Argo*



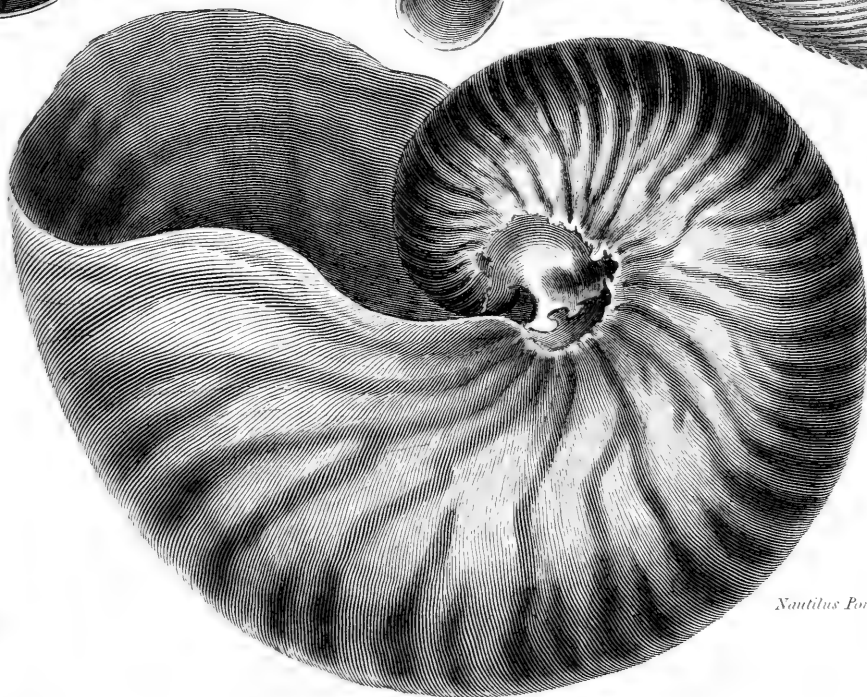
Section of Nautilus



*Argonauta Vibris*



*Nautilus Pompilius*



*Nautilus Pompilius*

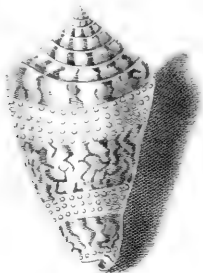


CONCHOLOGY.

GENUS BULLA, G. CONUS, G. TORRO, G. HELIX, G. NERITA.



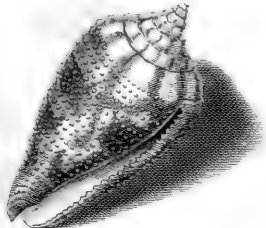
*B. lignaria*



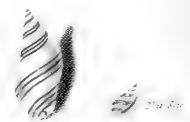
*C. Ammiralis* var  
Banded Cedo nulli Cone



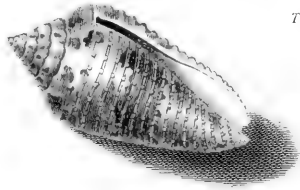
*C. Ammiralis* var  
Selsa C n C



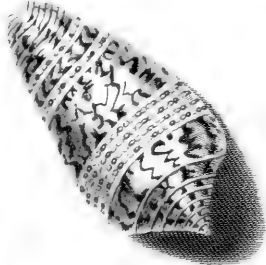
*C. Ammiralis* var  
Curacao C n C.



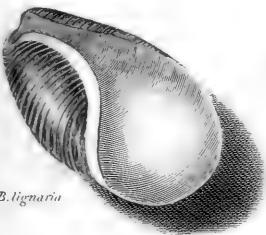
*T. trilineatus*



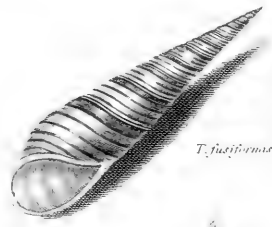
*C. Ammiralis* var  
Southern C n C



*C. Ammiralis* var  
Marbled C n C



*B. lignaria*



*T. fusiformis*



*H. hortensis*



*N. caerulea*



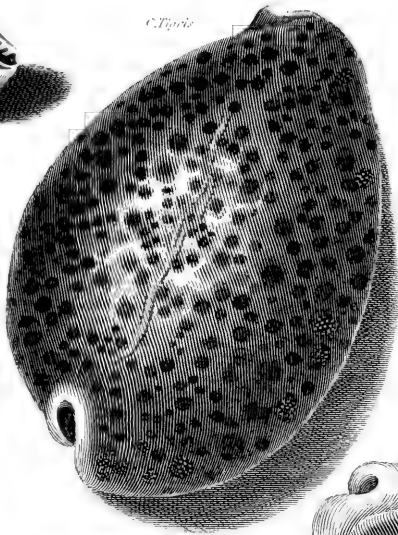
*H. hortensis*







*Cancellata*



*Tigris*



*Tigris*



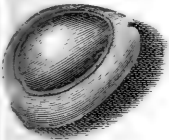
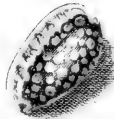
*Cancellata*



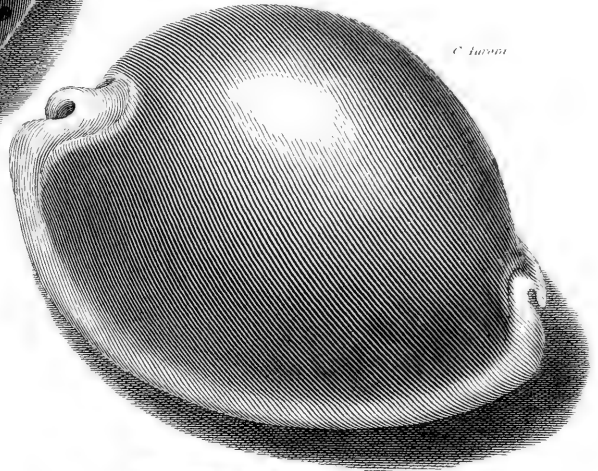
*Cancellata*



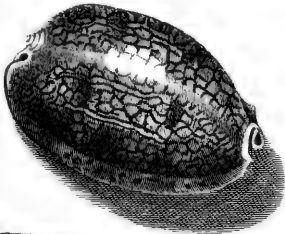
*Cancellata*



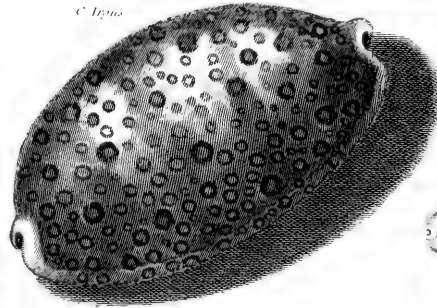
*Cancellata*



*Luvata*



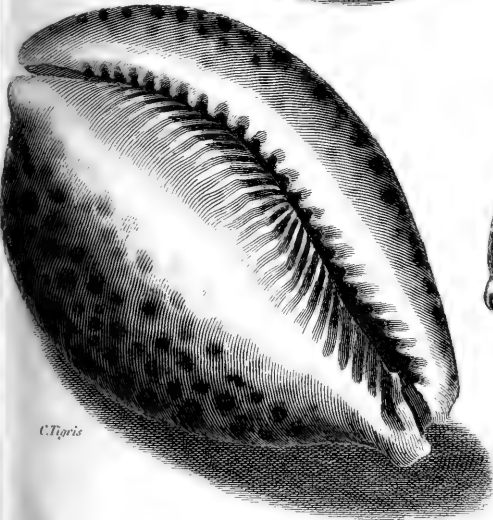
*Arabica*



*Tigris*



*Cancellata*



*Tigris*



*Cancellata*



Order Volutæ.



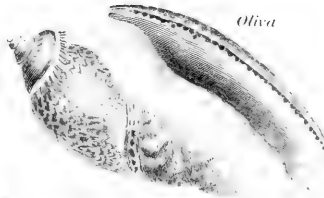
*Papalis*



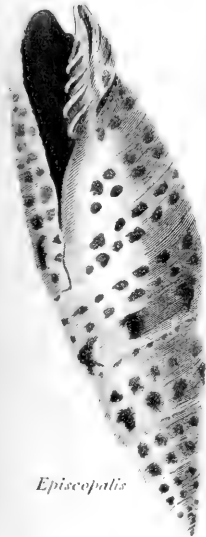
*Indica*



*Papalis*

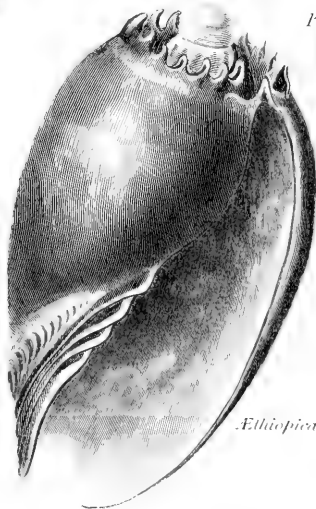


*Olivæ*



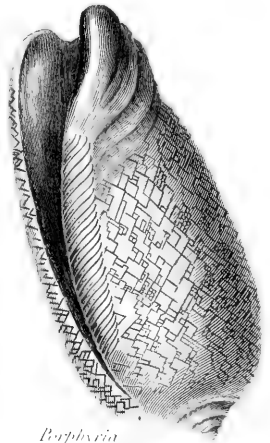
*Episcopalis*

*Tornatilis*



*Æthiopia*

*Pallida*

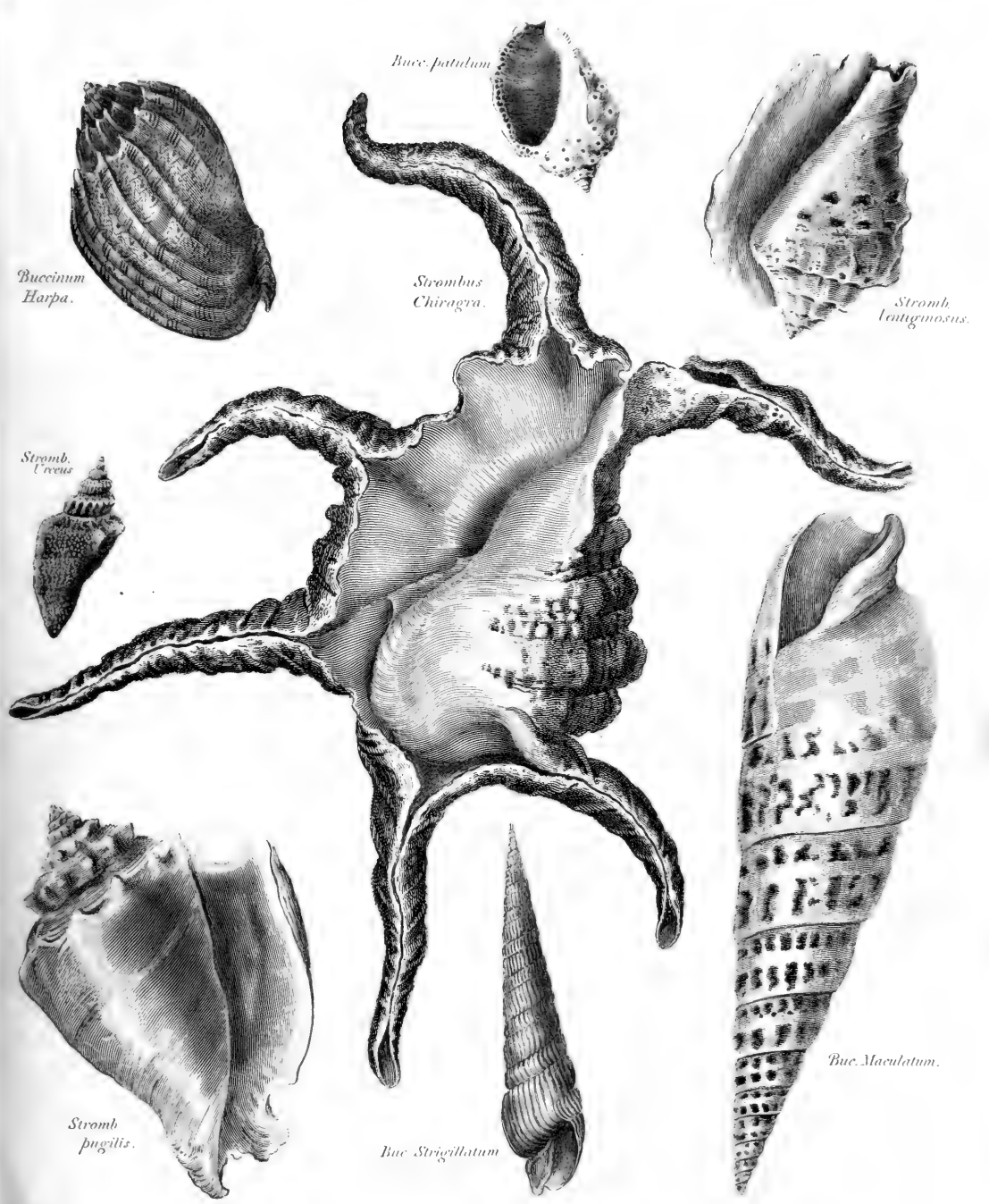


*Porphyria*





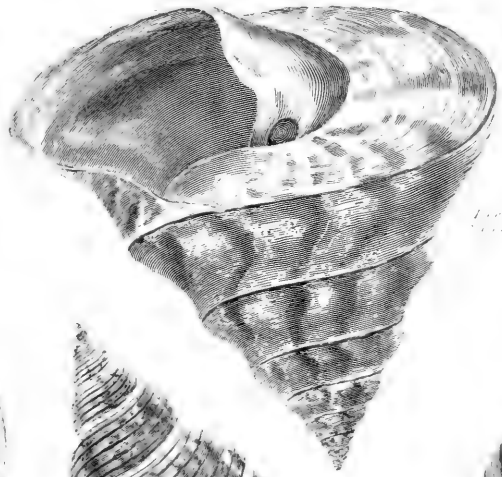
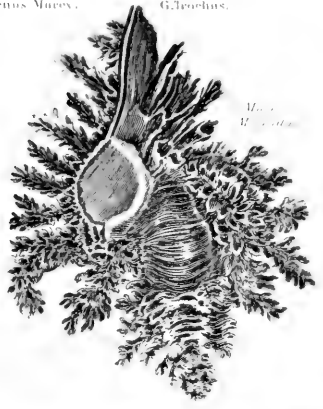
Order Volutæ



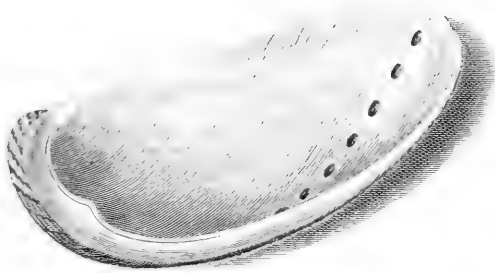


ORDER UNIVOLVAE.

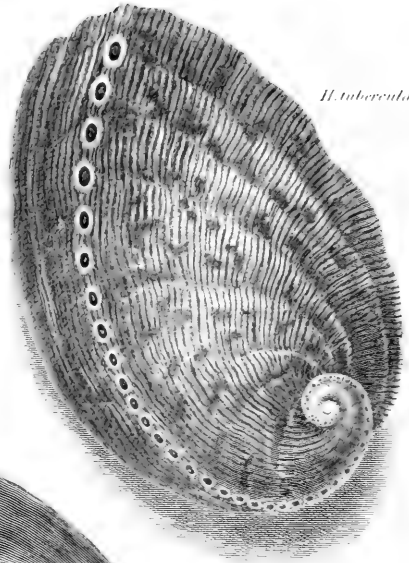
Genus Murex. G. Trochus.





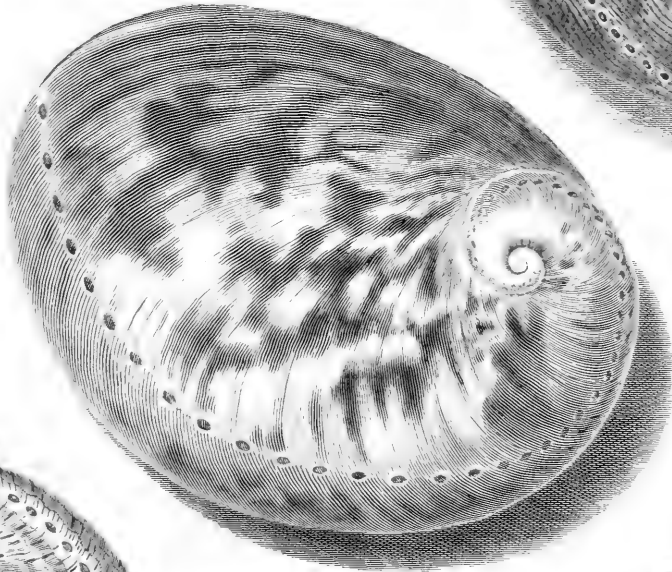


*H. Asinum*

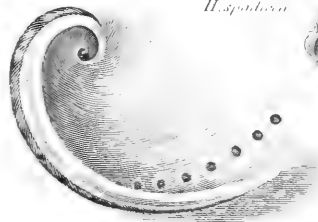


*H. tuberculata*

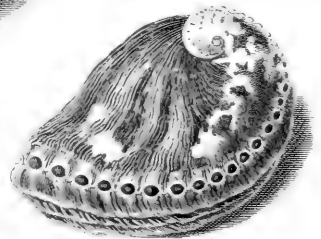
*H. levigata*



*H. Asinum*

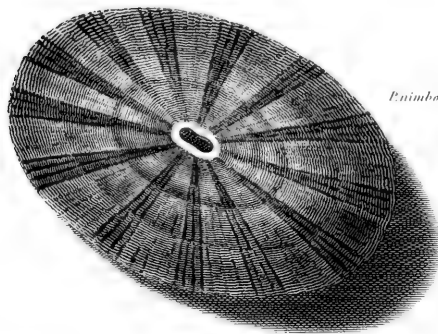


*H. Asinum*

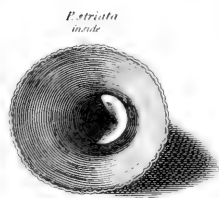




11.



*P. umbosa*



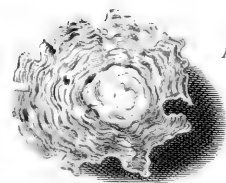
*P. striata*  
*inside*



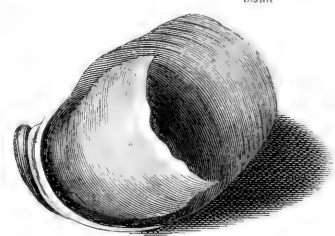
*P. radiata*



*P. fissurella*



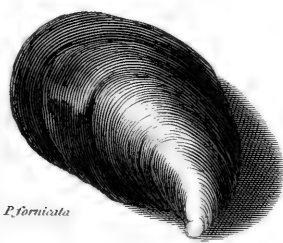
*P. equestris*



*P. foveolata*  
*inside*



*P. fissura*



*P. foveolata*



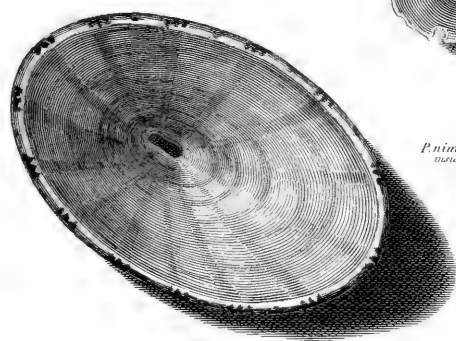
*P. equestris*  
*inside*



*P. greca*



*P. fissurella*



*P. umbosa*  
*inside*



*P. stenta*



*P. lobata*





GENUS PATELLA

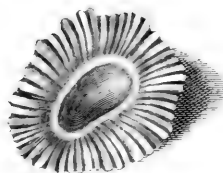
*P. angulata*



*P. ovata*



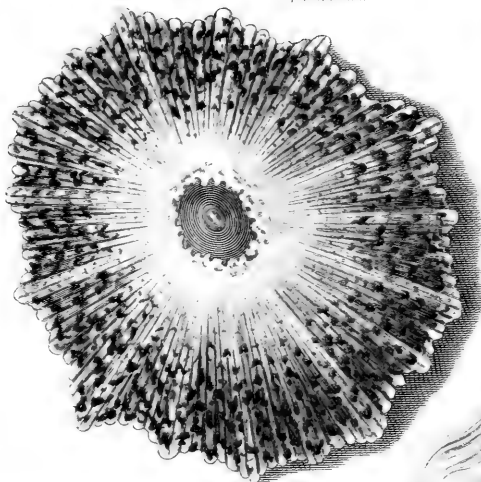
*P. ovata*



*P. auricula*



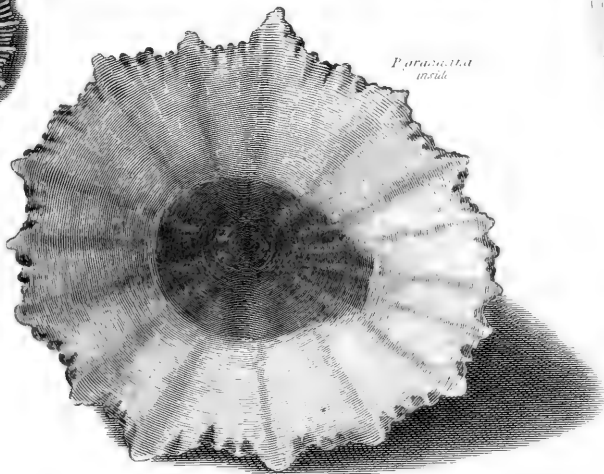
*P. ovata var.*



*P. anatina*



*P. parvicula*  
*metal.*

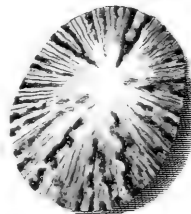


*P. auricula*

*P. auricula*



*P. striolata*





# CONCHIOLOGY

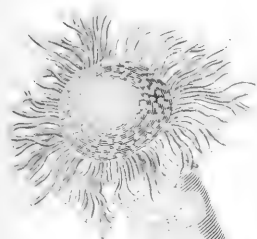
GENUS DENTILUM - GENUS SERPULA.



