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AN INDEX TO THE GENERA AND SPECIES OF THE FORAMINIFERA

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INTRODUCTION TO 1955 REPRINT

The comprehensive "An index to the genera and species of the Foraminifera," by Charles Davies Sherborn, was originally published by the Smithsonian Institution in 1893 and 1896 in two parts (Smithsonian publications 856 and 1031). It included all species and genera of Foraminifera published to 1889, giving both the original names and any new combinations used by later authors. Thus it was of great value in taxonomic work and in detecting and avoiding homonymy in systematic studies. Unfortunately for modern workers there has been no such work available for species published after 1890; and, furthermore, Sherborn's valuable publication has long been out of print and thus unavailable to many students of this group.

Systematic work on Foraminifera during the past forty years has received a tremendous impulse from their economic value, especially that concerned with the search for petroleum and more recently with ecologic and paleoecologic studies. At present there is a larger number of paleontologists actively engaged in foraminiferal studies than is specializing in any other group of the invertebrates. Because of the daily increasing volume of published material, it is difficult to keep abreast of nomenclatural changes in current work.

Recently, Hans E. Thalmann completed for publication an index of the Foraminifera from 1890 to 1950. This work continues the earlier work by Sherborn, bringing it up to date, but does not repeat the material of Sherborn's book. Therefore, in order to have a complete index of the Foraminifera available to all, including material before and after 1890, it is necessary to reprint Sherborn's original publication. With the forthcoming publication of the monumental Thalmann index to the genera and species from 1890 to 1950, and with the present reprinting of Sherborn's classic index of the species up to and including 1889, modern students will now have an invaluable tool in their systematic work on the Foraminifera.

The present edition, bringing together into one volume the two parts of the original edition, is reproduced by offset from the original, unchanged except for the addition of this introduction and a new title page with new volume and publication numbers.

ALFRED R. LOEBLICH, JR.
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PREFATORY NOTE.

THE preparation of the manuscript of this index occupied the years between 1885 and 1889. The printing was commenced in 1890, and owing to the considerate kindness of the Smithsonian Institution in the matter of proofs, it has been found practically impossible to complete the work before the end of 1894; and therefore it has been thought advisable to issue the first half—comprising the material A to Non.—as Part I. Part II (the concluding portion) will be issued as soon as ready, accompanied by a preface and such emendations as may be found necessary. For the latter particulars, I shall be mainly indebted to my friend Fortescue William Millett, whose knowledge of the literature of the subject is remarkable and peculiar.

C. DAVIES SHERBORN,

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OCTOBER, 1893.

INTRODUCTION.

WHEN studying any group of animals from a systematic point of view, the first fact that forces itself on the notice of the student is that certain forms, identical one with another, have been described under different and even many names by different observers. This, in most cases, has been caused by the describer being ignorant or regardless of the writings of those who have gone before. In no group, perhaps, is this lamentable state of things presented more forcibly than with the Foraminifera; and it was in order to leave no excuse for those who came after me, that I prepared a Bibliography of the subject in 1888, and in 1890 compiled an index to the contents of all publications on this special group known to me as issued up to December, 1889, which Index the Smithsonian Institution has done me the honor to publish. It is now, therefore, quite an easy matter to arrive at the number and names of species of any genus, and, with this help, to examine and compare those forms previously figured and described with the form supposed to be new; for even in the absence of the literature, friends can always supply tracings of the figures described.

It is chiefly to the efforts of William Kitchen Parker, Thomas Rupert Jones, and Henry Bowman Brady, that we owe the clearing up and ordering of the nomenclature of the older authors. Professor Rupert Jones, the prime mover in the work, is happily still with us. So long ago as 1859, the two first-named of these microscopists commenced a series of papers "On the Nomenclature of the Foraminifera" in the "Annals and Magazine of Natural History," and these were continued, as a series, for about fifteen years. Almost all the old authors were reviewed in their turn, and the result was a considerable simplification of specific nomenclature. Brady, whose acquaintance with recent forms is attested by the "Challenger" Report, did still more in this direction; and of later years Axel Goës, of Kisa, Sweden, has tabulated recent and fossil forms around well-marked varieties. This method, previously adopted by Parker and Jones, tends to support the idea of the impossibility of defining a "species" in a group where every individual may be regarded as a "variety."

In the compilation of this Index many references have been given to forms described but not figured: the existence of such names necessarily leads to an incomplete index; it is an easy matter to overlook a name if not accompanied by a figure. As it is, moreover, practically useless to describe a form as new, without a figure, in a group so variable in itself, the great majority of these

names have passed into a deserved oblivion. This is also applicable to many of Ehrenberg's "species," most of which were drawn and figured as preserved in Canada-balsam. In studying this author it must be remembered that, at the time Parker and Jones wrote their paper upon Ehrenberg's "Mikrogeologie," they were perfectly familiar with Foraminifera, both in the free and in the mounted state with both reflected and transmitted lights. Hence their determinations of Ehrenberg's figures may be safely taken as correct. At the same time it must be pointed out that a correction of nomenclature made to one of the figures in the Mikrogeologie does not necessarily refer to any other species of Ehrenberg's bearing the same binominal appellation.

In the cataloguing of Soldani's numerous figures, I had availed myself of Jones and Parker's observations on the subject, when referring the old figures to modern interpretations. Since the completion of my manuscript, Fornasini has published a detailed memoir on Soldani, and to this I must refer the student for further particulars when dealing with any special form.

With regard to the method of reference employed, it will be noted that the name of the original author of a species invariably accompanies that species, or is expressed by its equivalent ———, whenever that species is referred to subsequently to its first appearance. The practice of quotation often adopted in lists, *e. g.*,

Cristellaria cultrata, Brady, Report Challenger, etc.,
when really

Cristellaria cultrata (Montfort). Brady, Report Challenger, etc.,
is meant, is not only troublesome but misleading.

The letter *v.* is used indiscriminately for *vide* or *varietas*; but, from the position of the letter, the meaning should be easily apparent.

In the compilation of such a book as this we can scarcely hope to approach perfection; and, with this in mind, I gladly availed myself of the offer by my friend Fortescue William Millett, of Marazion, to look over the proofs with a view to *corrigenda* and *additamenta*. The result of the kind offices of Millett and others is presented in a list arranged alphabetically under genera. It remains for me to express my thanks to the Board of Regents of the Smithsonian Institution for publishing my manuscript; to thank especially Professor Rupert Jones, who kindly placed at my disposal the whole of his manuscript notes made while considering the nomenclature question with Parker and Brady; and to thank those friends who have from time to time favored me with their papers and assistance. My thanks are also gratefully tendered to Dr. S. H. Scudder for his kindly interest, and to the "reader" of the Smithsonian Institution, and the printers, to whose patience and acumen in dealing with a difficult manuscript, I am considerably indebted.

C. DAVIES SHERBORN.

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FORAMINIFERA.

- ACANTHOSPIRA**, Reinsch, 1877. Neues Jahrb. 1877, 177. [Proposed but not described; "Cornuspiridæ."]
- ACERVULINA**, Schultze, 1854. Organismus Polythal. 1854, 67. [Referred to *Gypsina*, by H. B. Brady.]
- **acinosa**, Schultze. *Ibid.* 68, vi, 15.
- **cretæ**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 171, v, 39*ab*.
- **globulosa**, Schultze. Organismus Polythal. 1854, 68, vi, 13, 14.
- [**globosa**] ——— Claus, Lehrbuch d. Zool. 1885, 156, f. 140.
- **inhaerens**, Schultze. Organismus Polythal. 1854, 68, vi, 12. [v. *Gypsina*].
- ——— Bronn, Klassen Ordn. Thier-Reichs, 1, 1859, 72, vi, 17.
- Harting, Magt van het Kleine, 1866, 107, f. 47.
- Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 206, viii, 17.
- ACICULARIA**, d'Archiac, 1843. Mém. Soc. géol. France, v (2), 1843, 386. [A genus of Calcareous Algæ, formerly classed with the Foraminifera.— v. Munier-Chalmas, Comptes Rendus, i, xxxv, 1877, 814, etc.; Solms-Laubach, Einleit. Paläophytologie, 1887, 38, etc.]
- **pavantina**, d'Archiac. Mém. Soc. géol. France, v (2), 1843, 386, xxv, 8*a*.
- Reuss, Sitz. k. Ak. Wiss. XLIII (1), 1861, 7–10, plate.
- Carpenter, Parker, & Jones, Introd. Foram. 1862, 137, xi, 27–32.
- ACTEONINA minuta**, Swallow? [Quoted by Bigsby, Thes. Dev.-Carb., 1878, p. 200—presumably an error.]
- ACTINOPORELLA**, Alth, 1882. Alth, Mojs. u. Neumayr's Beiträge, 1, 1882, 321–323 [In the original work in Pamletnik akad. Umiej. Krakowie, vi, 1881, 135, the genus is given as *Gyroporella*]. [A genus of Calcareous Algæ, included by Alth and by Gümbel in the Foraminifera: for *Gyroporella*, see Solms-Laubach, Einleit. Paläophytologie, 1887, 38, etc.]
- ADELOSINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 303. [This genus was considered by Parker & Jones to be merely a young form of the Miliolinæ, and their views were accepted for many years by most naturalists; recently, however, Schlumberger in Bull. Soc. Zool. France, xi, 1886, 544, has contended for the generic value of *Adelosina*.]
- **bicornis** [Walk. & Jacob]. Gosse, Manual mar. Zool. 1855, 14, f. 22. [*Serpula* 1798.]
- ——— Schlumberger, Bull. Soc. Zool. France, xi, 1886, 546, f. 1–5, 7&8; xvi, 10–15.

- ADELOSINA** *cretacea*, Reuss. Haidinger's Naturw. Abh. iv, 1851, 46, iv, 15.
 ——— *duthiersi*, Schlumberger. Bull. Soc. Zool. France, xi, 1886, 553, f. 9; xvi, 16-18.
 ——— *laevigata*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 304, No. 1.
 ——— ——— d'Orb., Foram. Fossiles Vienne, 1846, 302, xx, 22-24.
 ——— ——— Schlumberger, Bull. Soc. Zool. France, xi, 1886, 549, f. 6, xvi, 19-21.
 ——— ——— Terquem, Ess. Anim. Plage Dunkerque, ii, 1876, 86, xii, 11 & 12 (and Mém. Soc. Dunkerquoise).
 ——— ——— See "*Fruentaria phialiformia laevia*," etc., and "*Nautili cum Ammonis admixti*."
 ——— *pulchella*, d'Orbigny. Foram. Fossiles Vienne, 1846, 303, xx, 25-29 [error for 25-30].
 ——— ——— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 249, xxxv³, 7a-e.
 ——— ——— Quenstedt, Handbuch Petref. ed. 3, v, (1885), 1061, lxxxvii, 14.
 ——— ——— v. "*Fruentaria 3 speciei*."
 ——— *rotundata*, Terquem. Ess. Anim. Plage Dunkerque, i, 1875, 40, vi, 14 ab, (and Mém. Soc. Dunkerquoise).
 ——— *semistriata*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 304, No. 3. v. "*Fruentaria phialiformia striatula*."
 ——— *soldanii*, d'Orbigny. *Ibid.* vii, 1826, 304, No. 4. v. "*Fruentaria phialiformia striatula*."
 ——— *striata*, d'Orbigny. *Ibid.* vii, 1826, 304, No. 2; Modèles, 1826, Nos. 18 and 97.
 ——— ——— Cuvier, Règne Animal, ix (pls. x), 1836-46, 34, xiv, 6.
 ——— ——— Mangin, Mystères Océan, 1864, 177, f. 6.
 ——— ——— P. J. & B. [d'O., Modèles 18] Ann. Mag. Nat. Hist. [3], xvi, 1865, 21, i, 14. [= *Q. Brongniartii*, d'O.]
 ——— ——— P. J. & B. [d'O., Modèles 97] *Ibid.*, [3], xvi, 1865, 34, i, 15. [= *Q. Brongniartii*, d'O.]
 ——— ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85) 163, 2 figs.
 ——— ——— v. "*Fruentaria phialiformia*."
 ——— Mantell, Pictorial Atlas Foss. Rem. 1850, 143, lxii, 22.
 ——— Costa, Atti Accad. Pontaniana, vii (2), 1856, 330, xxv, 12; xxvi, 11-20; 20 referred to *A. pulchella*.
 ——— Parker, Trans. Micr. Soc. London, n. s., vi, 1858, 54, fig.
- ZEOIDES** *squammatum*, Montfort. Conch. syst. i, 1808, 143, 36th Genre. [≡ *Orbitolites complanatus*, q. v.]
- AGATHAMMINA**, Neumayr, 1887. Sitz. k. Ak. Wiss. Wien, xcvi (1), 1887, 171. [This name was proposed for the forms *Trochammina pusilla*; *T. milioloides*; *T. Robertsoni*.]
 ——— *milioloides* (J. P. & K.) Neumayr, Stämme d. Thierreiches, i, 1889 (1888), 177, f. 18. [*Trochammina*, 1869.]
- AKTINOCYCLINA**, Gümbel, 1868. Abh. k. bayer. Ak. Wiss. x, (2), 1868, 688. This subgenus of *Orbitolites* was proposed by Gümbel for the following forms:—*A. radians* (d'Archiac); *A. tenuicostata*, Gümbel; *A. varicostata*, Gümbel; *A. patellaris* (Schlotheim).
- ALLOMORPHINA**, Reuss, 1849. Denkschr. k. Ak. Wiss. Wien, i, 1850, 380; Brady, Report Challenger, 1884, 437.
 ——— *abbreviata*, Terq. Mém. Soc. Géol. France, [3], ii, 1882, 138, xiv (xxii), 22 ab.
 ——— *contraria*, Reuss. Haidinger's Naturw. Abh. iv (1), 1851, 43, iv, 7.
 ——— ——— Bronn, Lethæa Geognostica, ed. 3, ii, 1851-52, 93, xxix¹, 28abc.
 ——— *cretacea*, Reuss. Haidinger's Naturw. Abh. iv (1), 1851, 42, iv, 6.
 ——— ——— Reuss' Model, No. 39, 1865 (Catal. No. 74, 1861).
 ——— *macrostoma*, Karrer. Sitz. k. Ak. Wiss. Wien, xliv (1), 1861 (1862), 448 ii, 4.
 ——— *obliqua*, Reuss. Haidinger's Naturw. Abh. iv (1), 1851, 42, iv, 5.
 ——— *prima*, Terquem. Mém. Soc. Géol. France, [3], iv, 1886, 64, vii, 20ab.
 ——— *trigona*, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 380, xlviii, 14a-e

- ALLOMORPHINA trigona**, Reuss. Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl. 71.
- ———— Brady, Q. Journ. Micr. Science, xix, 1879, 281, viii, 13, 14.
- ———— Brady, Report Challenger, 1884, 438, lv, 24-26.
- ———— var. **obtusa**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 225, vii, 11.
- ———— Rzehak, Ann. k. k. nat. Hofmuseums, III (3), 1888, 259, xi, 2abc.
- ALLOTHECA**, Ehrenberg, 1841. Abhandl. k. Ak. Wiss. Berlin, 1841, 407.
- **megathyra**, Ehr. *Ibid.*, 1841, 426, III, vii, 49. [= *Planorb. farcta*, young; with coarse pores.]
- **rotalia**, Ehr. Mikrogeologie, 1854, xxiii, 32. [= ? *Globigerina*; called elsewhere *Rotalia globulosa*.]
- ALVEOLINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 306; Parker & Jones, Ann. Mag. Nat. Hist. [3], viii, 1861, 161; Brady, Report Challenger, 1884, 221.
- **acuta**, Savi & Meneghini. Consid. Geol. Toscana, 1851, 206, no fig.
- **boscii** (Defrance). D'Orbigny, Ann. Sci. Nat. vii, 1826, 306, No. 5. [*Oryzaria*, 1820.]
- ———— D'Orbigny, Modèles, No. 50, 1826.
- ———— [d'Orb.] Bronn, Lethæa Geognostica, ed. 2, 1837, 1148, xlii, 34ab.
- ———— Carpenter, Phil. Trans. 1856, 552-555, xxviii, 23, 24; xxix, 4-9.
- ———— Boudant, Géologie, ed. 8, 1858, 117, f. 107; later eds. same fig.
- ———— P. J. & B. [d'O. Modèles 50], Ann. Mag. Nat. Hist. [3], xvi, 1865, 26, i, 23. [= *A. sabulosa*, Montf.]
- ———— [**bosci**], [d'Orb.] Zittel, Handbuch Palæont. I, 1876, 79, f. 13^e, & 14.
- ———— [**bosci**], [d'Orb.] Schwager Boll. R. Com. Geol. Ital. viii, 1877, 27, pl. 112.
- ———— Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 79, iii [numbered iv by error] 13-15; iv [numbered iii by error] 1. [Structure]
- ———— [d'Orb.] Terq., Mém. Soc. Géol. France, [3], II, 1882, 50, II (x), 30.
- ———— Brady, Report Challenger, 1884, 222, xvii, 7-12.
- ———— [**bosci**], [d'Orb.] Hoernes, Elem. Palæont. 1884, 34, f. 29; French ed. 1886, same fig.
- ———— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 164, fig.
- ———— [**bosci**], ———— Gümbel, Geol. Bayern, I (2), 1885, f. 266¹².
- ———— Quenstedt, Handbuch Petref. ed. 3, v (1885), 1057, lxxxvi, 46.
- ———— [**bosci**], [d'Orb.] Fritel, Foss. caract. terr. sedim. (tert.) 1886, vii, 57.
- ———— Steinmann, Elem. Paleont. I, 1888, 24, f. 6a.
- ———— v. *Nautili diversæ speciei*.
- **bulloides**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 306, No. 1.
- ———— Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 10, III, 12.
- ———— Cuvier, Animal Kingdom, (Henderson's ed.), III, 1834 (pls. 1837), 19, vi, 11.
- **compressa**, d'Orb., 1847. D'Orbigny, Prodrôme de Paléont. II, 1850, 210, No. 357. [v. *Larazina*.]
- **costulata**, Eichwald. Lethæa Rossica, III, 1853, 8, i, 4abc. [*Melonia*, 1830.]
- **cylindrica**, Savi & Meneghini. Consid. Geol. Toscana, 1851, 205, no fig.
- (**Flosculina**) **decipiens**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 103, xxvi (3), 1 a-k; xxv (2), 1a-g.
- **depressa**, Savi & Meneghini. Consid. Geol. Toscana, 1851, 140, no fig.
- **ellipsoidalis**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 96, xxv (2), 1a-i; 2a-c. [v. *Schwagerina*.]
- **elliptica**, [d'Orb.], Sowerby. Mantell, Pictorial Atlas Foss. Rem. 1850, 142, lxi, 28-31. [*Fasciolites*, 1837.]
- **elongata**, d'Orbigny, Ann. Sci. Nat. vii, 1826, 307, No. 6.
- ———— Dixon, Geol. etc. Sussex, 1850, 85, ix, 4.
- ———— Terq., Mém. Soc. Géol. France [3], II, 1882, 50, II, (x), 31.
- ———— Fritel, Foss. caract. terr. sedim. (tert.) 1886, vii, 56.
- **eximia**, Terquem. Mém. Soc. Géol. France [3], II, 1882, 51, II, (x), 32.
- **fortisii**, Massolongo. Schizzo valle Progno, 1850, 19, no fig.

- ALVEOLINA frumentiformis**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 100, xxv (2), 4*a-i*.
 — **fusiformis**, J. De C. Sowerby. Dixon, Geol. Sussex. 1850, 162. ix, 5; and ed. 2, 1878, 172, same plate and figure. [= *A. sabulosa*, Montf.]
 — — — — — Jones, in Microgr. Dict. ed. 4, 1883, 32, xxiii, 15.
 — **haueri**, d'Orbigny. Foram. Fossiles Vienne, 1846, 148, vii, 17, 18. [*A. hauerii*, on plate.]
 — — — — — Pictet, Traité de Paléont. ed. 2, iv, 1857, 507, cix, 27.
 — — — — — Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 71, viii, 2
 — **indicatrix**. v. *Clausulus*.
 — **lepidula**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 98, xxv, (2), 3*a-g*. [v. *Schwagerina lepidula* and *ellipsoidalis*.]
 — **liburnica**, Stache. Verh. k. k. geol. Reichs. 1880, 201, no fig.
 — **longa**, Czjzek. Haidinger's Nat. Abh. ii, 1848, 143, xii, 34, 35.
 — **meandrina**, Carter. Annals Mag. Nat. Hist. [3], viii, 1861, 381, xvii, 4; Journ. Bombay Branch R. Asiatic Soc. vi, 1861 (1862), 72.
 — **melo** (Fichtel & Moll). D'Orbigny, Foram. Fossiles Vienne, 1846, 147, vii, 15, 16. [*Nautilus*, 1798.]
 — — — — — [d'Orb.] Carter, Annals Mag. Nat. Hist. [2], xi, 1853, 170 vii, 15.
 — — — — — Möbius, Beitr. Meeresfauna Insel Mauritius, etc., 1880, 80, iv [numbered iii by error], 2 & 3 [structural].
 — — — — — Brady, Report Challenger, 1884, 223, xvii, 13-15.
 — — — — — Neumayr, Stämme d. Thierreiches, i, 1889 (1888), 180, f. 23.
 — — — — — v. *Melonia sphaerica* and *M. sphaeroidea*.
 — **montipara**, Ehrenberg. Mikrogeologie, 1854, xxxviii, x, c, 5. [v. *Fusulina*.]
 — **oblonga**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 306, No. 4.
 — — — — — Potiez & Michaud, Galerie des Mollusques Mus. Douai, i, 1838, 42, x, 9 and 10.
 — — — — — [Desh.]. Gumbel, Abh. m.-ph. Cl. k. bayer. Ak. Wiss. x, 1868 (1870), 605, i, 6.
 — — — — — (cf.) Schwager, Palæontographica, xxx, 1883, Pal. Theil. 99, xxv (2), 5 *a-f*.
 — — — — — Jones in Newton, Quart. Journ. Geol. Soc. xlv, 1889, 332, xiv, 18, 19.
 — **oliva**, Savi & Meneghini. Consid. Geol. Toscana, 1851, 205, no fig. [Said to be equal to Parkinson's *Fasciolites*, Org. Rem. i, 158, x, 28-31.]
 — **ovoidea**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 306, No. 3.
 — — — — — Figuier, Ocean World [1873], 82, f. 15.
 — cf. **ovulum**, Stache, in litt. Schwager, Palæontographica, xxx, 1883, Pal. Theil, 95, xxiv (1), 13*a-e*.
 — **ovum**, d'Orbigny, 1847. Prodrome de Paléont. n. 1850, 185, No. 757.
 — (**Flosculina**) **pasticillata**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 104, xxvi (3), 2*a-h*.
 — **prisca**, Ehrenberg. Bericht k.-pr. Ak. Wiss. Berlin, 1842, 274. [v. *Fusulina*.]
 — — — — — Ehr., Mikrogeologie. 1854, xxxvii, x, D, 7-9.
 ? — — — — — *Ibid.* 1854, xxxvii, xi, A-D, 1 and 2 [= casts of *Fusul. cylindrica*, Fisch.].
 — **pulchra**, d'Orbigny. De la Sagra, Hist. Phisiq. Cuba, 1839, 'Foramini-fères, 70, viii, 19-20; also in Spanish, 1840, 85, same pl. and fig.
 — **quoui**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 306, No. 7, xvii, 11-13.
 — — — — — Carpenter, Parker, & Jones, Introd. Foram. 1862, 99, viii, 13-15; f. xxii, xxiii in text [structural].
 — [quoyi], — Haeckel, Das Protistenreich, 1878, 36, f. 21
 — [quoyii], — Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 193, v, 2.
 — — — — — Carpenter, The Microscope, ed. 6, 1881, 552, f. 315.
 — — — — — Steinmann, Elem. Paleont. i, 1888, 24, 6*B*.
 — **rotella**, (d'Orb.) Jones, in Microgr. Dict. ed. 4, 1883, 32, xxiii, 16*a,b* [*Orbiculina*, 1846.]
 — **sabulosa** (Montfort). Jones in Dixon, Geol. of Sussex, ed. 2, 1878, 172, ix [10], 4 and 5 [*Miliolites*, 1808].

- ALVEOLINA spherioidea**, (Lamarck). Medlicott & Blanford, Geol. of India, 1879, 459, xv, 9 [*Melonites*, 1816].
- **sphæroidea**, (Fort.) f. **Guardiolæ**, De G. De Gregorio, Fauna Argille Scagliose, 1881, 46, i, 13, 14; iii, 3. [*Discolithus spherioideus oblongus*, 1802.]
- **spiralis**, Cornalia & Chiozza. Giorn. I. R. Ist. Lombardo, n. s. III, 1851, 39, iii, 7ab.
- **stercusmuris**, Mayer-Eymer. Vierteljahrsschr. nat. Ges. Zürich, xxxi, 1886, 253 [‘ähnlich der *Alv. oblonga*, weniger cylindrisch, langs schwach gerunzelt’].
- **subpyrenaica**, Leymeric. Mém. Soc. Géol. France [2], 1, 1844, 359, xiii, 9abc.
- ——— v. **globosa**. *Ibid.* [2], 1, 1844, 359, xiii, 10a,b,c.
- **trinodis**, Savi & Meneghini. Consid. Geol. Toscana, 1851, 206, no fig. Deluc. Journ. de Physique, LIV, 1802, 179, i, 11-14.
- Ansted, Geology, 1844, ii, 63, f. j.
- Pictet, Traité de Paléont. IV, 1846, 231, xii, 14.
- Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, iv, 58-60.
- Ehrenberg, Abhandl. Ak. Ak. Wiss. Berlin, 1855, 172, v, xvii. [Glauc. cast.]
- Carpenter, Ency. Brit., Foraminifera, 9th ed., ix, 1879, 377, f. 10.
- ALVEOLINEA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. i. [A family group name]
- ALVEOLITE grain de fétuque**, C. Bosc. Bull. Sci. Soc. Philom. III, No. 61, 1811, 99, v, 3A, B, C.
- ALVEOLITE grain de millet**, C. Bosc. *Ibid.* III, No. 61, 1811, 99, v, 4 A, B, C.
- ALVEOLITES**, DeFrance, 1816. Dict. Sci. Nat. I, 1816, 137.
- larva, DeFrance. *Ibid.* I, 1816, 137.
- AMMODISCUS**, Reuss, 1861. Sitz. Ak. k. Wiss. Wien, XLIV (1), 1861 (1862), 365; Brady, Report Challenger, 1884, 329.
- **charoides** (Jones & Parker)
- P ——— (Trocham.) ——— Bütschli in Bronn, Klassen, &c. Thier-Reichs, 196, v, 21 [*Trochammina*, 1860].
- ——— Brady, Report Challenger, 1884, 334, xxxviii, 10-16.
- ——— Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 330, xiii, 10.
- **flum** (Schmid). Haeusler, Neues Jahrbuch, Beil. IV (1), 1885, 26, iii, 23 [*Serpula* 1867].
- **gaultinus**, Berthelin. Mém. Soc. Géol. France [3], 1, 1880, 19, i (xxiv), 3ab.
- (Trocham.) **gordialis**, Jones & Parker. Bütschli in Bronn, Klassen &c. Thier-Reichs, 1880, 196, v, 22 [*Trochammina*, 1860]
- ——— Brady, Report Challenger, 1884, 333, xxxviii, 7-9.
- ——— Haeusler, Neues Jahrbuch, Beil. IV, (1), 1885, 24, iii, 10-22 and 31.
- ——— Brady, Parker, & Jones, Trans. Zool. Soc., XII (7), 1888, 218, xlii, 22.
- (**Glomospira**) ——— ——— Rzehak, Verh. k. k. geol. Reichs., 1888, p. 191.
- ——— Steinmann, Elem. Paleont. I, 1888, 26, 7C.
- (Trocham.) **incertus** (d'Orbigny). Bütschli in Bronn, Klassen &c. Thier-Reichs, 1880, 196, v, 20 [*Operculina*, 1839].
- ——— Brady, Report Challenger, 1884, 330, xxxviii, 1-3.
- ——— Haeusler, Neues Jahrbuch, Beil. IV (1), 1885, 19, ii, 12-18; iii, 1-9 [fig. 14 is descr. as var. *crassus*; 15, v. *tuberculatus*; 17, v. *gracilis*; 18, v. *megospira*].
- ——— Bornemann, Jahrb. k. pr. geol. Landesanstalt, 1885 (1886), 293, xiii, 3, 4 and 5
- ——— Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 484, xi, 7.
- ——— Mariani, Bull. Soc. Geol. Ital. VII (1889), 284, x, 1.
- **infimus** (Strickland). Bornemann, Zeitschr. deutsch. geol. Ges. XXVI, 1874, 725, xviii, 4-7; xix, 8 [*Orbis*, 1846].
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 79.
- **jurassicus**, Haeusler, Neues Jahrbuch, Beil. IV, (1), 1885, 26, iii, 33, 34.