*S. reticulata*



*S. fortissima*



*Serpula penic*



*Serpula*



*S. reticulata*



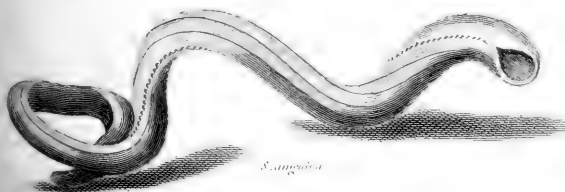
*S. triquetra*



*Instit. Phylactica*



*S. fortissima*

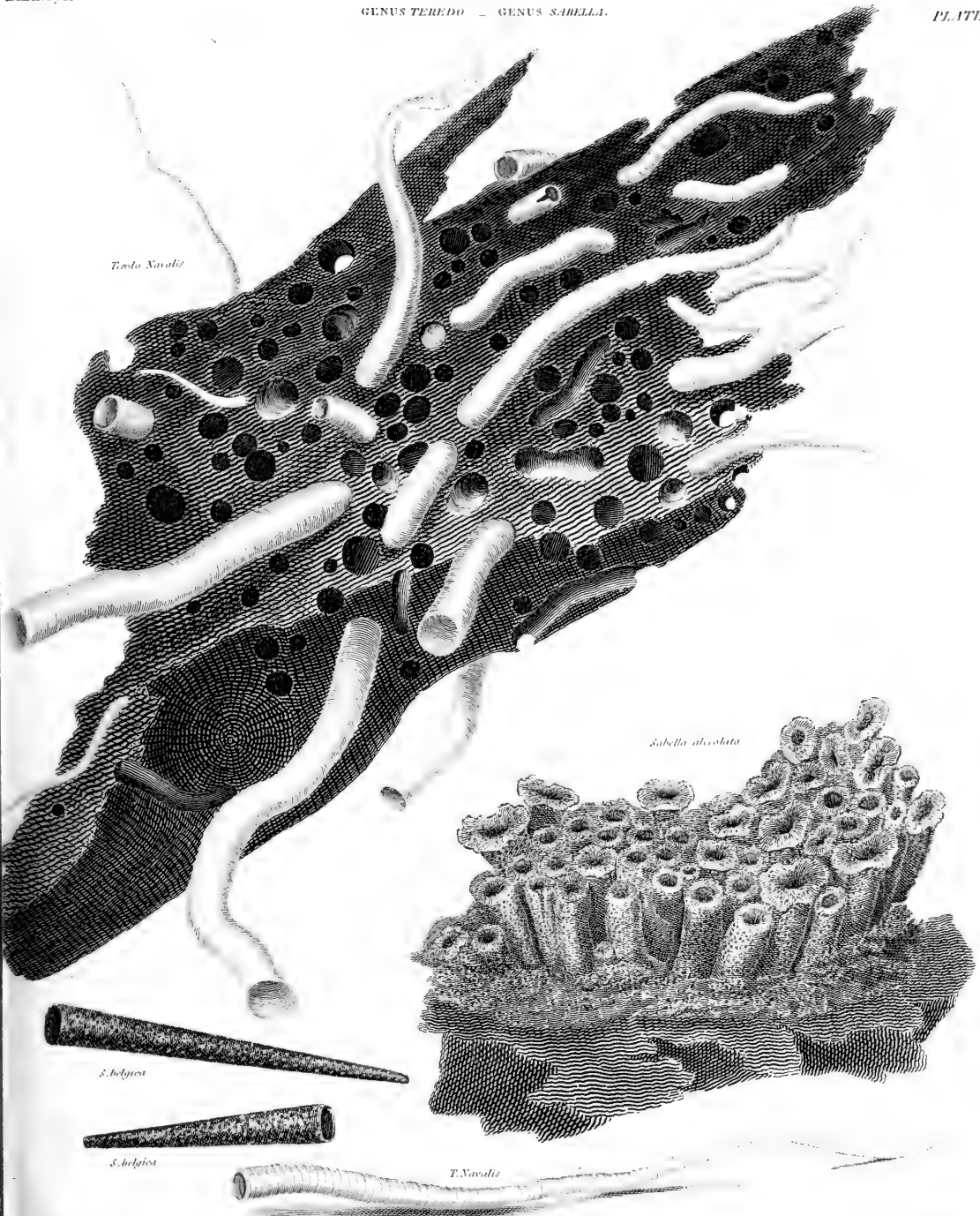


*S. ampulata*



*S. ampulata*





*Teredo Navalis*

*Sabella obcolata*

*S. belgica*

*S. belgica*

*T. Navalis*



UNIVALVE



1. Base 2. Apex 3. Front 4. Back 5. Side 6. Body 7. Belly 8. Whorl 9. Spire 10. Suture of the Spire or Whorl.





CONCHOLGY.  
Elementary.  
UNIVALVE.

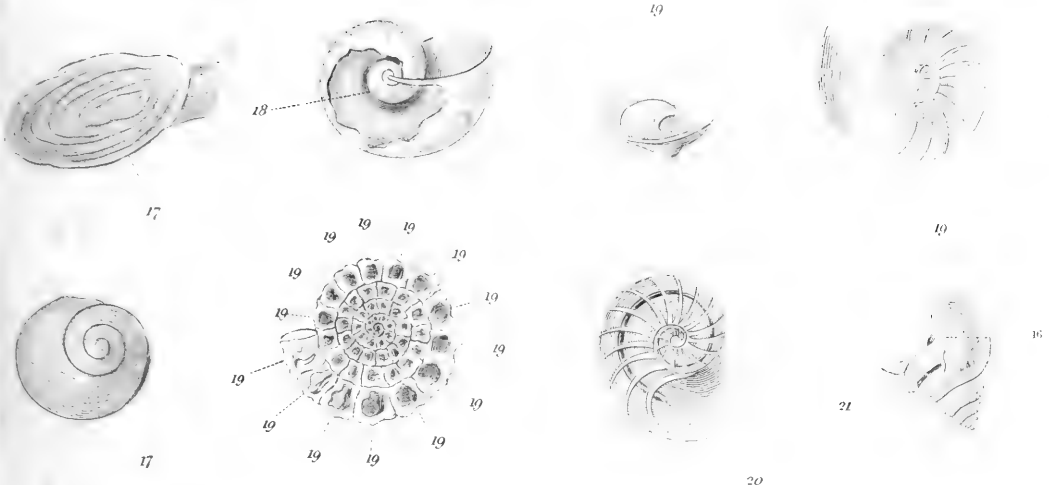


11. Billar or Columella. 12. Aperture. 13. Lip. 14. Beak. 15. Canal. 16. Umbilicus.

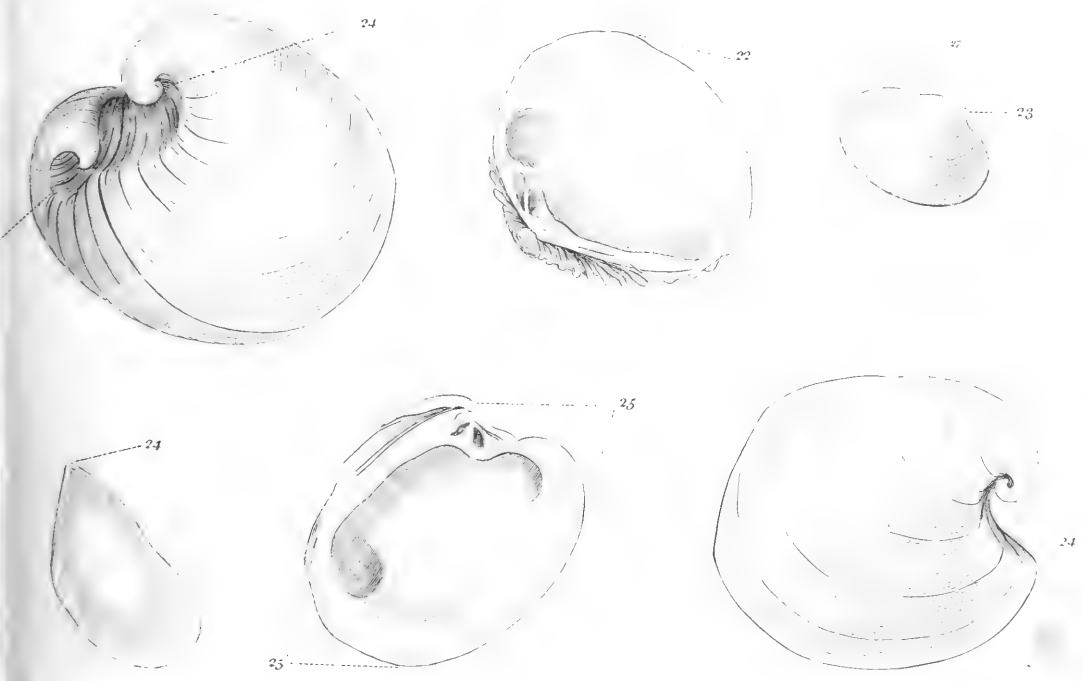


# CONCHOLOGY.

Elementary  
UNIVALVE.

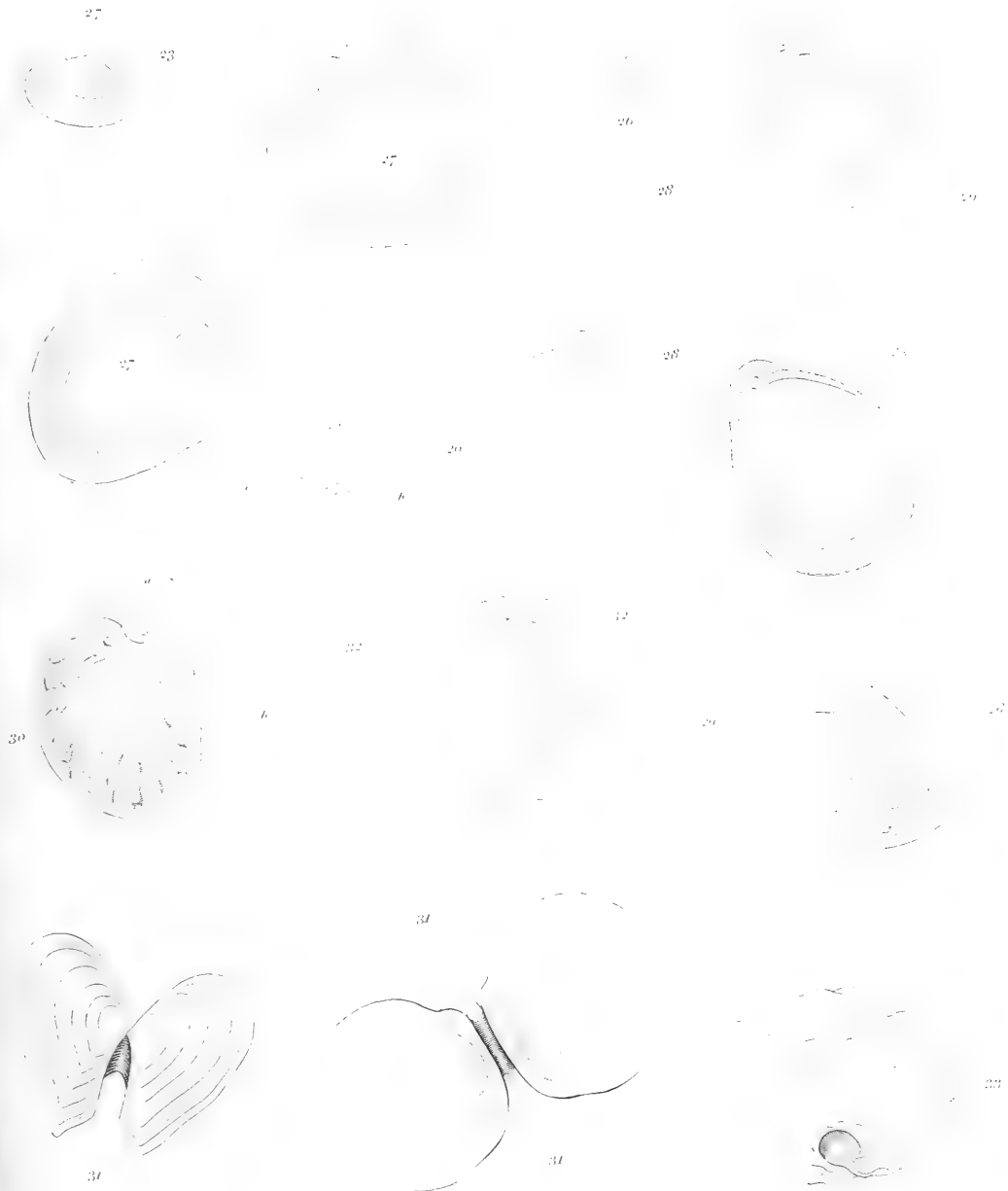


## BIVALVES



17. Operculum. 18. Involved Spire. 19. Chambers. 20. Siphunculus. 21. Epidermis. 22. Base. 23. Summit. 24. Beak. 25. Sides.

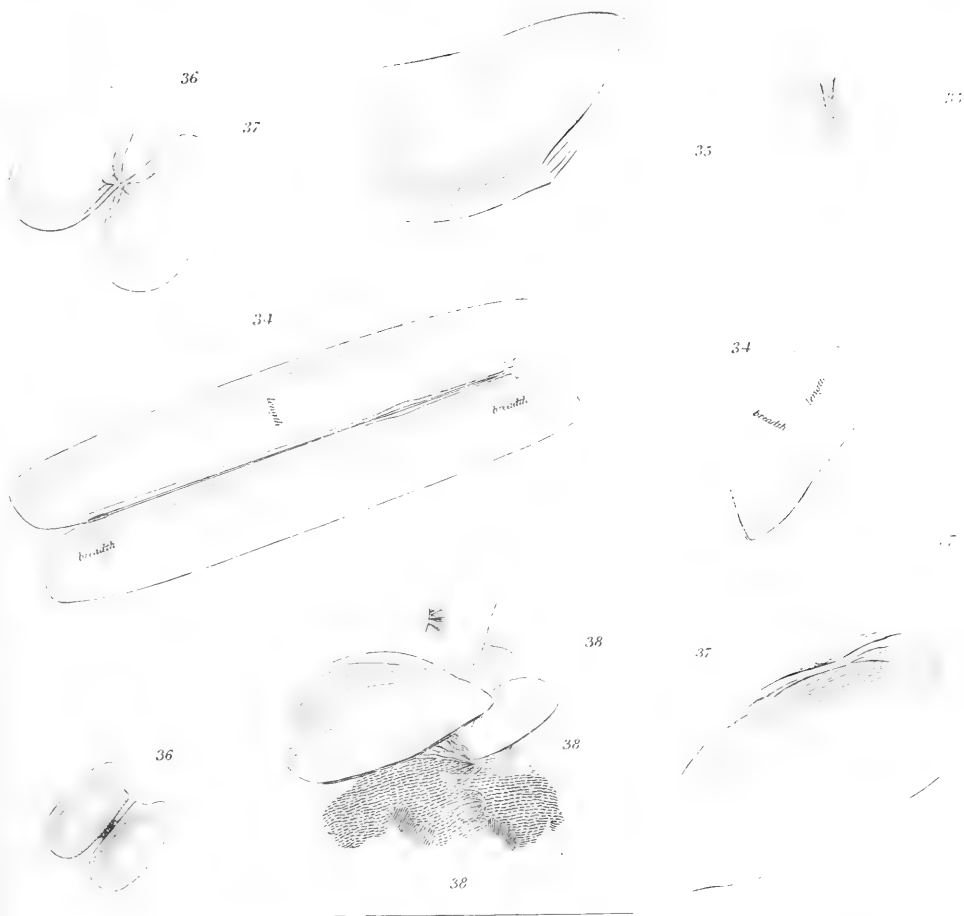




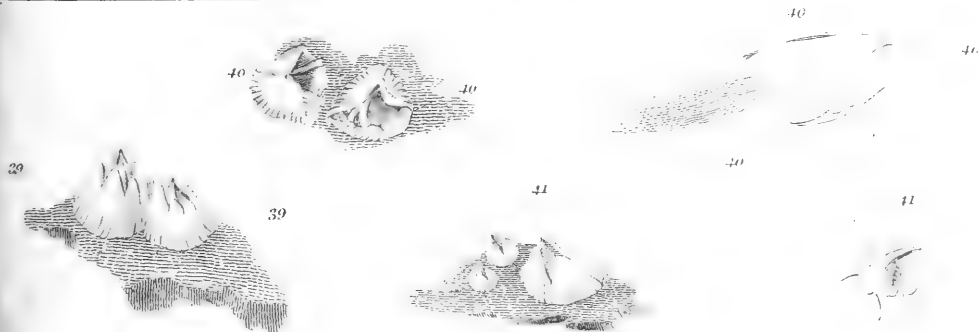
26. Margin of Limb - 27. Disk - 28. Anterior Slope - 29. Posterior Slope - 30. Lunule a.b. 31. Cartilage 32. Ears 33. Ligament perforation.



570.



MULTIVALVES



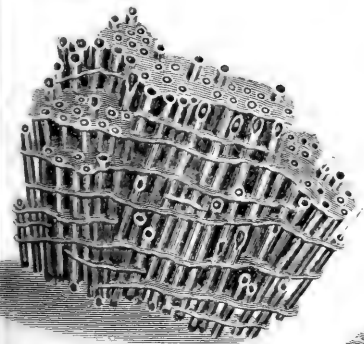
34.Length and Breadth 35.Inside 36.Hinge 37.Cicatrix 38.Byssus 39.Base. 40.Ligament. 41.Operculum





ZOOPHYTES.

GENUS TUBIPORA...G.MADREPORA.

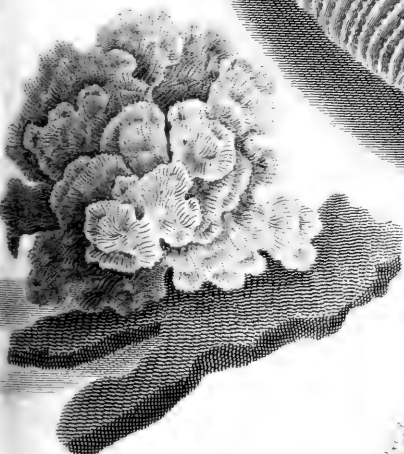
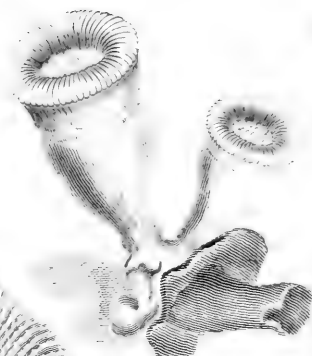


Tubipora musica.

M. angites.



Madrepora Agathina.



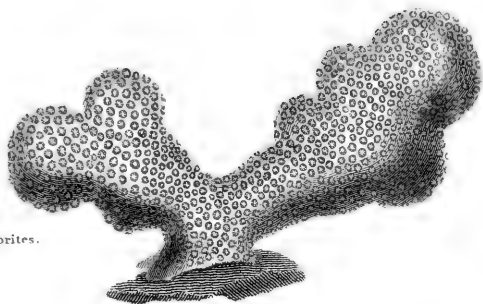
M. foliacea.



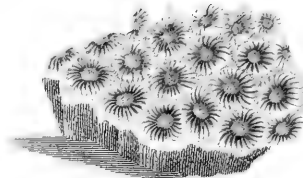
M. piteus.



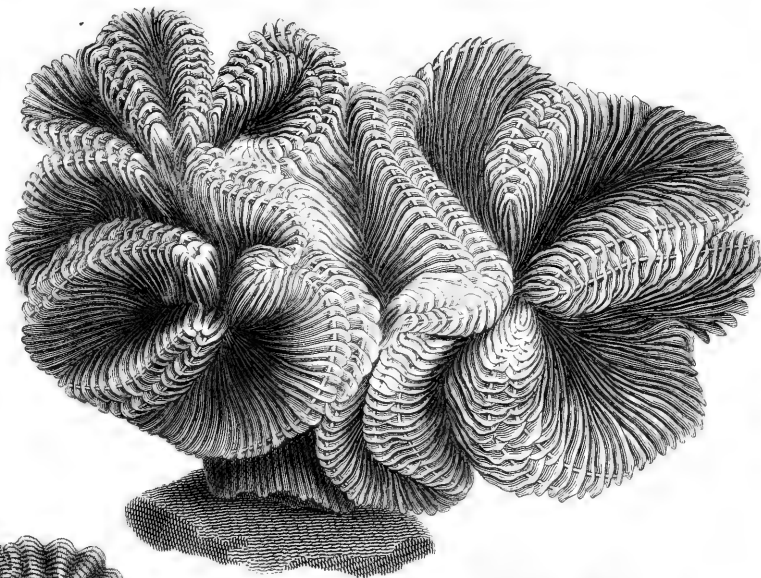
M.porites.



M.ananas.



Mareolata.

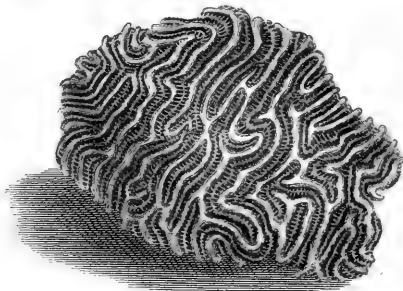


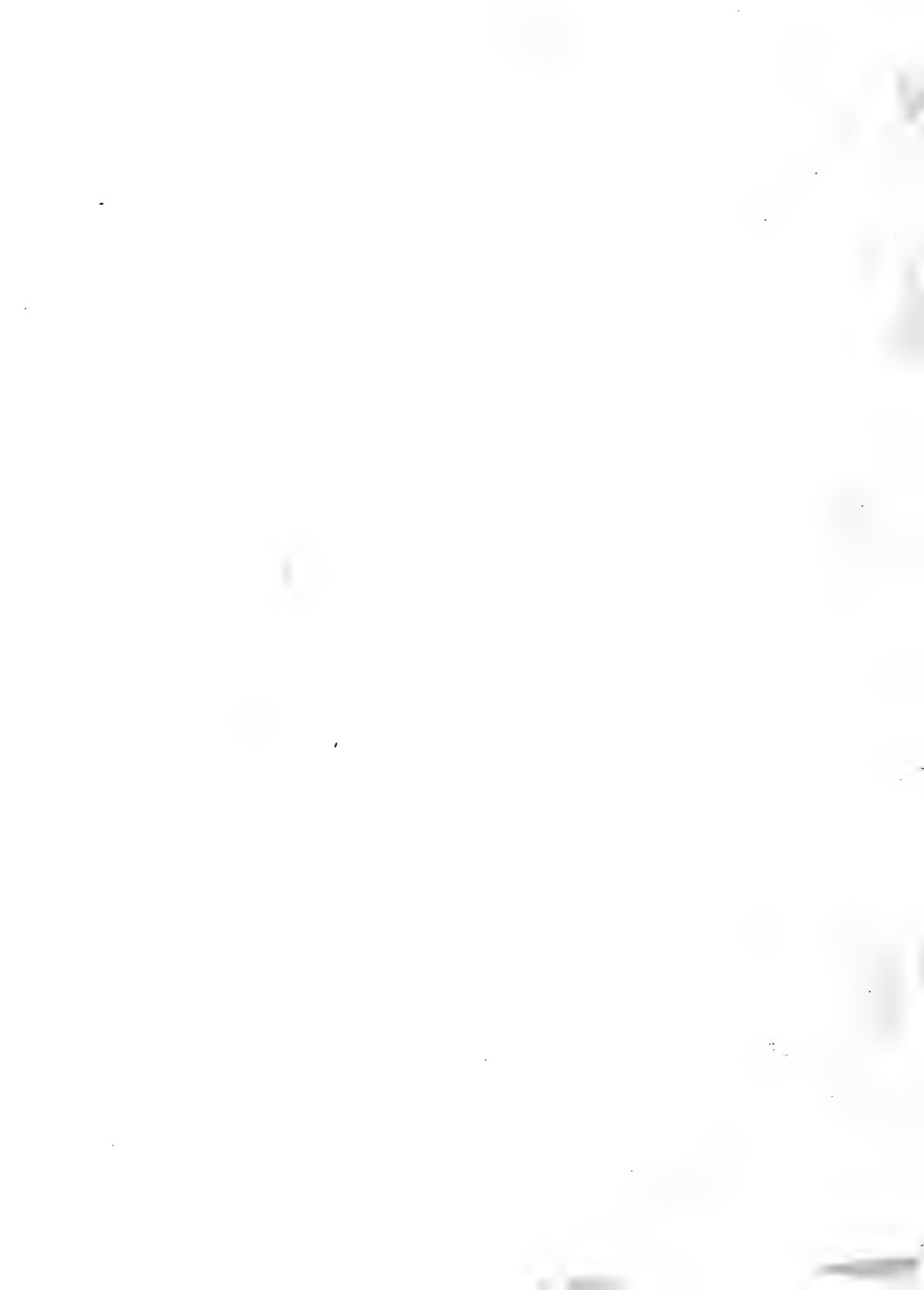
Madrepora grossa.

M.labyrinthica.

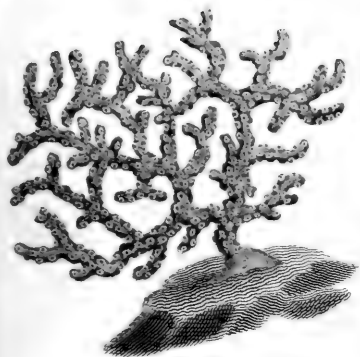


M.phrygia.





GENUS *ISIS* — GENUS *ANTITHES*.