- AMMODISCUS** *lindahli*, Carpenter & Jeffreys. Proc. Roy. Soc., xix, 1870, 160, no fig.
- *miocenicus*, Karrer. Abh. k. k. geol. Reichs ix, 1877, 372, xvia, 2.
- *pellucidus*, Andreae. Abh. geol. spec. Karte Elsass-Lothr. II, (3), 1884, 147, vi, 1.
- *plicatus*, Terquem. Mém. Soc. Géol. France [3], iv, 1886, 9, i, 16 & 17.
- *rugosus*, Terquem. *Ibid.* [3], iv, 1886, 9, i, 15*a,b*.
- *shoneanus* (Siddall). Balkwill & Millett, Journ. Micr., III, 1884, 25, i, 4 [*Trochammina*, 1878].
- ——— Brady, Report Challenger, 1884, 335, xxxviii, 17-19.
- *spectabilis*, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 51.
- ——— Brady, Report Challenger, 1884, 336, xxxviii, 20-22.
- *tenuis*, Brady. Quart. Journ. Micr. Sci., xxi, 1881, 51.
- ——— Brady, Report Challenger, 1884, 332, xxxviii, 4-6.
- ——— Agassiz, Three Cruises, "Blake" II, 1888, 164, f. 497.
- P ——— Bornemann, Jahrb. k. pr. geol. Landesanstalt, 1885 (1886), viii, 1*a*.
- AMMONIA** *unita et proportionata minima*, &c., Gualtieri. Index Test. Conchyl. 1742, Tab. xix, H. 1. [= "*N. Beccarii* Linn. 1162."]
- AMMONIA**, see Corno d'Ammone.
- AMMONIÆ**, Soldani. [For notes on all forms figured by Soldani, see also Fornasini, Boll. Soc. Geol. Ital., v, 1886.]
- seu etiam *Nautili*, etc. Soldani, Sagg. Oritt. 1780, 104, iii, 27, S, T, V [= *Polystom. macella*].
- *cochleatæ globoso-rotundatæ*, Soldani. *Ibid.*, 1780, 103, ii, 21, F, G [= *Rot. Beccarii*].
- *concavo-umbilicatæ*, Soldani. *Ibid.*, 1780, 104, iii, 23, K, L [= *Rot. ammonoides*].
- *foliaceæ*, Soldani. *Ibid.*, 1780, 104, iii, 25. O, P [= *Anomalina rotula*].
- ——— Testac. II, App., 1798, 140, iii, 25, o, O, P [= *Planulina ariminensis*, d'O. Ann. Sci. Nat. VII, 1826, 2*o*. i].
- *microscopicæ-margaritacæ*, &c., Soldani. Sagg. Oritt. 1780, 105, iii, 28, X, Y [= *Nummulites*].
- *plano-convessæ*, Soldani. Testac. II, App., 1798, 140, iii, 26, q, Q, R [= *Planulina incerta* D'O. Ann. Sci. Nat. VII, 1826, 2*o*. 3].
- ——— *testa scabro-rotundata, depressiuscula*, etc., Soldani. Sagg. Oritt. 1780, 104, iii, 26, Q, R [= *Truncat. lobatula*].
- *planorbes*, Soldani. *Ibid.* 1780, 104, iii, 24, M, N [= *Rot. Schreibersii*].
- ——— Testac. II, App., 1798, 140, iii, 24, m, M, N [= *Asterrigerra planorbis*, D'O. For. Foss. Vienne, 1846, 205, xi, 1-3].
- *univolutæ*, Soldani. Sagg. Oritt. 1780, 103, iii, 22, H, J [= *Rot. akneriana*].
- AMMONICERINA**, Costa 1856 Atti Accad. Pontaniana, VII (2), 1856, xiv, 51 [undefined; probably a *Cornuspira*].
- AMMONIS cornu**, Gesner. De omni rerum, etc., 1565, 159, fig. ? *Nummulites*, ? *Gasteropod*].
- AMMONITIS**, *Nautilitis*, *Lapis calcareus* . . . **nempe ex innumeris**, Soldani. Sagg. Oritt. 1780, 143, xxiii, 102.
- AMMONSHÖRNER**, Ledermüller. Mikr. Gemüths. etc., 1763, 16-18, viii.
- und **Bischofstabe**, Martini. Neues syst. Conch. I, 1769, 254, xx, 184-185, Vign. No. 11 in text, 1-3. These are Cephalopoda.
- Schreter, Neue Litt. u. Beytr. I, 1784, 307-320, Tab. 1 [= *Calcarina, Nodosaria*, etc.]
- Ledermüller, Mikrosk. Gemüths. etc. 1763, 9, iv, b.
- Spengler, Nye Saml. k. Danske Bid. Selsk. Skr. I 1781, 379, ii, 9*a,b,c,d* [see *Calcarina*].
- ——— *Ibid.* 1781, 369, [i], "tredie Figur" (3) [= *Calcarina defrancii*].
- Schreter, Einleit. Conch. 1783, i, 20, i, 2.
- AMORPHINA**, Parker. 1857. Annals Mag. N. H. [2], xix, 1857, 278; Cat. Hunt, Mus. R. Coll. Surg. 1860, 95 [“a series of *Amorphina variabilis*, Parker, MS. Hab. Coast sand. Australia.” Tablet A, 47]. [A synonym of *Nubecularia*].
- AMPHEGISTINA**, Smedley. Ency. Metrop. 1845; error for *Amphistegina*
- AMPHICORYNE**, Schlumberger. 1881. Comptes Rendus, 1881, 881; Brady, Report Challenger, 1884, 556.

- AMPHICORYNE falx** (Jones & Park.). Brady, Report Challenger, 1884, 556, lxx, 7-9. [*Marginulina*, 1860.]
- AMPHIGRAMMA**, Reinsch, 1877. Neues Jahrb. 1877, 177 [proposed but not described; "Globigerinidæ"].
- AMPHIMORPHINA**, Neugeboren, 1850. Verh. Mitth. siebenbürg. Ver. Nat. 1, 1850, 125.
- **haueriana**, Neugeboren. *Ibid.* 1, 1850, 127, iv, 13-16 [*A. hauerana*, 1860].
- [**hauerana**], ———. Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 240, xxxv², 40a-*id.*
- [**hauerana**] ——— Karrer, Sitz. k. Ak. Wiss. Wien, L, (1), 1864 (1865), 705, i, 6.
- [**haueri**] ——— Reuss' Model, No. 68, 1865 (Catal. No. 51, 1861).
- [**hauerina**] ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 9.
- **striata**, Reuss. Sitz. Ak. k. Wiss. Wien, XLVI (i), 1862 (1863), 57, v, 5.
- AMPHISORUS hemprichii**, Ehr. Abhandl. Ak. k. Wiss. Berlin, 1838, 130, iii, f. iii [v. *Orbitolites*].
- AMPHISTEGINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 304; Brady, Report Challenger, 1884, 739.
- **antillarum**, Williamson. Trans. R. Micr. Soc. III, 1849, 111, xvii, 3 [structure].
- **aucklandica**, Karrer. Novara-Exped., Geol. I, 1864, 85, xvi, 19.
- **bilobata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 304, No. 4.
- **campbelli**, Karrer. Novara-Exped., Geol. I, 1864, 84, xvi, 18.
- **clypeolus**, Reuss. Zeitschr. deutsch. geol. Ges., VII, 1855, 275, ix, 9.
- **cumingii**, Carpenter. Phil. Trans. 1859, 32, v, 13-17.
- **excavata**, Terq. Mém. Soc. Géol. France [3], II, 1882, 124, xiii (xxi), 2a, b.
- **fleuriausi**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 304, No. 7.
- ——— Reuss, Sitz. Ak. k. Wiss. Wien, XLIV (i), 1861 (1862), 308, I, 10-12.
- **gibba**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 304, No. 6.
- **gibbosa**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, Foraminifères, 120, viii, 1-3, also in Spanish, 1840, 120, same pl. and fig.
- ——— Williamson, Trans. R. Micr. Soc. III, 1849, 106, xvii, 1 and 2 [structure].
- **gigantea**, Karrer. Sitz. Ak. k. Wiss. Wien, L (i), 1864 (1865), 711, ii, 16.
- **hauerina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 207, xii, 3-5.
- ——— d'Orb., Cours élém. Paléont. etc. I, 1849, 201, f. 328; II (2), 1852, 795, f. 609.
- ——— Harting. Magt van het Kleine, 1849, 111, f. 4; German by Dr. A. Schwarzkopf, 1851, 81.
- ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 205, xxxv², 24a, b.
- [**haueri**], ——— Suess, Boden Stadt Wien, 1862, 113, f. 16².
- ——— Roemer, Geologie von Oberschlesien, 1870, 394, xli, 9-11.
- [**haueri**], ——— Zittel, Handbuch Palæont. (1), 1876, 95, f. 34.
- [**haueri**], ——— Schwager, Coll. R. Com. Geol. Ital. VIII, 1877, 25, pl. 19.
- [**haueri**], ——— Credner, Elem. d. Geol. 1883, 700, f.
- ——— Jones. in Microgr. Dict. ed. 4, 1883, 37, xxiv, 28a, b.
- [**haueri**], ——— De Lapparent, Traité de Géologie. 1883, 1032, f.
- [**haueri**], ——— Amicis, Atti Soc. Tosc. Sci. Nat. (Mem.) VII, 1885, 242, etc., xi, 4 and 5.
- **javanica**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 165, iii, vii-ix. [Glauc. cast.]
- ——— Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 71, viii, 4 [sarcode].
- **lessonii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 304, No. 3, xvii, 1-4. [*Quoi* in descrip. of plate].
- ——— D'Orb., Modèles, No. 98, 1826.
- ——— Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 10, iii, 11.
- ——— Cuvier, Animal Kingdom (Henderson's ed.) III, 1834 (pls. 1837), 19, vi, 10.

- AMPHISTEGINA** [lessoni], d'Orb. P. J. & B. [d'O., Modèles, 98], Ann. Mag. Nat. Hist. [3], xvi, 1865, 34, iii, 92.
- [lessoni], ——— Nicholson, Manual Palæont. I, 1879, 118, f. 18 l.
- ——— Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 99, x, 10-14; xi, 1-3 [structural].
- ——— Brady, Report Challenger, 1884, 740, cxi, 1-7.
- [lessoni], ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 164, f.
- ——— Bütschli, Morph. Jahrb. xi, 1886, 86, vi, 7 and 8.
- ——— Brady, Parker, & Jones, Trans. Zool. Soc. xii (7), 1888, 230, xliii, 15.
- [lessoni (d'O.) (= A. haueri, d'O.)]. Steinmann, Elem. Paleont. I, 1888, 30, f. 14.
- ——— Terrigi, Mem. R. Acc. Lincei (4), vi, 1889, 121, x, 6-8.
- **madagascariensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 304, No. 5.
- **mamillata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 208, xii, 6-8.
- ——— Pictet, Traité de Paléont. ed. 2, iv, 1857, 516, cix, 35.
- ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 241, xiii, 22-29 [structural].
- **minuta**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 146, xi, 7.
- **nucleata**, Terq. Mém. Soc. Géol. France [3], ii, 1882, 123, xiii (xxi), 1a, b.
- **nummularia**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 238, iv, 46-50.
- ——— Referred by Bornemann to *Nummulina germanica*.
- **nummulinæformis**, Abich. Geol. Forsch. Kaukas. Ländern, 1882, 237, xi, 4.
- **ornatissima**, Karrer. Novara-Exped. Geol., I, 1864, 85, xvi, 20.
- **parisiensis**, Terq. Mém. Soc. Géol. France [3], ii, 1882, 124, xiii (xxi), 3a, b.
- **quoyi**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 304, No. 1 [see *A. lessonii*].
- [quoyii], ——— Smedley, Ency. Metrop. 1845, undescr. pl. "Mollusca?" 35 and 36.
- [quoyi], ——— Reuss' Model No. 65, 1865 (Catal. No. 97, 1861).
- [quoyii], ——— Bütschli in Bronn, Klassen, etc., Thier-reichs, 1880, 211, x, 1-3.
- **radiata**, Terquem. Ess. Anim. Plage Dunkerque (3), 1881, 129, xvii, 1a, b, c (and Mém. Soc. Dunkerquoise).
- **rugosa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 209, xii, 9-11.
- ——— Terrigi, Mem. R. Acc. Lincei (4), vi, 1889, 121, x, 9.
- **semicostata**, Kaufmann. Beitr. Geol. Karte Schweiz, v, 1867, 149, viii, 18 [v. *Nummulites*].
- **targionii** (Mgh.). Amicis, Atti Soc. Tosc. Sci. Nat. (Mem.) vii, 1885, 242, etc., xi, 1, 1a, 3, 3a, 3b, 6, 7 [v. *Nummulina*].
- **trilobata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 304, No. 2.
- **vulgaris**, d'Orbigny. *Ibid.* vii, 1826, 305, No. 8.
- ——— D'Orb., Modèles, No. 40, 1826.
- ——— P. J. & B. [d'O., Modèles, 40], Ann. Mag. Nat. Hist. [3], xvi, 1865, 25, iii, 91.
- ——— J. P. & B., Crag Foram. Pal. Soc. xix, 1866, n. d. ii, 46-48.
- ——— Terquem, Ess. Anim. Plage Dunkerque (1), 1875, 36, v, 8a, b (and Mém. Soc. Dunkerquoise).
- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85); 164, f.
- ——— Amicis, Atti Soc. Tosc. Sci. Nat. (Mem.) vii, 1885, 242, etc., xi, 2, 2a, 2b.
- (sp. ind.) Abich, Geol. Forsch. Kaukas. Ländern, ii, 1882, 237, xi, 7.
- ⊕ ——— Eley, Geol. in the Garden, 1859, 200, vi, 35.
- ⊕ ——— P. J. & B., [Soldani] Ann. Mag. Nat. Hist. [4], viii, 1871, 243, xii, 152 [see *Robulina nitida*, D'O.].
- ——— Pictet, Traité de Paléont. iv, 1846, 237, xii, 24.
- [with parasitic borings]. Ehrenberg, Abhandl. Ak. k. Wiss. Berlin, 1855, 167, iii, i.
- ——— Carpenter, Phil. Trans. 1859, 30, pls. v and vi.
- ——— Kölliker, Icones Histologicae, 1864, 32 [structural].

- AMPHISTEGINA** (Section of shell-wall, showing parietal canals). William-son, Pop. Sci. Rev., iv, 1865, 173, viii, 15.
 — See Lenticulæ.
- AMPHORINA**, d'Orbigny, 1849. Dict. universel d'Hist. Nat. (Chas. d'Orbigny's) v, 1849, 666.
- **acuminata** Seguenza. Foram. monotal. miocen. Messina, 1862, 51, i, 35 [= *L. gracillima*, Seg.].
- **costata**. Seguenza. *Ibid.* 1862, 51, i, 41.
- **cylindræa**, Seguenza. *Ibid.* 1862, 51, i, 36 [= *L. gracillima*, Seg.].
- **distorta**, Seguenza. *Ibid.* 1862, 52, i, 38 [= *L. gracillima*, Seg.].
- **elongata**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 122, xi, 12a, A
- **elongata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 51, i, 34 [= *L. apiculata*, Rss.].
- **globosa**, Seguenza. *Ibid.* 1862, 50, i, 31 [= *L. globosa*, Mont., var.].
- **gracillima**, Seguenza. *Ibid.* 1862, 51, i, 37 [v. *Lagena*].
- **gracilis**, Costa. Atti Accad. Pontaniana, vii (2), 1856, 121, xi, 11a, A.
- **lyelii**, Seguenza. Foram. monotal. miocen. Messina, 1862, 52, i, 40 [*tyellii*, p. 82] [v. *Lagena*].
- **olivæformis**, Seguenza. *Ibid.* 1862, 50, i, 33.
- **punctata**, Seguenza. *Ibid.* 1862, 52, i, 39.
- **tenuicalcar**, Seguenza. *Ibid.* 1862, 50, i, 32 [= *L. globosa*, Mont., var.].
- AMYGDALINA**, Costa, 1838. Fauna Regno Napoli, 1838, Foraminiferi, 6; Atti Accad. Pontaniana, vii (2), 1856, 120.
- **calabra**, Costa. *Ibid.* 1838, Foraminiferi, 6, ii, 1a, A, B, C [very like the Ostracod *Bairdia subdeltoidea*.]
 — — — — — Costa, Atti Accad. Pontaniana, vii (2), 1856, 120, xi, 6-8 [error for 7].
- **truncata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 73, ii, 52 and 53 [52 = Ostracod (*Bairdia* fide Reuss); 53 = *L. marginata*, W. and J].
- **tubulosa**, Seguenza. *Ibid.*, 73, ii, 51 [= Ostracod (*Bairdia* fide Reuss)].
- AMYGDALITES**, Costa, 1839. Atti R. Acc. Sci. Bourbon. iv, 1839, 186 [v. *Amygdalina*].
- **calabra**, Costa. *Ibid.*, iv, 1839, 186 [no figure].
- ANDROMEDES**, Montfort, 1808. Couch. syst. i, 1808, 39, 10th Genre [= *Polystom. strigillata*].
- ANNULINA**, Terquem, 1862. Mém. Ac. Imp. Metz, xlii, 1862, 432.
- **metensis**, Terquem. *Ibid.* xlii, 1862, 433, v, *Ga. b.*
- — — — — Pornemann, Zeitschr. deutsch. Geol. Ges. xxvi, 1874, 736, xviii, 8-10.
- **quinquelobata**, Terquem. Sixième Mém. Foram. Lias, 1866, 475, xix, 5 *a, b.*
- ANOMALINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 282; Brady, Report Challenger, 1884, 671.
- **ammonoides** (Rss.) Brady, Report Challenger, 1884, 672, xciv, 2, 3 [*Rosalina*, 1845].
- — — — — Brady, Parker, & Jones, Trans. Zool. Soc. xii (7), 1888, 228, xlv, 19.
- P** — **anomala**, Egger. Neues Jahrbuch, 1857, 280, ix, 10-13.
- **ariminensis**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 282, No. 2 [non *Planulina* which is now *Anomalina ariminensis*].
- **ariminensis** (d'Orb.) Brady, Report Challenger, 1884, 674, xciii, 10, 11. [*Planulina*, 1826].
- — — — — Brady, Parker, & Jones, Trans. Zool. Soc. xii (7), 1888, 228, xlv, 20-22.
- **auricula**. Roemer. Verst. n.-d. Kreide, 1840-'1, 98, xv, 26.
- **austriaca**, d'Orbigny. Foram. Fossiles Vienne, 1846, 172, x, 4-9.
- — — — — Schwager, Coll. R. Com. Geol. Ital. viii, 1877, 26, pl. 50. = *Planorbulina*, v. *Hammonita*.
- **badenensis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 171, x, 1-3.
- **bengalensis**. Schwager. Novara-Exped., Geol. ii, 1866, 259, vii, 111.
- **calymene**, Gümbel. Brady, Challenger, p. 627 [*Rosalina*, 1868].

- ANOMALINA** *cicatricosa*, Schwager. Novara-Exped., Geol. II, 1866, 260, VII, 108 and f. 4.
- **complanata**, Reuss. Haidinger's Naturw. Abh. IV, (1) 1851, 36, III, 3 [v. *Planorbulina*].
- (P) ——— Costa. Atti Accad. Pontaniana, VII (2), 1856, not descr. XX, 16.
- ——— Berthelin, Mém. Soc. Géol. France, [3], I, 1880, 66, IV (XXVII), 12a-13.
- **coronata**, Parker & Jones. Annals Mag. N. II. [2], XIX, 1857, 294, X, 15 and 16 [v. *Truncatulina*, *Pulvinulina* and *Planorbulina faretta*, var.].
- ——— Brady. Trans. Linnean Soc. XXIV, 1864, 469, XLVIII, 13.
- ——— Anon., Science Gossip, 1870, 11, f. 23.
- ——— Brady, Report Challenger, 1884, 675, XCVII, 1-2.
- **depressa**, Terquem. Mém. Soc. Géol. France, [3], I, 1878, 24, II (VII), 8a-c.
- **elegans**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 282, No. 4.
- ——— d'Orbigny, Modèles, No. 42, 1826.
- ——— Reuss in Geinitz, Grundr. Verstein., 1845-46, 676, XXIV, 49.
- ——— P. J. & B. [d'O., Modèles, 42], Ann. Mag. Nat. Hist., [3], XVI, 1865, 25, II, 73 [= *Discorbina*].
- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 162, f.
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- **explanata**, Costa. Atti Accad. Pontaniana, VII (2), 1856, 252, X, 10; XIV, 4, A. B. C.
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- ASTERIATITES**. Schlotheim, 1813. Taschenbuch für ges. mineral. vii, 1813, 109 [quotes 3 species, *A. siderolites*, *A. spinosus*, *A. pentagonatus*] [cfr. *Asteriacites*].
- ASTERIGERINA**. d'Orbigny, 1839. Voyage Amér. Mérid. "Foraminifères," v, (5), 1839, 55.
 ———— **carinata**, d'Orb. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 118, v, 25; vi, 1 and 2; also in Spanish, 1840, 118, same pls. and figs.
 ———— ———— Quenstedt, Handbuch Petref. ed. 3, (5), 1885, 1058, lxxxvi, 56.
 ———— **ubia**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 36, v, 7a, b (and Mém. Soc. Dunkerquoise).
 ———— **ferussaci**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. ii, 1850, 408, No. 1339 [*Rosalia*, 1825].
 ———— **geometrica**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 36, v, 6a, b (and Mém. Soc. Dunkerquoise).
 ———— **hieroglyphica**, Terquem. Mém. Soc. Géol. France, [3], i, 1878, 32, iii (viii), 5a-8.
 ? ———— **lancicula**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 127, xxviii (5), 7a-d.
 ———— **lobata**, d'Orbigny. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 118, v, 19-21; also in Spanish, 1840, 119, same pl. and fig.
 ———— ———— D'Orb., Foram. Fossiles Vienne, 1846, 204, xxi, 39-41.
 ———— **monticula**. d'Orb. Voyage Amér. Mérid. "Foraminifères," v, (5), 1839, 55, ii, 18-20.
 ———— **planorbis**, d'Orb. Foram. Fossiles Vienne, 1846, 205, xi, 1-3 [v. *Discorbina*].
 ———— ———— Egger, Neues Jahrbuch, 1857, 281, xi, 8-10.
 ———— ———— Reuss' Model No. 47, 1865 (Catal. No. 87, 1861) [= *Discorbina rosacea*, d'Orb.].
 ———— ———— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 57.
 ———— ———— = *Discorb. rosacea* (d'Orb.) v. *Anim-onie planorbis*.
 ———— **rhodiensis**, Terquem. Mém. Soc. Géol. France. [3], i, 1878, 31, iii (viii), 1a-4.
 ———— **rosacea**. d'Orb., 1847. Prodrome de Paléont. iii, 1852, 158, No. 2952 [*Rosalia*, 1825].
 ———— **tarentina**. Costa. Atti Accad. Pontaniana, vii, (2), 1856, 272, xxii, 13 and 14.
 ———— Pictet, Traité de Paléont. iv, 1846, 237, xii, 23.
- ASTEROCYCLINA**, Gümbel, 1868. Abh. k. bayer. Ak. Wiss. x, (2), 1868, 689. This subgenus of *Orbitoides* was proposed by Gümbel for the following forms: *A. stellata* (d'Archiac); *A. priabonensis*, Gümbel; *A. stella*, Gümbel.

- ASTERODISCINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab 1 [a family group name].
- ASTERODISCUS**, Ehrenberg, 1838. Abhandl. k. Ak. Wiss. Berlin, 1838, 130
 ——— *forskålii*, Ehrenb. *Ibid.* 1838, 130.
- ASTERODISCUS**, Schafhåutl, 1863. Sud-Bayerns Lethæa Geogn. 1863, 107.
 ——— *patellaris*, Schafhåutl. *Ibid.* 1863, 108, xv, 3a, b, c [*Hymenocyclus* in text].
 ——— *pentagonalis*, Schafhåutl. *Ibid.* 1863, 107, xv, 2a-d.
- ASTIGERINA**, Pictet, 1846. Misprint for *Asterigerina*.
- ASTRIGERINA**, Egger, 1857. Misprint for *Asterigerina*.
- ASTRODISCUS**, F. E. Schulze, 1875. II Jahresb. Comm. wiss. Untersuch. deutsch. Meer in Kiel, 1875, 113.
 ——— *arenaceus*, Schulze. *Ibid.* 1875, 113, ii, 10 [= ? *Astrorhiza*].
- ASTRORHIZA**, Sandahl, 1857. Ofversigt k. Vetens.-Ak. Förhandl. 1857 (1858), 299; Brady, Report Challenger, 1884, 230. [Hæckel in his "Report of the Deep-sea Keratosa," Report Challenger, xxxii. 1889, 2, remarks, "I suppose that some of the gigantic foraminifera of the deep sea, which Mr. H. B. Brady has described in his Report as *Astrorhizidæ* (especially *Rhabdammina*, *Rhizammina*, *Sagenella*, etc.), may also belong to the arenaceous Keratosa (*Ammonoconidæ*)."]
 ——— *angulosa*, Brady. Quart. Journ. Micro. Sci. xxi, 1881, 48. Brady, Report Challenger, 1884, 234, xx, 10-13.
 ——— *arenaria*, Norman. Proc. Roy. Soc. xxv, 1876, 213.
- P ——— [Carpenter]. Bütschli in Bronn. Klassen, etc., Thier-Reichs, 1880, 194, v, 12.
 ——— ——— Brady, Report Challenger, 1884, 232, xix, 5-10.
 ——— *catonata*, Norman. Proc. Roy. Soc. xxv, 1876, 213 [= *Aschemonella*].
 ——— ——— Brady, Q. Journ. Micr. Sci. xix, 1879, 42, iv, 12-13.
 ——— ——— Moseley, Nature (Apr. 15, 1880), xxi, 570, f. 11a.
 ——— *crassatina*, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 47.
 ——— ——— Brady, Report Challenger, 1884, 233, xx, 1-9.
 ——— *cornuta*, Brady. Q. Journ. Micr. Sci. xix, 1879, 43, iv, 14, 15 [= *Rhabdammina*].
 ——— *granulosa*, Brady. *Ibid.* xxi, 1881, 48 [= *Marsipella*, 1879].
 ——— ? ——— Hæusler, Neues Jahrbuch, 1883, I, 57, iii, 6.
 ——— ——— Brady, Report Challenger, 1884, 234, xx, 14-23.
 ——— ——— Neumayr, Stämme d. Thierreiches, I, 1889 (8), 173, f. 17d.
 ——— *limicola*, Sandahl. Ofversigt k. Vetens.-Ak. Förhandl. 1857 (1858), 299, iii, 5 and 6.
 ——— ——— Leidy, Proc. Ac. Nat. Sci. Philad. 1875, 75, fig.
 ——— ——— P. Fischer, Journ. Zoologie, iv, 1875, 505, xvi 1-4.
 ——— ——— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 194, v, 11.
 ——— ——— Brady, Report Challenger, 1884, 231, xix, 1-4.
 ——— ——— Agassiz, Three Cruises "Blake," II, 1888, 161, f. 489.
 ——— ——— Carpenter. Quart. Journ. Micr. Sci. xvi, 1876, 221, xix, 1-13.
- ATAXOPHRAGMIUM**, Reuss, 1861. Verz. Gypsmodellen Foraminiferen, [1861], Nos. 8 and 9. Genus founded upon d'Orbigny's *Bulimina variabilis*.
 ——— *arenaceum*, Karrer. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865 (1866), 495, pl., 9.
 ——— *globulare*, Reuss. *Ibid.* I, (1), 1864 (1865), 449, i, 2
 ——— *humile*, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 85, v, 3 and Bol. Com. map Geol. Españ. vii, 1880, 267, E, 3.
 ——— *intermedium* (Reuss). Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 89 [= *Bulimina*, 1845].
 ——— *laceratum*, Schwager. Novara-Exped. Geol. II, 1866, 194, iv, 3a, b, c.
 ——— *magdalidiforme*, Schwager. *Ibid.* II, 1866, 193, iv, 1 a, b, c.
 ——— *oblongum*, Reuss. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865 (1866), 458, pl., 2.
 ——— *simile*, Karrer. *Ibid.* LVIII, (1), 1868, 126, i, 1.
 ——— *suborale*, Schwager. Novara-Exped. Geol. II, 1866, 193, iv, 2a, b, c.
 ——— *variabile* (d'Orbigny). Reuss' Models Nos. 6 and 7, 1865 (Catal. Nos. 8 and 9, 1861) [= *Bulimina*, 1840].

- ATRACTOLINA**, v. Schlicht. "Foram. Septar. Pietzpuhl," 1870, xxv, 1-10 [referred by Reuss to *Psecadium acuminatum* = *Glandulina* (Brady)].
- ATRACTOSPIRA**, de Folin, 1882. Congrès. Scient. Dax, 1882 (1883), 319.
- AULOSTOMELLA**, Alth, 1850. Haidinger's Nat. Abh. III, (2), 1850, 264 [founded on a fistulose var. of *Polymorphina sororia*, Reuss].
- **dorsigera**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 281, xviii, 20, a, A, B
- **pediculus**, Alth. Haidinger's Nat. Abh. III, (2), 1850, 264, xiii, 17 [= *Polym. sororia*, Rss.].
- AURICULINA**, Costa, 1856. Atti Accad. Pontaniana, VII, (2), 1856, 259 [= *Pulvinulina* or *Discorbina*].
- **crenata**, Costa. *Ibid.* VII, (2), 1856, 260, xxii, 15 and 16.
- BALANULINA**, Rzehak, 1888. Ann. k. k. nat. Hofmuseums, III, (3), 1888, 265.
- **kittlii**, Rzehak. *Ibid.* III, (3), 1888, 265, xi, 8a, b.
- BATHYSIPHON**, M. Sars, 1871. G. O. Sars, Forh. Vidensk.-Selsk. Christiana, 1871 (1872), 251; Brady, Report Challenger, 1884, 248.
- **capritonensis**, de Folin. Actes Soc. Linn. Bordeaux, XL, (5), 1887, 274, v, 1a-c.
- **capillare**, de Folin. *Ibid.* XL, (5), 1887, 276, v, 2a-e.
- De Folin, Le Naturaliste, Ann. 9, 1887, 114, f. 7b.
- **echinatum**, de Folin. Actes Soc. Linn. Bordeaux, XL, (5), 1887, 278, vi, 3a-c.
- **filiformis**, M. Sars MS. G. O. Sars, Vidensk.-Selsk. Forhandl. 1871, 251.
- Brady, Report Challenger, 1884, 248, xxvi, 15-20.
- De Folin, Actes Soc. Linn. Bordeaux, XL, (5), 1887, 279, vi, 4a-e.
- **flavidum**, de Folin. *Ibid.* XL, (5), 1887, 279, vi, 5a-c.
- **major**, de Folin. *Ibid.* XL, (5), 1887, 280, vii, 6a-d.
- **nitens**, de Folin. *Ibid.* XL, (5), 1887, 282, vi, 7a-c.
- **rufum**, de Folin. *Ibid.* XL, (5), 1887, 283, vi, 8a-c.
- **rusticum**, de Folin. *Ibid.* XL, (5), 1887, 284, viii, 9a-c.
- **strictum**, de Folin. *Ibid.* XL, (5), 1887, 285, viii, 10a, b.
- **subvitreum**, de Folin. *Ibid.* XL, (5), 1887, 286, viii, 11.
- De Folin, Bull. Soc. N. H. Toulouse, xv, 1881, 138; five new sp. proposed but not described!
- BDELLOIDINA**, Carter, 1877. Carter, Ann. Mag. Nat. Hist. [4], XIX, 1877, 201; Brady, Report Challenger, 1884, 319.
- **aggregata**, Carter. Ann. Mag. Nat. Hist. [4], XIX, 1877, 201, xiii, 1-8.
- Brady, Report Challenger, 1884, 319, xxxvi, 4-6.
- BEATRICEA**. This genus, described by Billings in 1853 as a plant, has since been referred to as a mollusc, sponge, coral, etc. In 1884 Alpheus Hyatt stated that it showed foraminiferal structure and that he "himself now thought it a foraminifer (Science, Oct. 3, 1884). [The largest specimen seen by Billings was 10 ft. 5 in. long and 5-6 inches diameter.]
- The more important references to it are the following:
- Billings. Geol. Survey Canada, Report for 1853-56 (1857) 343.
- Hyatt. Amer. Journ. Sci. xxxix, 1865, 263.
- Proc. Amer. Assoc. Philadelphia, 1884, (1885), 492; Science, Oct. 3, 1884, 341 [both abstracts].
- BIFARINA**, Parker & Jones, 1872. Annals Mag. N. Hist. x, 1872, 198. A dimorphous *Virgulina* ["? = *Otostomum*, Ehrenberg, Monatsber. k. pr. Ak. Wiss. Berlin, April, 1872, 276," Jones MS].
- **saxipara** (Ehrenb.), v. *Dimorphina*, 1854.
- Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 40.
- BIGENERINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 261; Brady, Report Challenger. 1884, 368.
- **acanthopora**, Ehrenberg. Mikrogeologie, 1854, xxviii, 22 [= *Polym. Thonini*].
- **agglutinans**, d'Orbigny. Foram. Fossiles Vienne, 1846, 238, xiv, 8-10.
- Broun, Lethæa Geognostica, ed. 3, III, 1853-56, 234, xxxv², 30a, b, c.
- Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 101.
- Jones in Microgr. Dict. ed. 4, 1883, 96, xxiii, 50a, b.

- BIGENERINA** *ampla*, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 374, xvii, 5.
 ——— *anulata*, Costa. Atti Acad. Pontaniana, vii, (2), 1856, 284, xv, 8 [error for 13].
 ——— *apiculata*, Ehrenberg. Mikrogeologie, 1854, xxviii, 23 [= *Polym. compressa*].
 ——— *bifida*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 287 [283], xxi [error for xxiii], 1, a, A.
 ——— *calcarata*, Berthelin. Mém. Soc. Géol. France, [3], 1, 1880, 27, i (xxiv), 14a-16; ii (xxv), 2a, b.
 ——— *capreolus*, d'Orbigny. Brady, Report Challenger, 1884, 372, xlv, 1-4 (*Vulvulina*, 1826).
 ——— ——— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 743, xiv, 8.
 ——— *cretæ*, Ehrenberg. Mikrogeologie, 1854, xxviii, 21 [= *Polym. Thouini*].
 ——— *dentaliniformis*, Terquem. Sixième Mém. Foram. Lias, 1866, 526, xxii, 29 and 30.
 ——— (*Gemmulina*) *digitata*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 262.
 ——— (*Gemmulina*) ——— D'Orb., Modèles, No. 58, 1826.
 ——— ——— Brady, Trans. Linnean Soc. xxiv, 1864, 468, xlvi, 8.
 ——— ——— Brady, Nat. Hist. Trans. Northumb. i, 1865-67 (1867), 102, xii, 7.
 ——— (*Gemmulina*) ——— P. J. & B. [D' O., Modèles 58], Ann. Mag. Nat. Hist. [3], xvi, 1865, 28, ii, 61.
 ——— ——— Brady, Report Challenger, 1884, 370, xlv, 19-24.
 ——— (*Gemmulina*), ——— Bassett, Ann. Soc. Sci. Charente-Inf. 1884 (85), 161, f.
 ——— ——— v. *Textul. agglutinans*, d'Orb.
 ——— *eruca*, M. Sars. Forh. Vidensk.-Selsk. Christiania, 1868 (1869), 249 [not described].
 ——— *lævigata*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 261, No. 3.
 ——— ——— P. J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 167, xi, 124.
 ——— ———? ——— (*Lituola*?). *Ilem*, 163, xi, 125 [v. *Margin. hirsuta*, d'Orb.] d'Orbigny. v. *Othocratia baculi*.
 ——— *libanotica*, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 25 and 26 [= *Polym. compressa*].
 ——— *mitrata*, Traut-schold. Nouv. Mém. Soc. Imp. Nat. Moscou, xiv, Livr., 1, 1879, 47, vi, 6a, b, c.
 ——— *nicobarica*, Schwager. Novara-Exped. Geol. ii, 1866, 196, iv, 7a, b, c [*B. nicobarensis* in explan. to plate].
 ——— *nodosaria*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 261, No. 1, xi, 9-11 [v. *Dimorphina*].
 ——— ——— D'Orb., Modèles, No. 57, 1826.
 ——— ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 677, xxiv, 67.
 ——— ——— Reuss' Model. No. 58, 1865 (Catal. No. 12, 1861).
 ——— ——— P. J. & B. [d'O., Modèles, 57]. Ann. Mag. Nat. Hist. [3], xvi, 1865, 28, ii, 62.
 ——— ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 192, ii, 28.
 ——— ——— Brady, Report Challenger, 1884, 369, xlv, 14-18.
 ——— ——— Bassett, Ann. Soc. Sci. Charente-Inf., 1884 (85), 161, f.
 ——— ——— Malagoli, Atti Soc. Nat. Modena (Rend.), 3, iii, 1887, 108, i, 3 and 4.
 ——— ——— See *Text. agglutinans*, D'Orb.
 ——— *patula*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 136, viii, 10 and 11, x, 30, 31 [non *Cribrostomum*, v. Moeller, 1879].
 ——— *pennatula* (Batsch). Brady, Report Challenger, 1884, 373, xlv, 5-8 [*Nautilus*, 1791].
 ——— *pusilla*, Røemer. Neues Jahrbuch, 1838 384, iii, 20.
 ——— ——— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1059, lxxxvii, 1.
 ——— *robusta*, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 53.
 ——— ——— Brady, Report Challenger, 1884, 371, xlv, 9-16.

- BIGENERINA striata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 367.
- **subtilis**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 87, v. 6, and Bol. Com. map Geol. Españ. vii, 1880, 269, E, 6.
- **torulosa**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 285, xv, 6, A, [error for 12].
- **truncata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 261, No. 2.
- ? ——— sp.? Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 189, iii, 31.
- ? ——— sp.? Terrigi, Mem. R. Acc. Lincei (4), vi, 1889, 110, v, 5.
- BIGERINA**, Mariani, 1888. Error for Bigenerina.
- "BILOCULAIRES,"** Terquem. See end of *Biloculina*.
- BILOCULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 297; Brady, Report Challenger, 1884, 139.
- **aculeata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 298, No. 3.
- ——— D'Orb., Modèles, No. 31, 1826.
- ——— P. J. & B. [d'O., Modèles, 31], Ann. Mag. Nat. Hist. [3], xvi, 1865, 24, i, 5.
- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 163, f.
- **ægæa**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 18.
- **æquilabiata**, Terquem. Ess. Anim. Plage Dunkerque, (2), 1876, 80, x, 22a, b (and Mém. Soc. Dunkerquoise).
- ——— Terq., Mém. Soc. Géol. France, [3], i, 1878, 50, v (x), 1a, b.
- **æquivoca**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 308, xxiv, 5.
- **affinis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 265, xvi, 1-3.
- ——— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 27, pl., 113.
- **alata**, d'Orb. Ann. Sci. Nat. vii, 1826, 298, No. 6.
- **amphiconica**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 382, xlix, 5.
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 67, i, 8a-c.
- **anodonta**, Karrer. *Ibid.* LVIII, (1), 1868, 133, i, 6.
- **antiqua**, d'Orbigny (1847). Prodrome de Paléont. II, 1850, 210, No. 358.
- **antiqua**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 305, iii, 7.
- **appendiculata**, Eichwald. Lethæa Rossica, III, 1853, 11, i, 12a-d.
- ——— [Reuss]. Reuss, Bull. Acad. Roy. Belgique, [2], xv, 1863, 139, i, 1 [corresponds with Eichwald's fig.].
- **applanata**, Gümbel. Jahresh. Ver. vat. Nat. Wurt. XVIII, 1862, 233, iv, 16a, b, c.
- **arcuata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 154, xvi (xxiv), 2a, b.
- **bougainvillei**, d'Orbigny. Voyage Amer. Mérid. 1839, v, (5), "Foraminifères," 67, viii, 22-24.
- **brachyodonta**, Fornasini. Boll. Soc. Geol. Ital. v, 1886, 260, iv, 3; v, 3.
- **bulloides**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 297, No. 1, xvi, 1-4.
- ——— D'Orb., Modèles, No. 90, 1826.
- ——— Smedley, Ency. Metrop. 1845, undescr., pl. "Mollusca?," 20 and 21.
- ——— Reuss in Geinitz, Grundr. Verstein. 1845-46, 682, xxiv, 86.
- ——— Costa, Atti Accad. Pontaniana, vii, (2), 1856, 299, xxiv, 1A, B, C.
- ——— Beudant, Géologie, ed. 8. 1858, 117, f. 103; later eds., same fig.
- ——— P. J. & B. [d'O., Modèles, 90], Ann. Mag. Nat. Hist. [3], xvi, 1865, 33, i, 3 [= *B. ringens*, Lam.].
- ——— Terquem, Mém. Soc. Géol. France [3], II, 1882, 153, xv, (xxiii), 37, 38.
- ——— Brady, Report Challenger, 1884, 142, ii, 5, 6.
- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884, (85), 163, f.
- ——— Fornasini, Bol. Soc. Geol. Ital. v, 1886, 257, iv, 1; v, 1.
- ——— var. **calostoma**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, (1), 1868, 132, i, 4.
- ——— var. **truncata**, Reuss. *Ibid.* LV, (1), 1867, 68, ii, 1a-c.
- ——— var. **truncata gracilis**, Reuss. *Ibid.* LV, (1), 1867, 68, II, 2a-c.
- ——— Fritel, Foss. caract. terr. sedim. tert. 1886, vii, 68 and 69.

- BILOCULI** *A. bulloides*, d'Orbigny. Schlumberger, Bull. Soc. Géol. France, [3], xv, 1887, 120, xv, 10-13; woodcuts, f. 1-5.
 _____ = *B. ringens* (Lam.). See *Frumentaria ovula* and *F. 5 speciei*.
 _____ *canariensis*, d'Orbigny. Barker-Webb and Berthelot, Hist. Nat. Iles Canaries, 1839, II, (2), "Foraminifères," 139, iii, 10-12.
 _____ *carinata*, Ehrenberg. Abhandl. k. preuss. Ak. Wiss. Berlin, 1838, 131.
 _____ *carinata*, d'Orbigny. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 164, viii, 24; ix, 1 and 2; also in Spanish, 1840, 148, same pl. and fig.
 _____ Terquem, Ess. Anim. Plage Dunkerque, (1), 1875, 38, v, 16a, b (and Mém. Soc. Dunkerquoise).
 _____ *caudata*, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 348, xix, 2.
 _____ *circumclausa*, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 307, xxiv, 6A, C.
 _____ *clypeata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 263, xv, 19-21.
 _____ *comata*, Brady. Quart. Journ. Micros. Science, n. s., XXI, 1881, 45.
 _____ Munier-Chalmas & Schlumb., Comptes Rendus, xcvi, 1883, 865, f. 3 and 4 [structure]; and Annals Mag. Nat. Hist. 5, xi, 339, f. 3, 4.
 _____ Brady, Report Challenger, 1884, 144, iii, 9a, b.
 _____ *complanata*, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 298, iii, 2.
 _____ *constricta*, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 301, xxiv, 2a, A, C.
 _____ *contraria*, d'Orbigny. Foram. Fossiles Vienne, 1846, 266, xvi, 4-6 [see *Nummoloculina* and *Planispirina*].
 _____ Brady, Trans. Linnean Soc. xxiv, 1864, 466, xlvi, 2.
 _____ var. *paradoxa*, Reuss. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 70, i, 10a, b.
 _____ *cuspidata*, Terquem. Mém. Soc. Géol. France, [3], I, 1878, 51, v (x), 3a, b.
 _____ *cyclostoma*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 382, xlix, 6.
 _____ Quenstedt, Handbuch. Petref. ed. 3, (5), 1885, 1060, lxxxvii, 5.
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- **pusilla**, Schwager. Novara-Expd. Geol. (2), 1866, 254, **vii**, 101.
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- ——— Brady, Report Challenger, 1884, 421, liii, 5 and 6.
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 ——— *bosci* [d'Orb.]. Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 200, xlii, 34a, b [*Alveolina*, 1826].
 ——— *constricta*, Ehrenberg. Mikrogeologie, 1854, xxxvii, x, D, 5, 6 [= *Fusulina* near *hyperborea*, Salter, q. v.].
 ——— *labyrinthiformis*, Ehrenberg. Mikrogeologie, 1854, xxxvii, xi, A-D, 3 [= section of cast of *Fusulina*].
 ——— *melonoides*, Montfort. Conch. syst. i, 1808, 171, 43d genre [= *Alveolina melo*].
 ——— ——— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 200, xxxv², 1.
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 ——— *ovoidea* (d'Orb.). Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 202, xxxv², 2 [*Alveolina*, 1826].
 ——— *palæophacus*, Ehrenberg. Mikrogeologie, 1854, xxxvii, xi, A-D, 6 [= cast of *Fusulina*].
 ——— *palæophus*, Ehrenberg. *Ibid.* 1854, xxxvii, xi, A-D, 4 and 5 [= casts of *Fusulina*].
 ——— *palæosphæra*, Ehrenberg. *Ibid.* 1854, xxxvii, xi, A-D, 7 and 8 [= casts of *Fusulina*].
 ——— *princeps*, Ehrenberg. *Ibid.* 1854, xxxvii, x, C, 1-4 [= *Fusulina cylindrica*, Fischer and var. (4)] [v. *Fusulina* and *Schwagerina*].
 ——— *sphæroidea*?, Ehrenberg. *Ibid.* 1854, xxxvii, x, D, 1-4 [v. *Fusulina* and *Fusulinella*].
 ——— (*Melonia*) *sphæroidea*, Ehrenberg. *Ibid.* 1854, xxxvii, ix, A, 1, 2, 3 [= probably *Eudothyra*].
- BOTELLINA**, Carpenter, 1869. Proc. Roy. Soc. xviii, 1869, 444. Catal. Object. Deep sea Dredgings, King's College, 1870, 4; Brady, Report Challenger, 1884, 279.
 ——— *labyrinthica*, Brady. Quart. Journ. Micros. Soc. n. s., xxi, 1881, 48.
 ——— ——— Brady, Report Challenger, 1884, 279, xxix, 8-18.
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 ? ——— *tergestina*, Stache, MS. *Ibid.* [4], xix, 1877, 64 [*Millepora woodwardii*, 1878].
 ——— ——— Stache, Abh. k. k. geol. Reichs. xiii, 1889, 89, vi, 24-28 [structural].
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 ——— ——— [Möll.]. Roemer, Lethæa Geognostica, i, (1), 1880, 279, f. 47.
 ——— ——— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 211, ix, 17.
- BRIZALINA**, Costa, 1856. Atti Accad. Pontaniana, vii, (2), 1856, 296 [= *Bolivina* q. v.].
 ——— *ænariensis*, Costa. *Ibid.* vii, (2), 1856, 297, xv, 1 and 2 (var. *spinulosa*).
- BRÆCKELLA**. [I have failed to find a reference to this genus; possibly, it is a MS. name.]

- BRÆCKINA**, Munier-Chalmas, 1882. Bull. Soc. géol. France, [3], x, 1882, 471.
 "Type *Cyclolina dufresnoyi*, d'Arch."
- BUCCININA**, Costa, 1861. Microdoride Mediterranea, 1861, 53 [= *Marginulina*].
 — **recurva**, Costa. *Ibid.* 1861, 54, viii, 12.
 — **subrecta**, Costa. *Ibid.* 1861, 54, viii, 11.
- BUCCINIS**, Ledermüller. Mikrosk. Ergözung, 1763, 8, iv, f. v, v, x, x [= v, v, *Marginulina*; x, x, *Nodosaria*, q. v.]. See also "Amusem. Microscop.," 1764, same references.
- BUCCINOS**, v. *Dentalen*.
- BULIMILINA**, Terquem, 1883. Cinquième Mém. Foram. Oolithique, 1883 [misprint for *Bulimina*].
- BULIMINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 269; Brady, Report Challenger, 1884, 397.
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 — **acicula**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 277, xii, 13.
 — **aculeata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 269, No. 7.
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 — — — v. *B. prestli*, Rss.
 — — — v. *Polymorpha pineiformia*
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 — **acuta**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr., xiii, 25; xxii, 8.
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 — — — Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 743, xvi, i.
- **amphiconica**, v. Hagenow. Neues Jahrb. 1842, 570.
- **antiqua**, Terq. et Berth. Mém. Soc. Géol. France, [2], x, 1875, 65, v (xv), 16.
 — **aperta**, Stache. Novara-Exped. Geol. (1), 1864, 266, xxiv, 15.
 — (**Robertina**) **arctica**, d'Orbigny. Foram. Foss. Vienne, 1846, 203, xxi, 37, 38.
 — — — Carpenter, Parker & Jones, Introd. Foram. 1862, 195, xii, 21.
- **arcuata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 270, No. 12.
 — **arcuata**, Stache. Novara-Exped., Geol. (1), 1864, 269, xxiv, 18a, b, c.
 — **arenacea**, Will. See *B. scabra*.
- **ariminensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 269, No. 8.
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- **auriculata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 115, xii (xx), 14.
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- BULIMINA brevis**, d'Orbigny. Beudant, Géologie, ed. 8, 1858, 117, f. 98, later eds., same fig.
- **buccinoides**, Egger. Neues Jahrbuch, 1857, 282, x, 9-11.
- **buchiana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 186, xi, 15-18.
- [**buchana**], ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 230, xxxv², 21a, b.
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- ——— Zittel, Handbuch Palæont. (1), 1876, 90, f. 27⁶.
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- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, XXXIII, 1880, 195, II, 37.
- ——— Brady, Report Challenger, 1884, 407, li, 18, 19.
- ——— See *B. presi*, Rss.
- ——— var. **calabra**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 146, XIII, 34.
- **bulbiformis**, Seguenza. *Ibid.* [3], VI, 1880, 146, XIII, 35.
- **calcarata**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 146, XIII, 36.
- **candida**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 111, XI (XIX), 30, 31.
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- ——— P., J. & B. [d'O., Modèles, 68], Ann. Mag. Nat. Hist. [3], XVI, 1865, 30, II, 65.
- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 161, f.
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- **compressa**, Bailey. Smithsonian Contrib. II, 1851, 12, pl., 35-37.
- **contorta**, Gümbel. Anleit. geol. Beob. Alpenreisen, Zeitschr. D. & O. Alp. Ver., Beilage, 1878, 105, f. 25²².
- **contraria** (Reuss). Brady, Report Challenger, 1884, 409, liv, 18a, b, c [*Rotalina*, 1851].
- **conulus**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 116, XII (XX), 17.
- **convoluta**, Will. Brady, Report Challenger, 1884, 409, cxiii, 6a, b = *Discorbina "intercalata,"* H. B. B. [v. *B. pupoides*, v. *convoluta*, 1858].
- **coprolithoides**, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, (3), 1884, 305, VI, 4.
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- **cuneiformis**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 127, XVI, 11a, b (and Mém. Soc. Dunkerquoise). [Misprinted *Patellina punctata*, in descr. to plate.]
- ——— Terq., Mém. Soc. Géol. France, [3], II, 1882, 112, XII (XX), 2a, b.
- **cylindracea**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 265, XV, 10.
- **cylindrica**, Roemer. Neues Jahrbuch. 1838, 387, III, 44.
- **declivis**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 55, VI, 70a, b; VII, 71.
- ——— Brady, Report Challenger, 1884, 404, I, 19a, b.
- **decorata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 117, XII (XX), 22.
- **doliolum**, Terquem. Bull. Soc. Zool. Fr. XI, 1886, 333, XI, 17 and 18.
- **d'orbignyi**, Reuss. Verstein. Böhm. Kreide, 1845-6, I, 38, XIII, 74.
- **echinata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 269, No. 5.
- **elegans**, d'Orbigny. *Ibid.* VII, 1826, 270, No. 10.
- ——— D'Orb., Modèles, No. 9, 1826.
- [——— ———] Costa, Fauna Regno Napoli, 1838, "Foraminiferi," not descr., III, 6.
- [——— ? ———] Dana, Wilkes' Explor. Exped. X, 1849, 729, XXI, 4, 4a, b.

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 ———— P., J. & B. [d'O., Modèles, 9], *Ann. Mag. Nat. Hist.* [3], xvi, 1865, 20, ii, 64.
 ———— Brady, *Report Challenger*, 1884, 398, I, 1-4.
 ———— var. **exilis**, Brady. *Ibid.* 1884, 399, I, 5, 6.
 ———— Basset, *Ann. Soc. Sci. Charente-Inf.* 1884 (85), 161, f.
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 ———— **elegantissima**, d'Orbigny. *Voyage Amér. Mérid.* 1839, v, (5), "Foraminifères," 51, vii, 13 and 14.
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 ———— Chinnno, *Bed of Atlantic*, 1870, 18, iii, A.
 ———— Brady, *Ann. Mag. Nat. Hist.* [5], I, 1878, 436, xx, 12.
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 ———— Goës, *K. Sveuska Vet.-Akad. Handl.* xix, No. 4, 1882, 66, iv, 95-98.
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 ———— var. **seminuda**, Terq. *Ibid.* 1884, 403, I, 23, 24 [*B. seminuda*, 1882].
 ———— Will. See *Rotalia bulimoides*, Rss.
 ———— d'O. See *B. presli*, Rss.
 ———— **ellyphoides**, Costa. *Atti Accad. Pontaniana*, vii, (2), 1856, 265, xv, 2 [error for 9], [*ellipsoïdes* on plate].
 ———— **elongata**, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 269, No. 9.
 ———— D'Orb., *Foram. Fossiles Vienne*, 1846, 187, xi, 19 and 20.
 ———— Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 52, x, 7; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 61, same pl. and fig.
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 ———— Terquem, *Mém. Soc. Géol. France*, [3], ii, 1882, 109, xi (xix), 21a, b, 22.
 ———— Brady, *Report Challenger*, 1884, 401, I, 1 and 2?.
 ———— **eocena**, Hantken. *A magy. kir. földt. int. évkönyve*, I, 1871, 129, ii, 16; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, I, 1871, 136, same pl. and fig.
 ———— **etnea**, Seguenza. *Atti Accad. Gioenia Sci. Nat.* [2], xviii, 1852, 108, I, 9.
 ———— **flexa**, Terquem. *Mém. Soc. Géol. France*, [3], ii, 1882, 115, xii (xx), 15.
 ———— **frons**, Olszewski. *Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie*, ix, 1875, 121, ii, 1.
 ———— **fusiformis**, Will. Terquem, *Ess. Plage Dunkerque*, (1), 1875, 37, v, 10 (and *Mém. Soc. Dunkerquoise*). [*v. B. pupoides*, var].
 ———— **glanduliformis**, Terquem. *Mém. Soc. Géol. France*, [3], ii, 1882, 113, xii (xx), 4.
 ———— **imbricata**, Reuss. *Haidinger's Naturw. Abh.* iv, (1), 1851, 38, iii, 7.
 ———— **imperatrix**, Karrer. *Sitz. k. Ak. Wiss. Wien*, LVIII, (1), 1868, 176, iv, 11.
 ———— **inconstans**, Egger. *Neues Jahrbuch*, 1857, 283, xii, 1-3; 8-9.
 ———— **incrassata**, Karrer. *Sitz. k. Ak. Wiss. Wien*, LVIII, (1), 1868, 177, iv, 12.
 ———— **incurva**, Terquem. *Cinquième Mém. Foram. Oolithique*, 1883, 387, xlv, 10, 11.
 ———— **inflata**, Seguenza. *Atti Accad. Gioenia Sci. Nat.* (2), xviii, 1862, 109, I, 10.
 ———— Schwager, *Novara-Exped. Geol.* II, 1866, 246, vii, 91.
 ———— var. Schwager, *Boll. R. Com. Geol. Ital.* ix, 1878, 528, I, 19.
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 ———— Andrae, *Abh. geol. Spezialkarte Elsass-Lothr.* II, (3), 1884, 211 and 224, ix, 6 and 7.
 ———— Brady, Parker & Jones, *Trans. Zool. Soc.* XII, (7), 1888, 220, xliii, 9.
 ———— **intermedia**, Reuss. *Verstein. Böhm. Kreide*, 1845-6, I, 37, xliii, 71.
 ———— Reuss, *Haidinger's Naturw. Abh.* iv, (1), 1851, 39, iii, 11.
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 ————— v. (**Bolivina**) **punctata**, d'Orb. *Ibid.* 1865, 376, xvii, 74.
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Schreibersii, Czj.].
 ————— v. **convoluta**, Williamson. *Ibid.* 1858, 63, v, 132 and 133.
 ————— v. **fusiformis**, Williamson. *Ibid.* 1858, 63, v, 129 and 130
 [= *B. ovata*, d'Orb.].

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- **trocheata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 111, XI (XIX), 33.
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- **tumida**, Reuss. Geogn. Skizze Böhmen, II, 1844, (1), 215.
- **turbinata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 113, XII (XX), 6 and 7.
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 — **gaudichaudii**, d'Orb. *Ibid.* vii, 1826, 276, No. 5.
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 — ——— Carpenter, Phil. Trans. 1860, 548-557, xix and xx, and woodcuts, I, A, B; II, A-G; III, A-H, 550; IV, A-F, 556.

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- [————] v. *Ammonshorn*.
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- **polymorpha**, Roboz. *Ibid.* lxxxviii, (1), 1883 (1884), 420, pl., 1-16; *Anz. Ak. Wien.* xiv, 1883, 117; *Math. Nat. Ber. Ungarn*, i, 1884, 265.
- CAMERINA**, Bruguière, 1792. *Ency. Méthod.*, "Vers," i, 1792, 395. [Bronn (*Index*, 207) dates this genus, 1789] [= *Nummulites*].
- **lævigata**, Bruguière. *Ibid.* "Vers," i, 1792, 399.
- **lævigata** (*orbiculaire et numismale*), Héricart de Thury. *Journ. départ. Oise*, an viii, 1800, 83, pl., f. 1*a-g* and 4 and 5 (2 to the right) [= *Nummulites*].
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- **nummularia**, Bruguière. *Ency. Méth.* "Vers," i, 1792, 400.
- **striata**, Bruguière. *Ibid.* "Vers," i, 1792, 399.
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- CANDEINA**, d'Orbigny, 1839. *De la Sagra, Hist. Phisq. etc.* Cuba, 1839, "Foraminifères," 107; also in Spanish, 1840, 111; Brady, *Report Challenger*, 1884, 622.
- **nitida**, d'Orbigny. *Ibid.* 1839, "Foraminifères," 108, ii, 27 and 28; also in Spanish, 1840, 111, same pl. and fig.
- D'Orb., *Foram. Fossiles Vienne*, 1846, 193, xxi, 28.
- Goës. *K. Svenska Vet.-Akad. Handl.* xix, No. 4, 1882, 89, vi, 187-189.
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- CANOPUS fabeolatus** Montfort. *Conch. syst.* i, 1808, 291, 73rd genre [= *Polymorphina?*].
- CANTHARUS calceolatus**, Montfort. *Ibid.* i, 1808, 299, 75th genre [= *Polymorphina lactea*].
- CANTHROPEs**, Montfort. *Ibid.* i, 1808, 47, 12th genre [= ?].

- CAPITELLINA**, Marsson, 1878. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 122 [= *Lagena*].
- **multistriata**, Marsson. *Ibid.* x, 1878, 123, 1, 3a, b, c.
- CAPSULINA**, Seguenza, 1880. Atti R. Acc. Lincei, [3], vi, 1880, 375.
- **loculicida**, Seguenza. *Ibid.* [3], vi, 1880, 375, xvii, 59a-e.
- CARPENTERIA**, Gray, 1858. Proc. Zool. Soc. London, xxvi, 1858, 269; Carter, Ann. Mag. [5], v, 1880, 440; Brady, Report Challenger, 1884, 676.
- **balaniformis**, Gray. Proc. Zool. Soc. London, xxvi, 1858, 269, f. 1, 2, 3, 4.
- ———— Carter, Ann. Mag. Nat. Hist. [4], xix, 1877, xlii, 13.
- ———— var. **proteiformis**. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4. 1882, 94, vi, 208-214; vii, 215-219.
- ———— Agassiz, Three Cruises 'Blake,' ii, 1888, 168, f. 514.
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- ———— *Ibid.* [4], xx, 1877, 68, cut.
- ———— Brady, Report Challenger, 1884, 677, xcix, 1-5.
- **proteiformis**, Goës. Brady, Report Challenger, 1884, 679, xcvi, 8-14 [v. *balaniformis*, var. 1882].
- ♀ ———— *cf.* ———— Uhlig. Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 188, v, 3.
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- **utricularis**, Carter. Ann. Mag. Nat. Hist. [4], xx, 1877, 176 [v. *Polytrema*, 1876].
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- ♀ ———— v. *Chrysaora*.
- CARTERINA**, Brady, 1884. Report Challenger, 1884, 345.
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- CASSIDULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 282; Brady, Report Challenger, 1884, 427.
- **alata**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 65, vii, 5.
- **bradyi**, Norman, MS. Wright, Proc. Belfast Nat. F. C., 1880, Appendix, 152.
- ———— Brady, Report Challenger, 1884, 431, liv, 6-10.
- **calabra** (Seguenza). *Ibid.* 1884, 431, cxiii, 8a, b, c [*Bursolina*, 1880].
- (**Orthoplecta**) **clavata**, Brady. *Ibid.* 1884, 432, cxiii, 9.
- **crassa**, d'Orbigny. Voyage Amér. Mérid. 1839, v, (5), "Foraminifères," 56, vii, 18-20.
- ———— D'Orb., Foram. Fossiles Vienne. 1846, 213, xxi, 42, 43.
- ———— Bronn Klassen Ordn. Thier-Reichs. i, 1859, 69, vi, 6.
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- ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 192, lli, 34.
- ———— Brady, Report Challenger, 1884, 429, liv, 4 and 5.
- ———— See *C. lævigata*, d'Orb.
- **globosa** Hantken. A magy. kir. földt. int. évkönyve. iv, 1875 (1876), 54, xvi, 2; Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 64 same pl. and fig.
- **globulosa**, Egger. Neues Jahrbuch, 1857, 296, xi, 4-7.
- **inexculpta**, Franzenau. Math. termész. értesítő, vii, 1889, 247, iv, 2.
- **jonesiana**, Brady. Quart. Journ. Micros. Sci., n. s. xxi, 1881, 59 [= *Bulim. contraria* (Rss.), Brady, 1884].
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 ———— Williamson, Recent British Foram. 1858, 68, vi, 141 and
 142.
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 ii, 47.
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 221, xliii, 11.
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 1871, 175, xi, 129 [see *Globigerina*].
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 [= *C. crassa*, d'Orb].
 ———— *parkeriana*, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 59.
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 fères," 57, viii, 1-3.
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 ———— *pupa*, d'Orbigny. Voyage Amér. Mérid. 1839, v, (5), "Foraminifères,"
 57, vii, 21-23 [v. *Ehrenbergina*].
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 vii, 33.
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 7, 7a.
 ———— *subglobosa*, Brady. Q. Journ. Micr. Sci. xxi, 1881, 60.
 ———— Brady, Report Challenger, 1884, 430, liv, 17a, b, c.
 ———— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886,
 744, xvi, 2a, b.
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 221, xliii, 12-14.
- CELIBS** *gradatus*, Montfort. Conch. Syst. i. 1808, 307, 77th Genre [= ?].
CELLANTHUS *craticulatus*, Montfort. *Ibid.* i, 1808, 207, 52nd Genre [= *Polystom.*].