I. Coccinea



I. Hippuris



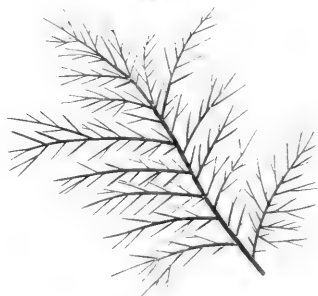
isid. 1



I. Subpinnata



isid. 2



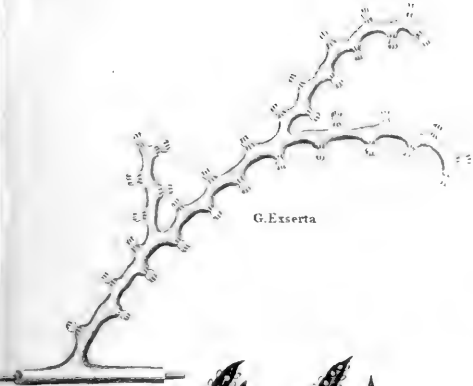
I. Metropheila



ZOOPHYTES.

GENUS GORGONIA.

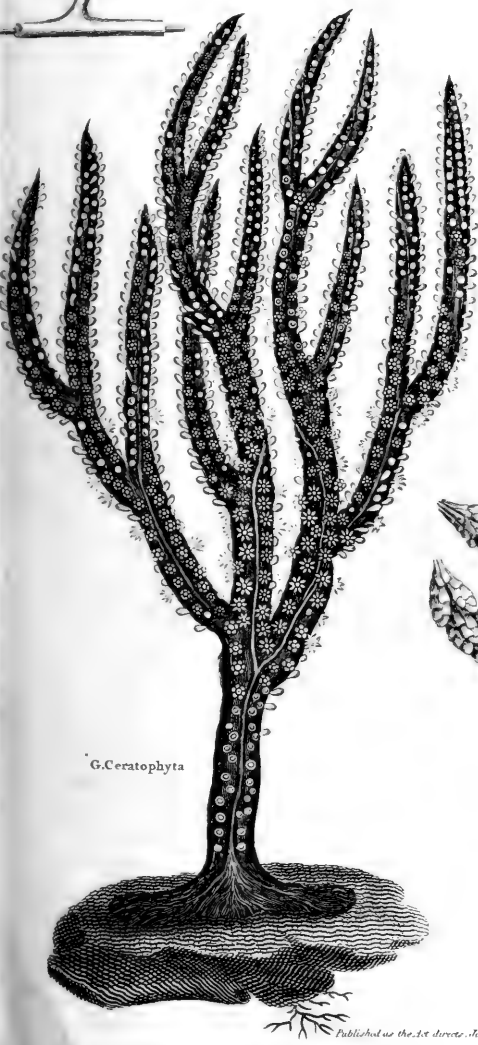
Sea Fan



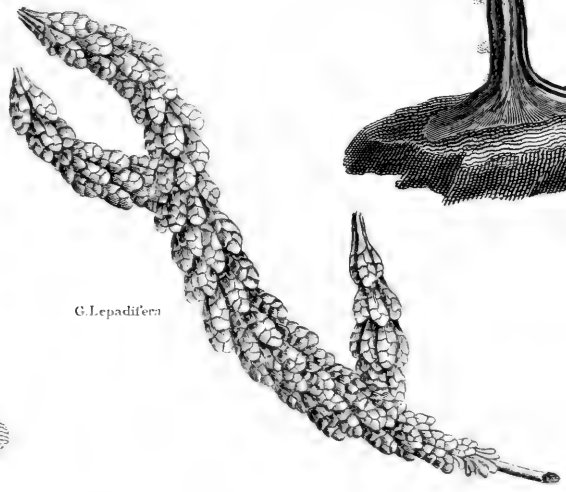
G. Exserta



G. Americana



G. Ceratophyta



G. Lepadifera

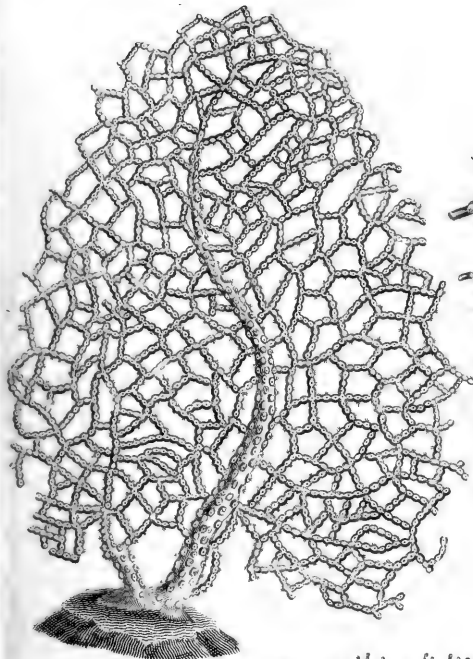




# ZOOPHYTES.

## GENUS GORGONIA.

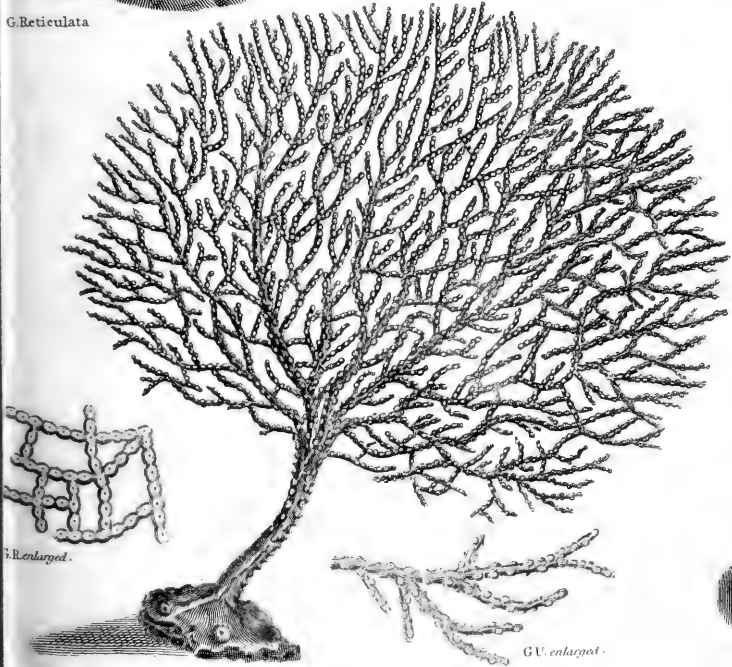
*Sea Fan.*



G. Reticulata



G. Nobilis



G. R. enlarged.

G. U. enlarged.

G. Umbraculum

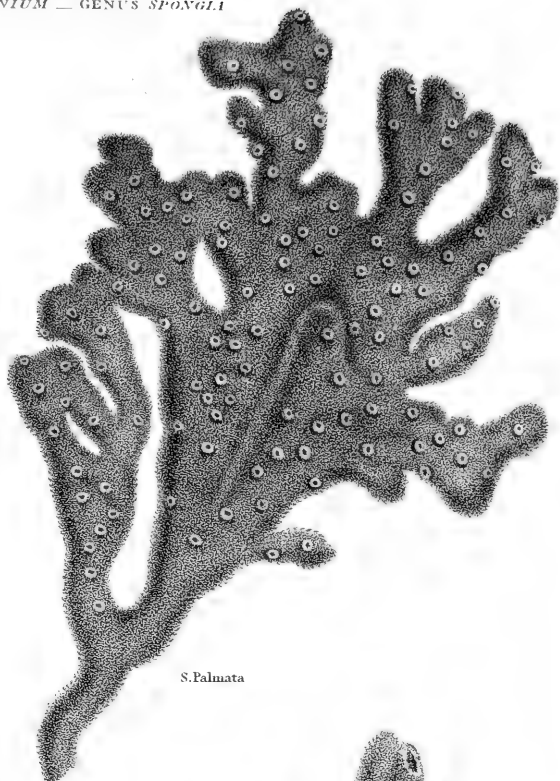
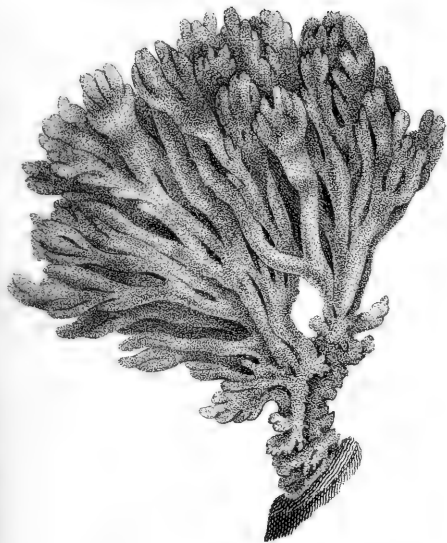


Part of the branch of *G. Nobilis magnifica*  
and exhibiting the Animals.



GENUS *ALCYONIUM* — GENUS *SPONGIA*

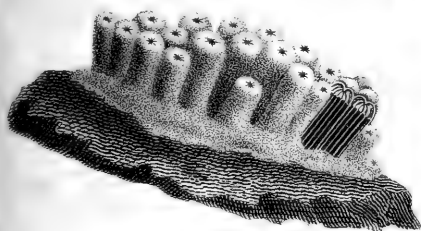
*S. Protifera*



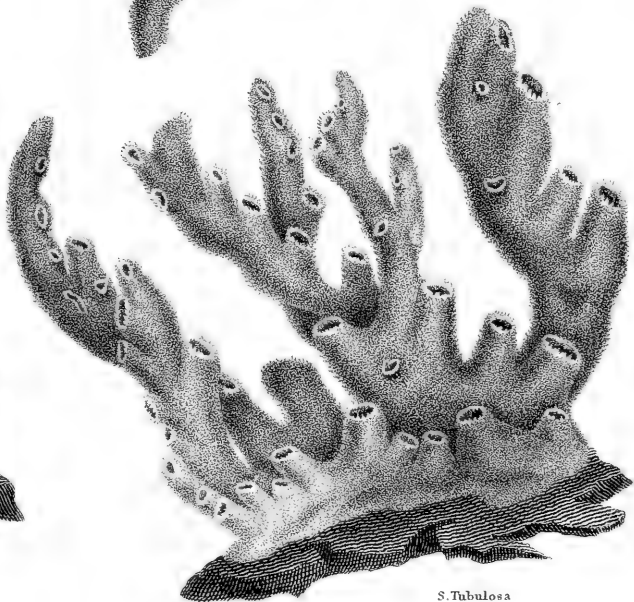
*S. Palmata*



*S. Coronata*

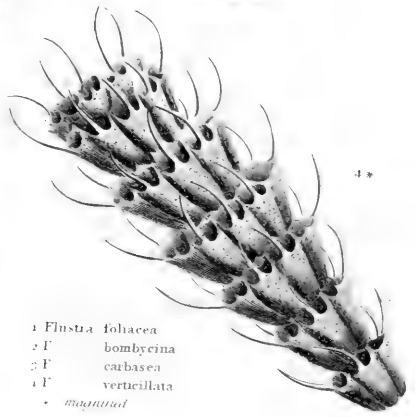
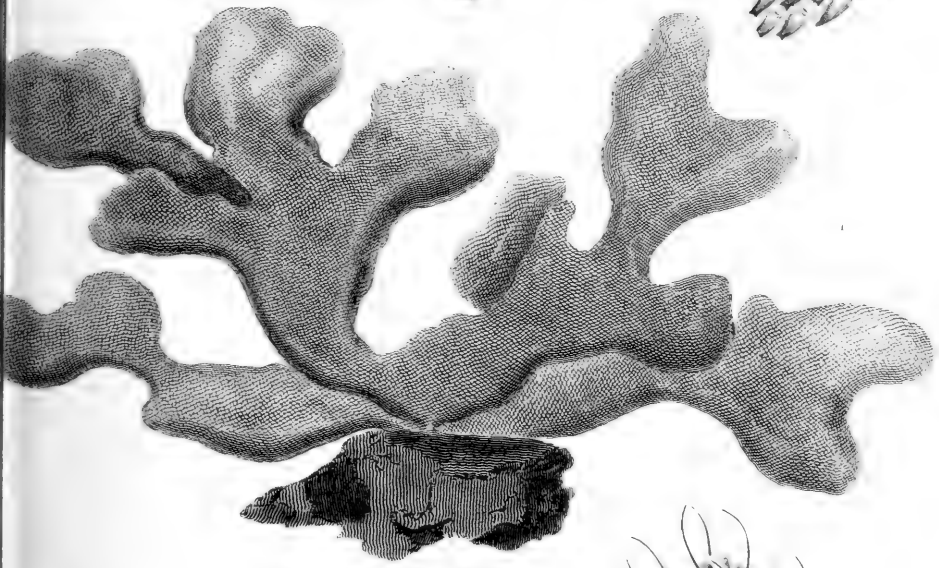
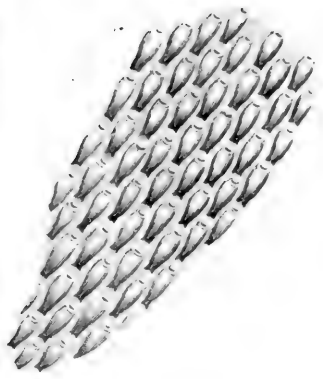
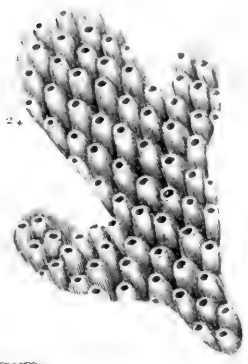


*A. Gorgonoides*



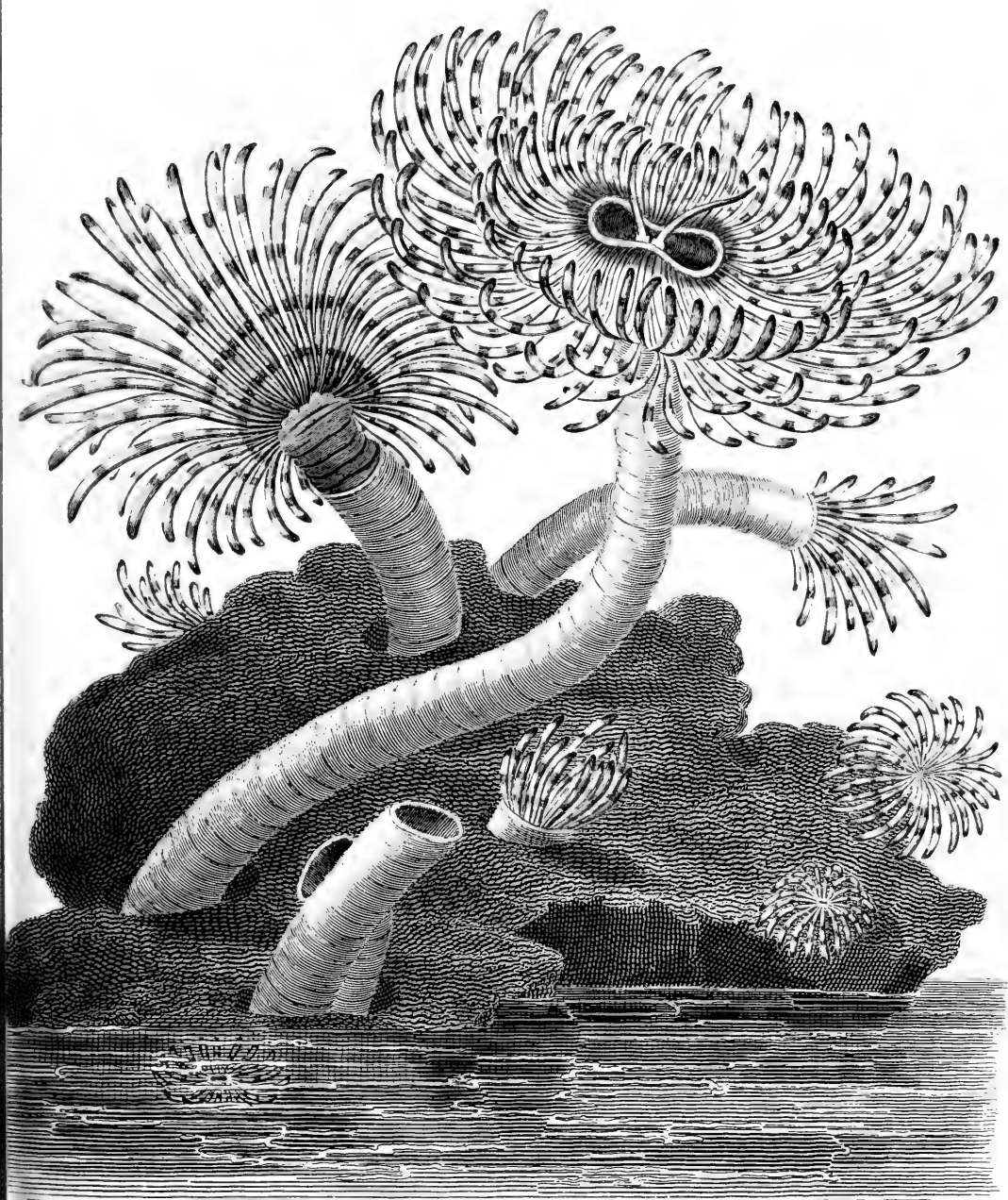
*S. Tubulosa*





- 1 Flustra foliacea
- 2 F. bombycina
- 3 F. carbasca
- 4 F. verticillata
- magnified





*T. MAGNIFICA*  
(Magnificent Tubularia)

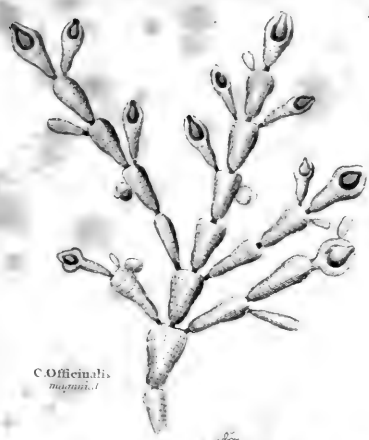
1. The Animal in its young state 2. full grown (front view) expanding its tentacula. 3. back view. 4. partially retracted. 5. entirely retracted.

Published as the Act directs. May 1<sup>st</sup> 1829, by Longman, Hurst, Bosc & Co. in Paternoster Row.