- CELLEPORA hemisphærica**, Parfitt. Annals and Mag. Nat. Hist. [4], XII, 1873, 98, iii B, 1-6 [= *Gypsina inhærens* (Schultze), Brady].
- CELLULINA besseri**, Zborezewski. Nouv. Mém. Soc. Nat. Moscou, 1834, 308, xxvi, f. 2.
- **eichwaldii**, Zborezewski. *Ibid.* 1834, 308, xxvi, f. 1.
- **puschii**, Zborezewski. *Ibid.* f. 3 [= ? *Dactylopora*, P. & J., Annals Mag. N. H. (3), XII, 1863, 203].
- CENCHRIDIUM**, Ehrenberg, 1845. Bericht. k. preuss. Ak. Wiss. Berlin, 1845, 357 [= *Layena*].
- **aargovense**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 13, II, Opalinusthon 1 [= *Lag. globosa*, long var.].
- **capense**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 281.
- **dactylus**, Ehrenberg. Mikrogeologie, 1854, xxiv, 1 and 2 [= *Lag. emaciata*?, Reuss].
- **globosum** (Will.). Stein, Organ. Infusionsthier, III, (2), 1883, 18, II, 1 and 2 [*Eutosolenia*, 1858].
- **incurvum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 281.
- ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 17.
- **oliva**, Ehrenberg. Mikrogeologie, 1854, xxiv, 3 and 4, and xxxvii, vi, 1 [= *Lag. globosa*].
- **rugulosum**, Stein Organ. Infusionsthier, III, (2), 1883, 18, II, 5.
- **sphærule**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 368.
- ——— Stein, Organ. Infusionsthier, III, (2), 1883, 18, II, 3 and 4.
- **tridactylum**, Stein. *Ibid.* III, (2), 1883, 18, II, 6.
- CENCHRITES**, Mercatus. Metallotheca, 1719, 285, f., and 286, f. [= *Nummulites*].
- CEPINULINA oblonga**, Schafhäutl. Geogn. Unters. sudbayer. Alpengeb. 1851, 49, xiii [misprinted in text xviii], f. 20 [an "oolitic granule;" may be *Miliola*.]
- CERATESTINA**, Carter. 1880. Ann. Mag. Nat. Hist. [5], v, 1880, 448; v, Brady, Report Foram. Challenger, 1884, p. 77 [one of the Testamœbiformiæ].
- **globularis**, Carter. *Ibid.* [5], v, 1880, 449, xix, 6a-g.
- **tessellata**, Carter. *Ibid.* [5], v, 1880, 450, xix, 7a-h.
- CERATOSPIRULINA**, Ehrenberg. 18'8 Monatsbericht k. pr. Ak. Wiss. Berlin, 1858, 11. [Characteres Quinqueloculinæ, sed ætate protracta in tubuli recti simplicis formam excrecentes. Quinqueloculinam longe tubulosam rostratam æquat.]
- **sprattii**, Ehrenberg. *Ibid.* 1858, 19.
- CERATOSPIRIS sprattii**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 7 [= *Miliolina* with final chamber produced].
- CERIOFORA globulus**, Reuss. Haidinger's Nat. Abh. II, 1847, 33, v, 7 [= *Gypsina*].
- CHÆTOTOCHUS hochstetteri**, Ehrenberg. Novara-Exped. II, 1866, 76 and 81, not described.
- CHARYBS plicatus**, Montfort. Conch. Syst. I, 1808, 107, 27th Genre [= *Serpula*].
- CHEIRAMINA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 132, not described; ten species proposed with the generic name of *Cheiropsis*!
- CHEIROPSIS**, de Folin, 1881. *Ibid.* xv, 132 [v. *Cheiramina*].
- CHILOSTOMELLA**, Reuss, 1849. Denkschr. k. Ak. Wiss. Wien, I, 1850, 379; Brady, Report Challenger, 1884, 4:6.
- **cyclostoma**, Rzehak. Ann. k. k. nat. Hofmuseums, III, (3), 1888, 258, xl, 1a, b, c.
- **cylindroides**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 80, vi, 43.
- ——— Bornemann, *Ibid.* VII, 1855, 343, xvii, 1
- ——— Hantken. Magy. kir. földt. int. évkönyve, IV, 1875 (1876), 54, VII, 7; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 63, same pl. and fig. [*C. cylindrica*, Rss. in descr. of plate].
- [**cylindrops**], ——— Pictet, Traité de Paléont. ed. 2, IV, 1857, 520, cix, 40
- **czizeki**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 380, xlviii, 13.

- CHILOSTOMELLA czizeki**, Reuss. Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 70.
- **eximia**, Franzénau. Termész. Füzetek, xi, 1889, 147 and 206, woodcut.
- Franzénau, Math. termész. értesítő, vii, 1889, 248, iv, 3.
- **oolina**, Schwager. Boll. R. Com. Geol. Ital. ix, 1878, 527, i, 16.
- **oviformis**, Sherborn & Chapman. Journ. R. Micr. Soc. 1889, 485, xi, 13 [*Lagena*, 1886].
- **ovoidea**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 380, xlviii, 12.
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- Brady, Report Challenger, 1884, 436, iv, 12-23.
- Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 485, xi, 12.
- **tenuis**, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 343, xvii, 2.
- v. Schlicht "Foram. Septar. Pietzpuhl," 1870, xxv.
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- **dimorpha**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 54.
- Brady, Report Challenger, 1884, 388, xvi, 20, 21.
- **gradata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 195, xxi, 32, 33.
- D'Orb., Cours élém. Paléont., etc. i, 1849, 200, f. 327; ii, (2), 1852, 648, f. 527.
- Bronn, Lethæa Geognostica, ed. 3, ii, 1851-52, 89, xxix¹, 18a, b.
- Reuss' Model No. 84, 1865 (Catal. No. 14, 1861).
- Carpenter, Parker & Jones, Introd. Foram. 1862, 193, xii, 16.
- Mackie, Science Gossip, 1867, 131, f. 137.
- CHRYSAORA**, Lamouroux, 1821.
- **damæcornis**, Lamouroux. Exposit. Méthod. Polypiers, 1821, 83, lxxxii, 8 and 9.
- Defrance, Dict. Sci. Nat. 1816-30, Atlas Zooph. xlii, f. 2
- [= ? *Carpenteria*].
- Blainville, Actinol. 1834, 414, lxiv, 2 [= ? *Carpenteria*].
- CHRYSOLUS**, Montfort. Conch. Syst. i, 1808, 27, 7th genre [= *Nonion. faba*].
- CIBICIDES**, Montfort, 1808. *Ibid.* i, 1808, 123 [= *Truncatulina*].
- **refulgens**, Montfort. *Ibid.* i, 1808, 123, 31st genre.
- Defrance, Dict. Sci. Nat. ix, 1817, 188; xix, 1821, 2; xxxii, 1824, 187; Atlas, Conch. xix, 2.
- Blainville, Manuel Malac. et Conch. 1825 (pls., 1827). 391, x, 2.
- **rozovii**, Fischer. Oryctogr. Gouv. Moscou, 1830-37, 128, xiv ["La hauteur du cône est d'un pouce et 8½ lignes" Not a Foraminifer].
- CIDAROLLUS plicatus**, Montfort. Conch. Syst. i, 1808, 111, 28th genre [= *Pulv. repanda*, F. & M., v *pulchella*, d'Orb].
- CIMELIDIUM**, Ehrenberg, 1858. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 22 [= ? *Guttulina* = *Polymorphina* ? ?].
- CINQNEOCULINA**, Ludwig, 1855. Error for Quinqueloculina.
- CISSEIS asterica**, Guppy, Quart. Journ. Geol. Soc. 1866, xxii, 572, *nom. nud.* = *Tinoporus barulatus*: *file* Guppy.
- CITHARINA**, d'Orbigny, 1839. In Ramon de la Sagra, Hist. phys. pol. et nat. l'île de Cuba, "Foraminifères," 1839, xxxvii.
- **costulata**, Römer. Reuss in Geinitz, Grundr. Verstein. 1845-46, 657, xxiv, 13 [*Vaginulina*, 1842].
- **italica** (Costa). Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 25, pl., 13 [? *Cith. elegans* (d'Orb.), see *Vaginulina*].
- **strigillata**, Reuss. Verstein. Böhm. Kreide, 1845-6, ii, 106, xxiv, 29 [v. *Vaginulina*].
- CLARLARIS larva**, misprint for *Cristellaria*, Spratt, Geol. of Malta, etc. 1854.
- CLAVULA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 132, not described; 3 species proposed.
- CLAVULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 268; Brady, Report Challenger, 1884, 393.

- CLAVULINA angularis**, d'Orb. Ann. Sci. Nat. vii, 1826, 268, No. 2, xii, 7.
 ————— Reuss in Geinitz, Grundr. Verstejn. 1845-46, 667, xxiv, 66.
 ————— Brady, Report Challenger, 1884, 396, xlviii, 22-24.
 ————— var. **difformis**, Brady. *Ibid.* 1884, 396, xlviii, 25-31.
 ————— **antipodum**, Stache. Novara-Exped. Geol. (1), 1864, 167, xxi, 3-8.
 ————— **caperata**, Brady. Quart. Journ. Micros. Soc. xxi, 1881, 54 [= *Tritaxia*,
 1884, q. v.].
 ————— **clavulus** (?), (Lam.). P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4],
 viii, 1871, 154, ix, 32 [*Nodosaria*, 1816].
 ————— **communis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 268, No. 4 [v. *Ver-*
neuilina].
 ————— D'Orb., Foram. Fossiles Vienne, 1846, 196, xii, 1, 2.
 ————— Costa, Atti Accad. Pontaniana, vii, (2), 1856, 270, xxiii, 2.
 [————] ———, Pictet, Traité de Paléont. ed. 2, iv, 1857, 514, cix, 33.
 ————— Reuss' Model No. 98, 1865 (Catalog. No. 10, 1861).
 ————— Zittel, Handbuch Paläont. (1), 1876, 90, f. 27⁹.
 ————— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 90.
 ————— Brady, Report Challenger, 1884, 394, xlviii, 1-13.
 ————— var. **irregularis**, Costa. Fornasini, Boll. Soc. Geol. Ital. ii,
 1883, 184, ii, 3 [v. *C. irregularis*].
 ————— Fornasini, *Ibid.* iv, 1885 (1886), 106, vi, 1 and 2.
 ————— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886,
 743, xv, 1.
 ————— Brady, Parker & Jones, Trans. Zool. Soc. xii (7), 1888, 220,
 xlii, 11.
 ————— **corrugata**, Deshayes. In Lyell, Principles of Geology, iii, 1833, 251, iv,
 12-14.
 ————— Brown, Elem. Foss. Conch. 1843, 25, ii, 43 and 44.
 ————— **cylindrica**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 268, No. 1.
 ————— **cylindrica**, Hantken. Magy. kir. földt. int. évkönyve, iv, 1875 (1876),
 14, 1, 8; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881),
 18, same pl. and fig.
 ————— Hantken, Kohlenflötze, etc., ungar. Krone, 1878 (transl.
 from Magyar), 227, f. 42.
 ————— Brady, Report Challenger, 1884, 396, xlviii, 32-38.
 ————— Karrer, Abh. k. k. Geol. Reichs. ix, 1877, 373, xvia, 4.
 ————— **elegans**, Karrer. Novara-Exped. Geol. (1), 1864, 80, xvi, 11.
 ————— **oocæna**, Gümbel. Abh. m.-ph. Cl. k.-bayer Ak. Wiss. x, 1868 (1870),
 601, 1, 2a, b.
 ————— Terquem, Mém. Soc. Géol. France [3], ii, 1882, 121, xii,
 (xx), 35a, b.
 ————— **gaudryinoides**, Fornasini. Boll. Soc. Geol. Ital. iv, 1885 (1886), 106,
 vi, 3-9.
 ————— **indiscreta**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 55 [= *Tritaxia*,
 1884, q. v.].
 ————— **irregularis**, v. Münster. In Rømer, Neues Jahrbuch, 1838, 387, lii, 40.
 ————— **irregularis** Costa. Atti Accad. Pontaniana, vii, (2), 1856, 270, xxi, 4, 5
 and 6 [error for xxii, 1-3].
 ————— **nodosaria**, d'Orbigny. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Fo-
 raminières," 110, ii, 19 and 20, also in Spanish. 1840, 113, same pl. and fig.
 ————— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1058, lxxxvi,
 54.
 ————— **parisiensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 268, No. 3.
 ————— D'Orb., Modèles, No. 66, 1826.
 ————— P., J. & B. [d'O., Modèles, 66], Ann. Mag. Nat. Hist. [3],
 xvi, 1865, 29, i, 26 [= *Valvulina*].
 ————— Terquem, Mém. Soc. Géol. France, [3], ii, 1882, 121, xii
 (xx), 34a, b.
 ————— Schwager, Palæontographica, xxx, 1883, Pal. Theil, 116,
 xxvi (3), 18a-c.
 ————— (**Valvul.**) ——— Jones, in Microgr. Dict. ed. 4, 1883, 182, xxiii, 51.
 ————— Brady, Report Challenger, 1884, 395, xlviii, 14-18.
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 ———— Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 220, xlii, 10, 12.
 ———— Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 485, xi, 11.
 ———— **philipinica**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 86, v, 4, and Bol. Com. map Geol. Españ. VII, 1880, 267, E, 4.
 ———— **procera**, Goës. Bihang k. Svenska Vet. Ak. Handl. xv, 1889, ii, 17.
 ———— **robusta**, Stache. Novara-Exped. Geol. (1), 1864, 169, xxi, 9, 10.
 ———— **rudis** (Costa). Fornasini, Boll. Soc. Geol. Ital. II, 1883, 184, ii, 4 [*Glandulina*, 1856].
 ———— **szaboi**, Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 83, i, 4, 6 and 7.
 ———— Hantk., Magy. kir. földt. int. évk. iv, 1875 (1876), 13, i, 9a-d; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 16, same pl. and fig.
 ———— Hantk., Kohlenflötze ungar. Krone, 1878 (transl. from Magyar), 227, f. 43.
 ———— Steinmann, Elem. Paleont. I, 1888, 26, f. 7 F.
 ———— **tricarinata**, d'Orbigny. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 111, ii, 17 and 18 [16-18]; also in Spanish, 1840, 114, same pl. and fig.
 ———— **tripleura**, Reuss. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865 (1866), 468, pl. I.
 ———— **triquetra**, Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 6, 1, 1.
 ———— **variabilis**, Schwager. Novara-Exped. Geol. (2), 1866, 197, iv, 8a, b, c. [———], Deshayes. Coq. Foss. Paris, 1824-1837, not descr., pl. cv, 35-39, 40-46 [triangular, early chambers].
 ———— Pictet. Traité de Paléont. IV, 1846, 236, xii, 22.
 ———— Neumayr. Stämme d. Thierreiches, I, 1889 (8), 182, f. 24c.
 ———— v. *Nod. agglutinans*, Terq.
 ———— v. *Nod. rustica*, Jones.
- CLAUSULUS indicator**, Montfort. Conch. Syst. I, 1808, 179, 45th genre [= *Alveol. indicatrix*].
- CLIDOSTOMUM**, Ehrenberg, 1845. Bericht k. pr. Ak. Wiss. Berlin, 1845, 358.
 ———— **polystigma**, Ehr. *Ibid.* 1845, 368.
- CLIMACAMMINA**, Brady, 1876. Carbon. Foram., Pal. Soc. xxx, 1876, 67.
 ———— **antiqua**, Brady. *Ibid.* xxx, 1876, 68, ii, 1-9.
 ———— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 92.
 ———— **cribrigera**, Schwager. Beitr. Paläont. China [in Richthofen's China], 1883, 151, no figure.
 ———— **protenta**, Schwager. *Ibid.* 1883, 150, no figure.
 ———— **simplex**, Meunier. Bull. Soc. Hist. Nat. Antuu, I, 1888, 234, vii, 8 [*Climacamma* in descr. to a plate].
- CLISIPHONTES calcar**, Montfort. Conch. Syst. I, 1808, 227, 57th genre [= *Crist. calcar*].
- CLYPHOGONIUM**, Reinsch, 1877. Neues Jahrb. 1877, 177 [proposed but not described; "Lagenidæ"].
- COCHLEÆ polythalamia centro utrinque prominente, gyris unitis intra testam latentibus**, C. Gesner. De omni Rerum, 1565, 159-167 [= *Nummulites*].
- COCHLITULIS**, Langius. Hist. lap. fig. Helvet., Venetiis, 1708, 69, xviii [= *Nummulites*].
- CÆLOTROCHIUM**, Schlüter, 1879. Zeitschr. deutsch. geol. Ges. xxxi, 1879, 668. [A species of calcareous algæ, v. Solms-Laubach, Einleit. Paläo-phytologie, 1887, 38, etc.]
 ———— **decheni**, Schlüter. *Ibid.* xxxi, 1879, 668, figures.
- COLPOLEURA**, Ehrenberg, 1844. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 74.
 ———— **leptostigma**, Ehrenberg. *Ibid.* 1845, 363.
 ———— **ocellata**, Ehrenberg. *Ibid.* 1844, 67 and 92; and Mikrogeologie, 1854, xxii, 76 [= *Planorb.* near *haidingeri*].
- CONCHULA minima**, Littoris Ariminensis altera parte albissima, semen Milii perfectissime referens. Plancus. De Conch. min. not. 1739 (Rome, 1760), 23, II, f. vi, G, I [= *Biloculina*].

- CONCHULA minima**, *Littoris Ariminensis* arcte in se contorta, albissima, lævissimaque, extrinsecus *Concham Venerream* referens, Plancus. *Ibid.* 19, ii, f. i *A-C* [= *Miliolina*].
- CONODICTYUM striatum**, Münst. Gümbel, Sitz. k.-bayer. Ak. Wiss. München, iii, 1873, 294, i, 16-24. [A genus of calcareous algæ.]
- CONULINA**, d'Orbigny, 1839. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, 24.
- *conica*, d'Orbigny. *Ibid.* 1839, "Foraminifères," 24, i, 15 and 16; also in Spanish, 1840, 52, same pl. and fig.
- D'Orb., *Foram. Fossiles Vienne*, 1846, 71, xxi, 7, 8.
- Bronn, *Lethæa Geognostica*, ed. 3, ii, 1-51-52, 90, xxix¹, 26.
- Reuss' Model No. 71, 1865 (Catal. No. 13, 1861).
- *irregularis*, d'Orbigny, 1847. *Prodrome de Paléont.* ii, 1850, 210, No. 356.
- CONULITES**, Carter, 1861. *Journ. Bombay Branch R. Asiatic Soc.* vi, 1861 (1862), 53 [= *Patellina*].
- *cooki*, Carter. *Ibid.* vi, 1861 (1862), 83; *Annals Mag. N. Hist.* [3], viii, 457, xv, 7.
- Schwager, *Boll. R. Com. Geol. Ital.* viii 1877, 26, pl., 75.
- COPROLITHEN**, Philippi. *Tertiär. nordwest. Deutsch.* 1843, 63, iv, 27a, 27a (2), 28 [27 (2) = *Litnota*; 28 = *Chara*?].
- CORNE d'ammon**, d'Argenville. *Conchyliologie*, 1780, i, 680, vii, B 1 [= 2]; and 731, lxi, D1 [*Rotulia Beccarii*].
- CORNO d'ammon**, Targioni. *Relaz. d'alc. viaggi*, ed. 2, iv, 1770, 13, i, figs. 17-19; 21-36 [= ? *Rotulia Beccarii*].
- CORNU ammonis ariminense**, Planc. Parkinson, *Introd. Study Foss. Organ. Rem.* 1822, 169, vi, 19 [= *Rotulia Beccarii*].
- *ammonis erectum vulgare, striatum, siliquam raphanistri perfectissime referens*, Klein. *Vers. u. Abh. Nat. Ges. Dantzig*, ii, 1754, 1, etc., i, f. 1 *A, B* [= *Nodos. raphanistrum*].
- *ammonis*, etc., Ledermüller. *Mikr. Gemüths*, 1763, 16, viii [*Rotulia, Cristellaria, Vaginulina, Nodosaria, Glandulina*, etc.].
- *hammonis*, Klein. *Methodi Ostracolog.* 1753, 4, i, 6-9 [6 and 7 are not Foraminifera; 8 and 9 = ? *Cornuspira*].
- *hammonis . . . ad Lituum accedens*, Martini. See *Peneroplis*, Martini.
- *depressum in eodem Littore [Liburni] repertum, quod umbilicatum est umbilico scilicet concavo . . .* F. Colonna, 1744, *ΦΥΤΟΒΑΣΑΝΟΝ*, appendix, xxxviii, E [= *Peneropl. planatus*].
- *Littoris Liburnensis Umbilico concavo*, Plancus. *De Conch. min. not.* 1760, 95, i, f. X, P [= *Peneroplis*].
- *Littoris ariminensis*, Ginauni. *Opera postume*, 1755, 20, xiv, [= *Rotulia* and *Cristellaria*].
- *erectum depressum striatum, vaginulam glandii referens*, Plancus. *De Conch. min. not.* 1739 (Rome, 1760), 16, i, vii, G-I [= *Vag. legumen*].
- *erectum globosius*, Plancus. *Ibid.* 16, ii, iii, D-F [= *Glandulina*].
- *erectum minus vulgare lævissimum, siliquam Radiculæ perfectissimi referens*, Plancus. *Ibid.* 14, i, v, A-C [= *N. radícula*].
- *erectum vulgare, striatum, siliquam, Raphanistri perfectissime referens*, Plancus. *Ibid.* 15, i, vi, D to H [= *N. raphanus* and *N. raphanistrum*].
- *minus vulgare Orbiculatum striatum, umbilico prominente, ex quo striæ et loculamenta omnia prodeunt*, Plancus. *Ibid.* 10, i, ii, E and F [= *Polystomella*].
- *Quartum, seu Nautili genus valde depressum umbilico carens et plerumque marginatum*, Plancus. *Ibid.* 13, i, iv, N and M [= ? *Cristellaria*].
- *Tertium, seu Nautili genus umbilico prominente et plerumque marginatum*, Plancus. *Ibid.* 12, i, iii, H and I [= *Crist. rotulata*].
- *Tertium*, etc., Plancus, q. v. Figures xii and xiii of Pl. i in the *De Conch. min. not.*, ed. 1760, are referred by Plancus to this form. [They = *C. cultrata*.]

- Cornu ammonis Littoris ariminensis vulgatissimum**, Plancus. *Conch. min.* not. 1739, 8, i, 1 *A, B, C* [= *Iotalia Beccarii*].
- **Liburnensis in Longum porrectum ad Lituum accedens**, Plancus. *Ibid.* 1760, 94, i, f. *X, O* [= *Peneroplis*].
- [Addo' et Cornu Hammonis] **peculiare nativum, quod anno elapsus in Liburni littori reperi, quod Semilituus ad pellari on omnino inepte poterit, . . . albissimi coloris est haec Testa, ut et reliquæ duæ, quas infra describo**, F. Colonna, *ΦΥΤΟΒΑΨΑΝΟΝ*, 1744, appendix, xxxviii, *D* [= *Peneropl. planatus*].
- CORNUSPIRA**, Schultze, 1854. Organismus Polythal. 1854, 40; Brady, Report Challenger, 1884, 198.
- **angulata**, Deecke. *Abh. Geol. Spez. Karte Elsass.-Lothr.* iv, (1), 1884, 16, i, 7, 7a.
- **archimedes**, Stache. *Novara-Exped. Geol.* (1), 1864, 180, xxii, 1a, b.
- **aspera**, Terquem. *Mem. Ac. Imp. Metz*, LI, 1870, 346, xxv, 18a, b [error for 17].
- **bayonnensis**, Zwingli & Kübler. *Foraminif. schweiz. Jura*, 1870, 46, iv, Anhang 1.
- **biedermanni**, Zwingli & Kübler. *Ibid.* 1870, 22, ii, Ornamenton 1.
- **bornemanni**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVIII, (1), 1863 (1864), 39, i, 3a, b.
- **carbonaria**, Steinmann. *Zeitschr. deutsch. geol. Ges.* xxxii, 1880, 396, xix, 1.
- **carinata** (Costa). Brady, Report Challenger, 1884, 201, xi, 4a, b [*Operculina*, 1856].
- ———— Sherborn & Chapman, *Journ. R. Micr. Soc.* 1889, 484, xi, 6.
- **concava**, Terquem. *Mem. Ac. Imp. Metz*, LI, 1870, 346, xxv, 17 [error for 16].
- **concava**, Zwingli & Kübler. *Foraminif. schweiz. Jura*, 1870, 24, iii, 3 [= *Trochamm. incerta*].
- **convexa**, Zwingli & Kübler. *Ibid.* 1870, 38, iv, Badener Schicht, 4.
- **crassa**, Zwingli & Kübler. *Ibid.* 1870, 19, ii, Macrocephalus oolith, 2 [doubtful; ? a *Spirillina*].
- **crassisepta**, Brady. *Proc. Roy. Soc. Edinburgh*, xi, 1882, 714, not figured.
- ———— Brady, Report Challenger, 1884, 202, cxiii, 20.
- **cretacea**, Reuss. *Sitz. k. Ak. Wiss. Wien*, xl, 1860, 177, i, 1a, b.
- ———— *Ibid.* xlvi, (1), 1862 (1863), 34, i, 10-12.
- ———— Steinmann, *Elem. Paleont.* i, 1888, 23, f. 4 *A*.
- **eichbergensis**, Zwingli & Kübler. *Foraminif. schweiz. Jura*, 1870, 17, ii, Parkinsonsonthon, 2 [= a *Spirillina*].
- ———— *Ibid.* 1870, 24, iii, 2 [= *Trochamm. incerta*].
- ———— *Ibid.* 1870, 38, iv, Badener Schicht, 2 [? a *Spirillina*].
- **elliptica**, Stache. *Novara-Exped. Geol.* (1), 1864, 181, xxii, 2a, b.
- **elliptica**, Zwingli & Kübler. *Foraminif. schweiz. Jura*, 1870, 17, ii, Parkinsonsonthon 3 [= *Trochamm. incerta*].
- ———— *Ibid.* 1870, 38, iv, Badener Schicht, 3 [= *Troch. incerta*].
- **filiformis**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LVII, (1), 1868, 105, i, 9.
- **foliacea** (Phil.). Carpenter, Parker & Jones, *Introd. Foram.* 1862, 68, v, 16 [*Orbis*, 1844].
- [—————] Wallich, *North Atlantic Sea-bed*, (1), 1862, no descr., v, 12, 12a.
- ———— Reuss, *Denkschr. k. Ak. Wiss. Wien*, xxv, 1865, 121, i, 8, 9.
- ———— Parker & Jones, *Phil. Trans.* 1865, 408, xv, 33.
- ———— J., P. & B., *Crag Foram. Pal. Soc.* xix, 1866, 2, iii, 50 and 51.
- [—————?] ———— P., J. & B. [Soldani], *Ann. Mag. Nat. Hist.* [4], viii, 1871, 238, viii, 1 [*Soldania limia*, d'O., q. v.].
- [—————?] ———— *Ibid.* [4], viii, 1871, 238, viii, 2 [*Sold. orbicularis*, d'O., q. v.].
- ———— Schwager, *Boll. R. Com. Geol. Ital.* viii, 1877, 27, pl. 104.
- ———— Nicholson, *Manual Paleont.* 1879, i, 108, f. 18a.
- ———— Möbius, *Beitr. Meeresfauna. Insel Mauritius, etc.* 1880, 76, ii, 3.