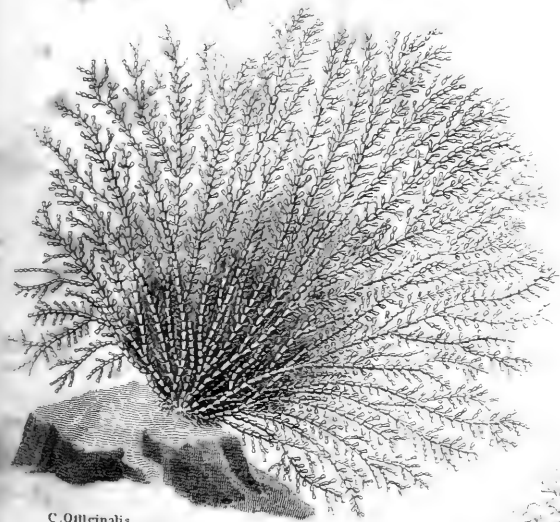
GENUS CORALLINA



C. Officinalis  
*musculi*



C. incrassata



C. Omicinalis



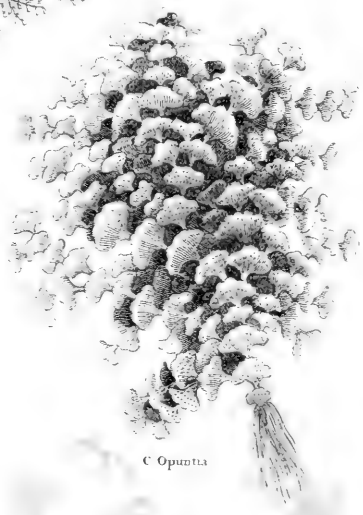
C. Corniculata  
*musculi*



C. Squamata



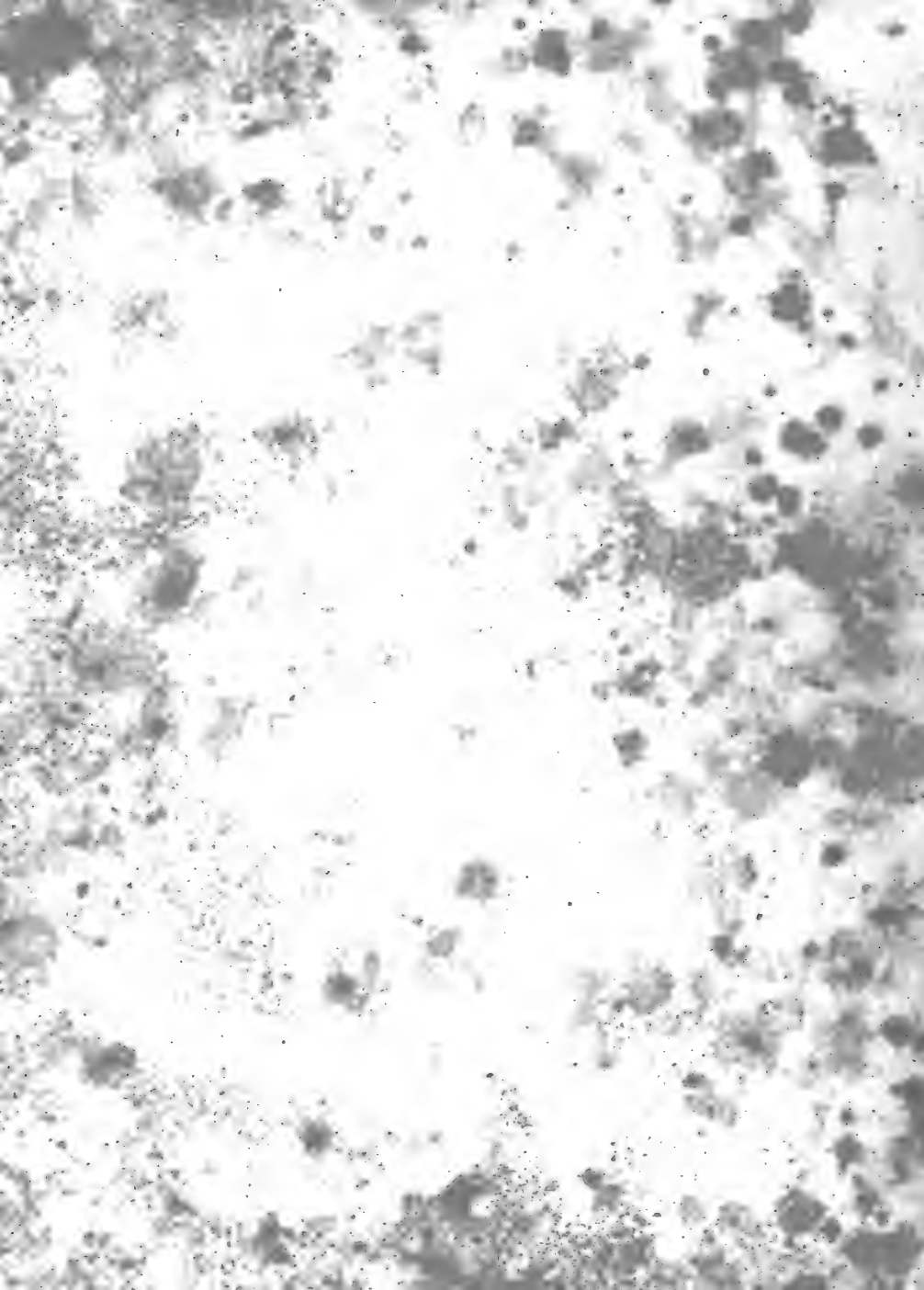
C. Corniculata



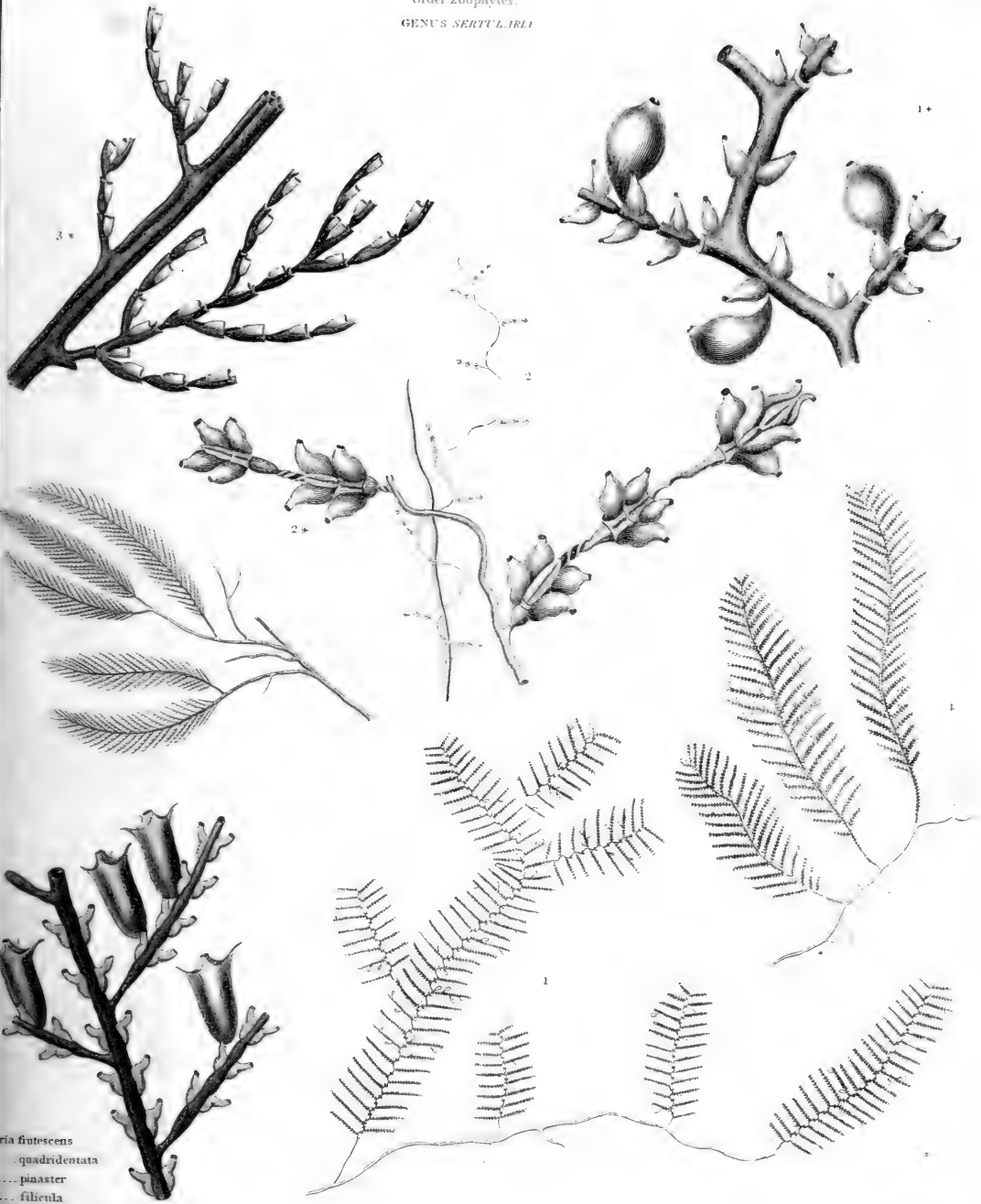
C. Opuntia



C. Squamata  
*musculi*



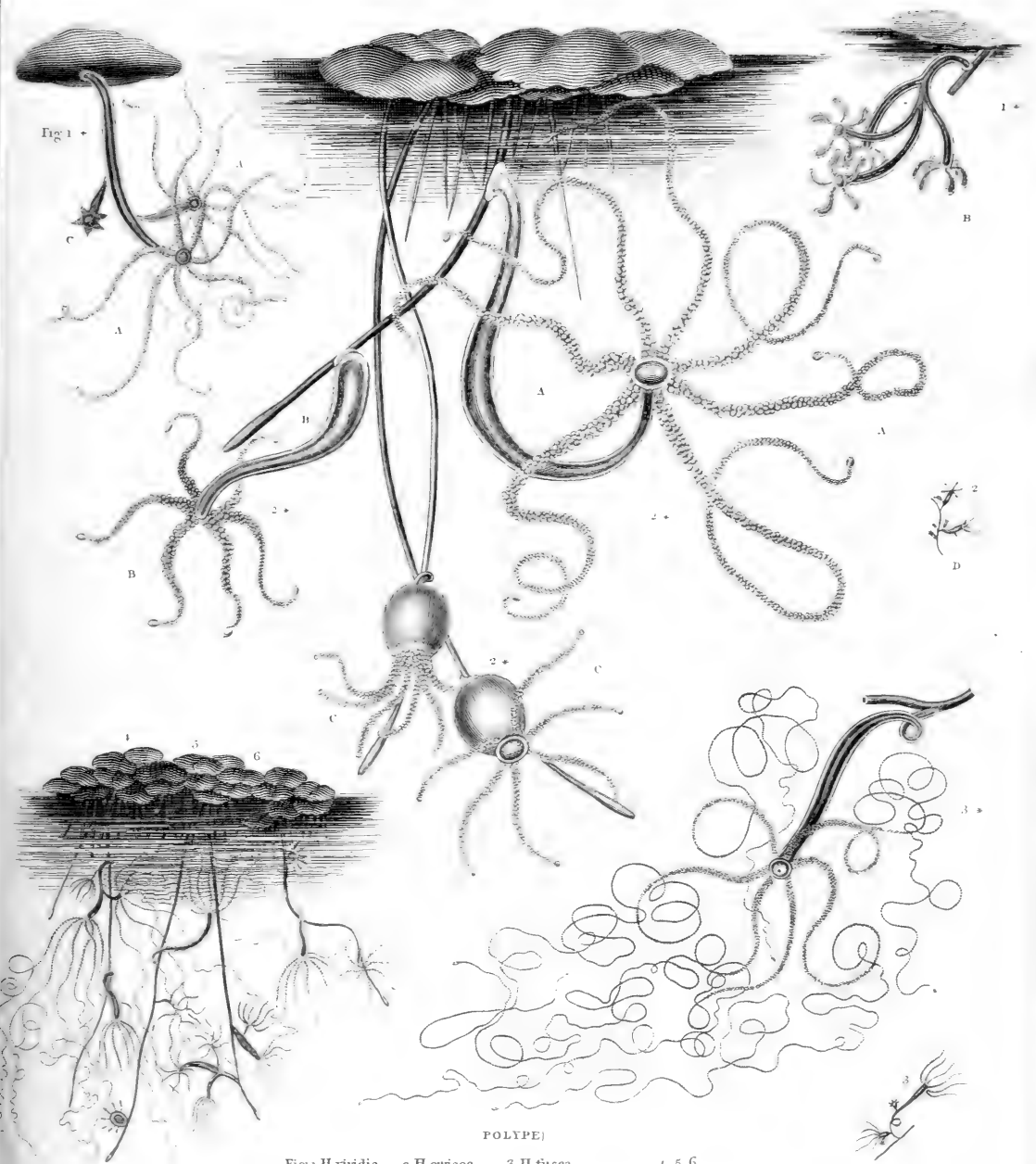
VERMES  
Order Zoophytes.  
GENUS SERTULARIA



*Sertularia* *futescens*  
 ..... *quadridentata*  
 ..... *pinaster*  
 ..... *filicula*  
*marginifera*



VERMES.  
Order Zoophytes.  
Genus Hydra.



POLYPE)

Fig 1. *H. viridis*    2. *H. grisea*    3. *H. fusca*    4. 5. 6.  
*Green P.*    *Grey P.*    *Brown P.*    Clusters of the three species nat. size.

\* magnified. A. extended Body & tentacula - B. subretracted - C. contracted - D. young.

Published as the Act directa, March 1 1814 by Longman, Hurst, Ross, Orme & Brown, Paternoster Row.

Milton sculp.



CLASS. VERMES.

Order. Infusoria.

GENUS BRACHIONUS.



Circolatus



Striatus



bipes



uncinatus



Quadridentatus

GENUS VORTICELLA.



Anastatica



Polyzona



Anastatica



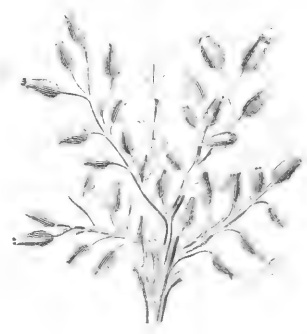
Pyramis



Umbellifera



Digitalis



Opercularia

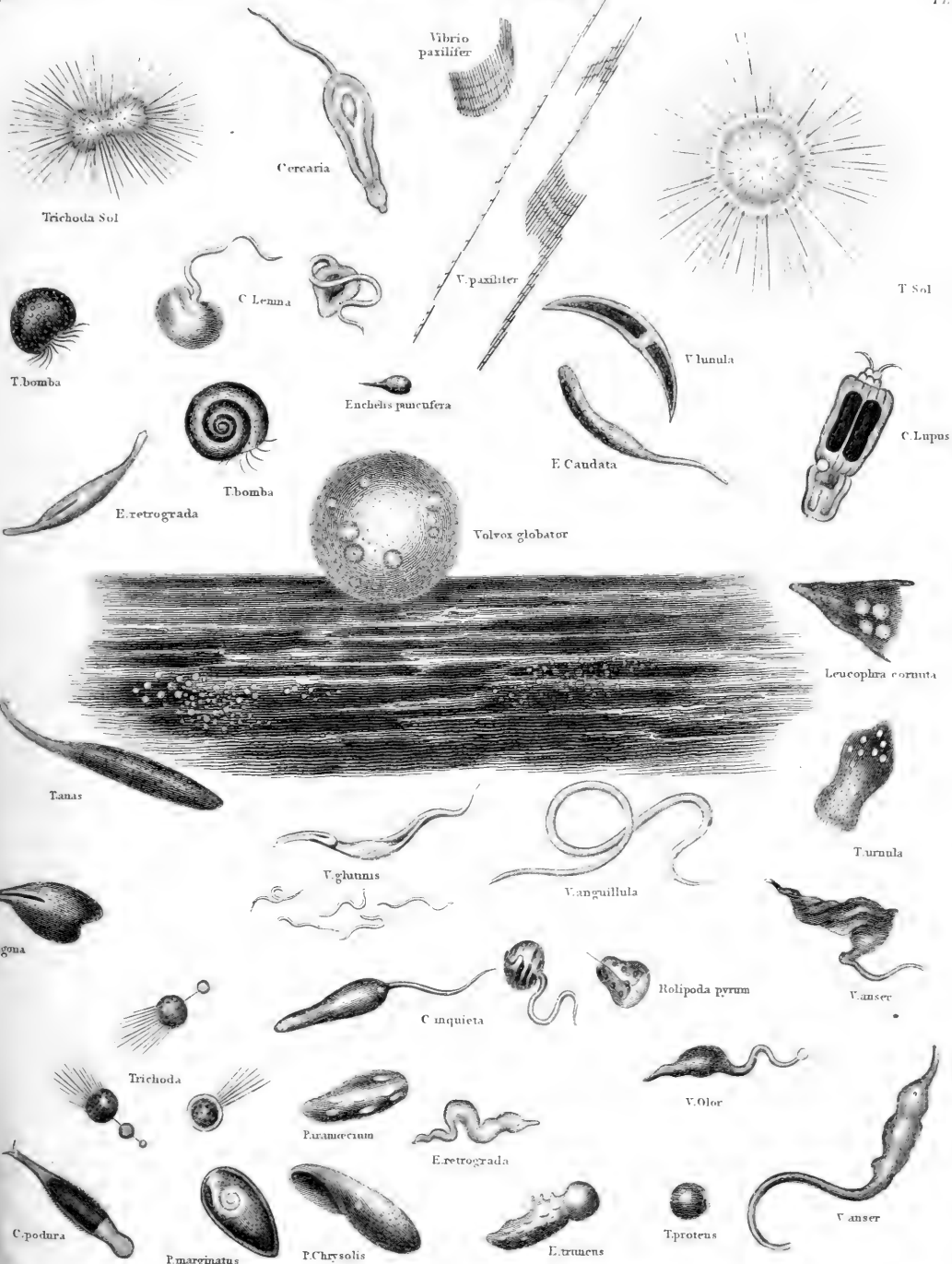


Nebulifera



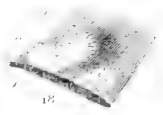
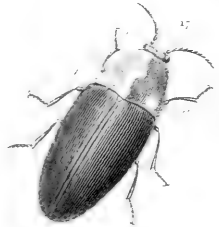
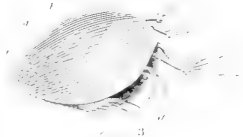
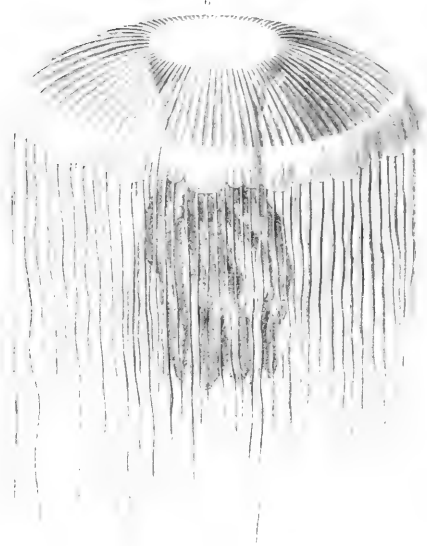


# VERMES INFUSORIAE.





LUMINOUS LIGHT ANIMALS





Classes.



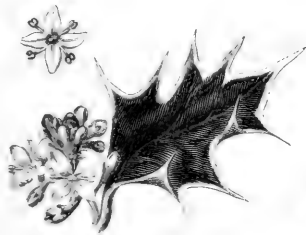
MONANDRIA



DIANDRIA



TRIANDRIA



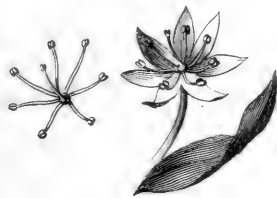
TETRANDRIA



PENTANDRIA



HEXANDRIA



HEPTANDRIA



OCTANDRIA



ENNEANDRIA



DECANDRIA



DODECANDRIA



COSANDRIA



Classes.



POLYANDRIA



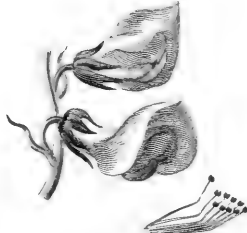
DIDYNAMIA



TETRADYNAMIA



MONADELPHIA



DIALOPHIA



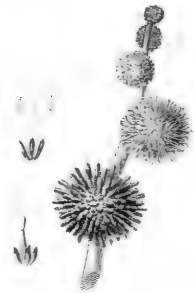
POLYDELPHIA



SYNGENESIA



GYNANDRIA



MONOECIA



DIOECIA



POLYGAMIA



CRYPTOGAMIA





Orders.



MONOGYNIA



DIGYNIA



TRIGYNIA



TETRAGYNIA



PENTAGYNIA



HEXAGYNIA



HEPTAGYNIA



DECAGYNIA



DODECAGYNIA



POLYGYNIA



GYMNOSPERMA



ANGIOSPERMA



Orders.



SILICULOSA



SILIQUOSA



POLYGLYMA AQUALIS



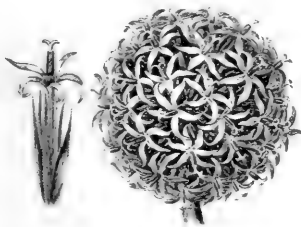
POLA SUPEREUA



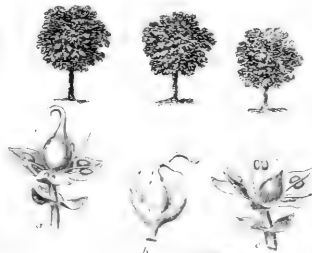
POLA NECESSARIA



POLA FRUSTRATA



POLA SEGREGATA



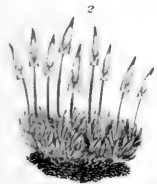
TRIOECIA



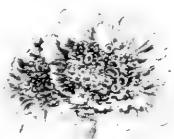
FILICES



FUNGI



MUSCI



ALGAE



HEPATICAE





1. *Tetraphis*



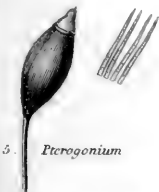
2. *Octoblepharum*



3. *Splachnum*



4. *Encalypta*



5. *Pterogonium*



6. *Grimmia*



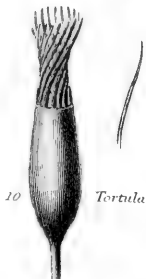
7. *Conostomum*



8. *Dicranum*



9. *Trichostomum*



10. *Tortula*



11. *Syntrichum*



12. *Orthotrichum*



13. *Neckera*



14. *Funaria*



15. *Barbula*



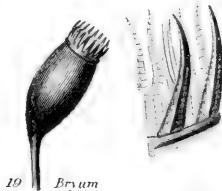
16. *B. rotosa*



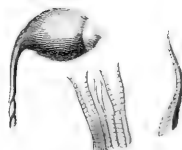
17. *Bartramia*



18. *Mnium*



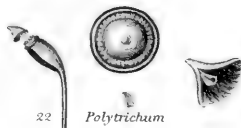
19. *Bryum*



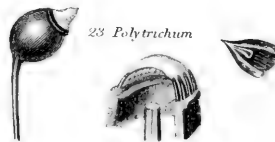
20. *Hypnum*



21. *Fontinalis*



22. *Polytrichum*

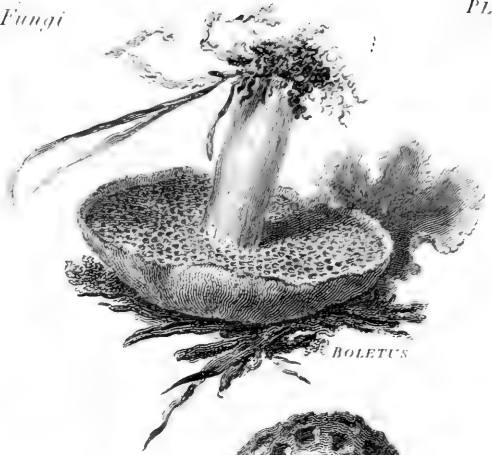


23. *Polytrichum*





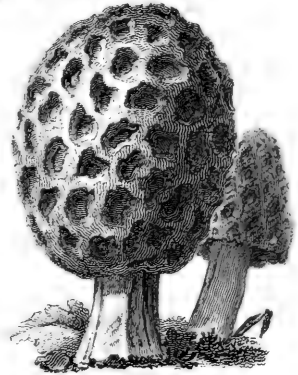
AGARIC



BOLETUS



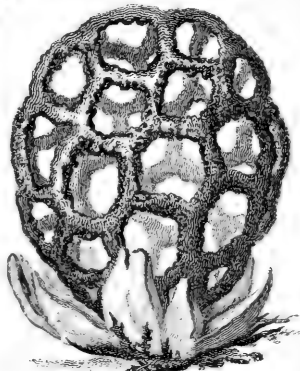
HYDNUM



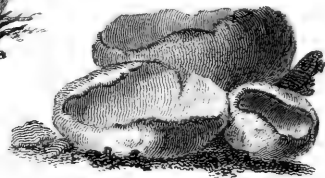
PHALLUS



HELVELLA



CLATHRUS



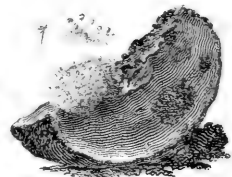
PEZIZA



CLAVARIA



LYCOPERDON

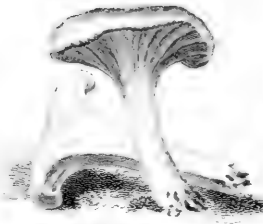


MUCOR

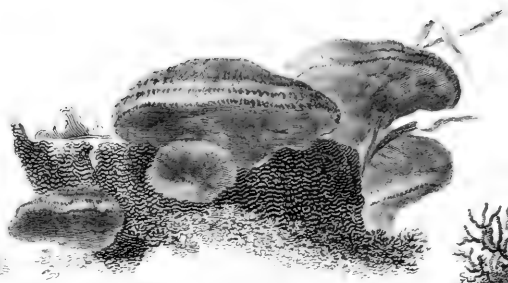




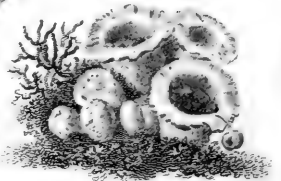
Fungi.



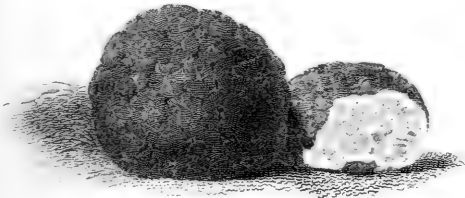
*MERULIUS cernuus.*



*ACRICULARIA rotata.*



*NIDULARIA campanulata.*



*TUBER cibarium.*

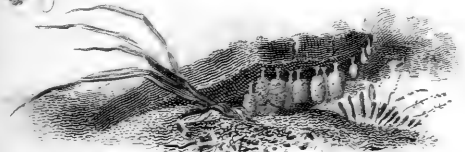


*CYATHUS minutus.*



*c. SPILERIA digitata.*

*d. .... bombardica.*

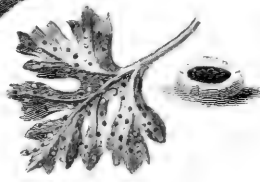


*a. TRICHLA denudata*

*b. .... nuda.*



*UREDIO segetum*



*ECTIDIUM aremones.*



*RHIZOMORPHA phosphorea.*



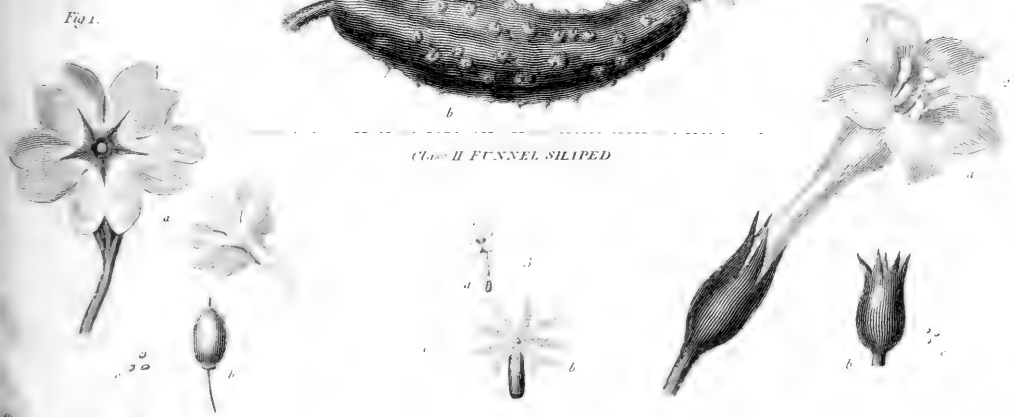
Class I BELL SHAPED.



Fig. 1.



Class II FUNNEL SHAPED.