- CORNUSPIRA foliacea** (Phil.). Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 189, iv, 8 and viii, 1.
 ————— Gcöcs, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 120, ix, 308, 310.
 ————— Jones in Microgr. Dict. ed. 4, 1883, 210, xxiii, 13.
 ————— Brady, Report Challenger, 1884, 199, xi, 5-9.
 ————— Balkwill & Wright, Trans. R. I. Ac. xxviii (Sci.), 1885, 326, xii, 1a, 1b.
 ————— Agassiz, Three Cruises "Blake," II, 1888, 161, f. 488.
 ————— **gracilis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 17, ii, Parkinsonsthor, 4 [= *Trochamm. incerta*].
 ————— **granulosa**, Terquem. Mem. Ac. Imp. Metz, LI, 1870, 344, xxv, 12a, b.
 ————— **helvetica**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 13, ii, Opalinusthor 3 [= *Spirillina*].
 ————— **hörnesh**, Karrer. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865 (1866), 495, pl. 10.
 ————— **infima** (Strickl.). Tate & Blake, Yorkshire Lias, 1876, 451, xviii, 1 [v. *Orbis*, 1846].
 ————— **infraoolithica**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 345, xxv, 13.
 ————— **intermedia**, Gümbel. Sitz. k.-bay. Ak. Wi.-s. III, 1873, 39, no fig.
 ————— **involvens**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 39, 1, 2 [*Operculina*, 1849].
 ————— Reuss' Model No. 9, 1865 (Catal. No. 15, 1861).
 ————— J., P. & B., Crag Forum. Pal. Soc. XIX, 1866, 3, iii, 52-54.
 ————— Hantken, Magy. kir. földt. int. évkönyve, IV, 1875 (1876), 16, ii, 2; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 19, same pl. and fig.
 ————— Brady, Report Challenger, 1884, 200, xi, 1-3.
 ————— Balkwill & Millett, Journ. Micr. III, 1884, 23, i, 1.
 ————— Balkwill & Wright, Trans. R. I. Ac. XXVIII, (Sci.), 1885, 327, xii, 2a, 2b.
 ————— Burbach, Zeitschr. Naturw. Halle, LIX, 1886, 497, v, 1.
 ————— Anon. Sci. News, 27 April, 1888, 389, f. 7.
 ————— Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 216, xl, 1-3.
 ————— Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 484, xi, 4, 5.
 ————— **lacunosa**, Brady. Report Challenger, 1884, 202, cxiii, 21.
 ————— **laticus**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 33, iv, Impressthor, 3 [= *Troch. incerta*].
 ————— **liasina**, Terquem. Sixième Mém. Forum. Lias, 1866, 474, xix, 4a, b.
 ————— **marginata**, M. Sars. Vidensk.-Selsk. Forhandl. 1868, 249 [referred to *C. carinata* by Brady, 1884].
 ————— **media**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 33, iv, Impressthor 2 [= *Troch. incerta*].
 ————— **numismalis** (Terq. & Berth.). Burbach, Zeitschr. Naturw. Halle, LIX, 1886, 498, v, 2 [*Spirillina*, 1875].
 ————— **nummulitica**, Gümbel. Abh. m.-ph. Cl. k.-bayer Ak. Wiss. x, 1868 (1870), 604, 1, 5a, b.
 ————— **occlusa**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 346, xxv, 19, 20 [error for 18, 19].
 ————— **olygogyra**, Hantken. Magy. kir. földt. int. évkönyve, IV, 1875 (1876), 16, i, 10; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 20, same pl. and fig. [*C. olygogyra* on plate].
 ————— **oolithica**, Schwager. Benecke's Geogn.-Pal. Beiträge, I, 1868, 655, xxxiv, 4.
 ————— **orbicula** (Terq. & Berth.). Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [16], II, 4 [*Spirillina*, 1875].
 ————— **pachygyra**, Gümbel. Jahrb. k. k. geol. Reichsanstalt, XIX, 1869, 178, v, 9 and 10.
 ————— **perforata**, Schultze. Organismus Polythal. 1854, 41, II, 22 [v. *Spirillina*].
 ————— **planorbis**. Schultze. *Ibid.* 1854, 40, II, 21.
 ————— Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 69 vi, 1.
 ————— **polvygyra**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 39, 1, 1a, b.

- CORNUSPIRA polygyra**, Reuss. Hantken, Magy. kir. földt. Int. évkönyve, iv, 1875 (1876), 15, i, 11, ii, 1; and Mitth. a. d. Jahrb. k. ungar. ges. Austalt iv, 1875 (1881), 19, same pl. and fig.
- Zittel, Handbuch Palæont. (1), 1876, 76, f. 8^l.
- Hantken, Kohlenflötze, etc., ungar. Kroue, 1878 (transl. from Magyar), 232, f. 53.
- Hoernes, Elem. Palæont. 1884, 33, f. 28, French ed. 1886, same fig.
- **punctulata**, Terquem. Mem. Ac. Imp. Metz, LI, 1870, 345, xxv, 14-16 [error for 14 and 15].
- **pygmæa**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 300, vi, 14.
- **reussi**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 318, no fig. [Reuss' *Operculina* sp., Zeitschr. III, 1851, 73].
- Reuss, Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 121, i, 10.
- v. **excentrica**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, 1870, 464; Schlicht, Foram. Pietzpuhl, 1870, xxxv, 13-23.
- **rugulosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 222, i, 1.
- **senonica**, Dunikowski. Kosmos [Lemberg], iv, 1879, 104, pl., 1.
- **striolata**, Brady. Proc. Roy. Soc. Edinburgh, XI, 1882, 713.
- Brady, Report Challenger, 1884, 202, cxiii, 18 and 19.
- **tenuissima** (Gümbel). Schwager, Jahresh. Ver. vat. Nat. Wurt. XXI, 1865, 94, ii, 5 [*Spirillina*, 1862].
- **undulata**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 46, iv, Anhang, 2.
- **variabilis**, Zwingli & Kübler. *Ibid.* 1870, 33, iv, Impressathon 4, 4a, 4b [4 = *Troch. incerta*; 4a, b = *T. gordialis*].
- Parker. Trans. Micr. Soc. London, n. s., vi, 1858, 54.
- Harting. Magt van het Kleine, 1866, 100, f. 37.
- v. Schlicht. "Foram. Septar. Pietzpuhl," 1870, xxxv.
- Ⓟ ——— (**Spirillina** ?), P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 238, viii, 3 [*Sold. annulata*, d'O., q. v.].
- Toulou, Mitth. geogr. Ges. Wien, XVIII, 1875, 165, pl., 15 [apparently a *Spirillina*].
- Carpenter. Ency. Brit. ed 9, "Foraminifera," ix, 1879, 374, i, 1.
- Carpenter. Journ. Quekett Microsc. Club [2], II, 1885, 95, f. 7 [structural].
- Folin. Congrès Scient. Dax, 1882 (1883), 318, pl., f. 4 [sarcode body].
- Ⓟ ——— Wisnioski. Jahrb. k. k. Geol. Reichs. xxxviii, (1889), 6⁴, xiii, 63.
- CORPI marini**, Targioni. Relaz. d'alc. viaggi, ed. 2, iv, 1770, viii, pl., figs. 3, 4, 5 [= ? *Orbitolites*].
- CORPORA rotunda minima vulgatissima Littoris Ariminensis, an Echini quoddam genus?** Plancus. De Conch. min. not. 1730 (Rome, 1760), 19, ii, iv, D-F, and vii, G, I [*Orbulinæ*].
- CORPUSCULA plano papillosa**, Soldani. Testac. I, (3), 1795, 238, 161, E, F, G, 162 H [*Planorbulina mediterraneensis*, d'O., Ann. Sci. Nat. VII, 1826, 280, 2].
- CORTALUS pagodus**, Montfort. Conch. Syst. I, 1808, 115, 29th genre [? a Gasteropod; ? Rotal. form].
- COSCINOPORA**, Goldfuss, 1826. Petrefacta German. 1826, 30. A genus of Hydractinia (*Porosphaera*), made to receive some globular bodies from the chalk. These round, bead-like bodies have been, from time to time, referred to various genera of the Foraminifera, but their position is now somewhat more definitely understood. Writing to the *Geologist*, Apr. 22, 1862, Prof. Rupert Jones says "*Millepora* ? *globularis*, Phillips (Geol. Yorksh. I, 1829, 119, i, 12) and Woodward (Geol. Norfolk, iv, 10-12), *Tragos globularis*, Reuss (Böhm. Kreid. 78, xx, 5), *Coscinopora globularis*, d'Orb. (Prodrom. II, 284) and Morris (Catal. Brit. Foss., ed. 2, 27) is our *Orbitolina globularis* [P. & J.'s]. Michelin's *Criopora avellana* (Icon. Zooph. 208, lii, 13), from Sarthe, appears to us to be a large specimen of the same variety." See also Prestwich, *Phil. Trans.* 1860, (2), 290; Jones, Catal. Foss. Foram. Brit. Mus. 1882, 84; Steinmann (*Porosphaera globularis*, Phillips), Palæontographica, xxv, 1878, 120, xiii, 8-12; Carter (*Millepora Woodwardii*), Annals Mag. Nat. Hist. [5], I, 1878, 306, xvii, 6-9. See also *Orbitolina coucava* ? called *Tinoporos globularis*.

- COSC NOSPIRA**, Ehrenberg, 1838.
 — **forskali**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 131.
hemprichii, Ehrenberg. *Ibid.* 1838, 131, ii, ii; and three varieties, *a. lenticularis*; *β. bacillaris*; *γ. compressa* [= *Peneroplis*, see Carpenter, "Introduction," etc.].
 — **nautiloides**, Ehrenberg. *Ibid.* 1838, 131.
 — — — — — Reuss in Geulitz, Grundr. Verstein. 1845-46, 650, xxiv, 38, 39.
 — **savignyi**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 131.
- COSCINOSPHERA ciliosa**, Stuart. Zeitschr. wiss. Zool. xvi, 1866, 328, xviii, 1-4. [*Globigerina*, fide Haeckel, Greeff & Brandt] [see *Globig. echinoides*].
- COSKINOLINA**, Stache, 1875. Verh. k. k. geol. Reichs. 1875 335, no fig. or descr. and Verh. 1880, 201, no fig. (*C. liburnica*), "eine Mittelform zwischen *Conulina conica*, d'Orb. und *Lituola nautiloidea*." [A plate was printed but not published; there is a copy in Mr. Brady's collection now in library of the Royal Society.]
 — Stache. Schwager. Boll. R. Com. Geol. Ital. viii, 1877, 26, pl. 86.
- CREPIDULINA astacolus**, de Blainville. Dict. Sci. Nat. xix, 1821, 8: xxxii, 1824, 188; Atlas, Conch. xix, 8 [= *Astacolus* of Montfort = *Crist. crepidula*].
 — — — — — Blain., Manuel Malac. et Conch. 1825 (pls. 1827), 383, x. 8.
- CRIBROSPIRA**, v. Möller, 1878. Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 86.
 — **Panderi**, v. Möller. *Ibid.* [7], xxv, No. 9, 1878, 87, iv, 1a-c; x, 1a, b.
 — — — — — v. Möller, *Ibid.* [7], xxvii, No. 5, 1879, 11, [f. 2].
 — — — — — Roemer, Lethæa Geognostica, I, (1), 1880, 280, f. 48.
 — — — — — Hoernes, Elem. Palæont. 1884, 30, f. 22; French ed. 1886, same fig.
- CRIBROSTOMUM**, v. Möller, 1879. Mém. Ac. Imp. Sci. St. Petersburg, [7], xxvii, No. 5, 1879, 39. [The species of this genus are referred by Brady (Report Challenger, 1884) to *Textularia* and *Bigennerina*.]
 — **Bradyi**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 53, iii, 1a-e; vi, 1; 54, f. 18 and 19.
 — **commune**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 42, f. 11; 48, f. 15; 60, iii, 3a-d; vi, 4; 61, f. 24; 62, f. 25 and 26 [*Textularia*, Brady].
 — — — — — Hoernes, Elem. Palæont. 1884, 33, f. 27; French ed. 1886, same fig.
 — **elegans**, v. Möller. Mém. Ac. Imp. Sci. St. Petersburg, [7], xxvii, No. 5, 1879, 50, f. 17; 64, iv, 2; 3a, b, 4 and 5; 64, f. 28 [*Textularia*, Brady].
 — **eximium**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 46, f. 12; 47, f. 13 and 14; 55, iv, 1a-e; vi, 2; 56, f. 20 [*Textularia*, Brady].
 — **gracile**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 59, iii, 4; 60, f. 23.
 — **patulum**, (Brady). v. Möller, *Ibid.* [7], xxvii, No. 5, 1879, 57, iii, 2a, b; vi, 3; 58, f. 21 and 22 [*Bigennerina*, Brady].
 — **pyriforme**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 65, iv, 6a, b; 66, f. 29 [*Bigennerina*, Brady].
 — **textulariforme**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 41, f. 10; 49, f. 16; 62, iii, 5a-c; vi, 5; 63, f. 27.
- CRISTALLARIA**, Hantken, 1875. Misprint for *Cristellaria*.
- CRISTELLARIA**, Lamarck, 1812. Extract Cours Zool. 1812, 122; and Ency. Méthod., "Vers," II, (1830). 29. Parker & Jones give the date of the foundation of the genus as 1816; Brady, Report Challenger, 1884, 534.
 — **aargovensis**.
 — [**aargovensis**], Kübler & Zwingli. Neujaarsblatt Burgersbibl. 1866, 9, i, 12.
 — — — — — Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 6, i, Turnerithon 15.
 — **abnormis**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 117, xiii, 23a, b (and Mém. Soc. Dunkerquoise).
 — — — — — var. **ovata**, Terquem. *Ibid.* (3), 1881, 117, xiii, 24a, b; (and Mém. Soc. Dunkerquoise).

- CRISTELLARIA aculeata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 292, No. 14.
 _____ Brady, Report Challenger, 1884, 555, lxxi, 4 and 5.
 _____ = *C. rostrata* ? (Montf.), see *Lituus innominatus*.
 _____ **acuminata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 420, x, 5a, b.
 _____ Burbach (Dreyer), Zeitschr. f. Nat. LXI, 1888, 507, xi, 28
 and 29.
 _____ **acuta**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 213, x, 3a, b.
 _____ **acuta**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 446, vi, 3a, b, c.
 _____ Terq., Ess. Anim. Plage Dunkerque, (3), 1881, 116, xiii,
 21a, b (and Mém. Soc. Dunkerquoise).
 _____ **acutauricularis** (Fichtel and Moll.) v. *Nautilus*, 1798.
 _____ (**C. auricularis**), _____ Lamarck, Ency. Méthod. "Vers," II
 (1830), 32, 467, f. 7 (pls., 1827), (P. & J. quote 1816).
 _____ Brown, Elem. Foss. Conch. 1843, not descr., iii, 2.
 _____ Brady, Proc. Somerset. Arch. and Nat. Hist. Soc. XIII,
 1865-6 (1867), 228, iii, 38.
 _____ Brady, Report Challenger, 1884, 543, cxiv, 17a, b.
 _____ Sherborn & Chapman, Journ. R. Micr. Soc. [2], VI, 1886,
 753, xv, 22a, b.
 _____ Burbach (Dreyer), Zeitschr. f. Nat. LXI, 1888, 505, x, 23
 and 24; xi, 25-27.
 _____ v. *Oreas*.
 _____ **æquilata**, Reuss. Sitz. k. Ak. Wiss. Wien, L, (1), 1864 (1865), 462, ii,
 13a, b.
 _____ **æquilateralis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 27,
 iii, 29.
 _____ **ala**, Zwingli & Kübler. *Ibid.* 1870, 20, ii, Macrocephalus oolith, 8.
 _____ **alata**, Gumbel. Jahresh. Ver. vat. Nat. Württ. XVIII, 1822, 226, iv, 1a, b.
 _____ **alata**, Terq. & Berth. Mém. Soc. Géol. France, [2], x, 1875, 43, iii (xiii),
 16.
 _____ **alberti**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 133, vi, 20.
 _____ (**Rob.**) **alberti**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, (3),
 1884, 209, ix, 24.
 _____ **alta**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 37 [= *C. cultrata*].
 _____ **amæna**, Terquem. Cinquième Mém. Foram. Lias, 1866, 439, xviii, 7a, b.
 _____ **ammonoides**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. 1866, 14,
 ii, 21.
 _____ Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 16, ii,
 Blagdenischicht 9.
 _____ (**Marg.**) **ampla**, Karrer. Abh. k. k. geol. Reichs. IX, 1877, 382, xvib, 36.
 _____ **amygdaloidea**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865,
 124, v, 12.
 _____ **anceps**, Terquem. Mém. Ac. Imp. Metz, L, 1870, 428, ix, 11-21.
 _____ Terquem, Bull. Soc. géol. France, [3], iv, 1876, 492, xvi, 23.
 _____ Terquem, Cinquième Mém. Foram. Oolithique, 1883, 350,
 xxxviii, 18-28; xxxix, 1-3.
 _____ Terq., Mém. Soc. Géol. France, [3], iv, 1886, 28, iii, 5-12.
 _____ **anglica**, Ehrenberg. Mikrogeologie, 1854, xxviii, 55 [= *Cr. cultrata*].
 _____ **angulata**, Reuss, v. **carinata**, Rzehak. Vert. nat. Ver. Brünn, xxiv,
 1885 (1886), 107, i, 15 [*Robulina angulata*, 1851].
 _____ **angusta**, Reuss. Haidinger's Naturw. Abh. IV, (1), 1851, 32, ii, 7.
 _____ **anomala**, Terquem. Mém. Ac. Imp. Metz, L, 1870, 439, xiii, 26-30.
 _____ Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 32, iii, 27.
 _____ **antiquata**, d'Orbigny, 1849. Prodrome de Paléont. I, 1849, 242, No. 265.
 _____ Terquem, Mém. Ac. Imp. Metz, xxxix, 1858, 620, iii, 15a, b;
 and iv, 5.
 _____ **arcuata**, d'Orbigny. Foram. Fossiles Vienne, v, 1846, 87, iii, 34-36.
 _____ Egger, Neues Jahrbuch, 1857, 296, xiv, 28-30.
 _____ Neugeboren Arch. Ver. siebenburg, Landeskunde N. F. X,
 (2), 1872, 276, i, 3 and 4.
 _____ Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876),
 45, v, 5 and 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875
 (1881), 53, same pl. and fig.

- CRISTELLARIA arcuata**, d'Orb. Jones, M. Micr. Journ. xv, 1876, cxxviii, 9a, b and 20 a, b; 21a, b.
- **arcuata** (Phil.). D'Orb., Prodrome de Paléont. III, 1852, 154, No. 2853 [*Margulinina*, 1844].
- Reuss, Sitz. k. Ak. Wiss. Wien, L, (1), 1864 (1865), 463, ii, 9-11.
- v. **arguta**, Rss. Hantken. Magyar. Földt. Társ. Munkálatal, iv, 1868, 92, li, 26a, b, c [*C. arguta*, 1856].
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 43, v, 10, xvi, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 51, same pl. and fig.
- Jones, M. Micr. Journ. xv, 1876, cxxix, 5a, b.
- Hantken, Kohlenflötze, etc., ungar. Krone, 1878 (transl. from Magyar), 221, f. 50.
- **arcuata** (Karst.). Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1855, 233, iii, 34-36 [*P. anularia*, 1849].
- (**Robul.**) **arcuato-striato**, Hantken. Magyar. Földt. Társ. Munkálatal, iv, 1868, 93, li, 30a, b, c.
- **argovensis**, v. *C. argovensis*.
- **arguta**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 235, iii, 37.
- **arietis**, Terquem. Sixième Mém. Foram. Lias, 1866, 510, xxi, 30.
- (**Rob.**) **ariminensis**, d'Orbigny. Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 199, viii, 10 [*Robulina*, 1826].
- **arnaschewskii**, Toutkowsky. Zap. Kievsk. Obsch. Est. ix, 1888, 32, iii, 2a, b, c.
- **articulata**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, 1870, 483; v. Schlicht, Foram. Pietzpuhl, 1870, xvii, f. 5-12 [*v. Robulina*, 1863].
- Brady, Report Challenger, 1884, 547, lxi, 1-4, 10-12.
- **articulata**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 140; xiii, 10, 10a.
- **articulata**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 447, vi, 6a, b.
- **aspera**, Alth. Haidinger's Naturw. Abh. III, (2), 1850, 268, xiii, 24.
- **asperula**, Gümbl. Abh. m.-ph. Cl. k. bayer. Ak. Wiss. X, 1868 (1870), n d., i, 65a, b.
- **attenuata**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 28, iii, 32.
- **aureola**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 383, xvii, 39.
- **auricula** (v. M.). Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 235, iii, 38 [*v. Planularia*, 1838].
- **auriformis**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 153, viii, 4.
- **auris** (d'Orb.), 1847. D'Orbigny, Prodrome de Paléont. III, 1852, 192, No. 509 [*Planularia*, 1826].
- **auris**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 22, ii, Ornamenton 4.
- **auris** (Defr.). See *Planularia* and *Orthoceras*.
- **austriaca**, Terquem. Essai Anim. Plage Dunkerque, (2), 1876, 70, vii, 20a, b (and Mém. Soc. Dunkerquoise).
- **baccularis**, Terquem. Sixième Mém. Foram. Lias, 1866, 514, xxii, 2a, b, 3a, b.
- **badensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 34, iv, Impressathon 11.
- **baylei**, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, (1), 1861 (1862), 336, vii, 7.
- **behmi**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 138, ii, 37 [*v. also Margulinina*].
- (**Marg.**) ——— Hantken, Magyar. Földt. Társ. Munkálatal, iv, 1868, 91, ii, 21a, b.
- **berthelotiana**, d'Orbigny. Barker, Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, (2), "Foraminifères," 127, i; 12 and 13 [error for 14 and 15].
- **beyrichi** (Born.), Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 148, iii, 20 [*Robulina*, 1855].
- **biclivosa**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 133, vi, 21.
- **bicornis**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 192, xvi, 3a, A, B [error for xvii, 1 and 3].

- CRISTELLARIA bicostata**, Deecke. Abh. geol. Specialkarte Elsass-Lothr. iv, (1), 1884, 49, ii, 13, 13a.
 ——— **bicostata**, Terquem & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 43, iii (xiii), 18.
 ——— **biedermanni**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 28, ii, 31.
 ——— **bielzana**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F., x, (2), 1872, 279, i, 19-22.
 ——— **bilobata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 292, No. 12.
 ——— = *C. elongata*. v. *Nautilus lituitatus ligula*.
 ——— **birmenstorfensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 29, iii, 36.
 ——— **bistegia**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, ix, 1875, 115, i, g [error for 9].
 ——— **bochardi**, Terquem. Mém. Ac. Imp. Metz, xliV, 1863, 419, x, 3a, b, c.
 ——— **bononiensis**, Berthelin. Mém. Soc. Géol. France, [3], i, 1880, 55, iii, (xxvi), 23a-c.
 ——— **böttcheri**, Reuss. Sitz. k. Ak. Wiss. Wien, xlviii, (1), 1863 (1864), 49, and 66, iii, 38-42.
 ——— **Andreae**, Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 223, ix, 26.
 ——— **brachyspira**, Reuss. Sitz. k. Ak. Wiss. Wien, xlviii, (1), 1863 (1864), 49, iii, 43a; iv, 43b.
 ——— Reuss, Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 141, iii, 5.
 ——— **breoni**, Terquem. Mém. Ac. Imp. Metz, xliV, 1863, 420, x, 4a, b.
 ——— **breviformis**, Terq. & Berth. Mém. Soc. Géol. France, [2], x, 1875, 42, iii (xiii), 14.
 ——— **bronnana**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F., x, (2), 1872, 277, i, 7-10.
 ——— **bronni** (Röm.). Reuss, Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 70, vii, 13a, b [v. *Planularia*, 1840].
 ——— [bronnii] ——— Tate & Blake, Yorkshire Lias, 1876, 466, xvii, 26.
 ——— ——— Uhlig, Jahrb. k. k. geol. Reichs. xxxiii, 1883, 753, ix, 4 and 5.
 ——— **bucculenta**, Stache. Novara-Exped. Geol. I, 1864, 238, xxiii, 17a, b.
 ——— **bufo**, Stache. *Ibid.* I, 1864, 239, xxiii, 18a, b.
 ——— **burbachii**, Dreyer. Burbach (Dreyer), Zeitschr. f. Nat. lxi, 1888, 512, xi, 40.
 ——— **calcar** (Linné). Parker & Jones, Annals Mag. N. H. [2], xix, 1857, 289, x, 10-12 [*Nautilus*, 1758].
 ——— ——— *Ibid.* 2, xix, 1857, 289, x, 1 and 2 [= *Tragulina*].
 ——— ——— Williamson, Recent British Foram. 1858, 25, ii, 52-55, "52 and 53 typica" [52, 53 = *C. rotulata*].
 ——— ——— v. **oblonga**, Williamson. *Ibid.* 1858, 28, ii, 55 [compare *Marg. wetherellii*].
 ——— ——— v. **rotifer**, Williamson. *Ibid.* 1858, 28, ii, 54.
 ——— ——— var. Williamson, Pop. Sci. Rev. iv, 1865, 174, viii, 7.
 ——— (Robul.) ——— v. **cultrata**, Montf. Hantken, Magyar. Földt. Társ. Munkálatai, iv, 1868, 93, ii, 31a, b [*Robulus*, 1808].
 ——— ——— P., J. & B. [Soldani] Ann. Mag. Nat. Hist. [4], viii, 1871, 242, x, 91 [see *Robulina aculeata*, d'O.].
 ——— ——— *Ibid.* 243, x, 92 [see *Robulina rotundata*, d'O.].
 ——— ——— *Ibid.* 241, x, 93 [see *Rob. radiata*, d'O.].
 ——— ——— *Ibid.* 241, x, 94 [see *Rob. pulchella*, d'O.].
 ——— ——— *Ibid.* 241, x, 95 [see *Rob. lavigata*, d'O.].
 ——— ——— Terquem, Ess. Anim. Plage Dunkerque, (1), 1875, 23, I, 12 (and Mém. Soc. Dunkerquaise).
 ——— ——— var. **cultrata**, d'Orb. Toula, Mitth. geogr. Ges. Wien, xviii, 1875, 165, pl., 16 [*Robulus*, 1808].

- CRISTELLARIA calcar** (Linné), var. Terquem, Ess. Anim. Plage Dunkerque, (3), 1881, 117, xiii, 22a, b (and Mém. Soc. Dunkerquoise).
 _____ Brady, Report Challenger, 1884, 551, lxx, 9-15.
 _____ Agassiz, Three Cruises "Blake," II, 1888, 166, f. 507.
 _____ Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 224, xliv, 14.
 _____ Soldani, Testac. 1789, I, (1), 54, pl. 33, C, E, aa, bb, mm, nn, = this form. See also *Nautili diversæ speciei*.
 _____ see *Naut. dentati* and *Naut. echinati* and *Naut. circumradiati*.
 _____ v. *Antenor*.
 _____ v. *Clisiphontes*; *Rhinocurus*.
 _____ v. *Pharamum*.
 _____ v. *Nautilus*.
 _____ **calcata**, Schwager. Novara-Exped. Geol. II, 1866, 244, vii, 88.
 _____ **caligula**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 39, iv, Badener Schicht, 9.
 _____ **callifera**, Stache. Novara-Exped. Geol. I, 1864, 236, xxiii, 15a, b.
 _____ **candonensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 292, No. 18.
 _____ **carantiana**, d'Orbigny, 1847. Prodrome de Paléont. II, 1850, 185, No. 752.
 _____ **carinata** (d'O.). P., J. & Brady, [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 178, x, 83 [v. *Soldania*, 1826].
 _____ Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, IX, 1875, 116, i, 10.
 _____ **carinato-costata**, Deecke. Abh. geol. Specialkarte Elsass-Lothr. IV, (1), 1884, 43, ii, 5, 5a.
 _____ **cassiana**, Gümbel. Jahrb. k. k. geol. Reichsanstalt, XIX, 1869, 177, v, 2 and 3.
 _____ **cassidata**, Montf. See *Linthuris*.
 _____ **cassis** (Fichtel & Moll). D'Orbigny, Modèles, No. 83, and young No. 44, 1826 [v. *Nautilus*, 1798].
 _____ Lamarck (*C. papillosa*), Ency. Méthod. "Vers," II, (1830), 29, (pls. 1827), (P. & J. quote 1816), 467, f. 3 a-d.
 _____ [d'Orb.]. Cuvier, Règne Animal, 1836-46, IX, (pls. x), 33, xv, 1.
 _____ [Lamarck]. D'Orbigny, Foram. Fossiles Vienne, 1846, 91, iv, 4-7.
 _____ Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, II Verzam. 3 dl. 2 stk. 1847, 13, i, 5.
 _____ Jones & Parker, Quart. Journ. Geol. Soc. XVI, 1860, XX, 41.
 _____ Suess, Boden Stadt Wien, 1862, 45, f. 1³.
 _____ Parker, Jones & Brady [d'O., Modèles 44], Ann. Mag. Nat. Hist. [3], XVI, 1865, 26, i, 45.
 _____ P., J. & B. [d'O., Modèles 83], *ibid.* [3], XVI, 1865, 32, i, 44.
 _____ P., J. & B. [Soldani], *ibid.* [4], VIII, 1871, 244, x, 86.
 _____ P., J. & B. [Soldani], *ibid.* [4], VIII, 1871, 244, x, 87 [see *C. soldanii*, d'O.].
 _____ (feeble). P., J. & B. [Soldani], *ibid.* [4], VIII, 1871, 244, x, 88 [see *C. nitida*, d'O.].
 _____ (young), P., J. & B. [Soldani], *ibid.* [4], VIII, 1871, 240, x, 89 [see *Robulina marginata*, d'O.].
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 ——— cilo, Stache. Novara-Exped. Geol. I, 1864, 234, xxiii, 13a, b.
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 ——— **cinctella**, Terquem. Sixième Mém. Foram. Lias, 1866, 516, xxii, 6a, b.
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 ——— **collarifera**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 136, vii, 24.
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 ———— (**Marg.**), **cylindræa**, Karrer. Jahrb. k. k. geol. Reichsanstalt, XX, 1870, 177, II, 7 [*C. cylindræa* in "Erklärung"].
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 ———— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 41, v, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 49, same pl. and fig.
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- **dentata**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 348, i, 1.
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- **denticulata**, Rss. Verstein. Böhm. Kreide, 1845-6, i, 33, viii, 12.
- **depauperata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 66, vi, 67, 68; viii, 90*a*, b.
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- **dewalquei**, Reuss. Bull. Ac. Roy. Belg. [2], xv, 1863, 149, ii, 22, 23.
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- **dilecta**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 71, vii, 12*a*, b.
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- **dimorpha**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 148, iii, 16.
- **dimorpha**, Toutkowsky. Zap. Kievsk. Obsch. Est. IX, 1888, 26, IV, 1, 2, 3.
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- **eximia**, Reuss. *Ibid.* XLVIII, (1), 1863 (1864), 52, v, 56a, b.
- **falcata**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 93, v, 19; and Bol. Com. Map. Geol. Españ. VII, 1880, 276, F, 5.
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- **fenestrata**, Terquem. Cinquième Mém. Forain. Lias, 1866, 437, xviii, 4a, b.
- **flosa**, Terquem. Sixième Mém. Forain. Lias, 1866, 517, xxii, 8a, b.
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- **fiabellina**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 11, i, 25 [= *C. crepidula*].
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- **foliacea**, Marsson. *Mitth. Nat. Ver. Neu-Vorpommern u. Rügen*, x, 1878, 143, ii, 18a, b, c.
- **fraasi**, Gümbel. *Sitz. k.-bayer. Ak. Wiss.* I, 1871, 67, i, 12.
- **fraasi**, Schwager. *Jahresh. Ver. vat. Nat. Württ.* XXI, 1865, 123, v, 10, aff. ———— *Deecke, Abh. geol. Specialkarte Elsass-Lothr.* IV, (1), 1884, 41, ii, 11.
- ———— *Deecke, Mém. Soc. Emul. Montbéliard*, XVI, 1886, [32], ii, 24.
- **fragaria**, Gümbel. *Hantken, A magy. kir. földt. int. évkönyve*, IV, 1875 (1876), 46, vi, 1, 2 and 3; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, IV, 1875 (1881), 53, same pl. and fig. [v. *Marginulina*, 1868].
- ———— *Jones, M. Micr. Journ.* XV, 1876, cxxix, 4.
- **franconica**, Gümbel. *Jahresh. Ver. vat. Nat. Württ.* XVIII, 1862, 225, iii, 27a, b, c.
- **furcifera**, Terquem. *Sixième Mém. Foram. Lias*, 1866, 510, XXI, 29a, b.
- **galea**, Lamarck. *Ency. Méthod. "Vers,"* II, (1830), 31, (pls. 1827), (P. & J. quote 1816), 467, f. 6.
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- ———— *Reuss, Denkschr. k. Ak. Wiss. Wien*, XXV, 1865, 141, iii, 8.
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- — — **turbiniformis**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 242, x, 9a, b, c.
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- — — **turgida**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 127, vi, 4.
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 ——— *undata* (**C. papillosa**), Lamarck. Ency. Méthod. "Vers," II, (1830), 29, (pls. 1827), 467, f. 5 (P. & J. quote pt. 23, 1816)
 ——— *undulata*, Karrer. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 348, i, 2.
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- CYSTEODICTYINA compressa**, Carter. Ann. Mag. Nat. Hist. [5], v, 1880,
 448, xviii, 5a-e [one of the *Testamæbiformiæ*; Brady, Report Challenger,
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 mas, Comptes Rendus, LXXXV, 1877, 815; and Solms-Laubach, Einleitung
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 ———— Pictet, Traité de Paléont. ed. 2, iv, 1857, 484, cix, 4.
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 257, xxxv, 26a-c [*Polytrypa*, 1820].