Class II. FUNNEL SHAPED Continued

Fig 1



Fig 1



Class III PERSONATE

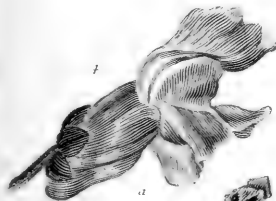
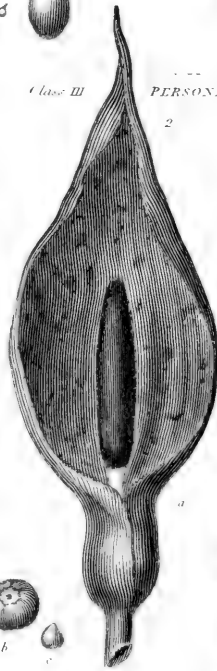


Fig 1

Class IV LABIATE

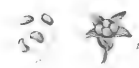
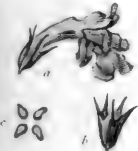




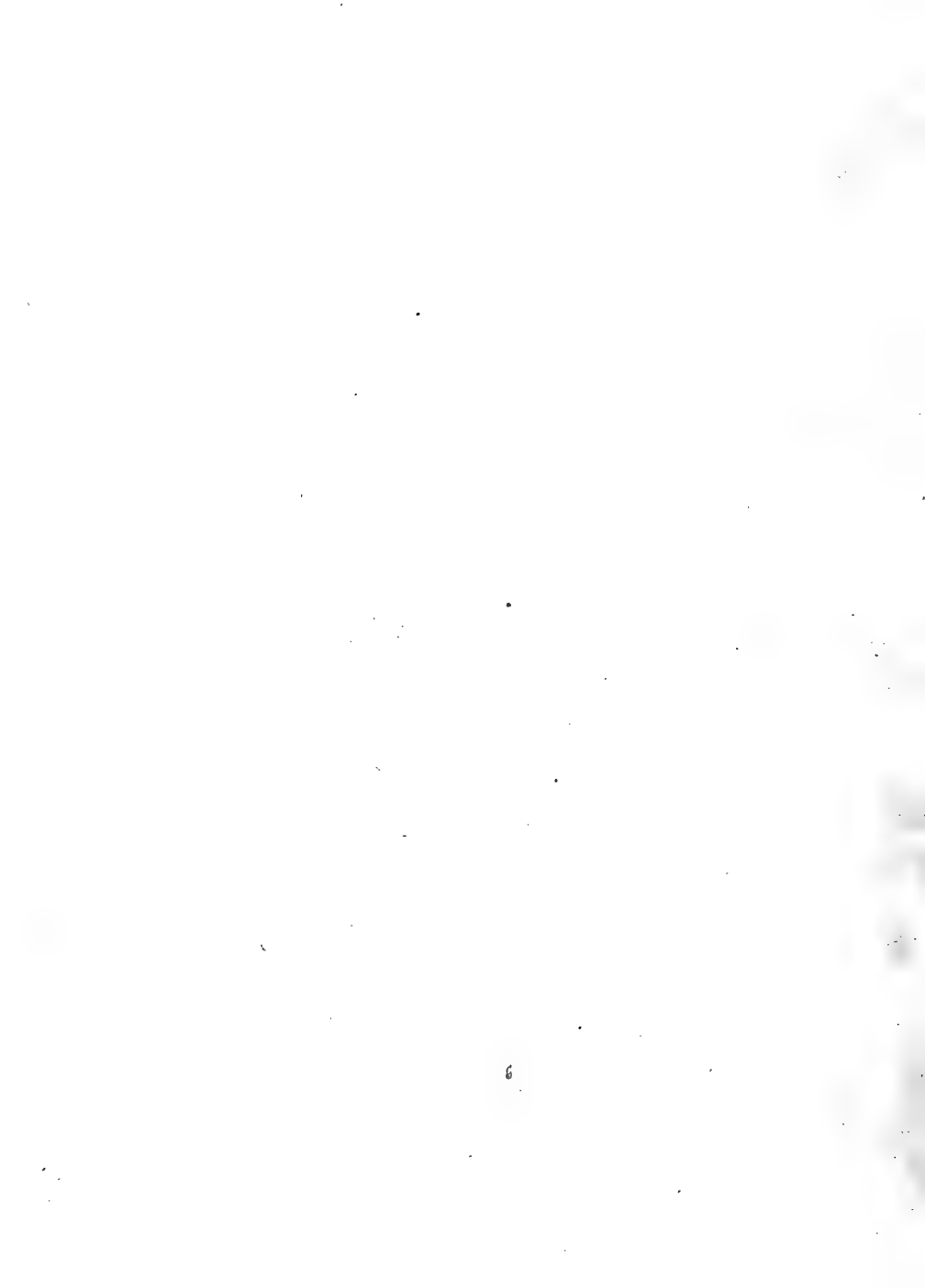
Fig 1.



Fig 1.

Class VI. ROSACEOUS.



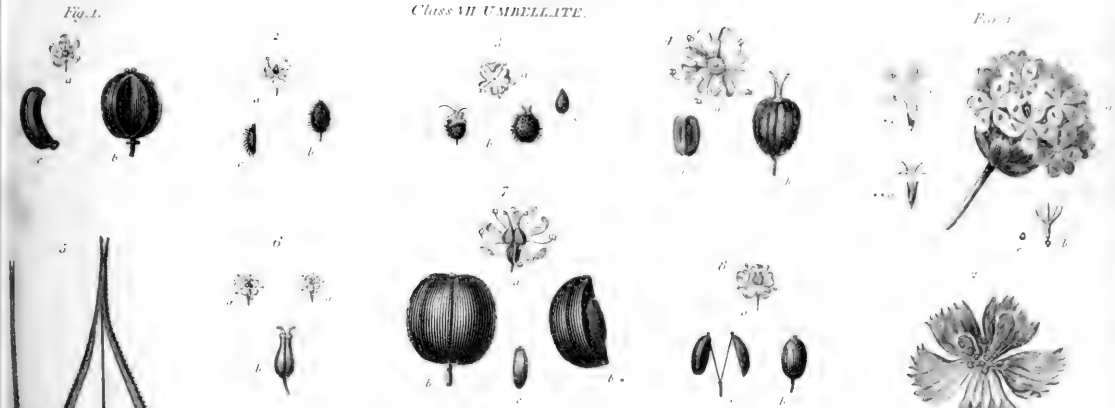




Class VIII. CAROPHYLLOUS.

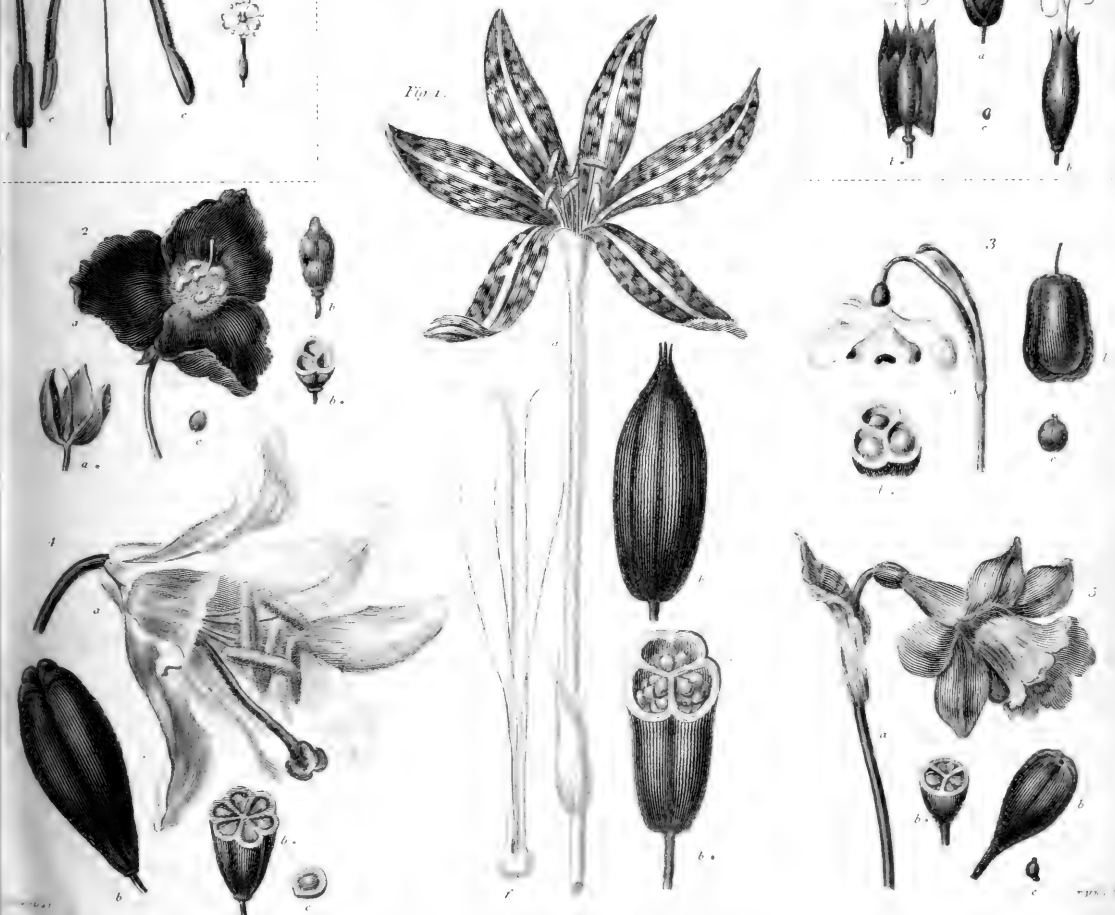
Class VII. UMBELLIFERE.

Fig. 1.



Class IX. LILLACEOUS.

Fig. 1.

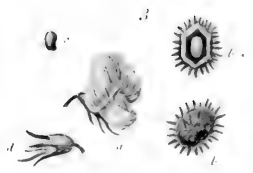




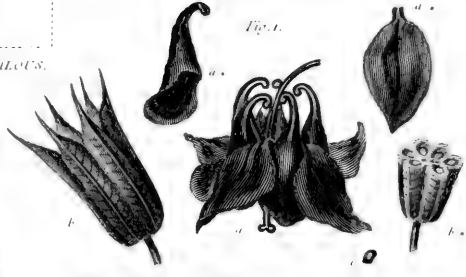
BOTANY.

Class X PAPILIONACEOUS.

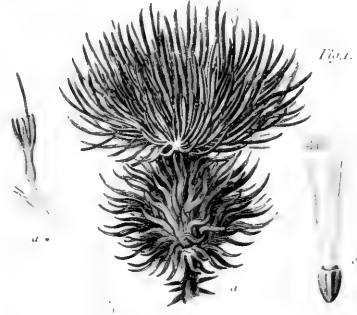
Fig. 1.



Class XI ANOMALOUS.



Class XII FLOSCULOUS.



Class XIII SEMIFLOSCULOUS.

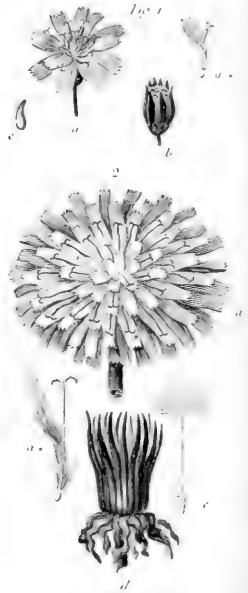
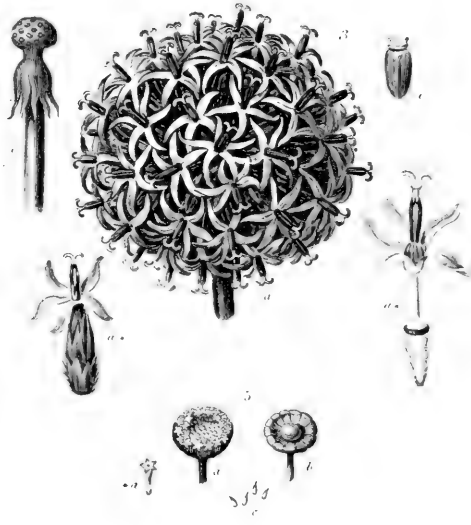




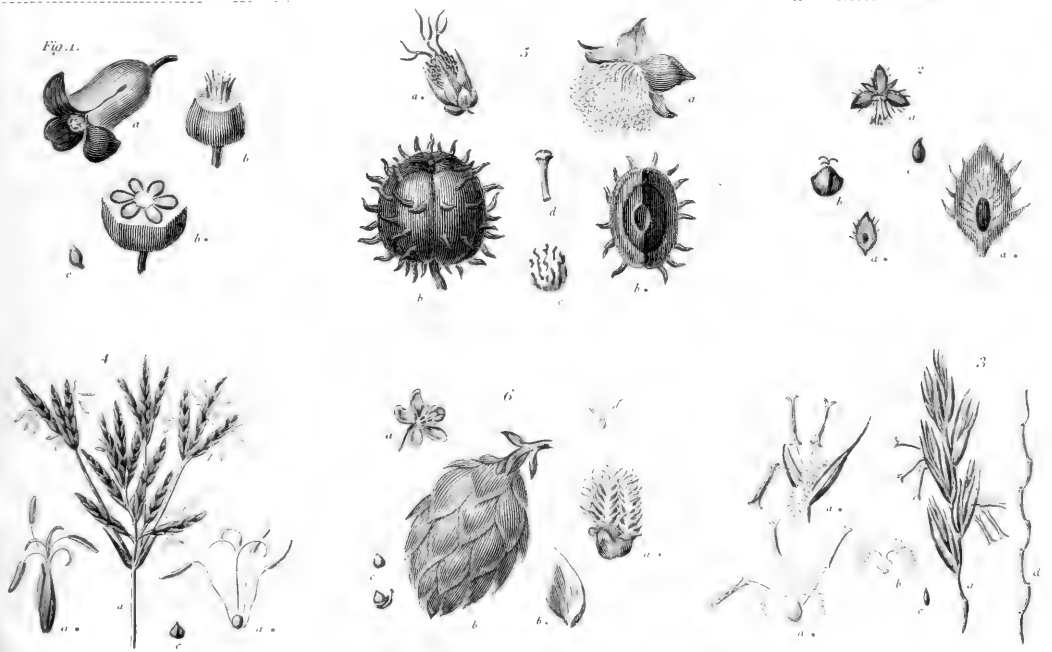
Fig. 5

Class IV. RADIAE.

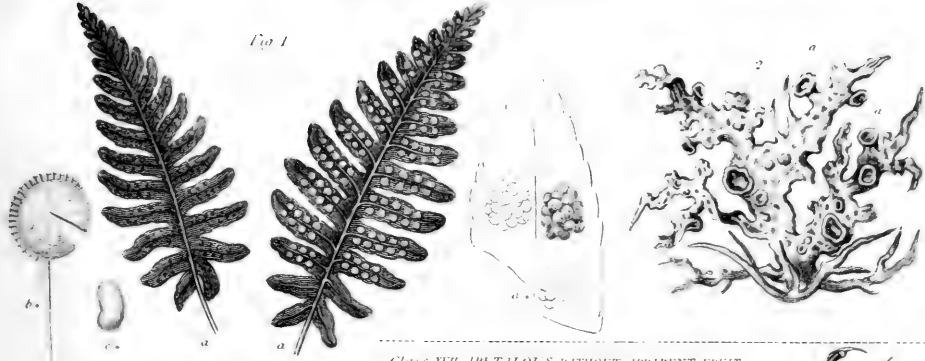


Class V. APETALOUS STAMINIFEROUS

Fig. 1.







Class VIII. APETALOUS WITHOUT APPARENT FRUIT

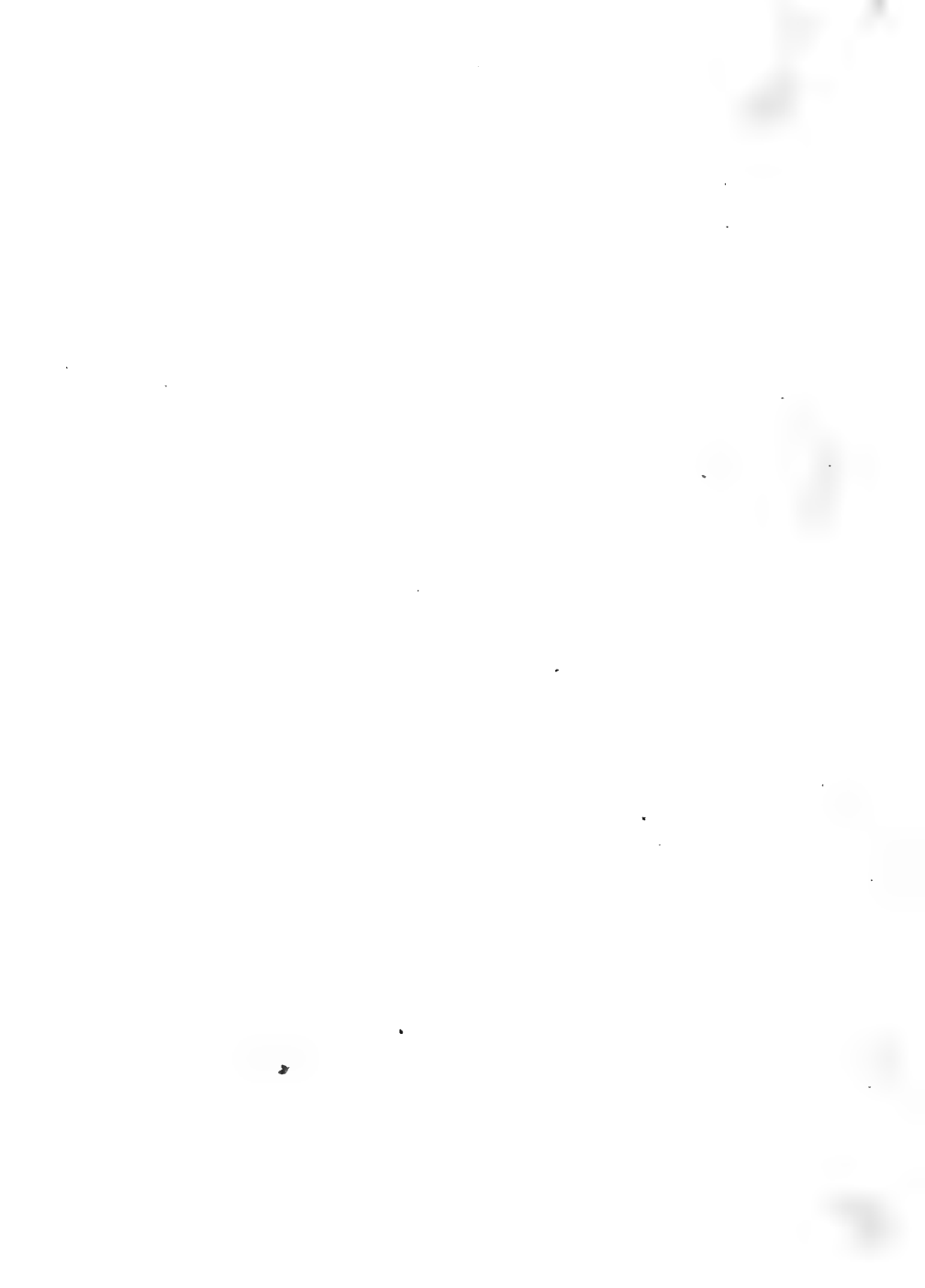


TREES & SHRUBS.  
Class VIII. APETALOUS.

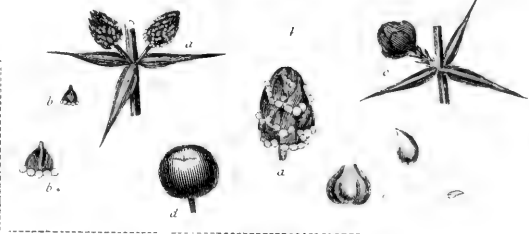
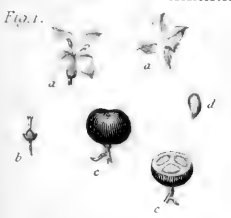
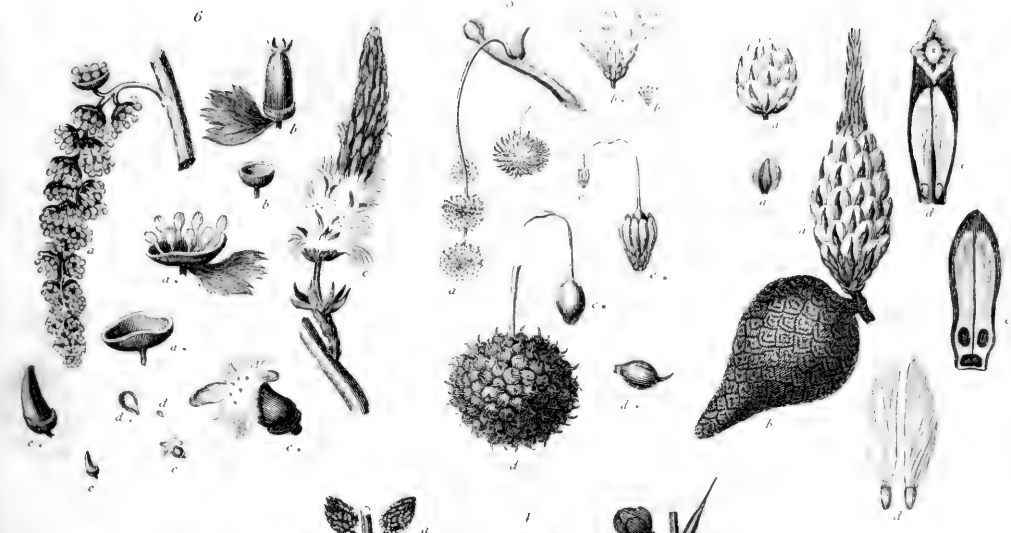


Class IX. AMENTACEOUS

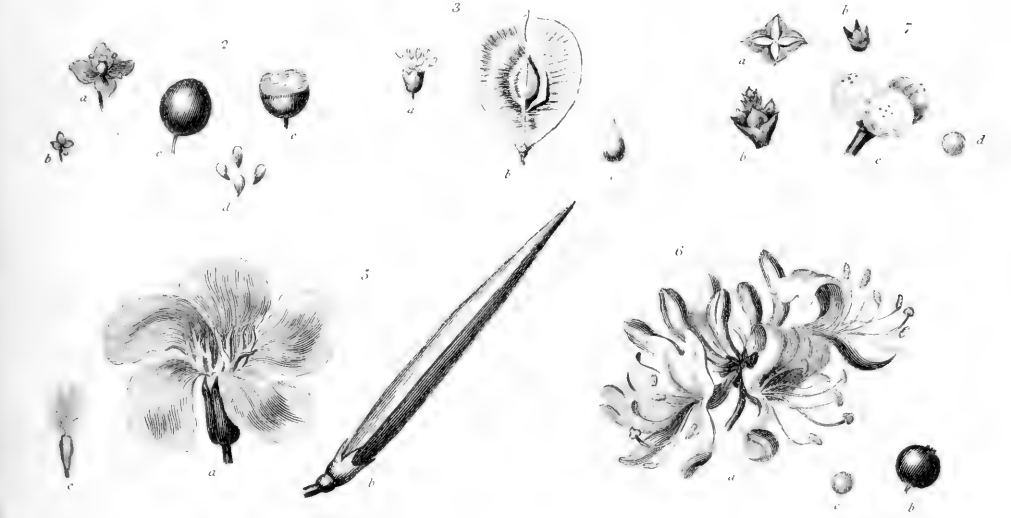






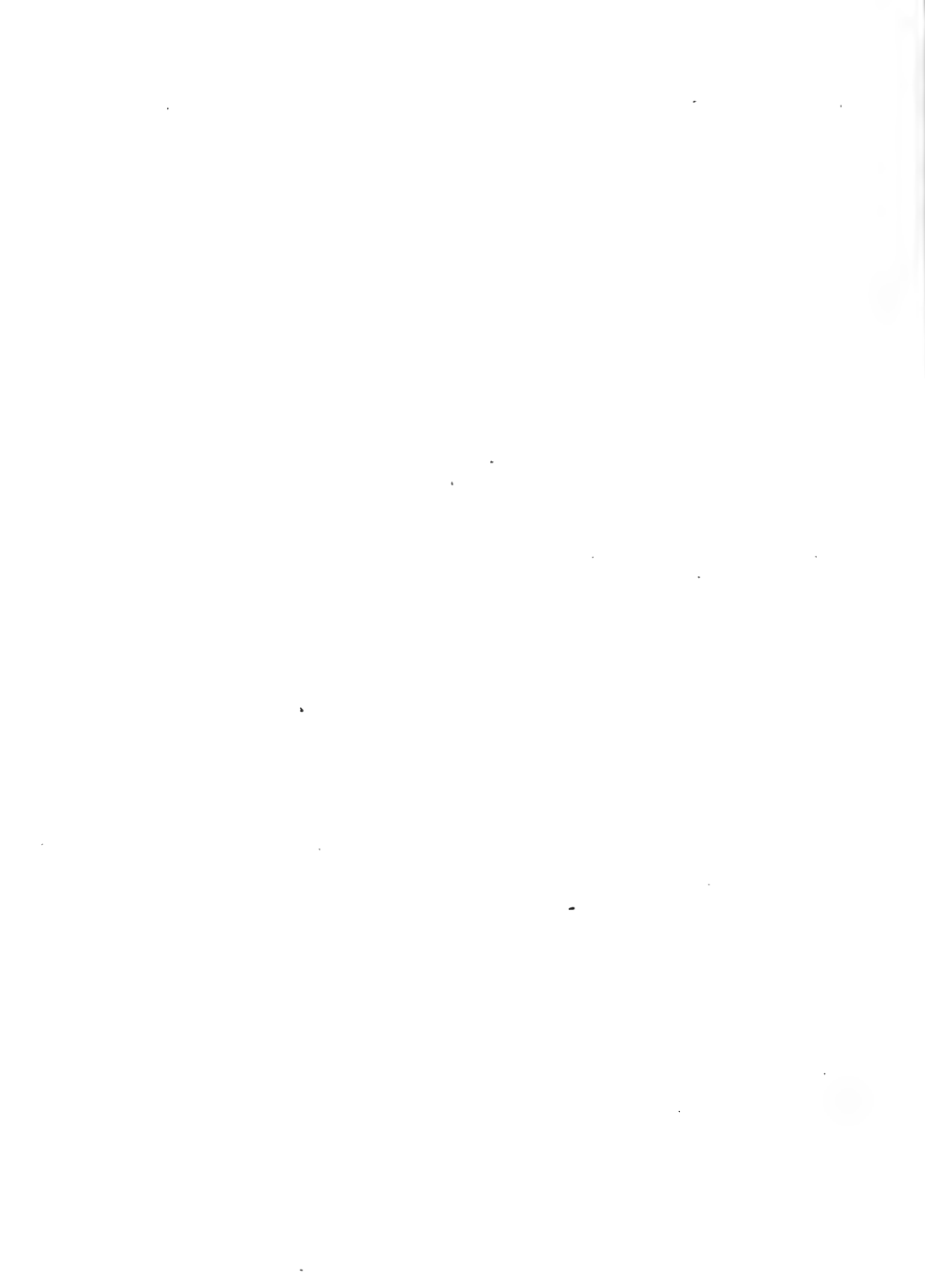


Class M. MONOPETALOUS









Bark.

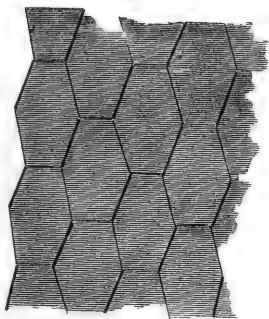


FIG. 2.



FIG. 11.

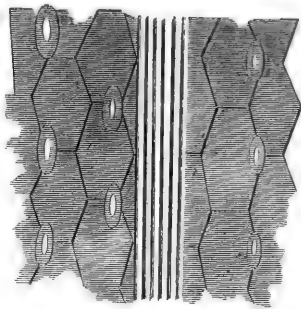


FIG. 3.

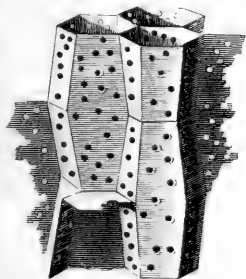


FIG. 5.

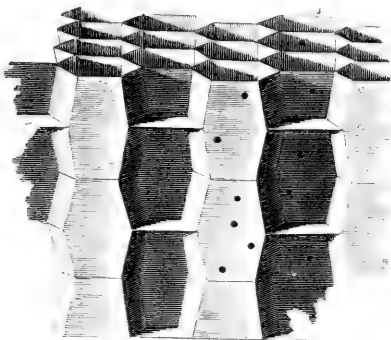


FIG. 4.

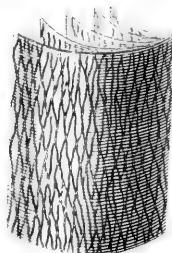


FIG. 7.



FIG. 9.

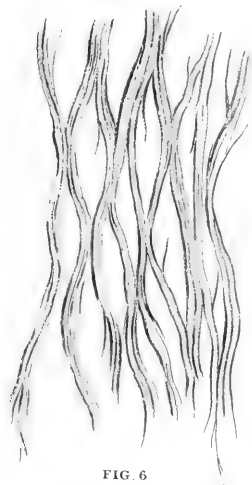


FIG. 6.



FIG. 1.

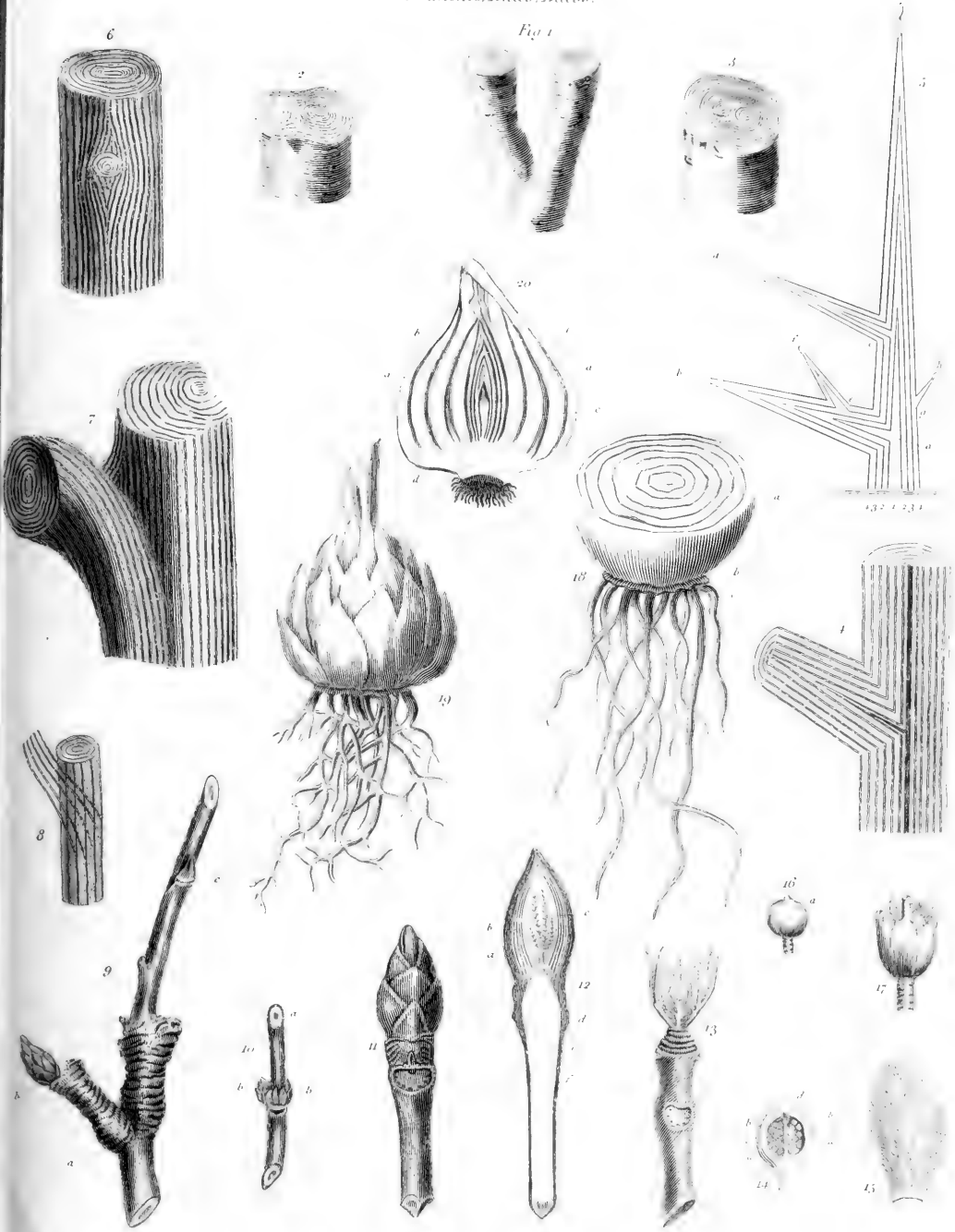


FIG. 10.



FIG. 8.



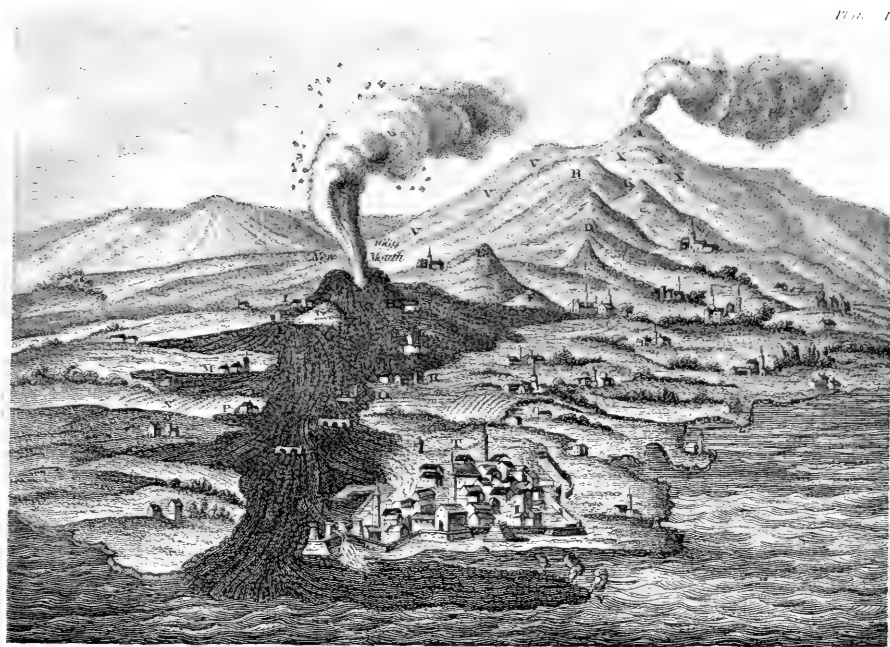




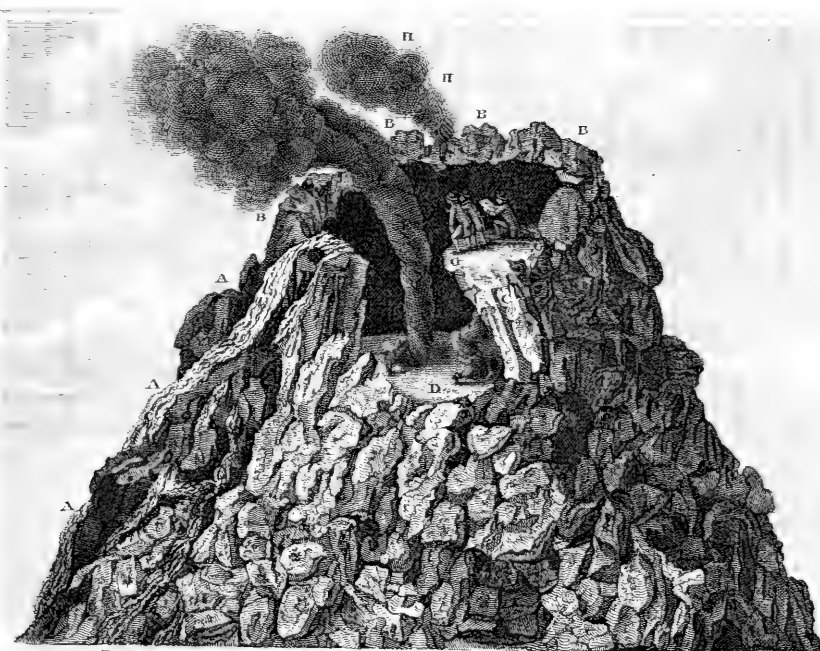


MOUNT ETNA.

Plat. I



Plat. II







From an original sketch made on the year 1797 by R. D'Aliphan Esq.

MOUNT VESUVIUS.

as seen from the Bay of Naples.

Published as the Act directs, Sept. 7, 1823, by Longman, & Rees, Paternoster Row.

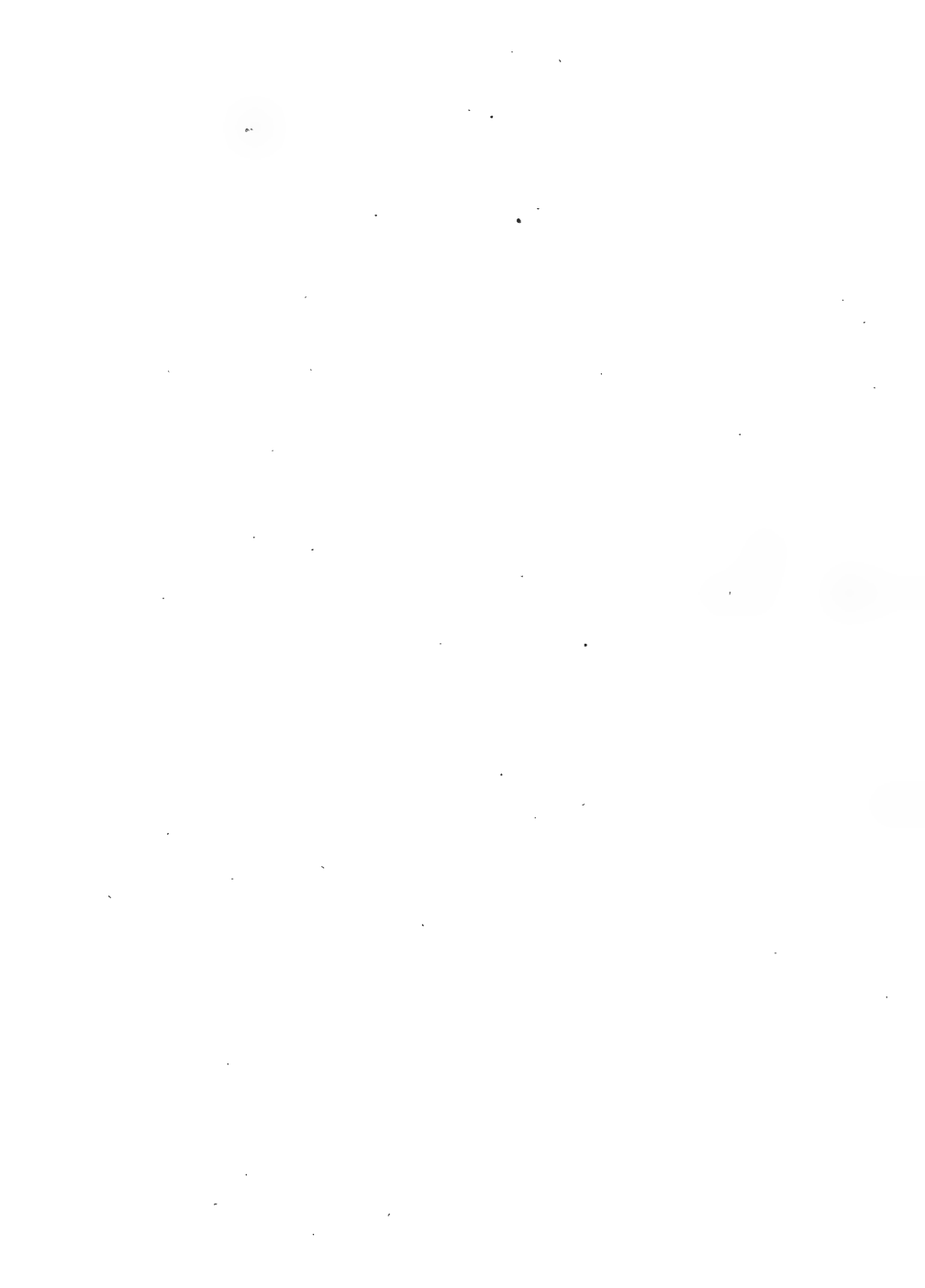




L. P. 1807.

THE CRATER OF MOUNT VESUVIUS.

From an original sketch made in the year 1797 by the late Mr. G. S. S. S.



MINERALOGY.

*BASALT.*

PLATE II.







See *Dr. Chazy's "Frequency Safety Lamp,"*  
as made by McPherson, Leach, Stearns & Co.,  
see *HERE* *CAT. 22.*

see *Dip, Dips, Fault, Slip, Trouble &c. in the Wide World.*



Fig. 1

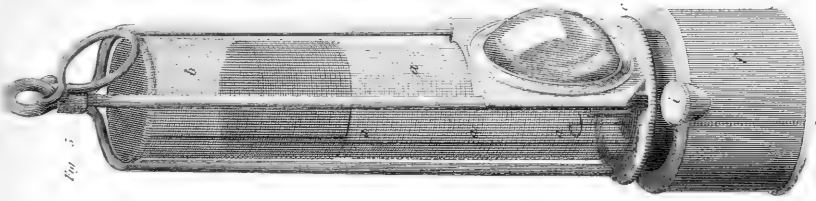


Fig. 2



Fig. 6

*Dr. Chazy's "Safety Lamps."*

*Steam Safety Lamp.*

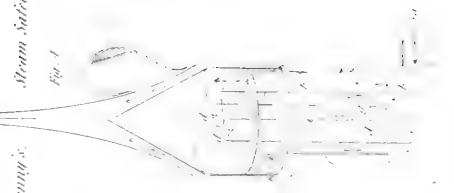


Fig. 1

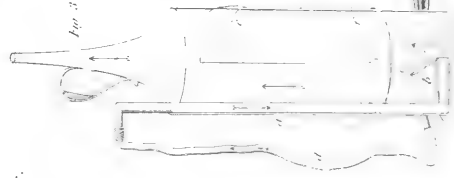


Fig. 3

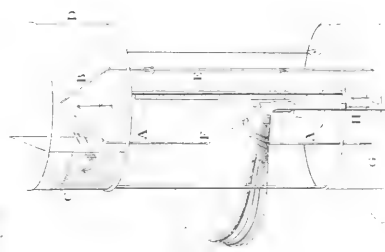


Fig. 7



Fig. 8



Fig. 2

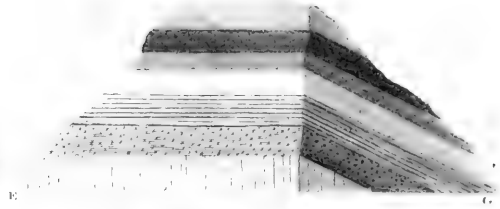


Fig. 1



Fig. 4

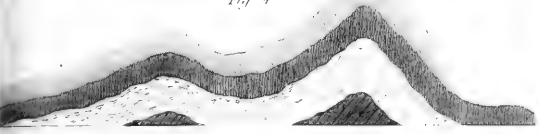


Fig. 3

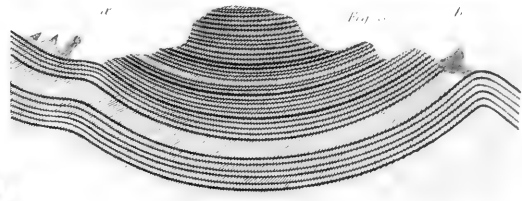


Fig. 5

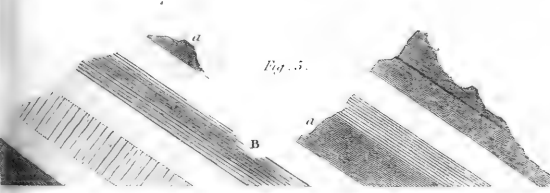


Fig. 6

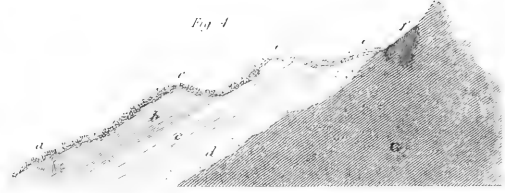


Fig. 7

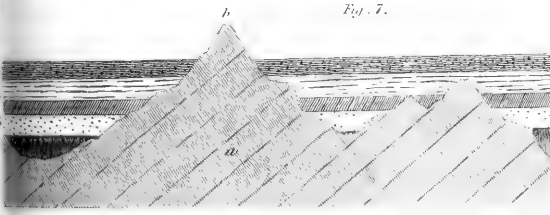
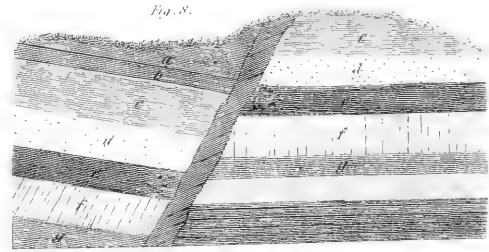
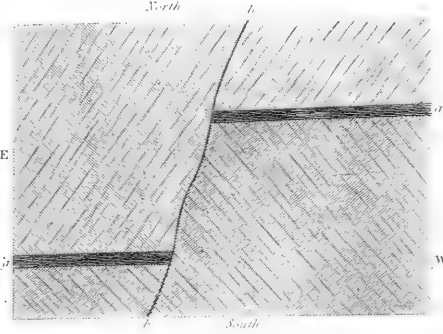
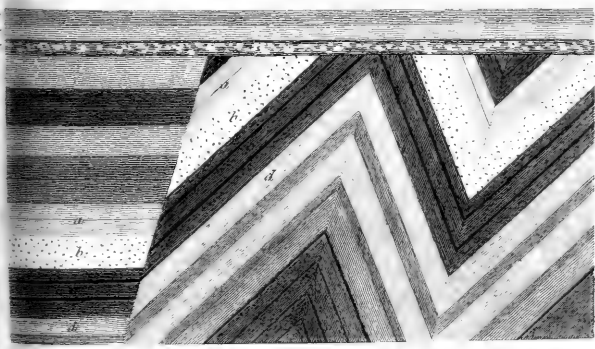


Fig. 8



With

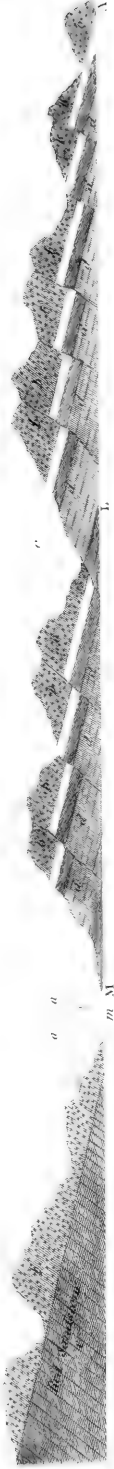






A Sketch of the Arrangement of the Strata through England by R. Bakewell. Lat. 51° 35' to 51° 45'.

Fig. 2.



A Section of the Strata through part of Dorsetshire & Devonshire by R. Bakewell.

Fig. 3.

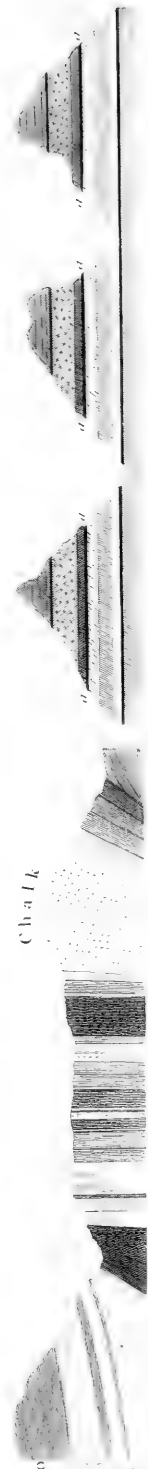


Fig. 4.

Fig. 5.