- DACTYLOPORA eruca**, Parker & Jones. *Annals Mag. Nat. Hist.* [3], v, 1860, 473.
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- **miocenica brevis**, Karrer. *Abh. k. k. Geol. Reichs.* ix, 1877, 377, xvii, 13*a*.
- **miocenica crassa**, Karrer. *Ibid.* ix, 1877, 377, xvii, 13*c*.
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- Bütschli, in Bronn, *Klassen*, etc., *Thier-Reichs*, 1880, 224, xiii, 4-7.
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- DACTYLOPORELLA**, Gümbel. *Abh. k.-bayer. Ak. Wiss. München*, xi, 1871, (1874), 231, etc., plates [= *Dactylopora*, q. v.]. [The species described are *D. cylindracea*, Lam.; *D. elegans*, Gümb.; *D. miocenica*, Karr.; *D. saccata*, Gümb.].
- DAUCINA**, G. Bornemann, 1855. *Erman's Arch. wiss. Kunde Russland*, xiv, 1855, 153.
- **ermaniana**, Bornemann. *Ibid.* xiv, 1855, 154, i, 5-15 [= *Glandulina*].
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- **antillarum**, d'Orbigny. *Ibid.* vii, 1826, 285, No. 3.
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- **arbuscula**, d'O. *Ann. Sci. Nat.* vii, 1826, 285, No. 1, xv [vi in text, by error], 6 and 7 [v. *Peneroptis*].
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- Bronn, *Klassen Ordn. Thier-Reichs*, (1), 1859, 71, vi, 12*a, b*.
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- Terquem, *Mém. Soc. Géol. France*, [3], II, 1882, 51, iii (xi), 1*a, b*.
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- **juleana**, d'Orbigny. *Ibid.* 1846, 134, vii, 3, 4 [v. *Spirolina*].
- **lævigata**, Terquem. *Mém. Soc. Géol. France*, [3], II, 1882, 51, iii (xi), 2, 3.
- **lævis**, Costa. *Atti Accad. Pontaniana*, vii, (2), 1856, not descr., xx, 4.
- **rangii**, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 285, No. 2.
- Pictet, *Traité de Paléont.* iv, 1846, 230, xii, 13.
- Carpenter, Parker & Jones, *Introd. Foram.* 1862, 84, vii; figs. xx and xxi in text [= *Peneroptis*].

- DENDRITINA**, Carpenter, Ency. Brit. ed. 9, ix, 1879, Foraminifera, 377, f. 9.
 — Bütschli in Broun, Klassen, etc., Thier-Reichs, 1880, 191, iv, 24.
 — see *Peueroplis* and *Spiroolina*.
- DENDROPELA**, de Folin, 1882. Congrès Scient. Dax, 1882 (1883), 328 [not described].
- DENDROPHRYA**, Strethill Wright, 1861. Ann. Mag. Nat. Hist. [3], VIII, 1861, 122; Brady, Report Challenger, 1884, 237.
 — **erecta**, Str. Wright. Ann. Mag. Nat. Hist. [3], VIII, 1861, 122, iv, 4 and 5.
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 — — — — — Möbius, Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), 13, ii, 22-27.
- DENTALEN, ANTALEN** or **BUCCINOS**, Ledermüller. Mikrosk. Ergötzung. 1763, 8, iv, o, p. 1764; see also "Amusem. Microscop." same references; [= *Margulinæ*].
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- **elegantissima**, d'Orbigny. Foram. Fossiles Vienne, 1846, 55, ii, 33-35.
- **elongata**, Costa. Atti Accad. Pontaniana. vii, (2), 1856, not descr., xvi, 19.
- **emaciata**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 63, iii, 9 [*Nodos. consobrina*, var.].
- **ensis**, Eichwald. Lethæa Rossica, iii, 1853, 9, i, 6a.
- **eruciformis**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 106, iii, 12.
- **evulsa**, Terquem. Sixième Mém. Foram. Lias, 1866, 486, xix, 28.
- **expansa**, Reuss. Sitz. k. Ak. Wiss. Wien, xl, 1860, 188, iii, 4.
- **extensa**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 102, ii, 21.
- **faciata**, Seguenza. Atti Accad. Gioenia Sci. Nat. (2), xviii, 1862, 96, i, 1.
- **farcimen** (Sold.). Reuss, Bull. Ac. Roy. Belg. [2], xv, 1863, 146, i, 18 [*Orthocera*, 1789].
- ———? Bornemann, Jahrb. k. pr. geol. Landesanstalt, 1885 (1886), 292, xiii, 2.
- **fasciata**, Terquem. Sixième Mém. Foram. Lias, 1866, 485, xix, 25.
- **ferstliana**, Czjzek. Hardinger's Nat. Abh. ii. 1848, 140, xii, 10-13.
- **ferussaci**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 255, No. 42 [v. also *Nodosaria*].
- **flicosta**, Terquem. Mém. Soc. Géol. France, [3], i, 1878, 13, i (vi), 4.
- **fliformis** (d'Orbigny) P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 156, ix, 48 [*Nodosaria*, 1826].
- ——— Brady, Proc. Somerset. Arch. & Nat. Hist. Soc. xiii, 1865-6 (1867), 224, i, 16.
- **fliformis**, Reuss? Reuss, Sitz. k. Ak. Wiss. Wien, xi, 1860, 188, iii, 8.
- **filipendula**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 607, ii, 20-*id.*
- **flocincta**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 107, iii, 13.
- **fissicostata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 626, i, 46.
- ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 31, iii, 19; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 37, same pl. and fig.
- **flexuosa**, d'Orbigny. P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 158, ix, 53 [*Nodosaria*, 1826].

- DENTALINA foscuala**, d'Orbigny. Foram Fossiles Vienne, 1846, 50, ii, 16, 17.
 ——— see *Orthoceratia foscuali*.
- **foedissima**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 189, iii, 2, 3 [v. also *Haplophragmium* and *Haplostiche* and *Litvolina*].
- **fontannesi**, Berthelin. Mém. Soc. Géol. France, [3], 1, 1880, 42, ii (xxv), 14a-16b
- **fortinensis**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 358, xxvi, 13-19; 361, xxvii, 1.
- ——— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 13, i, 32 and 33.
- **fraasi**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 110, iii, 24.
- **fragilis**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 605, ii, 17.
- **funiculosa**, Terquem. Sixième Mém. Foram. Lias, 1866, 486, xix, 29.
 ——— Tate & Blake, Yorkshire Lias, 1876, 461, xviii, 28.
- **funiculus**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 100, ii, 18.
- ——— Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [21], ii, 12.
- **funiculus**, P. Fischer. Les fonds de la mer, II, 1875, 195, ix, 9. [There is no figure on plate ix: the "species" is said to be near *D. inornata*, d'Orb.]
- **fusififormis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 99, ii, 16.
- **fusififormis**, Gümbel. Geogn. Beschreibung Koenigsr. Bayern, I, 1861, 671.
- ——— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 621, i, 35a, b.
- **geinitzana**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, (2), 1856, 91, iv, 15.
- **geniculata**, Terq. & Berth. Mém. Soc. Géol. France, [2], x, 1875, 32, ii (xii), 22.
- **geniculosa**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 104, ii, 27.
- **gibbosa**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 167, xii, 7.
- **gigantea**, Hantken. A magy kir. földt. int. évkönyve, IV, 1875 (1876), 29, iii, 15; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 34, same pl. and fig.
- ⊖ ——— **gigantea**, Alth. Pamietnik Akad. Umiej. Krakowie, VI, 1881, 133, xii, 24.
- ⊖ ——— ——— Alth, Mojsisovics und Neumayr's Beiträge Pal. Oest.-Ungarn, I, 1882, 316, xxix, 24.
- **girardana**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 224, i, 6.
- **glandifera**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 622, i, 37.
- **glandulosa**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 440, v, 15a, b.
- ——— Tate & Blake, Yorkshire Lias, 1876, 440, xix, 2.
- **gliricauda**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 624, i, 41.
- **globifera**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 223, i, 3.
- **globulicauda**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 623, i, 38.
- **globuligera**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, (2), 1856, 81, ii, 10.
- **goldfussana**, Gümbel. Jahresh. Ver. vat. Nat. Württ. XVIII, 1862, 218, iii, 11a, b.
- **gomphoides**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, not descr., xxvii, 24 and 25.
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 11 [*?Nod. obliqua*, d'Orb.].
- **gracilis**, d'Orbigny. Mém. Soc. Géol. France, [1], IV, 1840, 14, i, 5; Facsimile in Science Gossip, 1870, 81, f. 78 [v. also *Nodosaria*].
- ——— Alth, Haidinger's Nat. Abh. III, (2), 1850, 269, xiii, 27.

- DENTALINA gracilis**, d'Orbigny. Jones, Geologist, vi, 1863, 295, xv, 23, 24.
 ———— Cooke, Thousand Objects Microsc. 1869, 89, ix, 2.
 ———— **gracilis**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, n. d., xii, 26 [also called *D. nitens*, Costa].
 ———— **granulosa**, v. d. Marck. Verh. nat. Ver. preuss. Rheinl. xv, 1858, 56, i, 13 [quoted as *Dent.* sp. in text, said to be near *Spirolina agglutinans* = possibly a *Haplophragmium*].
 ———— **guembeli**, Hantken. A magy kir földt. int. évkönyve, iv, 1875 (1876), 32, iv, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 38, same pl. and fig.
 ———— **guembeli**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 101, ii, 20.
 ———— ———— Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886, (20), i, 14.
 ———— **guttifera**, d'Orbigny. Foram. Fossiles Vienne, 1846, 49, ii, 11-14 [error for 11-13].
 ———— ———— Brady, Annals & Mag. Nat. Hist. [4], vi, 1870, 296, xii, 2.
 ———— ———— Terquem, Ess. Annu. Plage Dunkerque, (2), 1876, 69, vii, 14 (& Mem. Soc. Dunkerquoise).
 ———— ———— *Ibid.* (3), 1881, 112, xiii, 7, 10-12 (& Mem. Soc. Dunkerquoise).
 ———— **gyrosa**, Terquem. Cinquième Mém. Foram. Lias, 1866, 407, xv, 10.
 ———— **haidingeri**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856, 85, iii, 12.
 ———— **hamulifera**, Reuss. Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 42, ii, 17.
 ———— **haueri**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856, 81, ii, 12.
 ———— **hemisphaerica**, Terquem. Mém. Ac. Imp. Metz, xliv, 1863, 393, vii, 8a, b, c.
 ———— **herculea**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 621, i, 34.
 ———— **hilseana**, Reuss. Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 41, ii, 14.
 ———— **hoernesi**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856, 89, iv, 10.
 ———— **hoernesi**, Hantken. A magy kir földt. int. évkönyve, iv, 1875 (1876), 31, iv, 2; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 37, same pl. and fig. [*Nodosaria* (*Dent.*), 1868].
 ———— ———— Jones, in Micr. Journ. xv, 1876, cxxix, 1b.
 ———— **imbecilla**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 103, ii, 25.
 ———— (aff.) ———— Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886, [20], i, 3.
 ———— **incerta**, Terquem. Mém. Soc. Géol. France, [3], iv, 1886, 15, i, 41 and 42.
 ———— **indifferens**, Reuss. Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 44, ii, 15, 16.
 ———— **inepta**, Reuss. *Ibid.* xlvi, (1), 1862 (1863), 39, ii, 13.
 ———— **inermis**, Czjzek. Haidinger's Nat. Abh. ii, 1848, 139, xii, 3-7.
 ———— **ingens**, Terquem. Mém. Ac. Imp. Metz, i, 1870, 361, xxvii, 5.
 ———— **inornata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 44, i, 50 and 51.
 ———— ———— Reuss, Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 45, ii, 18.
 ———— ———— Schlumberger, F. Jenn. Nat., Jan., 1882, i, 8.
 ———— ———— Terquem, Mém. Soc. Géol. France, [3], ii, 1882, 37, i (ix), 41 and 42.
 ———— aff. ———— Schwager, Palæontographica, xxx, 1883, Pal. Theil., 107, xxvi, (3), 3a, b.
 ———— ———— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 750, xv, 8.
 ———— ———— see *Orthoceratia levia*.
 ———— **interlineata**, Reuss. Zeitschr. deutsch. geol. Ges. vii, 1855, 287, xi, 2 [v. also *Nodosaria*].
 ———— **intermedia**, Cornuel. Mém. Soc. Géol. France, [2], iii, 1848, 251, i, 20.

- DENTALINA intermedia**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 186, li, 8.
 ——— **intermedia**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 25, iii, 4 and 8; and Mith. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 30, same pl. and fig.
- **intermittens**, Bronn. Index Palæont. I, 1848, 411 = *Nodosaria*, Roemer.
 ——— Reuss, Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 224, I, 7.
 ——— Gümbel, Geol. Bayern, I, (II), 1885, f. 266, 10.
- **interrupta**, d'Orbigny. P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 155, ix, 51 [v. *Nodosaria*].
- **intorta**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 364, xxvii, 26-34.
- **irregularis**, Costa. Atti Accad. Pontauiana, VII, (2), 1856, ivi, xxvii, 15.
 ——— *Ibid.* VII, (2), 1856, 166, xii, 23 and 27 [27 is *D. bifurcata* in descr. to plate].
- **irregularis**, Eichwald. Lethæa Rossica, III, 1853, 9, i, 6b.
- **irregularis**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 442, v, 21.
 ——— Terquem, Cinqüième Mém. Foram. Lias, 1866, 409, xv, 13.
 ——— Deecke, Abh. geol. Specialkarte Elsass-Lothr. IV, (1), 1884, 25, i, 10.
- **jugosa**, Williamson. Terquem, Ess. Anim. Plage Dunkerque, (1), 1875, 21, i, 7 (& Mém. Soc. Dunkerquoise) [v. *D. subarcuata*].
- **juncea**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 362, xxvii, 1 and 2.
- **jurensis**, Terquem. *Ibid.* LI, 1870, 362, xxvii, 6-16
 ——— Terquem, Mém. Soc. Géol. France, [3], IV, 1886, 14, i, 36.
- **kingii**, Jones. Jones in King, Pal. Soc. 1850, 17, vi, 2 and 3.
 [kingi] ——— Geinitz, Dyas, etc. 1861. (1), 122, xx, 33.
- **konincki**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 356, i, 3.
 ——— var. **tumida**. Reuss, Bull. Ac. Roy. Belg. [2], xv, 1863, 146, i, 19
- **korynephora**, Gümbel. Jahrb. k. k. geol. Reichsanstalt, xix, 1869, 176, v, 3.
- **lævigata**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 106, iii, 7 [*levigata* in text].
- **lamarcki**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, (2), 1856, 91, iv, 16a, b.
- **lamellosa**, Terquem. Cinqüième Mém. Foram. Lias, 1866, 410, xv, 16a, b.
 ——— Terq. & Berth., Mém. Soc. Géol. France, [2], x, 1875, 29, ii (xii), 12a-c.
- **lateralis**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 605, ii, 15a-c.
- **legumen**, Linn. Williamson, Recent British Foram. 1858, 21, ii, 45-49, "45 typica" [*Nautilus*, 1758, v. *Vaginulina*].
 ——— v. **linearis**, Montagu. *Ibid.* 1858, 23, ii, 46-48 [*Nautilus*, 1808].
 ——— var. Williamson, Pop. Sci. Rev. IV, 1865, 174, viii, 6.
 ——— Chimmö, Bed of Atlantic, 1870, 26, ix, 6 [= *Nod. scalaris*].
- **legumen**, Reuss. Haidinger's Naturw. Abh. IV, (1), 1851, 26, i, 14 [*Nodosaria*, 1845].
 ——— Reuss, Sitz. k. Ak. Wiss. Wien, XI, 1860, 187, iii, 5.
- **leubeana**, Gümbel. Sitz. k.-bayer. Ak. Wiss. I, 1871, 64, i, 5 [? a sponge spicule].
- **levigata**, Schwager. See *D. lævigata*.
- **linearis**, (Röm.). Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 42, ii, 15 [*Nodosaria* 1840].
 ——— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 622, i, 36a, b.
- **linearis**, Will. Terquem, Ess. Anim. Plage. Dunkerque, (3), 1881, 113, xiii, 13 (& Mém. Soc. Dunkerquoise) [v. *D. legumen*, var.].
- **lineata**, Reuss. Sitz. k. Ak. Wiss. Wien, L, (1), 1864 (1865), 456, iv, 11.
- **lilli**, Reuss. Haidinger's Naturw. Abh. IV, (1), 1851, 25, i, 11.
- **longicauda**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 267, viii, 12.
- **lorneiana**, d'Orbigny. Mém. Soc. Géol. France, [1], IV, 1840, 14, i, 8, 9; Facsimile in Science Gossip, 1870, 81, f. 80 [v. also *Nodosaria*].

- DENTALINA lorneiana**, d'Orbigny. Reuss' Model, No. 66, 1865 (Catal. No. 41, 1861).
- **lutigena**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 102, ii, 22; iii, 10.
- **marcki**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 188, ii, 7.
- **margarita**, Terquem. Cinquième Mém. Foram. Lias, 1866, 408, xv, 11*a*, *b*.
- **marginata**, Stache. Novara-Exped. Geol. (1), 1864, 207, xxii, 35*a*.
- **marginuloides**, Reuss. Haidinger's Naturw. Abh. IV, (1), 1851, 25, i, 12.
- **marsupifera**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 110, iii, 27; iv, 7 and 9.
- **martini**, Terq. & Piette. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 454, vi, 14.
- **matutina**, d'Orb., 1849. D'Orbigny, Prodrôme de Paléont. I, 1849, 242, No. 259.
- ——— Terquem, Mém. Ac. Imp. Metz, XXXIX, 1858, 602, ii, 11*a*, *b* and 16.
- **mauritii**, Terquem. Cinquième Mém. Foram. Lias, 1866, 408, xv, 12*a*, *b*, *c*.
- ——— Terq. & Berth., Mém. Soc. Géol. France, [2], x, 1875, 24, i (xi), 28.
- **medio-lata**, Dunikowski. Kosmos [Lemberg], IV, 1879, 107, plate, 8.
- **megalopolitana**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 267, viii, 10.
- **metensis**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 602, ii, 10*a*, *b*.
- **microptycha**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 365, i, 4.
- **mitis**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 28, ii, (xii), 9*a-c*.
- **minutissima**, Zwingli & Kübler. Foraminif. schweiz. Winterthur, 1870, 25, iii, 11.
- **monile**, Cornuel. Mém. Soc. Géol. France, [2], III, 1848, 250, i, 18.
- [**monilis**] ——— Tate & Blake, Yorkshire Lias, 1876, 459, xviii, 27.
- **monile**, v. Hag. Reuss, in Geinitz, Grundr. Verstein, 1845-46, 654, xxiv, 7 [v. *Nodosaria*].
- ——— Alth, Haidinger's Nat. Abh. III, (2), 1850, 269, xiii, 28.
- **mucronata**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, (2), 1856, 83, iii, 8-11 [v. also *Nodosaria*].
- **multicostata**, d'Orbigny. Mém. Soc. Géol. France, [1], IV, 1840, 15, i, 14 and 15. Facsimile in Science Gossip, 1870, 81, f. 82.
- ——— Mangin, Mystères Océan, 1864, 177, f. 2.
- ——— Brady, Carbonif. Foram. Pal. Soc. XXX, 1876, 129, x, 19.
- **multicostata**, Terquem. Sixième Mém. Foram. Lias, 1866, 488, xix, 32.
- **multilineata**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 325, xiii, 12.
- ——— Sherborn & Chapman, Journ. R. Micr. Soc. [2], VI, 1886, 751, xv, 14.
- **multilineata**, Reuss. v. *Nodosaria* (Dentalina).
- **munsteri**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 225, i, 8.
- ——— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 625, i, 43.
- **mutabilis**, Bailey. Smithonian Contrib. II, 1851, 10, pl., 7.
- **mutabilis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 103, ii, 24.
- **nana**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 39, ii, 10 and 18.
- **nepos**, Costa. Mém. Acc. Sci. Napoli, II, 1855, (1857), 117, i, 21.
- **nicense**, Bellardi. Mém. Soc. Géol. France, [2], IV, 1847, 299, xv, 9, 10 [a misprint for Dentalium, see p. 229, where it is described].
- **nitens**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 165, xii, 26 [also called *D. gracilis*, Costa].
- **nodifera**, Terquem. Sixième Mém. Foram. Lias, 1866, 484, xix, 23.

- DENTALINA nodigera**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 25, i (xi), 31a, b.
- **nodosa**, d'Orbigny. *Ibid.* [1], iv, 1840, 14, i, 6 and 7. Facsimile in Science Gossip, 1870, 81, f. 79 [v. also *Nodosaria*].
- ———— Costa, Atti Accad. Pontaniana, vii, (2), 1856, 164, xii, 8.
- ———— P., J. & B. [Soldani]. Ann. Mag. Nat. Hist. [4], viii, 1871, 153, ix, 55 [see *Nodos.*]
- ———— Vanden Broeck, Ann. Soc. Belge Micros. ii, 1876, 89, ii, 10; and Fonds de la Mer, iii, (1876).
- ———— Tate & Blake, Yorkshire Lias, 1876, 459, xviii, 26.
- **notabilis**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 31, ii (xii), 19 a, b.
- **nummulina**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 626, i, 45.
- ———— Tate & Blake, Yorkshire Lias, 1876, 461, xviii, 30.
- **obesa**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr., xxvii, 13.
- **obliqua**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 254, No. 36. Modèles, 1826, No. 5 [v. *Nodosaria*].
- **obliqua** (Linn.). Brady, Proc. Somerset. Arch. & Nat. Hist. Soc. xiii, 1865-6 (1867), 224, i, 17 [*Nautilus*, 1758].
- ———— J., P. & B., Crag Foram. Pal. Soc. xix, 1866, 54, i, 9.
- ———— P., J. & B. [Soldani]. Ann. Mag. Nat. Hist. [4], viii, 1871, 160, ix, 57 [see *Nod. (Dent.) curvieri*, d'O.].
- ———— v. **sulcata**, Nilsson. Vanden Broeck, Ann. Soc. Belge Micros. ii, 1876, 80, ii, 10 [error for 11]; and Fonds de la Mer, iii, (1876) [*Nodosaria*, 1827].
- ———— [Lam.] Koenen, Abh. k. Ges. Wiss. Göttingen, xxxii, 1885, 110, v, 21a, b.
- **obliqua**, Wright. Proc. Belf. Nat. F. C. 1879-80, App. 207.
- **obliquata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 46, ii, 25.
- **obliquestriata**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 63, iii, 11 and 12 [v. also *Nodosaria*].
- ———— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 240, xxxv³, 1.
- ———— J., P. & B., Crag Foram., Pal. Soc. xix, 1866, 56, i, 19.
- ———— Tate & Blake, Yorkshire Lias, 1876, 460, xix, 4.
- ———— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 751, xv, 15 (compare *Nautilus obliquatus*, Batsch).
- ———— see *Orth.*, *sen tubuli*, etc.
- **obliquesuturata**, Stache. Novara-Exped. Geol. (1), 1864, 207, xxii, 36.
- **obscura**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 597, ii, 2a, b.
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- ———— Terquem, Sixième Mém. Foram. Lias, 1866, 485, xix, 26 and 27.
- ———— Terq. & Berthelin, Mém. Soc. Géol. France, [2], x, 1875, 24, i (xi), 30a-f.
- **vasarhelyii**, Hantken. A magy. kir. földt. int. évkönyve iv, 1875 (1876), 30, iv, 1 [error for 4]; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 36, same pl. and fig. 4 [*Nodosaria*, 1868].
- **vermicularis**, Terquem. Sixième Mém. Foram. Lias, 1866, 483, xix, 21.
- **veruniformis**, Terquem. Mém. Ac. Imp. Metz, li, 1870, 365, xxviii, 3.
- **verneuilii**, d'Orbigny. Foram. Fossiles Vienne, 1846, 48, ii, 7, 8.
- [**verneuilii**], ———? Bornemann, Zeitschr. deutsch. geol. Ges. vii, 1855, 324, xiii, 8.
- [**verneuilii**] ———— Hantken, A magy. kir földt. int. évkönyve, iv, 1875 (1876), 26, iii, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 32, same pl. and fig.
- ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 179, ii, 15.
- **vertebralis** (Batsch). Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 752, xiv, 39a, b [*Nautilus*, 1791, and *Nodosaria*].

- DENTALINA verticalis**, Stache. Novara-Exped. Geol. (1), 1864, 202, xxii, 28a, b.
- **vetusta**, d'Orb., 1849. D'Orbigny, Prodrome de Paléont. 1, 1849, 242, No. 258.
- ——— Terquem, Mém. Ac. Imp. Metz, xxxix, 1858, 598, ii, 4a, b.
- **vetustissima**, d'Orb., 1849. D'Orbigny, Prodrome de Paléont. 1, 1849, 242, No. 261.
- ——— Terquem, Mém. Ac. Imp. Metz, xxxix, 1858, 600, ii, 8.
- ——— Terq. & Berthelin, Mém. Soc. Géol. France, [2], x, 1875, 24, i (xi), 29a, b.
- **virgata**, Terquem. Sixième Mém. Foram. Lias, 1866, 489, xx, 2.
- **xiphioides**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 43, iii, 1.
- **zsigmondyi**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 27, xii, 17; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 32, same pl. and fig.
- sp. Costa. Atti Accad. Pontaniana, VII, (2), 1856, xii, 28.
- sp. ind. Stache, Novara-Exped. Geol. (1), 1864, 204, xxii, 30; 209, xxii, 39; 210, xxii, 41.
- sp. Schwager, Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 105, ii, 28; iii, 2, 29 and 30; iv, 2-5, 8.
- sp. ind. Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 28, iii, 11; xii, 18; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 34, same pl. and fig.
- sp. Terrigi, Atti. Acc. Pont. Nuovi Lincei, xxxv, 1883, 180, ii, 16.
- P ——— Pilla, Distiug. terr. Etruria, 1846, 103. i. 3.
- Williamson, Mem. Lit. Phil. Soc. Manchester, [2], VIII, 1848, 78, pl., 69, 70, 72 [69 = *Marg. raphanus*].
- P ——— Jones in King, Pal. Soc. 1850, 17, vi, 4.
- Costa, Mem. Acc. Sci. Napoli, II, 1855 (1857), 142, i, 14, 15, 19, 20 [gutta], 25, 26, 29-33, 35, 36.
- Costa, Atti. Accad. Pontaniana, VII, (2), 1856, not descr., xvi, 20 and 21.
- v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, plates viii-x and xxxviii.
- Terq. & Berth., Mém. Soc. Géol. France, [2], x, 1875, 27, ii (xii), 7, a-j, [fragments].
- v. Dunikowski. Denkschr. k. Ak. Wiss. Wien, XLV, (2), 1882, 194, vi, 71, fragment.
- Bornemann, Jahrb. k. pr. geol. Landesanstalt, 1885 (1886), 292, xiii, 1a.
- de Folin, Le Naturaliste, ix, 1887, 140, f. 20a.
- Neumayr, Stamme d. Thierreiches, I, 1889 (8), 183, f. 25c.
- see *Nodosaria*.
- DENTALINOPSIS**, Reuss, 1860. Sitz. k. böhm. Gesell. Wiss. Jahrg. 1860, Jan.-Juni, 91.
- **semitriquetra**, Reuss. *Ibid.* 1860, Jan.-Juni, 92.
- ——— Reuss' Model. No. 28, 1865 (Catal. No. 52, 1861) [= triangular *Dentalina*].
- **subtriquetra**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 57, v, 6a, b.
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 10.
- DEXIOPORA**, Ehrenberg, 1858. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 309.
- **borealis**, Ehr. *Ibid.* 1872, 282.
- **hexarchæa**, Ehr. *Ibid.* 1858, 309 and 337, I, f. xi, a, b [glauconite], [? Rotaline].
- P ——— **megapora**, Ehr. *Ibid.* 1861, 304.
- **triarchæa**, Ehr. *Ibid.* 1858, 309 and 337, I, f. x [glauconite] ["may be *Globigerina*," P. & J.]
- DIAPHOROPODON**, Archer, 1869. Quart. Journ. Micr. Sci. n. s. IX, 1869, 394, xx, 6 and x, 1870, 123 [*D. mobile*] [one of the *Gromiæ*].
- DICYCLINA**, Munier-Chalmas, 1887. Comptes-Rendus Sommaire Soc. géol. France, No. 7, 21 Fév., 1887, xxx.
- **schlumbergeri**, Mun.-Ch. *Ibid.* xxxi, no fig. ["Couches moyennes à *Hippurites* de l'Étang de Berre."]

- DIMORPHINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 264; see Brady, Parker & Jones, Trans. Linn. Soc. xxvii, 1870, 248.
- **compacta**, Brady, Parker & Jones. Trans. Linn. Soc. xxvii, 1870, 250, xlii, 41.
- **corallensis**, Buvignier. Stat. géol., etc., Meuse, 1852, Atlas, 47, xxxii, 35.
- **elegans**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 54, vii, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 63, same pl. and fig.
- **inflata**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr., xv, 11.
- **inflexa**, Alth. Pamietnik Akad. Umiej. Krakowie, vi, 1881, 133, xi, 18.
- ——— Alth, Mojsisovics und Neumayr's Beiträge Pal. Oest.-Ungarn, i, 1882, 315, xxviii, 18.
- **mosensis**, Buvignier. Stat. géol. etc., Meuse, 1852, Atlas, 47, xxxii, 29.
- **nodosaria**, d'Orbigny. Foram. Fossiles Vienne, 1846, 221, xii, 21 and 22.
- ——— J., P. & B. Crag Foram. Pal. Soc. xix, 1866, n. d., i, 55-58 and 61.
- **obliqua**, d'Orbigny. Foram. Fossiles Vienne, 1846, 220, xii, 18-20.
- ——— Broun, Lethæa Geognostica, ed. 3, iii, 1853-56, 231, xxxv², 26a, b, c.
- ——— Reuss' Model. No. 94. 1865 (Catal. No. 72, 1861).
- ——— B., P. & J., Trans. Linn. Soc. xxvii, 1870, 250, xlii, 40a-c.
- ——— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 25, pl., 36.
- **planularia**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 426.
- **saxipara**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 27 [= *Bisarina saxipara* (Ehr.)].
- ——— ? ——— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 176, vii, 10 (*Textil.*?) [= *Text. globulosa*].
- **strangulata**, Buvignier. Stat. géol. etc., Meuse, 1852, Atlas, 47, xxxii, 34.
- **striata**, Schwager. Novara-Exped. Geol. (2), 1866, 251, vii, 99, and fig. 2 [*v. Sagrina*].
- **tenella**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 426.
- **tuberosa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 264, No. 1.
- ——— D'Orb., Modèles, No. 60, 1826.
- ——— P., J. & B. [d'O., Modèles, 60], Ann. Mag. Nat. Hist. [3], xvi, 1865, 28, ii, 53.
- ——— J., P. & B., Crag Foram. Pal. Soc. xix, 1866, n. d., i, 66.
- ——— B., P. & J., Trans. Linn. Soc. xxvii, 1870, 249, xlii, 39a, b.
- ——— P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 170, xi, 108.
- ——— [Soldani]. Bassett, Ann. Soc. Sci. Charente-Inf. 1881 (85), 161, fig. see *Orthoceras tuberosum*.
- **tyraica**, Alth. Pamietnik Akad. Umiej. Krakowie, vi, 1881, 132, xii, 25.
- ——— Alth, Mojsisovics und Neumayr's Beiträge Pal. Oest.-Ungarn, i, 1882, 315, xxix, 25.
- **zittelli**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 95, v, 21; and Boll. Com. Map. Geol. Españ. vii, 1880, 278, F, 7.
- sp. Zittel, Handbuch Palæont. (1), 1876, 86, f. 23³.
- d'O. v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, plates xxvi, xxvii and xxx.
- DIOXEA richardi**, de Folin. Naturaliste, ix, 1887, 115, f. 11 [*v. Dyozeia*].
- DIPLOMASTA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 136, not described; 1 species proposed.
- DISCOCYCLINA**, Gümbel, 1868. Abh. k.-bayer. Ak. Wiss. x, (2), 1868 (1870), 687. This subgenus of *Orbitoides* was proposed by Gümbel for the following forms:—*D. papyracea* (Bouhée); *D. ephippium* (Schlotheim); *D. tenella*, Gümbel; *D. aspera*, Gümbel; *D. appianata*, Gümbel; *D. dispansa* (Sowerby).
- DISCOIDINA**, Terquem & Berthelin. Mém. Soc. Géol. France. [2], x, 1875, 15.
- **littorica**, Terq. & Berth. *Ibid.* [2], x, 1875, 15, i (xi), 5a, b.
- DISCOLITE** *microscopica*, a *superficie liscia*. Fortis, Opusc. Scelti Sci. Arti, xxii, 1803, 158, iii, 1-5 [1-4 *Nummulites*, 5 ?].

- DISCOLITE** nummiforme, piatta, che da ambo i lati mostra le spire e le concameragione. *Ibid.* XXII, 1803, 159, iii, 6a, b [*Nummulite*].
- [—] nummiforme, a superficie convessa a bottoni regolari formanti raggi e strati concentrici. *Ibid.* XXII, 1803, 159, iii, 7 and 8 [*Numm. scabra* ?].
- orbicolare, piatta con un bottoncino al centro ov' è depressa, etc. *Ibid.* XXII, 1803, 159, iii, 13 [*Alveolina*].
- ovale, piatta, con un incavo congitudinale, orlo ottuso. *Ibid.* XXII, 1803, 159, iii, 12 [? inorganic].
- a raggi prominenti rettilinei dal centro al margine. *Ibid.* XXII, 1803, 159, iii, 9-11 [*Orbit. stellata*, d'Arch.].
- sferica, longitudinale divisa in sei lobi, leggermente striata intorno. *Ibid.* XXII, 1803, 160, iii, 14-17 [14, 15 = *Alveol. ovoidea*; 16, 17, *Alveol. elongata* ?].
- DISCOLITES** concentricus, Montfort. *Conch. syst.* I, 1808, 187, 47 genere [= *Orbitolites complanatus*].
- DISCOLITHES**, Fortis. *Journ. de Physique*, LII, 1801, 106, etc., pl. II, 1-12 [= *Alveolinae*].
- Fortis, *Mém. Hist. Nat. Oryct. Italie.* etc. 1802, II, 5.
- DISCOLITHUS** ["chiefly *Nummulites*," v. d'Archiac and Haime].
- adamussim lenticularis, etc. *Ibid.* 1802, II, 101, i, u, o.
- lentiformis, lævis, etc. *Ibid.* 1802, II, 100, i, l, m.
- compactus, nec externa, nec interna cavitatum, etc. *Ibid.* 1802, II, 114, iii, 12-14, 3 var.
- compresse sphæroideus margine tenuissimo auctus. *Ibid.* 1802, II, 102, i, u, v.
- — — nullo margine auctus. *Ibid.* 1802, II, 102, i, s, t.
- centro vix prominulo, lævis, etc. *Ibid.* 1802, II, 98, i, e, f, g [= ? *Operculina*].
- exacte orbicularis, etc. *Ibid.* 1802, II, 111, iii, 4.
- lentiformis, etc. *Ibid.* 1802, II, 106, ii, M, N, O.
- minimus, lentiformis, superficie lineolis, etc. *Ibid.* 1802, II, 98, i, c, d [= *Nummulites*].
- — — superficie, lævi, lentiformis. *Ibid.* 1802, II, 98, i, a, b.
- nummiformis, etc. *Ibid.* 1802, II, 102, ii, A, B, C [= *Nummulites*].
- — — ad marginem papyraceus, etc. *Ibid.* 1802, II, 105, ii, K, L.
- — — papyraceus, etc. *Ibid.* 1802, II, 104, ii, F, G, H.
- — — centro prominulo. *Ibid.* 1802, II, 105, ii, I.
- — — superficie, regulariter verrucosa. *Ibid.* 1802, II, 106, ii, Q.
- — — irregulariter verrucosa, etc. *Ibid.* 1802, II, 107, ii, R.
- ovalis, etc. *Ibid.* 1802, II, 109, ii, Z, Z', Z² [= ? *Alveolina*].
- quadraginta-radiatus, etc. *Ibid.* 1802, II, 108, ii, Z [error for Y] [= *Nummulites*].
- radiatus, etc., four var. *Ibid.* 1802, II, 107, ii, S, T, U, V [= *Orbitoides stellata*].
- radii confertis dichotomis, etc. *Ibid.* 1802, II, 108, ii, X [= *Orbitoides stellata*].
- sphæricus gracilis apicibus, acutis. *Ibid.* 1802, II, 114, iii, 10 and 11 [= *Alveolina fusiformis*].
- sphericus in sex lobos divisus, etc. *Ibid.* 1802, II, 112, i*; iii, 6 [= *Alveolina melo*].
- sphæricus superficie undequaque lævi. *Ibid.* 1802, II, 102, i, x, y, z.
- sphæroideus oblongus. *Ibid.* 1802, II, 113, iii, 8c, d [v. *Alveolina sphæroidea* (Fortis) = *A. elongata*].
- superficie lævi, etc. *Ibid.* 1802, II, 101, i, p, q, r.
- — — utrinque assurgente, etc. *Ibid.* 1802, II, 99, i, h, i [= *Nummulites*].
- — — centrum versus depressa, etc. *Ibid.* 1802, II, 103, ii, D, E.
- utrinque convexus lineolis rectis, etc. *Ibid.* 1802, II, 99, i, j [= *Nummulites*].
- Fortis in *Ibid.* 1802, II, has the following figures which are undescribed: i**; ii J, P; iii, 1, 7, 9, 15-18 [p. 119]; iv a-e 1-8 [pieces of nummulitic rock; 1 is *Orbitoides*].

- DISCORBINA**. Parker & Jones, 1862. Carpenter, Parker & Jones, *Introd. Foram.* 1862, 203; Brady, *Report Challenger*, 1884, 640.
- **agrigenina**, Schwager. *Boll. R. Com. Geol. Ital.* ix, 1878, 525, i, 13
- **alata**, Marsson. *Mitth. Nat. Ver. Neu-Vorpommern u. Rügen*, x, 1878, 165, iv, 33a-d.
- **allomorphinoides** (Rss.). Brady, *Report Challenger*, 1884, 654, xci, 5 and 8 [*Valentina*, 1860]
- **ammonoides**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LII, 1865, 456, No. 5 [v. *Planorbulina*, *Anomalina* and *Rosalina*].
- **anonala**, Schwager. *Boll. R. Com. Geol. Ital.* ix, 1878, 524, i, 11.
- **araucana** (d'O). Brady, *Report Challenger*, 1884, 645, lxxxvi, 10, 11 [*Rosalina*, 1839].
- **arcuata**, Reuss. Terrigi, *Atti Acc. Pont. Nuovi Lincei*, xxxv, 1883, 194, iii, 37 [*Rosalina*, 1850].
- **baconica**, Hantken. *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 66, x, 3; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 76, same pl. and fig. [v. *D. bertheloti*]
- **badensis**, Karrer. *Abh. k. k. geol. Reichs.* ix, 1877, 387, xvib, 54.
- **bembix**, Marsson. *Mitth. Nat. Ver. Neu-Vorpommern u. Rügen*, x, 1878, 167, v, 37a-d.
- **bertheloti** (d'Orb.). Brady, *Trans. Linnæan Soc.* xxiv, 1864, 469, xlviii, 10 [*Rosalina*, 1839].
- ——— Brady, *Report Challenger*, 1884, 650, lxxxix, 10-12.
- ——— v. **baconica**, Hantk., var. *Ibid.* 1884, 651, xc, 1a, b, c [*D. baconica*, 1875].
- ——— Brady, Parker & Jones, *Trans. Zool. Soc.* xii, (7), 1883, 227, xivi, 7, 8.
- **berthelotiana**, d'Orbigny, v. *Rosalina*.
- [— ———] Macdonald, *Annals and Mag. Nat. Hist.* [2], xx, 1857, 193, vi, 25.
- ——— Goës, *K. Svenska. Vet.-Akad. Handl.* xix, No. 4, 1882, 107, viii, 266-268.
- ——— v. *D. turbo* (d'O).
- **biconcava**, Jones & Parker. Carpenter, Parker & Jones, *Introd. Foram.* 1862, 201, f. xxxii, G.
- ——— Parker & Jones, *Phil. Trans.* 1865, 385 and 422, xix, 10a, b, c.
- ——— Brady, *Report Challenger*, 1884, 653, xci, 2 and 3.
- **binkhorsti** (Reuss), v. *Rosalina*.
- **bulloides**, d'Orbigny. Goës, *K. Svenska. Vet.-Akad. Handl.* xix, No. 4, 1882, 106, viii, 262 and 263 [*Rosalina*, 1839].
- **calcariformis**, Schwager. *Palæontographica*, xxx, 1883, Pal. Theil. 120, xxvii, (4), 9a-d.
- **concamerata** (Montagn). Möbius, *Beitr. Meeresfauna Insel Mauritius*, etc. 1880, 96, ix, 16 and 17 [*Serpula*, 1808].
- **concinna**, Brady. *Report Challenger*, 1884, 646, xc, 7 and 8.
- **cora** (d'Orbigny), v. *Rosalina*.
- **crenulata**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LIX, (1), 1869, 462, ii, 3a-c.
- **cruciformis**, Howchin. *Trans. R. Soc. S. Austral.* xii, 1889, 12, i, 13, 14.
- **danubia**, Karrer. *Jahrb. k. k. geol. Reichsanstalt*, xx, 1870, 184, ii, 15.
- **deceptoria**, Schwager. *Palæontographica*, xxx, 1883, Pal. Theil, 119, xxvii, (4), 7a-d.
- **dimidiata**, Jones & Parker. Carpenter, Parker & Jones, *Introd. Foram.* 1862, 201, f. xxxii, B.
- ——— Parker & Jones, *Phil. Trans.* 1865, 385 and 422, xix, 9a, b, c.
- **disca**, Hantken. *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 66, xv, 9; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 76, same pl. and fig. [given as *Pulvin. umbilicata* in descr. of plate].
- **elegans** (d'Orbigny) v. *Anomalina*
- **elegans**, Hantken. *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 66, ix, 3, xv, 7; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 76, same pl. and fig.
- **eximia**, Hantken. *Ibid.* iv, 1875 (1876), 66, xv, 8; and *Ibid.* iv, 1875 (1881), 76, same pl. and fig.

- DISCORBINA eximia**, Hantken. Brady, Report Challenger, 1884, 646, lxxxviii, 9a, b, c.
- **floscellus**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 122, xxvii (4), 11a-d.
- **formosa**, Toutkowsky. Zap. Kievsk. Obsch. Est. viii, 1887, 357, vi, 7a-c.
- **globigerinoides**, Parker & Jones. Parker & Jones, Phil. Trans. 1865, 385 and 421, xix, 7a, b, c.
- **globosa** (v. Hag.). Marsson, Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 163, iv, 32a-d [*Nouimina*, 1842].
- **globularis** (d'Orbigny). Carpenter, Parker & Jones, Introd. Foram. 1862, 204, iii, 1 [*Rosalina*, 1826].
- ——— Dawson, Canad. Nat. [2], vii, 1874, 253, f. c.
- ——— Dawson, Proc. Amer. Asscc. 1876 (Detroit), 103, f. 4c.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 201, iii, 56.
- ——— Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 96, ix, 18.
- ——— Brady, Report Challenger, 1884, 643, lxxxvi, 8 and 13.
- ——— Walther. Mitth. Zool. Stat. Neapel, viii, 1888, 382, xx, 1.
- ——— Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 226, xlvi, 6.
- [——— ? ——— Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 115, vi, 20.
- ——— Macdonald, Annals and Mag. Nat. Hist. [2], xx, 1857, 193, v, 17 and 20.
- ——— see *D. turbo* (d'O.).
- **globularis**, Karrer. Abh. k. k. Geol. Reichs, ix, 1877, 387, xvib, 55.
- **gracilis**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 166, iv, 34a, b, c.
- **granosa**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 148, xiv, 1a, b [error for 2].
- **imperatoria** (d'Orbigny), v. *Rosalina*.
- **inæqualis** (d'Orb.). Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 97, ix, 19 [*Valvulina*, 1839].
- **indistincta**, Schwager. Boll. R. Com. Geol. Ital. ix, 1878, 525, 1, 12.
- **isabelleana** (d'O.). Brady, Report Challenger, 1884, 646, lxxxviii, 1a, b, c [*Rosalina*, 1839].
- **karrerri**, Uhlig. Mojsisovics und Neumayr's Beiträge, Pal. Oest.-Ungarn, i, 1882, 182, xiv, 4-6.
- **leopolitana**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowle, ix, 1875, 127, ii, 5.
- **lucida**, Karrer. Abh. k. k. Geol. Reichs, ix, 1877, 387, xvib, 56.
- **marginata**, Reuss. Sitz. k. Ak. Wiss. Wien, lii, 1865, [12], No. 2 [= *Globigerina*, q. v.].
- **megasphærica**, Gumbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 655, ii, 96a, b [v. *Rotalina*].
- **mensilla**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 123, xxv (2), 5a-d.
- **meliniana**, Reuss. Sitz. k. Ak. Wiss. Wien, lii, 1865, 445, No. 1 [= *Pulvinulina*, q. v.].
- **minuta**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 148, xiv, 3a, b [this is not figured].
- **minutissima**, Seguenza. *Ibid.* [3], vi, 1880, 149, xiv, 4a, b [error for 1, 1].
- **multifaria**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 121, xxvii (4), 10a-c; xxix (vi), 17a-d.
- **nana** (Reuss), v. *Rotalina*.
- **obtusa** (d'Orbigny). Brady, Report Challenger, 1884, 644, xci, 9a, b, c ? [*Rosalina*, 1846].
- ——— see *D. turbo* (d'O.).
- **opercularis** (d'O.). Brady, Report Challenger, 1884, 650, lxxxix, 8, 9 [*Rosalina*, 1826].
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 ————— Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 115, vii, 2, 3.
 ————— **parisiensis** (d'Orbigny). P., J. & B., Ann. Mag. Nat. Hist. [3], xvi, 1865, pl. ii, 70 [*Rosalina*, 1826].
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 ————— Wright, Proc. Belf. F. C. 1876-7 (app.) 105, iv, 1a-d; 2a-c [see *D. Wrightii*].
 ————— Brady, Report Challenger, 1884, 648, xc, 5, 6, 9-12.
 ————— see *D. turbo* (d'O.).
 ————— **patelliformis**, Brady. Report Challenger, 1884, 647, lxxxviii, 3a, b, c; lxxxix, 1a, b, c.
 ————— **perforata**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 148, xiv, 2a, b [error for 3].
 ————— **pertusa**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 166, iv, 35a-e.
 ————— **pileolus** (d'Orbigny). Brady, Report Challenger, 1884, 649, lxxxix, 2-4 [*Valvulina*, 1839].
 ————— **plano-convexa**, Seguenza. Atti R. Acc. Lincei, [3], xii, 1882, 199, xxi, 2, 2a, 2b.
 ————— (**Asterig.**) **planorbis**, d'Orbigny. Zittel, Handbuch Palæont. (1), 1876, 93, f. 31 [*Asterigerina*, 1846].
 ————— (?) K. Miller, Schr. Ver. Gesch. Bodensee. vii, 1877 [78], iv, 28 [error for 27] [cast or concretion].
 ————— **platyomphala**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 102, iv, 13a-d.
 ————— **poeyi**, d'Orb. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 107, viii, 264 and 265 [*Rosalina*, 1839].
 ————— **polysphærica**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 655, ii, 95a, b.
 ————— **polystomelloides**, Parker & Jones. Parker & Jones, Phil. Trans. 1865, 421, xix, 8a, b, c.
 ————— Brady, Report Challenger, 1884, 652, xci, 1a, b, c.
 ————— **præcursoria**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 125, xxvii (4), 12a-d, 13a-d; xxix (6), 16a-d.
 ————— **pulvinata**, Brady. Brady, Report Challenger, 1884, 650, lxxxviii, 10a, b.
 ————— **pusilla**, Uhlig. Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 182, f. 5, v, 12, 13.
 ————— **rarescens**, Brady. Report Challenger, 1884, 651, xc, 2, 3, 4?
 ————— **rigida**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 124, xxviii (5), 4a-d.
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 ————— **rosacea** (d'Orbigny), J., P. & B., Crag Foram. Pal. Soc. xix, 1866, n. d., iv, 17 [*Rotalia*, 1826].
 ————— Terrigi. Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 200, iii, 54 and 55.
 ————— Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 105, viii, 251-257.
 ————— Jones in Microgr. Dict. ed. 4, 1883, 267, xxiv, 7a, b.
 ————— Brady, Report Challenger, 1884, 644, lxxxvii, 1 and 4.
 ————— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 756, xvi, 11a, b.
 ————— see *D. turbo* (d'O.).
 ————— **rugosa** (d'O.). Brady, Report Challenger, 1884, 652, lxxxvii, 3a, b, c; xci, 4a, b, c [*Rosalina*, 1839].
 ————— Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 487, xi, 33.

- DISCORBINA sacharina**, Schwager. Novara-Exped. Geol. (2), 1866, 257, vii, 106.
- Schwager. Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 48.
- **saucii** (d'Orbigny). Brady, Report Challenger, 1884, 653, xci, 6a, b, c [*Rosalina*, 1839].
- **semiorbis**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, (1), 1868, 185, v, 5.
- **semiumbilitata**, Toutkowsky. Zap. Kievsk. Obsch. Est. VIII, 1887, 358, v, 5a-d.
- **simulatilus**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 120, xxix (6), 15a-d.
- **solarium**, Seguenza. Atti R. Acc. Lincei, (3), VI, 1880, 64, vii, 9.
- **sphæroligera**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 119, xxvii (4), 8a-d.
- **squamula**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 101, v, 2a-c.
- **stellata**, Reuss. *Ibid.* LV, (1), 1867, 101, v, 1a-c.
- Reuss, *Ibid.* LIX, (1), 1869, 463, ii, 4a-c.
- **sub-vilardeboana**, Rzehak. Ann. k. k. nat. Hofmuseums, III, (3), 1888, 263, xi, 6a, b, c.
- **tabernacularis**, Brady. Report Challenger, 1884, 648, lxxxix, 5-7.
- Brady, Quart. Journ. Micro. Sci. XXI, 1881, 652.
- **theoflaktowi**, Toutkowsky. Zap. Kievsk. Obsch. Est. VIII, 1887, 356, vi, 6a-c; vii, e.
- **trochidiformis** (Lam.). Jones in Dixon, Geol. of Sussex, ed. 2, 1878, 172, ix [10], 6 [*Rotalites*, 1804].
- **tuberculata**, Balkwill & Wright. Trans. R. Irish Ac. XXVIII, (Sci.), 1885, 350, xiii, 28-30.
- **turbo**-(d'O.) (varieties). Parker & Jones, Phil. Trans. 1865, 384, xiv, 18-23; xvi, 26-28 [*Rotalia*, 1826].
- v. **parisiensis** (d'O.), subv. **berthelotiana** (d'O.). Parker & Jones, Phil. Trans. 1865, 387, xvi, 26, 27.
- v. **rosacea** (d'O.). *Ibid.* 1865, 385, xvi, 28a, 28b.
- v. **vesicularis** (Lam.), subv. **globularis** (d'O.). *Ibid.* 1865, 386, xiv, 20-23.
- v. **vesicularis** (Lam.), subv. **obtusa** (d'O.). *Ibid.* 1865, 386, xiv, 18, 19.
- Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 206, ix, 10.
- Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 193, iii, 35, 36.
- Brady, Report Challenger, 1884, 642, lxxxvii, 8a, b, c.
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- **turris**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, (1), 1868, 185, v, 4.
- **umbonifera** (var.), Schwager. Palæontographica, xxx, 1883, Pal. Theil, 126, xxvii (4), 14a-d.
- **valvulata**, d'O. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 106, viii, 258-261 [*Rosalina*, 1826].
- Brady, Report Challenger, 1884, 644, lxxxvii, 5-7.
- ? Terrigi. Mem. R. Acc. Lincei, (4), VI, 1889, 115, vii, 1.
- **ventricosa**, Brady. Report Challenger, 1884, 654, xci, 7a, b, c.
- **vesicularis** (Lamarck). Carpenter, Parker & Jones, Introd. Foram. 1862, 203, xiii, 2, 3 [*Discorbites*, 1804].
- [d'O.]. Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 206, ix, 6.
- v. **elegans**, d'Orb. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 108, viii, 269-271.
- Brady, Report Challenger, 1884, 651, lxxxvii, 2a, b, c.
- see *D. turbo* (d'O.).
- **vesiculata**, Uhlig. Mojsisovics und Neumayr's Beiträge, Pal. Oest.-Ungarn, I, 1882, 181, xvi, 4-6.
- **vestita**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 148, xiii, 39.
- **vilardeboana** (d'O.). Brady, Report Challenger, 1884, 645, lxxxvi, 9 and 12; lxxxviii, 2 [*Rosalina*, 1839].

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- Wallich. Deep Sea Researches, Biol. Globigerina, 1876, 1, etc., pl., 20 [structural].
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- K. Miller. Schr. Ver. Gesch. Bodensee, vii, 1877 [78], iv, 27 [error for 28]. [Cast or concretion.]
- Nicholson. Manual Palæont. 1879, i, 101, f. 13, c.
- Carpenter. Ency. Brit. ed. 9, ix, 1879, "Foraminifera," 374, i, 15.
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- de Folin. Le Naturaliste, Ann. 9, 1887, 139, f. 16.
- see *Rotalites*.
- DISCORBIS**, Lamarck, 1804. See *Discorbites*.
- **gervillii**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 274, No. 36 [given by d'Orbigny as a subgenus of *Rotalia*].
- **lobatulus**, Macgillivray. Moll. Anim. Aberdeen, 1843, 34 [= *Truncatolina*].
- **orbicularis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 274, No. 35.
- **orbicularis**, Berthelin. Ann. Soc. Ac. Nantes, [5], viii, 1878, 242, No. 63 [= *Discorbina*].
- **parisiensis**, Berthelin. *Ibid.* [5], viii, 1878, 243, No. 65 [= *Discorbina*].
- **vesicularis** (Lamarck). Parkinson, Organ. Rem. former World, iii, 1811, 159, xi, 1 [*Discorbites*, 1804].
- ——— Brown, Conch. Text-book, 1839, 61, x, 13.
- ——— Brown, Elem. Foss. Conch. 1843, 23, ii, 11.
- Lyell. Elements Geology, 1838, 55, f. 22.
- see *Rotalia*.
- DISCORBITES**, Lamarck, 1804. Ann. Mus. v, 1804, 183.
- **vesicularis**, Lamarck. *Ibid.* v, 1804, 183; and f. 7, pl. 62, viii, 1806 [v. *Discorbis*, *Discorbina* and *Rosalina*].
- ——— Lamarck, Velins du Muséum. Paris, v, 183, No. 22, f. 11, 12.
- ——— Lamarck, Ency. Méthod. (pls. 1827) (P. & J. quote (23), 1816); "Vers," II (1832), 90, 466-7 [= *Discorbina*].
- ——— Defrance, Dict. Sci. Nat. xiii, 1818, 346, xxii, 1821, 186; Atlas, Conch. xiv, 2.
- ——— Lamarck, Coq. Foss. Paris, 1823, 14, xiv, 7.
- ——— Bronn, Syst. urweltl. Conchyl. 1824, 7, i, 3a, b, c.
- ——— Defrance, Atlas Conch. xiii, 3; Blainville, Manuel Malac. et Conch. 1825 (pls. 1827) and 384, v, 3; vi, 2; [= ? *Dendritina* = *Penerplis*].
- ——— Crouch, Introd. Lamarck, 1827, 41, xxii, 7.
- ——— Cuvier, Animal Kingdom, Henderson's ed. iii, 1834 (pls. 1837), 18, viii, 2.
- Bowdich. Elements Conch. (1), 1822, 15, i, 5.
- DISCORBULA**, Lamarck, 1816.
- **ariminensis**, Lam. Ency. Méth. pl. 466, f. 6a, b (P. & J. quote pt. 23, 1816), [*Rotalites discorbula*, 1804 = *Rotalia beccarii*].
- DISCOSPORA**, Morris, 1850, MS. Mantell, Pictorial Atlas of Org. Rem. 1850, 142 (note) [= *Assilina erponensis*].
- DORBIGNYÆA**, Deshayes, 1830. Ency. Méth. "Vers," II, 1830; "Cephalopodes" [sign. F, f. 2], 231 and 234 [near *Rotalia*].
- DUJARDINIA**, Gray, 1858. Gray, Proc. Zool. Soc. xxvi, 1858, 270 [= *Carpenteria*].
- **mediterranea**, Gray. *Ibid.* xxvi, 1858, 270, not figured.
- DYOXEIA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 1881, 141, not described; two sp. proposed [v. *Dioxeia*].