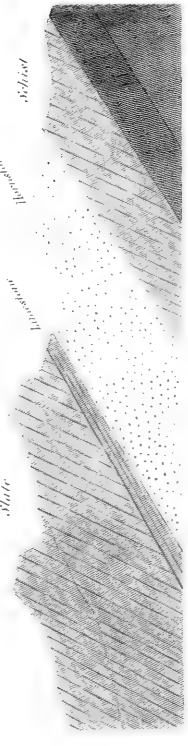
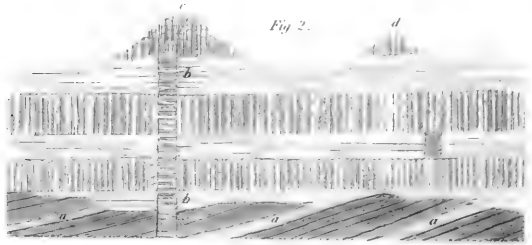


Fig. 6.





*Columnar and amorphous Basalt intersected by Basaltic Dykes*

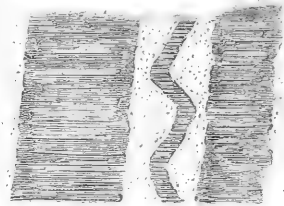


*Limestone Broken and enclosed in Basalt*

*Fig. 1*

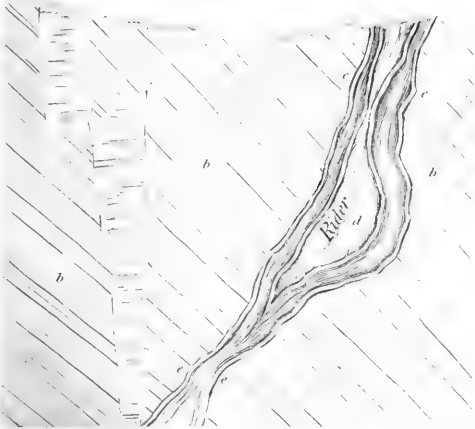


*Winstone Dykes or Basaltic Veins passing through*

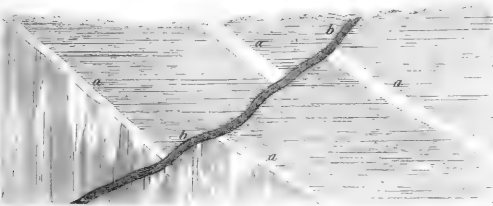


*Chalk and Changing it into Marble*

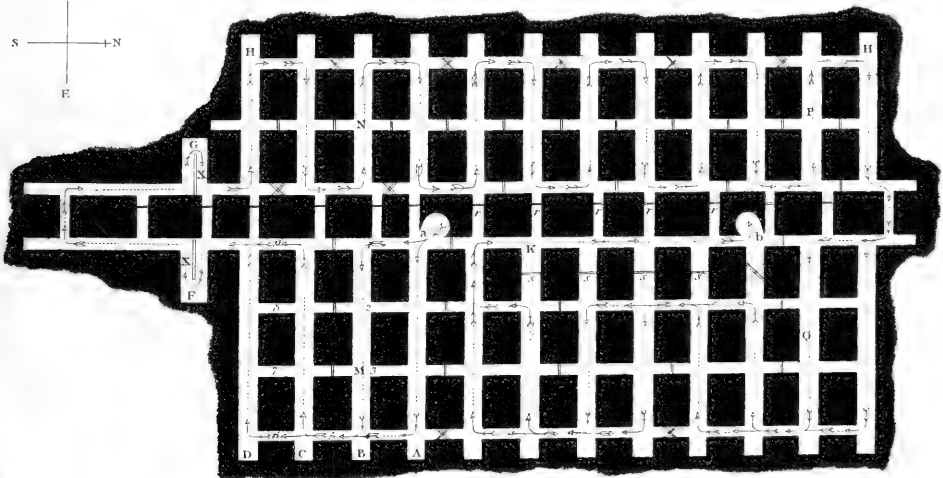
*Metallic Veins*



*Intersection of Metallic Veins*

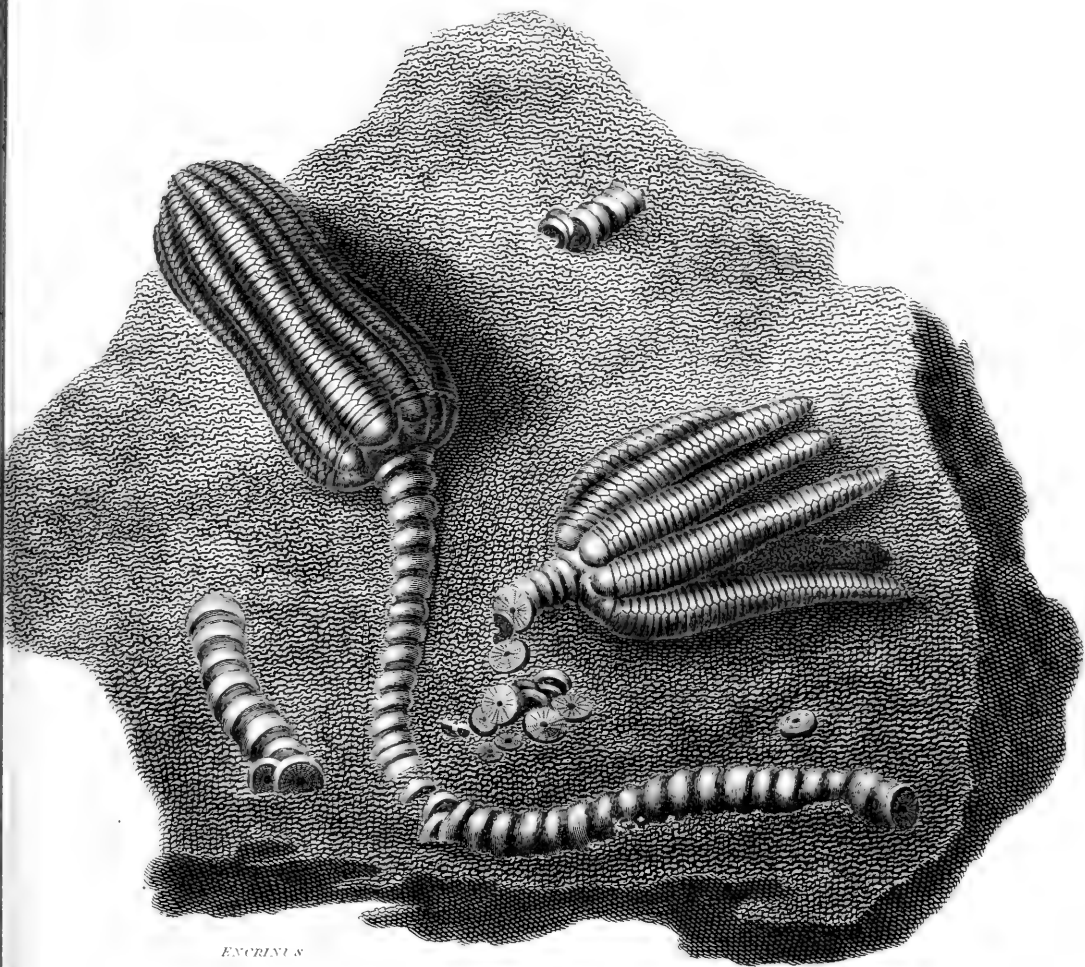


*Plan of a Coal Mine and mode of Ventilating*

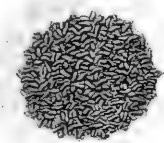




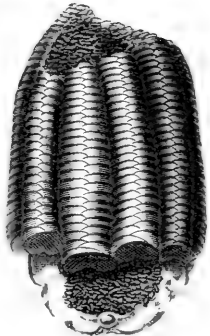




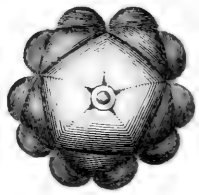
*ENCRIENS*  
Stone Lily



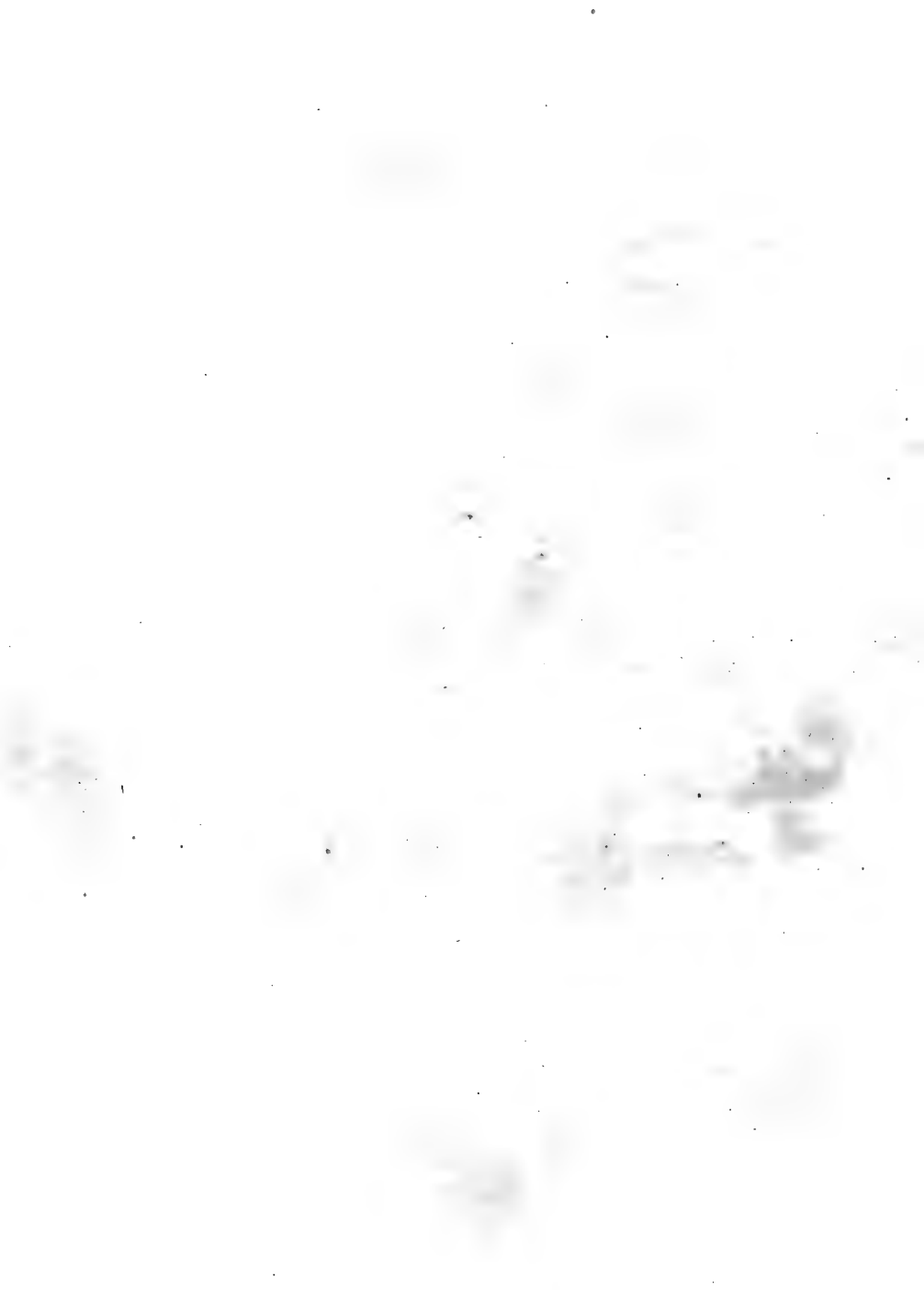
*transverse section of the  
Lily Head.*



*L.H. broken trans. erectly.*

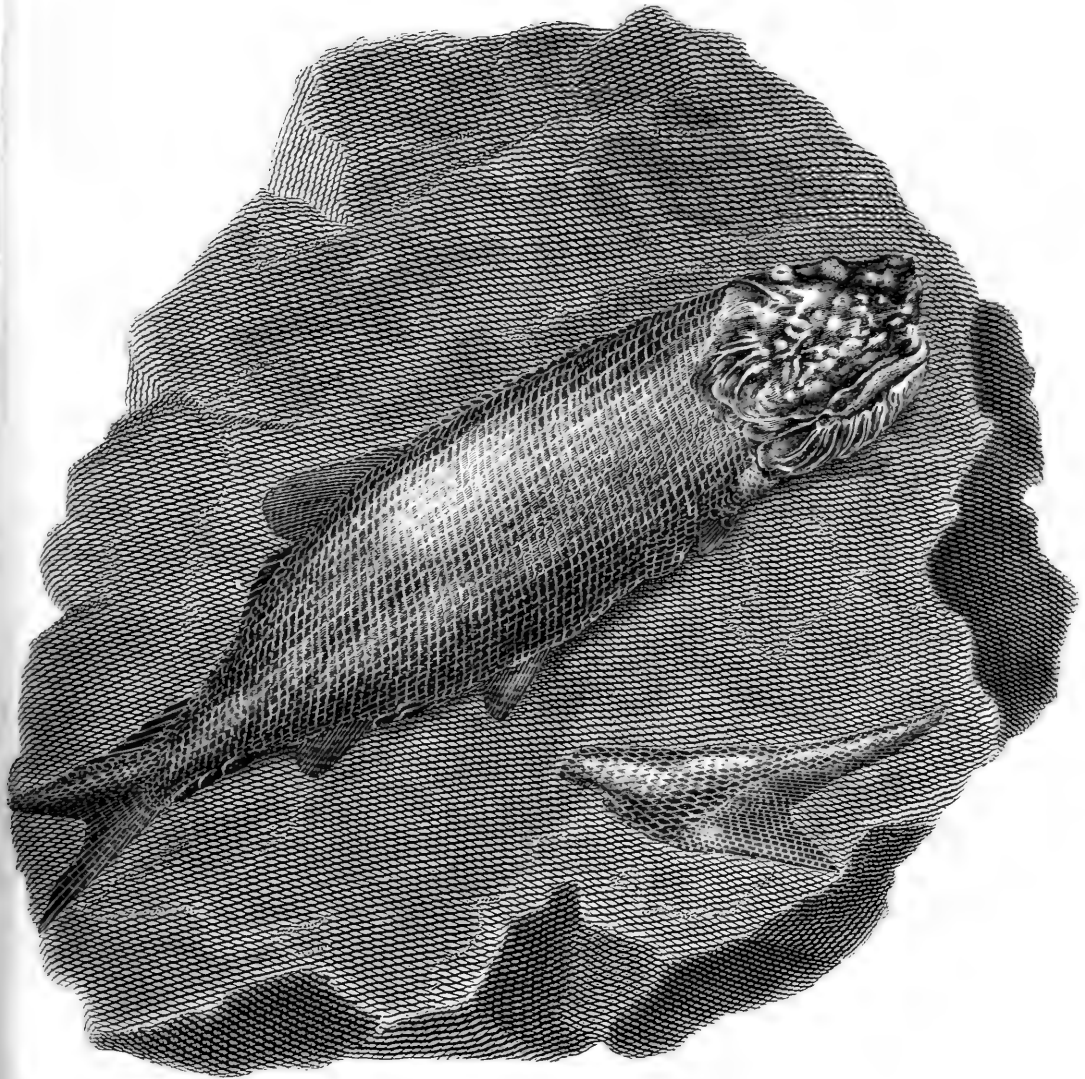


*Bottom of the L. Head*



ICHTHYOLITE.

*Ichthyological remains.*

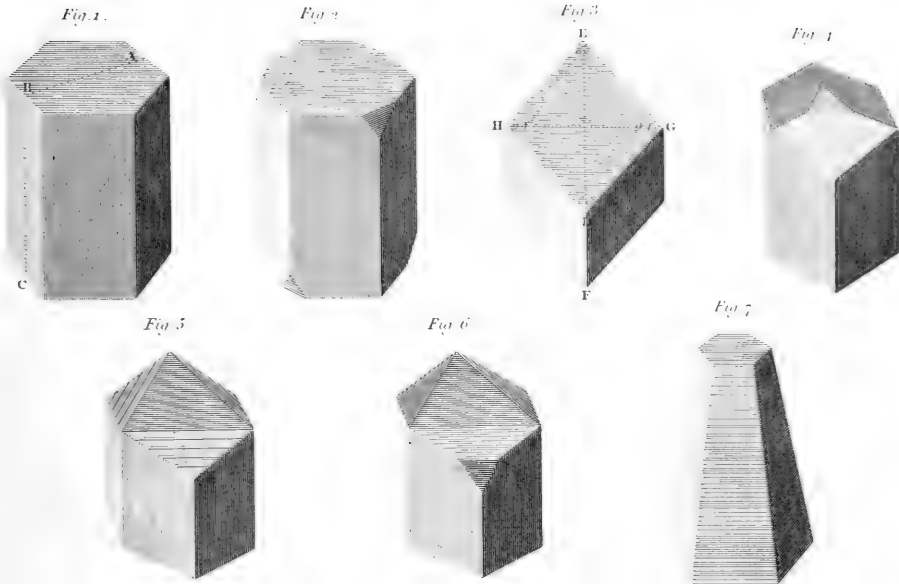


*Engraving of the Ichthyolite, from the collection of the British Museum.*

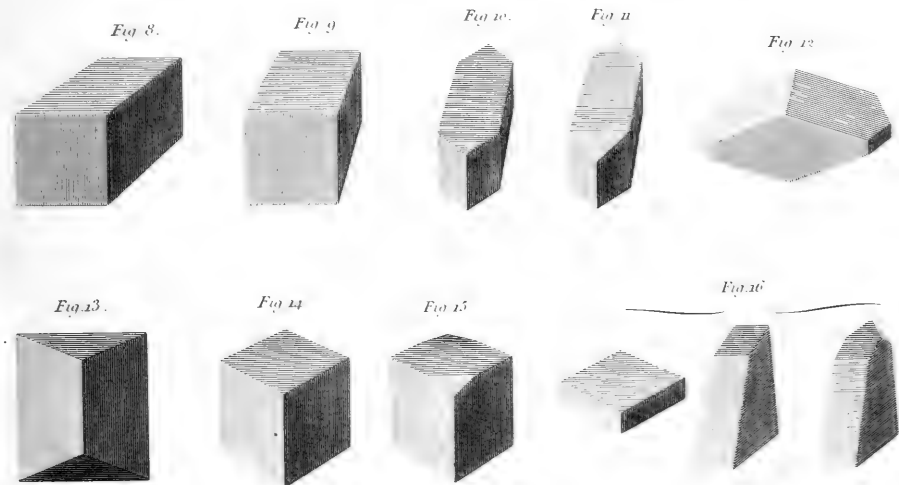
*Published at the Art Academy, under the direction of the Trustees of the British Museum.*



ADAMANTINE SPAR

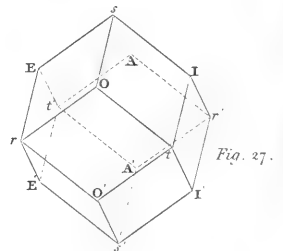
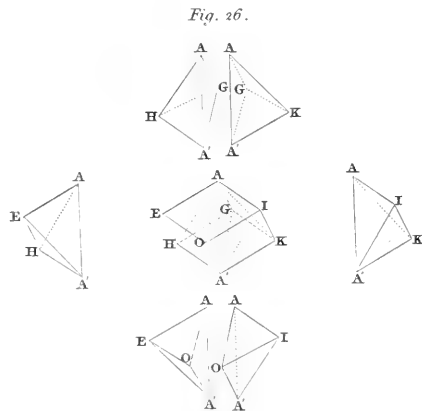
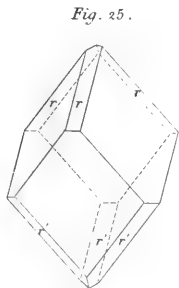
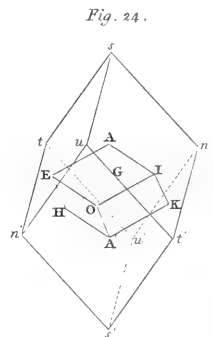
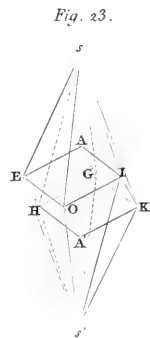
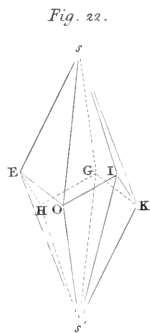
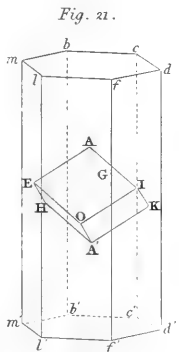
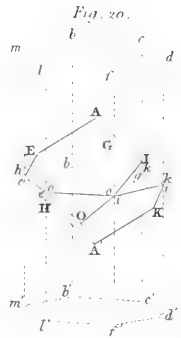
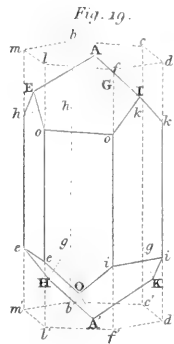
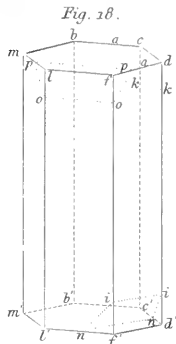


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Fig. 28.

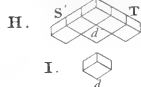
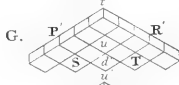
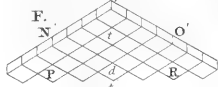
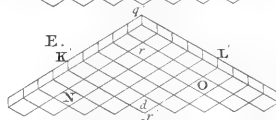
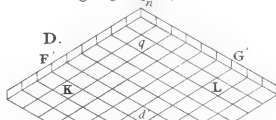
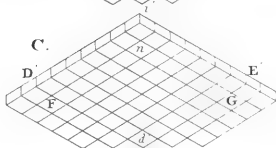
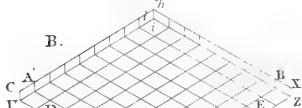
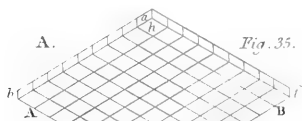
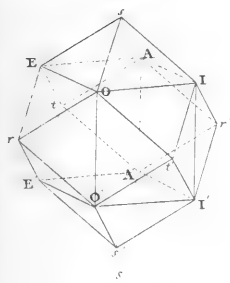


Fig. 30.

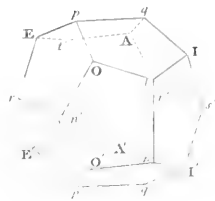


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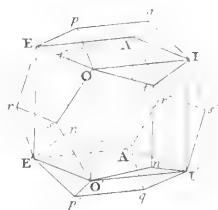


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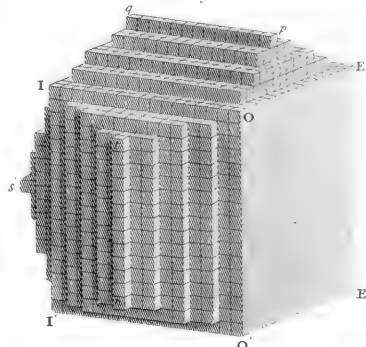


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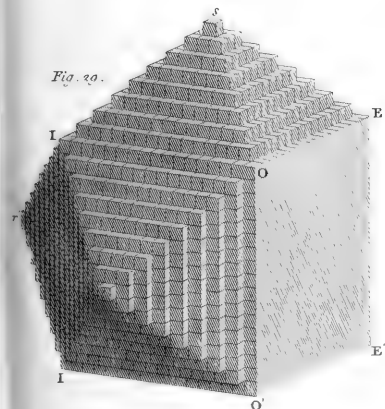


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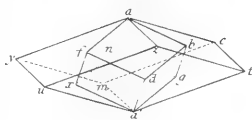
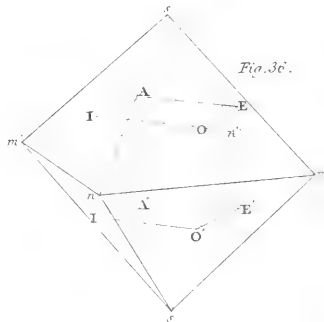


Fig. 33.





CRYSTALLIZATION, THEORY OF.

Fig. 39.

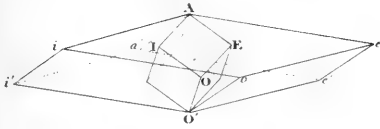


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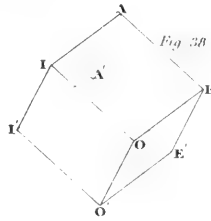


Fig. 37.



Fig. 47.

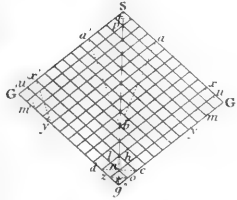


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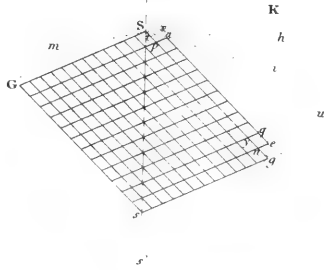


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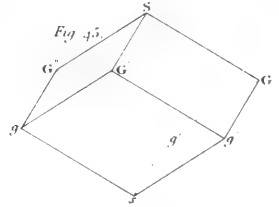


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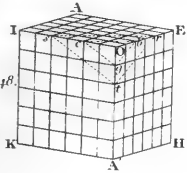


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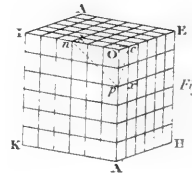


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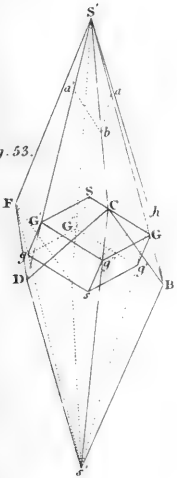


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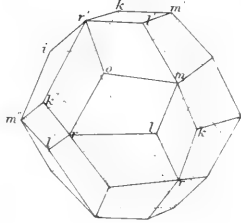


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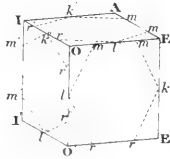


Fig. 50.

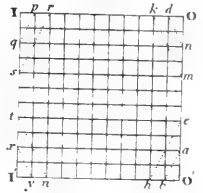


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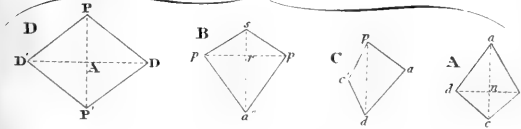


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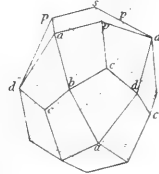
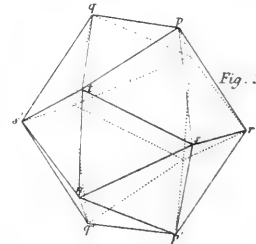


Fig. 54.





CRYSTALLIZATION, THEORY OF.

Fig. 56

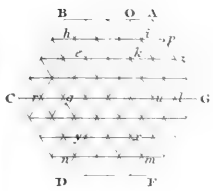


Fig. 57



Fig. 58.

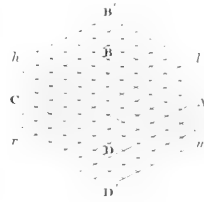


Fig. 59



Fig. 60.



Fig. 61



Fig. 62

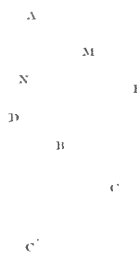


Fig. 63

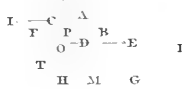


Fig. 65

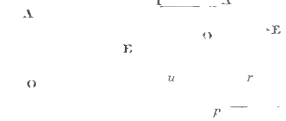


Fig. 67



Fig. 63



Fig. 68

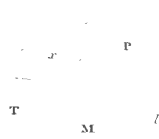


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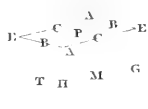


Fig. 70



Fig. 75

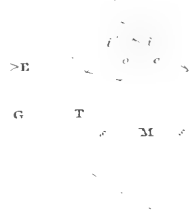


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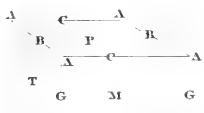


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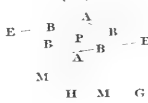


Fig. 73

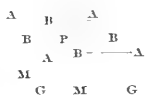


Fig. 74

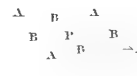
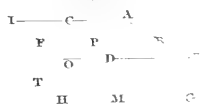


Fig. 76.





CRYSTALLIZATION, THEORY OF.

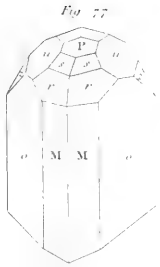


Fig. 77



Fig. 78

Fig. 79

Fig. 80

Fig. 81

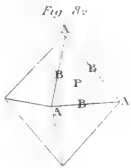


Fig. 82

Fig. 83

Fig. 84

Fig. 85

Fig. 86



Fig. 89

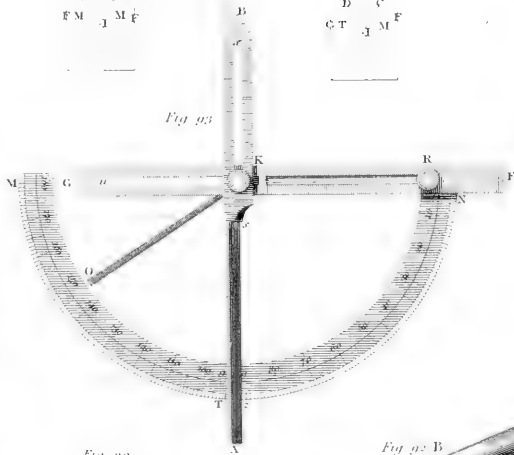


Fig. 93

Fig. 95

Fig. 96

Fig. 97



Fig. 91



Fig. 90

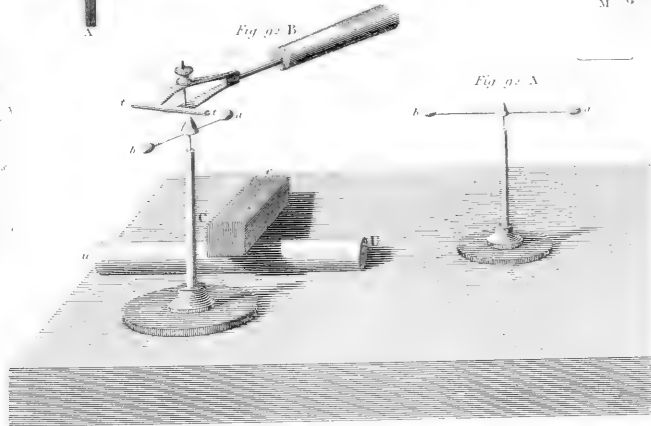


Fig. 92 B

Fig. 92 A





see *Mineralogy Appendix.*

Cube. Fig. 1.

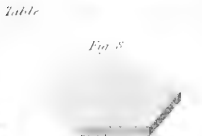
Rhomb. Fig. 2.

Fig. 3.

Fig. 3.

Varieties of the Prism.  
Fig. 4.

Pyramid.  
Fig. 5.



Double six-sided  
Pyramid.  
Fig. 14.



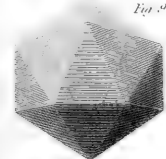
Tetrahedron  
Fig. 17.



Lens  
Fig. 11.



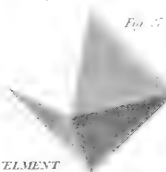
Icosahedron  
Fig. 9.



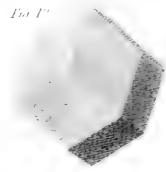
Pentagonal Dodecahedron  
Fig. 10.



Regular Octahedron.  
Fig. 15.



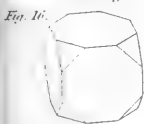
Rhombohedral Dodecahedron.  
Fig. 12.



TRUNCATION

BEVELMENT

On the Angles.  
Fig. 16.



On the Edges.  
Fig. 17.



On all the Edges.  
Fig. 18.



On all the lateral Edges.  
Fig. 19.



On the Angles.  
Fig. 20.



ACUMINATION. The Acuminating Planes.

On the lateral edges.  
Fig. 21.



Fig. 20.

At each angle  
set on the  
lateral planes.



Fig. 21.

On the lateral planes.  
Fig. 22.

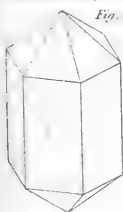


On the lateral angles.  
Fig. 23.



Fig. 23.

On the lateral planes.  
Fig. 24.



On the alternating  
lateral planes.  
Fig. 25.



On the lateral edges.  
Fig. 26.



Double eight-sided pyramid  
four planes at each extremity set  
on the alternate lateral edges.  
Fig. 27.



Double six-sided pyramid  
with the planes joined  
obliquely or Metastatic  
Crystal.

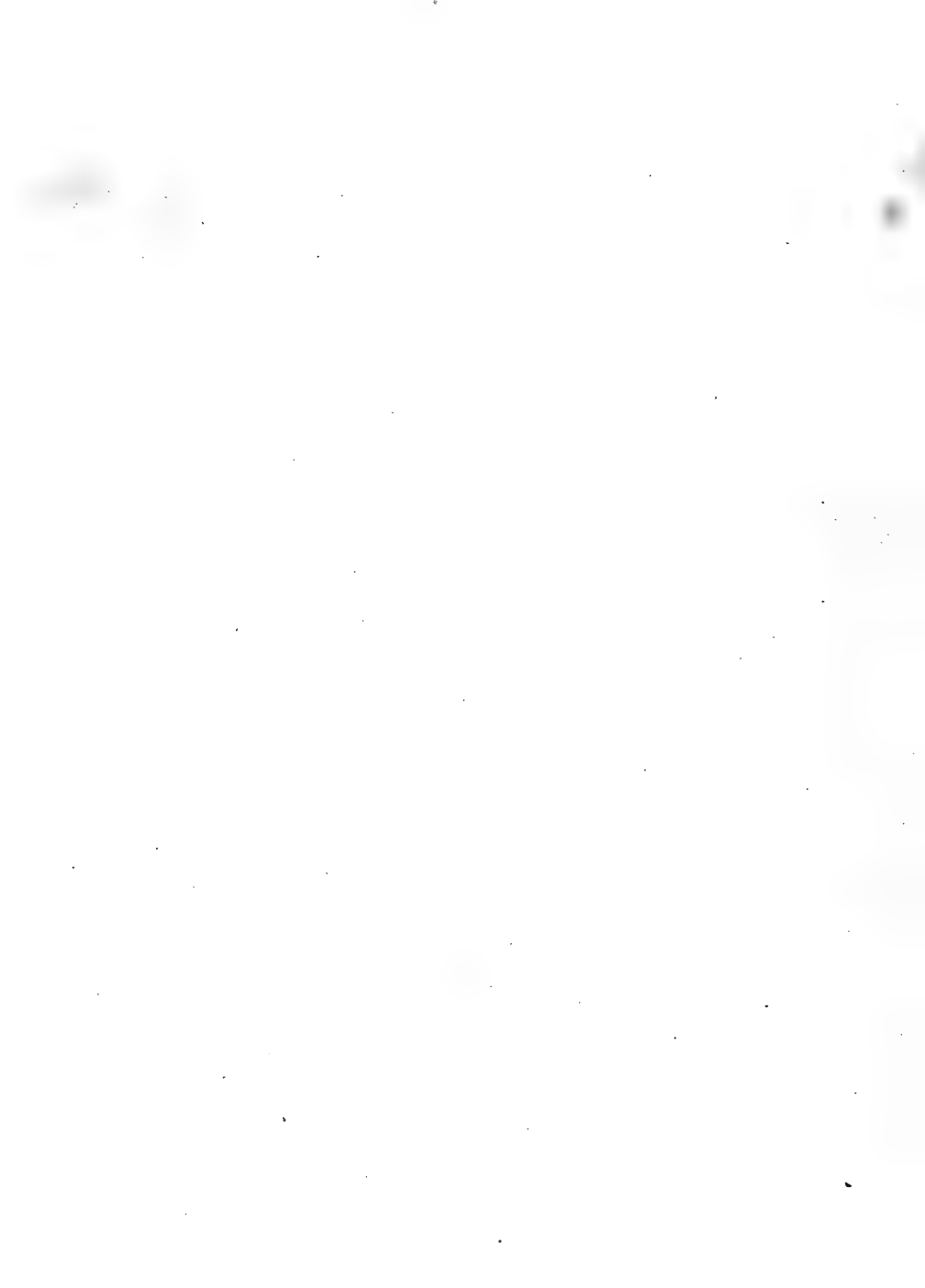


Fig. 1.



Fig. 2.

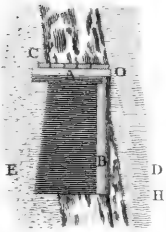


Fig. 3.

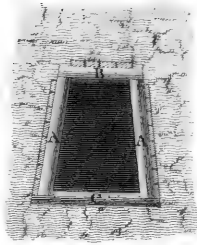


Fig. 4.

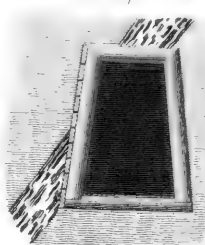


Fig. 5.

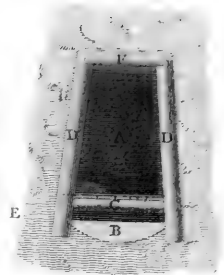


Fig. 6.

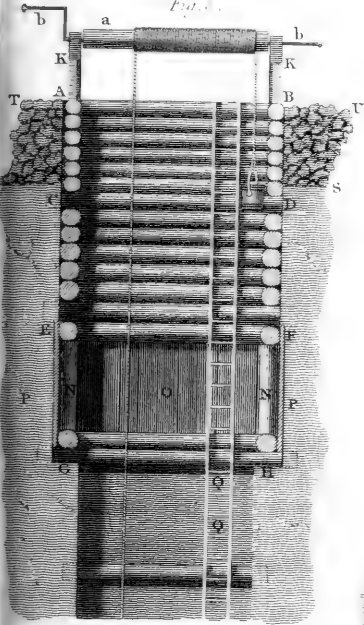


Fig. 7.

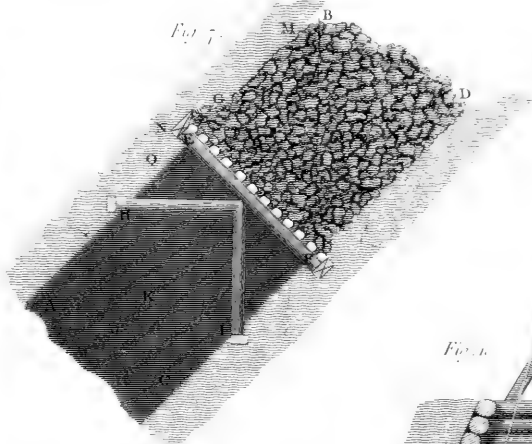


Fig. 8.

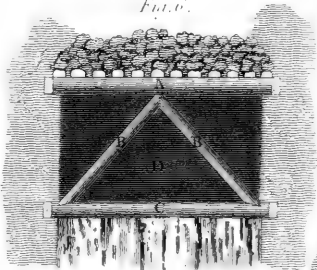


Fig. 9.

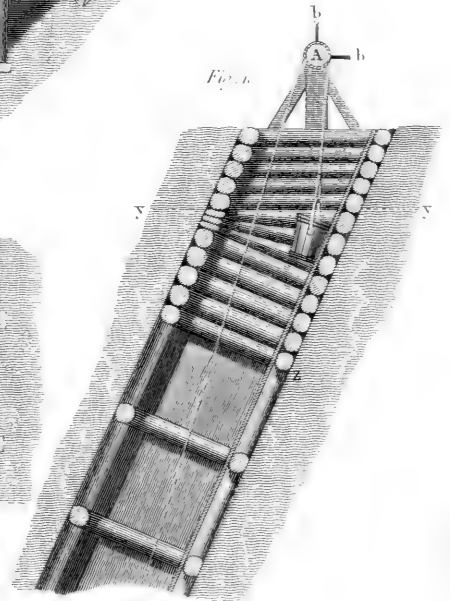
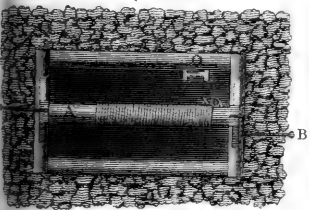
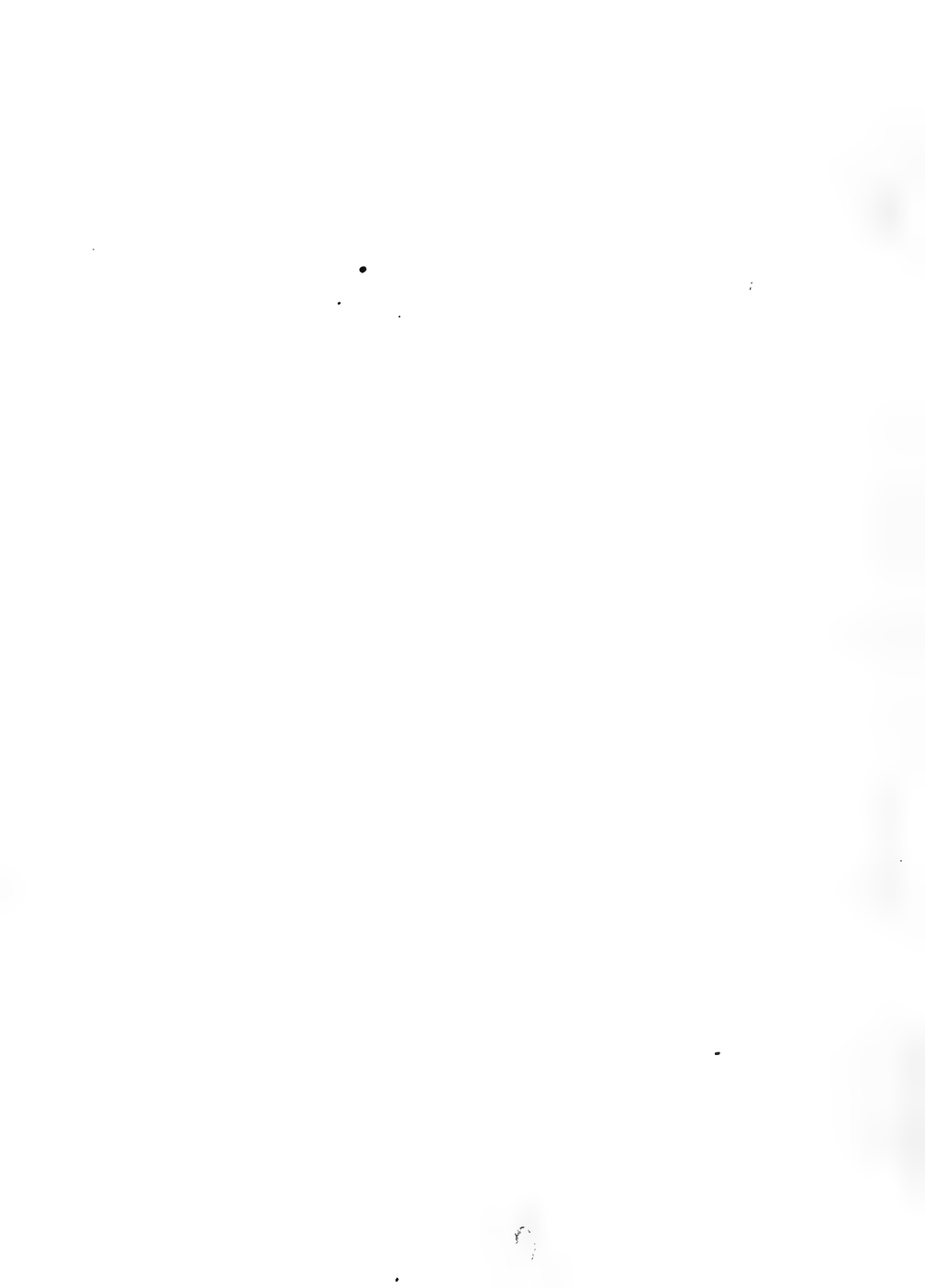
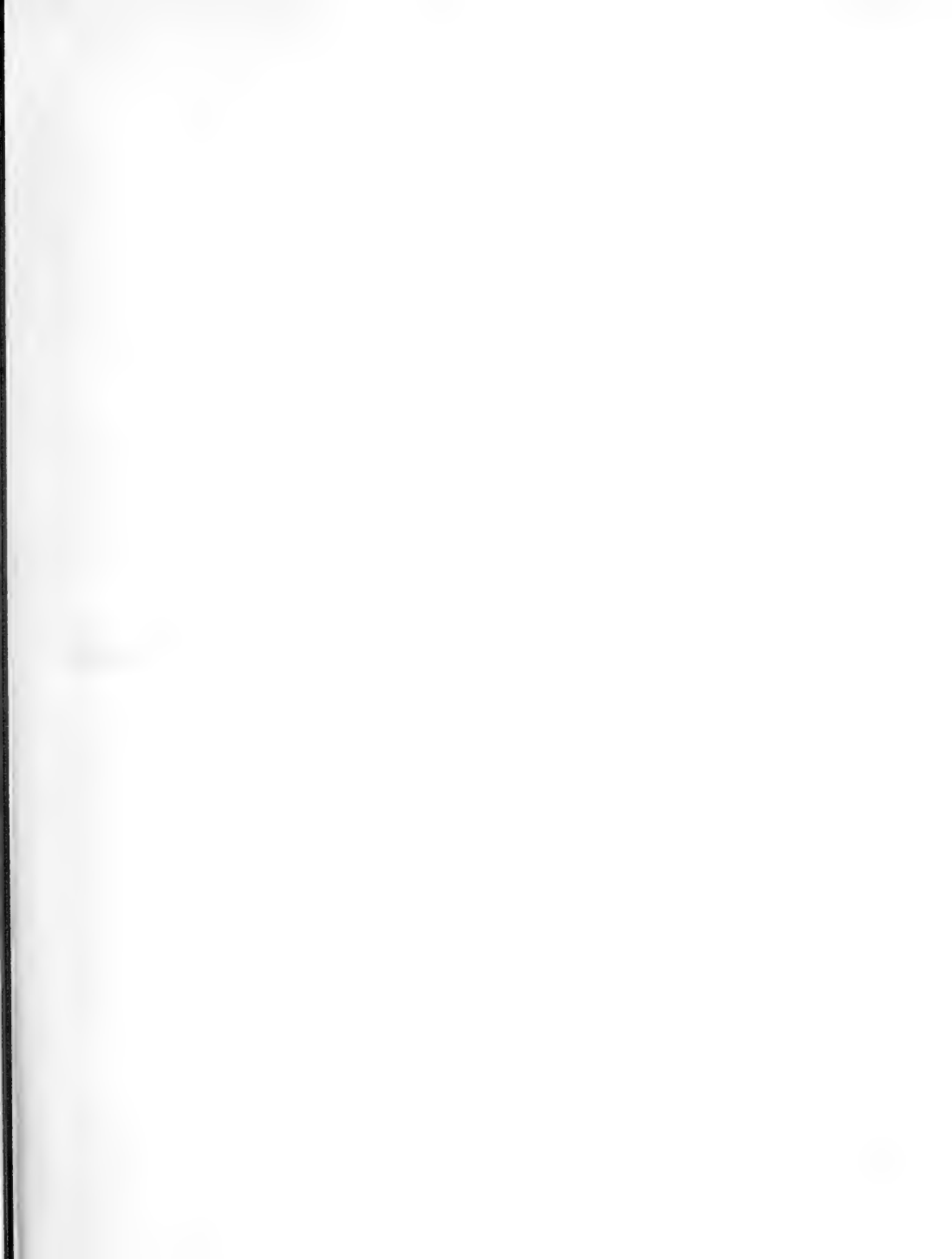


Fig. 9.
















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