- ECHINITEN**, Fichtel. Nachr. Ver-t. Siebenburgen, 1780, 78 [= *Alveolina*, fide Gumbel]
- ECHINUS lobatulus**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Microscope, 1798, 644, xiv, 46 [*E. subrotundatus*, W. & Boys = *Globig. bulluotes*, v. *lobatula*, W & J.]
- **subrotundatus planus lobatus**, Walker & Boys. Test. mim. rar. [1784], 25, iii, 89.
- EGEON perforatus**, Montfort. Conch. Syst. 1, 1808, 167, 42 genre [= *Nannulites*].
- EHRENBERGINA**, Reuss, 1849. Denkschr. k. Ak. Wiss. Wien, 1, 1850, 377; Brady, Report Challenger, 1884, 433.
- **bicornis**, Brady. Quart. Journ. Geol. Soc. XLIV, 1888, 5, i, 3.
- **hystrix**, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 60.
- ——— Brady, Report Challenger, 1884, 434, lv, 8-11.
- **pupa** (d'Orbigny). *Ibid.* 1884, 433, lv, 1a, b; cxiii 10a, b, c [*Cassidulina*, 1839].
- **serrata**, Reuss. Denkschr. k. Ak. Wiss. Wien, 1, 1850, 377, xlvi, 7.
- ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 231, xxxv², 25a, b, c.
- ——— Reuss' Model. No. 44, 1865 (Catal. No. 82, 1861).
- ——— Zittel, Handbuch Palæont. (1), 1876, 91, f. 29².
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 68.
- ——— Brady, Report Challenger, 1884, 434, lv, 2-7.
- EILEMAMMINA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 132, not described; three species proposed.
- ELLIPSOIDINA**, Seguenza, 1859. Eco Peloritano. [2], v, 1859, fasc. 9 [10]; Brady, Annals and Mag. Nat. Hist. [4], 1, 1868, 337; and Brady, Report Challenger, 1884, 435.
- **abbreviata**, Seguenza. *Ibid.* [2], v, 1859, fasc. 9, [14], pl., 5a, b.
- **ellipsoides**, Seguenza. *Ibid.* [2], v, 1859, fasc. 9, [12], pl., 1-3.
- ——— Brady, Annals and Mag. Nat. Hist. [4], 1, 1868, 338, xiii, 1-12.
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 32.
- ——— var. **oblonga**, Seg. Brady, Quart. Journ. Geol. Soc. XLIV, 1888, 5, i, 1 [v. *E. oblonga*, Seg.].
- **oblonga**, Seguenza. Eco Peloritano, [2], v, 1859, fasc. 9, [13], pl., 4a, b.
- ELLIPTINA**, Hartwig, 1852. Verh. I Kl. Koninkl.-Nederland. Inst. [3], IV, 1852, 116 [= *Cenchridium* = *Laguna*].
- **inflata**, Hartwig. *Ibid.* [3], IV, 1852, 116, ii, 9.
- **truncata**, Hartwig. *Ibid.* [3], IV, 1852, 116, ii, 8.
- ELPHIDIUM**, Montfort. Conch. Syst. 1, 1808, 15, 4 genre [= *Polystom. macella*].
- ENCORYCIUM**, Ehrenberg, 1858. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 11 and 19 [= *Nodosaria*].
- **nodosaria**, Ehrenberg. *Ibid.* 1858, 19.
- ——— Ehr. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 13.
- **terebra**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 20.
- ENDOTHYRA**, Phillips, 1846. Rept. Proc. Geol. Poly. Soc. W. R. Yorkshire, 1844-45 (1846), 277; Brady, Pal. Soc. xxx, 1876, 91
- **ammonoides**, Brady. Mem. Geol. Surv. Scotland, Explan. Sheet 23, 1873, 63, 95, etc.
- ——— Brady, Carbonif. Foram. Pal. Soc. xxx, 1876, 94, v, 5, 6.
- **baleyi**, Hall. Whitfield, Bull. Amer. Mus. Nat. Hist. 1, No. 3, 1882, 42, ix, 34-36 [a misprint for *baleyi* = Hall's *Rotalia baleyi*, q. v.; considered by Whitfield as distinct from *E. bowmani*, Phil.].
- **bowmani**, Phillips.
- [**bowmanni**], Phillips. Rept. Proc. Geol. Poly. Soc. W. R. Yorkshire, 1844-45 (1846), 277, vii, 1 [f. 3 may also belong to *Endothyra*].
- [**bowmanni**], ——— Brown, Mem. Foss. Conch. 1843, 17, vi, 2.
- ——— Brady, Carbonif. Foram. Pal. Soc. xxx, 1876, 92, v, 1-4.
- [**bowmanni**], ——— v. Möller, Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 96, iv, 3a, b; xii, 2a, b.
- ——— Roemer, Lethæa Geognostica, (1), 1, 1880, 281, f. 49.

- ENDOTHYRA** [*bowmanni*] Phillips. Prestwich, Geology, 1888, II, 101, f. 47c, d.
- *circumplicata*, Howchin. Journ. R. Microsc. Soc. 1888, 541, viii, 10, 11.
- *conspicua*, Howchin. Journ. R. Microsc. Soc. 1888, 540, ix, 12.
- *crassa*, Brady. Carbonif. Foram. Pal. Soc. xxx, 1876, 97, v, 15-17 [*Involutina*, 1869].
- v. Möller, Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 93, iv, 2a-c; xii, 1a, b.
- Büttschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 211, ix, 16.
- (cfr.) ———. Steinmann, Zeitschr. deutsch. Geol. Ges. xxxii, 1880, 398, xix, 4.
- Meunier, Bull. Soc. Hist. Nat. Autun, I, 1888, 235, vii, 9.
- *cussyensis*, Meunier. *Ibid.* I, 1888, 235, vii, 6 and 10.
- *globulus*, d'Eichwald. Brady, Carbonif. Foram. Pal. Soc. xxx, 1876, 95, v, 7-9 [*Nonionina globulus*, 1860].
- v. Möller, Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 98, iv, 4a-c; xiii, 1-4.
- v. Möller, *Ibid.* [7], xxvii, No. 5, 1879, 13 [f. 3 and 4]; 15, i, 1a-d, 2.
- *macella*, Brady. Carbonif. Foram. Pal. Soc. xxx, 1876, 98, v, 13, 14 [*Involutina*, 1869].
- *obliqua*, Brady. *Ibid.* xxx, 1876, 100, vi, 5, 6 [*Involutina*, 1869].
- *ornata*, Brady. Mem. Geol. Surv. Scotland, Explan. Sheet, 23, 1873, 63, 95, etc.
- Brady, Carbonif. Foram. Pal. Soc. xxx, 1876, 99, vi, 1-4.
- v. tenuis, Brady. *Ibid.* xxx, 1876, 100, vi, 7, 8.
- v. Möller, Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 101, iv, 5.
- *panderi*, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 17, i, 3a-c.
- *parva*, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 18, i, 4; v, 1a, b.
- *radiata*, Brady. Carbonif. Foram. Pal. Soc. xxx, 1876, 97, v, 10-12 [*Involutina*, 1869].
- v. *tateana*, Howchin. Journ. R. Microsc. Soc. 1888, 542, ix, 13-15.
- *radiifera*, Gümbel. Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver. Beilage, 1878, 105, f. 25¹⁸.
- *simplex*, Gümbel. *Ibid.* 1878, 105, f. 25¹⁹.
- *subtilissima*, Brady. Carbonif. Foram. Pal. Soc. xxx, 1876, 101, vi, 9.
- Roemer, Lethæa Geognostica, (1), I, 1880, 282, f. 50.
- sp. Schwager. Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 93.
- sp. ind. v. Möller. Mém. Ac. Imp. Sci. St. Petersburg, [7], xxvii, No. 5, 1879, 18, vii, 6.
- Nicholson. Manual Palæont. 1879, I, 111, f. 20.
- Sorby. Quart. Journ. Geol. Soc. xxxv, 1879, address, pl. (privately printed), xviii [section of carboniferous limestone].
- Neumayr. Stämme d. Thier-reiches, I, 1889 (8), 185, f. 26.
- ENODOTHYRA**, Venyukov, 1888, misprint for *Endothyra*.
- ENTOSALENIA**, Parker & Jones, 1857. Annals Mag. Nat. Hist. (2), xix, 1857, 278, etc. [error for *Entosolenia*].
- ENTOSOLENIA**, Ehrenberg, MS. Williamson, Annals Mag. Nat. Hist. [2], I, 1848, 5.
- Williamson says:—"A little time after making this discovery (the entosolenian tube), I received from Dr. Bailey of New York, specimens of *Lagena striata* (which is one of those having an external tube) and attached to it was the name of *Miliola ficus*, which name had been given to it by M. Ehrenberg. Along with these were specimens of *Lagena globosa* (one of the species characterized by an internal tube) to which was affixed by Ehrenberg the very expressive name of *Entosolenia miliaris*? Hence it was evident that the great Prussian naturalist had observed the same peculiarity of structure in the species exhibiting the internal tube and had given to the objects characterized by it the very expressive name of *Entosolenia*, which name it is my intention to retain, in separating the existing genus *Lagena* into two distinct groups."

- ENTOSOLENIA alata**, Möbius. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 89, viii, 5.
- **aspera**, Reuss. Möbius, *Ibid.* 1880, 91, viii, 11, 12 [*Lagena*, 1861 = *Lagena*].
- **costata**, Williamson. Recent British Foram. 1858, 9, i, 18 [v. *Lagena* and *Lagenulina*].
- Dawson, Canad. Nat. iv, 1859, 29, f. 6 and 7.
- Dawson, *Ibid.* vi, 1872, 254, iii, 2.
- Dawson, Handbook Zoology, ed. 3, 1886, 43, f. 32.
- **globosa**, Walker & Jacob. Williamson, Annals & Mag. Nat. Hist. [2], i, 1848, 16, ii, 13 and 14 [v. *Lagena*].
- Williamson, Recent British Foram. 1858, 8, i, 15 and 16.
- v. **lineata**, Williamson. *Ibid.* 1858, 9, i, 17 [= *Lagena caudata*, d'Orb.].
- var. Parker & Jones. Annals Mag. N. H. (2), xix, 1857, 279, xi, 25-29 [25, *L. squamosa*; 26, *L. catenulata*; 27, *L. striata*; 28, 29, *L. marginata*].
- Dawson, Canad. Nat. iv, 1859, 28, f. 4 and 5.
- Cooke, Thousand Objects Microsc. 1869, 91, ix, 15; and fragment, 19, iv, 1.
- Chimm, Bed of Atlantic, 1870, 18, iii, 1 [ribbed, with tuberculated interspaces].
- Dawson, Canad. Nat. vi, 1872, 254, iii, 2.
- [Will.]. Schulze, Arch. mikrosk. Anat. xii, 1877, 9, etc., ii, 1-3 [structural].
- Jones. In Microgr. Dict. ed. 4, 1883, 290, xxiii, 23a, b.
- Dawson, Handbook Zoology, ed. 3, 1886, 43, f. 31.
- **lineata**, Williamson. Annals Mag. Nat. Hist. [2], i, 1848, 18, ii, 18 [v. *Lagena*].
- Gosse. Manual Mar. Zool. 1855, 11, f. 10.
- **lucida**, Will. Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 89, viii, 4 [*marginata*, var., 1848; v. also *Lagena*].
- **marginata** (Walker & Boys). Williamson, Annals and Mag. Nat. Hist. [2], i, 1848, 17, ii, 15 and 16 [*Serpula*, 1784].
- v. **lucida**, Will. Williamson, *Ibid.* [2], i, 1848, 17, ii, 17.
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- v. **lagenoides**, Williamson. *Ibid.* 1858, 11, i, 25 and 26.
- v. **lucida**, Williamson. *Ibid.* 1858, 10, i, 22 and 23.
- v. **ornata**, Williamson. *Ibid.* 1858, 11, i, 24.
- v. **quadrata**, Williamson. *Ibid.* 1858, 11, i, 27 and 28.
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- Chimm, *Ibid.* 1870, 27, x, 1.
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- Chimm, Nat. Hist. Euplectella, etc. 1878, 21, vi, 20a, b, c, d [= *Lagena seminiformis*? Schw.].
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- **perforata**, Möbius. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 90, viii, 6.
- **quadrata**, Williamson. Chimm, Bed of Atlantic, 1870, 28, x, 2 [v. *E. marginata* and *Lagena*].
- Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 90, viii, 9.
- **rudis**, Reuss. Möbius, *Ibid.* 1880, 90, viii, 10.
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- ENTOSOLENIA squamosa**, Montagu, var. γ , **hexagona**, Williamson. *Ann. Mag. Nat. Hist.* [2], i, 1848, 20, ii. 32.
 ——— var. β , **scalariformis**, Williamson. *Ibid.* [2], i, 1848, 20, ii, 21 and 22.
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 ——— v. **catenulata**, Williamson. *Ibid.* 1858, 13, i, 31 [v. *Lagena catenulata*].
 ——— v. **hexagona**, Williamson. *Ibid.* 1858, 13, i, 32 [v. *Lagena heragona*].
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 ——— Dawson, *Handbook Zoology*, ed. 3, 1886, 44, f. 33.
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 ——— Dawson, *Amer. Journ. Sci.* [3], i, 1871, 206, f. 11; and *Annals Mag. N. H.* [4], vii, 1871, 86, f. 11.
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 P ——— Chimmio. Bed of Atlantic, 1870, 15, i, 3 and 4 [3 = *Miliola*; 4¹ = *Miliola*; 4² = *Gastropod*; 4³, 4⁴ = *granules*].
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- ENTROCHUS**, Ehrenberg, 1841. *Abhandl. k. preuss. Ak. Wiss. Berlin*, 1841, 408.
 ——— **septatus**, Ehr. *Ibid.* 1841, 426.
- ENTZIA**, von Daday, 1883. *Orvos termeszett. ertésito.* viii, 1883, 197, etc.; and *Zeitschr. Wiss. Zool.* (Siebold & Kölliker), xl, 1884, 465.
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 ——— **annulata**, Terquem. *Cinquième Mém. Foram. Oolithique*, 1883, 381, xlv, 2a, b, c.
 ——— **bilabiata**, Terquem. *Ibid.* 1883, 381, xlv, 1a, b, c.
 ——— Terquem, *Mém. Soc. Géol. France*, [3], iv, 1886, 56, vi, 22 23.
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 ——— Terquem, *Mém. Soc. Géol. France*, [3], iv, 1886, 53, vi, 5 and 6.
 ——— **costifera**, Terquem. *Cinquième Mém. Foram. Oolithique*, 1883, 377, xiii, 3-6.
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 ——— **irregularis**, Terquem. *Cinquième Mém. Foram. Oolithique*, 1883, 379, xlv, 4-10.

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- **nuda**, Terquem. Cinquième Mém. For. Oolithique, 1883, 376, xliii, 1a, b, c, 2a, b.
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- **ornata**, Terquem. Cinquième Mém. For. Oolithique, 1883, 377, xliii, 7 and 8.
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- **regularis**, Terquem. Cinquième Mém. For. Oolithique, 1883, 379, xliv, 1-3.
- Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 55, vi, 18-21.
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- [**discolithes**] ——— Carpenter, Parker & Jones, Introd. For. 1862, 82, vi, 37 and 38 [structural].
- [**discolithes**] ——— Reuss' Model. 1865, No. 12 (Catal. 1861), No. 21.
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 ——— [*discolithes*] ——— Fritel, Foss. caract. terr. sedim. tert. 1886, vii, 64 and 65.
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- FABULARIA**, d'Orbigny. Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 190, iv, 21.
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- “**FAN-SHAPED ANIMALCULE**,” Brocklesby. Views Microscop. World, 1851, 51, f. 86 and 87 [= *Flab. baudouiniana*].
- FASCICOLITES**, Carter. Error for *Fasciolites*, q. v.
- FASCICOLITES**, Parkinson. Organ. Rem. former World, iii, 1811, 158, x, 28-31 [= *Alveolina*].
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 ——— *elliptica*, Sowerby. Trans. Geol. Soc. Lond. [2], v, 1837 (1840), 327, 7 and 9, and explan. of plates, xxiv, 17, 17a [v. *Alveolina*].
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- [**FAUJASSINA**] *orbignyi*, Terquem. Mém. Soc. Géol. France, [3], ii, 1882, 49, ii (x), 28a-c.
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- FINOPORUS** Bronn, 1837. Misprint for *Tinoporus*.
- FISCHERINA**, Terquem, 1878. Mém. Soc. Géol. France, [3], i, 1878, 80. “Ce genre trouve donc sa place entre les *Nonionina* et les *Rosalina*.”
 ——— *rhodiensis*, Terquem. *Ibid.* [3], i, 1878, 80, ix (xiv), 25a-c.
- FISSURINA**, Reuss, 1849. Denkschr. k. Ak. Wiss. Wien, i, 1850, 366. [*Lagena* with aperture in the form of a slit; this is not a true generic distinction, v. Brady, Report Challenger, 1884, 440.]
 ——— *acuta*, Reuss. Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 340, vii, 90, 91 [v. *Lagena*].
 ——— *acuta*, Seguenza. Foram. monotal. miocen. Messina, 1862, 57, i, 51 [= *F. bianca*, Seg.].

- FISSURINA alata**, Reuss. Zeitschr. deutsch. geol. Ges. 1851, 58, iii, 1.
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 vii, 87.
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 [= *L. marginata*, W. & I.].
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 ————— 'Terquem, Mém. Soc. Géol. France, [3], II, 1882, 30, i (ix),
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 ————— **aradasii**, Seguenza. Foram. monotal. miocen. Messina, 1862, 58, i, 59
 [= *L. marginata*, W. & I.].
 ————— **benoitiana**, Seguenza. *Ibid.* 1862, 62, ii, 11 [= *L. marginata*, W. & I.].
 ————— **biancæ**, Seguenza. *Ibid.* 1862, 57, i, 48-50.
 ————— **bicarinata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 31, i (ix),
 24a, b [*v. Lagena*].
 ————— **bicaudata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 64, ii,
 16 [*L. marginata*, W. & I., var. *bicaudata*, Seg.].
 ————— **bouei**, Karrer. Abh. k. k. geol. Reichs. IX, 1877, 378, xvii, 19.
 ————— **capillosa**, Schwager. Novara-Exped. Geol. (2), 1866, 210, v, 25.
 ————— **carinata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI (1), 1862 (1863), 338,
 vi, 83; vii, 86.
 ————— Reuss' Model, 1865, No. 17 (Catal. 1861, No. 35) [= *Lag.*
marginata, Mont.].
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 23a, b.
 ————— **cincta**, Seguenza. Foram. monotal. miocen. Messina, 1862, 67, ii, 31.
 ————— **circulum**, Seguenza. *Ibid.* 1862, 63, ii, 15 [= *L. marginata*, W. & I.].
 ————— **communis**, Seguenza. *Ibid.* 1862, 58, i, 56 and 57 [= *L. marginata*, W.
 & I.].
 ————— **costæ**, Seguenza. *Ibid.* 1862, 69, ii, 38 [= *L. marginata*, W. & I.].
 ————— **crenata**, Seguenza. *Ibid.* 1862, 67, ii, 32 [not *Lagena crenata*, P. & J.].
 ————— **deltoidæa**, Seguenza. *Ibid.* 1862, 57, i, 45 [= *L. marginata*, W. & I.].
 ————— **dentata**, Seguenza. *Ibid.* 1862, 58, i, 55.
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 ————— **diptera**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 332, xvii, 36.
 ————— **echinata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 58, i, 54.
 ————— **ehrenbergii**, Seguenza. *Ibid.* 1862, 62, ii, 8 [= *L. marginata*, W. & I.].
 ————— **elegans**, Seguenza. *Ibid.* 1862, 69, ii, 39 [= *L. marginata*, W. & I.].
 ————— **elliptica**, Seguenza. *Ibid.* 1862, 60, ii, 3 [= *L. marginata*, W. & I.].
 ————— **emarginata**, Seguenza. *Ibid.* 1862, 65, ii, 20 [= *L. marginata*, W. & I.].
 ————— **foliacea**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 306, xvii, 13, 13a.
 ————— **gemellarii**, Seguenza. Foram. monotal. miocen. Messina, 1862, 70, ii,
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 4 [not *Lagena globosa* (Montagu)].
 ————— Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863),
 339, vii, 88.
 ————— **haeckelii**, Seguenza. Foram. monotal. miocen. Messina, 1862, 63, ii, 13
 [= *L. marginata*, W. & I.].
 ————— **inæqualis**, Seguenza. *Ibid.* 1862, 63, ii, 14 [= *L. marginata*, W. & I.].
 ————— **lævigata**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 366, xlvi, 1 [*v.*
Lagena].
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 vi, 84.
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 17a, b.

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- **latisoma**, Seguenza. *Ibid.* 1862, 57, i, 46 and 47 [= *L. marginata*, W. & I.].
- **longirostris**, Seguenza. *Ibid.* 1862, 70, ii, 41.
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- **macroptera**, Seguenza. *Ibid.* 1862, 70, ii, 44.
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- **marginata** (Will.). Terquem, Mém. Soc. Géol. France, [3], II, 1882, 30, i (ix), 20–22 [*Entosolenia*, 1858].
- **multicosta**, Karrer. Abh. k. k. geol. Reichs, IX, 1877, 379, xvii, 20 [v. *Lagena*].
- **oblonga**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 339, vii, 89.
- **oblonga**, Seguenza. Foram. monotal. miocen. Messina, 1862, 68, ii, 35.
- **obvia**, Seguenza. *Ibid.* 1862, 60, ii, 1 [= *L. marginata*, W. & I.].
- **obtusa**, Egger. Neues Jahrbuch, 1857, 270, v, 16–19.
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 340, vii, 92 and 93.
- **orbignyana**, Seguenza. Foram. monotal. miocen. Messina, 1862, 66, ii, 25 and 26 [v. *Lagena*].
- **ovata**, Seguenza. *Ibid.* 1862, 62, ii, 9 and 10 [= *L. marginata*, W. & I.].
- **paradoxa**, Seguenza. *Ibid.* 1862, 61, ii, 7 [= *L. marginata*, W. & I.].
- **pecchiolii**, Seguenza. *Ibid.* 1862, 58, i, 52.
- **pedunculata**, Seguenza. *Ibid.* 1862, 60, ii, 4 [= *L. marginata*, W. & I.].
- **peloritana**, Seguenza. *Ibid.* 1862, 72, not figured.
- **propinqua**, Seguenza. *Ibid.* 1862, 58, i, 58 [= *L. marginata*, W. & I.].
- **pterocephala**, Seguenza. *Ibid.* 1862, 64, ii, 17 [= *L. marginata*, W. & I.].
- **punctata**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 136, xiii, 1.
- **radiata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 70, ii, 42 and 43.
- **recta**, Seguenza. *Ibid.* 1862, 58, i, 53.
- **regularis**, Seguenza. *Ibid.* 1862, 71, ii, 46 [= *L. marginata*, W. & I.].
- **reussiana**, Seguenza. *Ibid.* 1862, 69, ii, 40.
- **rizzae**, Seguenza. *Ibid.* 1862, 72, ii, 50.
- **romettensis**, Seguenza. *Ibid.* 1862, 66, ii, 24 [= *L. marginata*, W. & I.].
- **rostrata**, Seguenza. *Ibid.* 1862, 68, ii, 33.
- **rugosa**, Seguenza. *Ibid.* 1862, 67, ii, 30.
- **rugosula**, Seguenza. *Ibid.* 1862, 56, i, 43.
- **sartorii**, Seguenza. *Ibid.* 1862, 71, ii, 47 [= *L. marginata*, W. & I.].
- **silvestrii**, Seguenza. *Ibid.* 1862, 64, ii, 18 [= *L. marginata*, W. & I.].
- **simplex**, Seguenza. *Ibid.* 1862, 56, i, 44 [= *L. marginata*, W. & I.].
- **soldanii**, Seguenza. *Ibid.* 1862, 65, ii, 19 [= *L. marginata*, W. & I.].
- **solida**, Seguenza. *Ibid.* 1862, 55, i, 42.
- **spinigera**, Seguenza. *Ibid.* 1862, 63, ii, 12 [= *L. marginata*, W. & I., var. *bicaudata*, Seg.].
- **spinosissima**, Reuss. In Geinitz, Palæontographica, xx, (2), 1874, 79, not figured.
- **staphyllearia**, Schwager. Novara-Exped. Geol. (2), 1866, 209, v, 24 [v. *Lagena*].
- **sulcata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 67, ii, 27 and 28 [error for 29] [= *L. marginata*, W. & I.].
- **tenuis**, Seguenza. *Ibid.* 1862, 60, ii, 2 [= *L. marginata*, W. & I.].
- **tenuissima**, Seguenza. *Ibid.* 1862, 61, ii, 6 [= *L. marginata*, W. & I.].
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- _____ ? _____ *Ibid.* 1854, xxvi, 44 (" *Rosal. foveolata*, 1838") [= *G. bulloides*].
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- _____ *depressa*, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 92; and Mikrogeologie, 1854, xix, 92 [= *G. bulloides*].
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- _____ Brady, Report Challenger, 1884, 601, lxxxix, 1a-c.
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- _____ = *Coscinosphæra ciliosa* (Stuart, 1866; Haeckel, 1870), Brandt, 222; Brandt says, p. 223 "Auch R. Greeff (Arch. Mikr. Anat. Bonn, v, 1869, 473) hatte schon bemerkt, daß *Coscinosphæra* eher eine Foraminifere als ein Radiolar sei."
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- **libani**, Ehrenberg. Mikrogeologie, 1854, xxv, I, A, 30 [perhaps *Gl. stel-lata*; = *G. cretacea*].
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- **marginata**, Reuss. In Geinitz; Palæontographica. XX, (2), (1874), 112, No. 2 [v. *Rosalina marginata*, Reuss, 1845, 1854; *ibid.* Jones, 1853].
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- ——— Brady, Report Challenger, 1884, 604, lxxx, 11-17; lxxxii, 4.
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- **stellata**, Ehrenberg. Mikrogeologie, 1854, xxvi, 45 ["compare *G. libani*"] [= *G. bulloides*].
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- **trifoliata**. K. Miller. Schr. Ver. Gesch. Bodensee, vii, 1877 [78], iv, 24 [cast or concretion ?].

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 — (*Orbulina*) **universa**, d'O. S. R. J. Owen, Journ. Linnean Soc.-Zool.
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- ? (hispid. var). See *Sphærulæ hispidæ*.
- GLOBULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 266 [given by d'Orbigny as a subgenus of *Polymorphina*].
- **acuta**, Römer? Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 245, vi, 62 [*Polymorphina*, 1838].
- **æqualis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 227, xiii, 11, 12 [v. *Polymorphina*].
- ——— Reuss' Model. No. 52, 1865 (Catal. No. 69, 1861).
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- **amygdaloides**, Reuss. *Ibid.* iii, 1851, 82, vi, 47 [v. *Polymorphina lactea*, var.].
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- **australis**, d'Orbigny. Voyage Amér. Mérid. 1839, v, (5), "Foraminifères," 60, i, 1-4 [v. *Polymorphina*].
- **bulloides**, Reuss. Sitz. k. Ak. Wiss. Wien, xliv, (1), 1861 (1862), 318, iii, 4.
- **caribæa**, d'Orbigny. De la Sagra, Hist. Phisq. etc., Cuba, 1839, "Foraminifères," 135, ii, 7 and 8; also in Spanish 1840, 130, same pl. and fig.
- **cordiformis**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 277, xviii, 19a, A, B.
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- (?) **fragraria**, Gümbel. Sitz. k.-bayer. Ak. Wiss. i, 1871, 68, i, 16.
- **gibba**, d'Orbigny. Ann. Sci. Nat. vii, 1826, No. 20, 267; and Modèles, No. 63 [*Polymorpha (Globulina)*, 1826].
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- ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 227, xiii, 13 and 14.
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- ——— Terquem, Mém. Soc. Géol. France, [3], i, 1878, 43, iv (ix), 1-5.
- ——— *Ibid.* [3], ii, 1882, 130, xiii (xxi), 22-27.
- **globosa**, Müst. Reuss in Geinitz, Grundr. Verstein. 1845-46, 669, xxiv, 85 [*Polymorphina*, 1838].
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, xliv, (1), 1861 (1862), 318, iii, 3.
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- **guttula**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 82, vi, 46 [v. *Polymorphina*].
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- **hispidata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 131, xiii (xxi), 32.
- **horrida**, Reuss. Verstein. Böhm. Kreide, 1845-6, II, 110, xliii, 14.
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- ——— Brady, P. & J., Trans. Linn. Soc. xxvii, 1870, 246, xlii, 38a.
- **inæqualis**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 377, xlviii, 9.
- **incerta**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, not descr., xviii, 11.
- **inflata**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 81, VI, 45.
- **irregularis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 226, xiii, 9 and 10.
- ——— Terquem, Mém. Soc. Géol. France, [3], I, 1878, 44, IV (IX), 13 and 14.
- **lacrima**, Reuss. Verst. Böhm. Kreide, (1), 1845, 40, 110, xliii, 83 [v. also *Guttulina* and *Polymorphina*.]
- [**lacrynia**, Reuss]. Alth, Haidinger's Naturw. Abh. III, (2) 1850, 263, xiii, 16.
- ——— Reuss, *Ibid.* IV, (1), 1851, 43, IV, 9.
- **lævis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 137, VII, 5.
- **liasina**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 431, VII, 2a, b, c.
- **minuta**, Roemer. Reuss, Denkschr. k. Ak. Wiss. Wien, I, 1850, 377, xlviii, 8 [*Polymorphina*, 18:8].
- **nuda**, Schwager. In Dittmar, Die Contorta-Zone, 1864, 201, III, 14.
- **oolithica**, Terquem. Bull. Soc. géol. France, [3], IV, 1876, 497, XVII, 12.
- **ovalis**, Terquem. Ess. Anim. Plage Dunkerque, (2), 1876, 77, X, 2 (and Mém. Soc. Dunkerquoise).
- **ovata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 266, No. 22 [v. *Polymorphina*.]
- **oviformis**, Terquem. Mém. Soc. Géol. France, [3], I, 1878, 44, IV (IX), 9-12.
- **porosa**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 633, IV, 16 (immature) [v. *Orbulina*.]
- **porrecta**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 230, XII, 4a, b.
- ——— B., P. & J., Trans. Linn. Soc. xxvii, 1870, 220, xxxix, 5a.
- **prisca**, d'Orbigny. Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 79, IX, 8a, b [v. *Polymorphina*]. [I believe this d'Orbigny is a misprint, it seems to be Reuss' sp.]
- **punctata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 229, xiii, 17, 18.
- **quadrispinosa**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 278, xviii, 18.
- **römeri**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 245, VI, 63.
- **rotundata**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 279, xviii, 21 A, B, C.
- **rotundata**, Born. Reuss, Sitz. k. Ak. Wiss. Wien, L, (1), 1864 (1865), 469, III, 4a, b [*Guttulina*, 1855].
- **rugosa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 229, xiii, 19 and 20.
- ——— B., P. & J., Trans. Linn. Soc. xxvii, 1870, 237, XI, 23a and b.
- ——— Terquem, Ess. Anim. Plage Dunkerque, (2), 1876, 77, X, 1 (and Mém. Soc. Dunkerquoise).
- **secale**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 137, VII, 10.
- **simplex**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 279, xviii, 5A, C.
- **spinosa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 230, xiii, 23 and 24 [v. *Polymorphina*.]
- ——— Terquem, Mém. Soc. Géol. France, [3], II, 1882, 132, xiii (xxi), 35.
- **subalpina**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 646, II, 80a, b.

- GLOBULINA subgibba**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 645, ii, 79.
- **sulcata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 266, No. 21 [= *Polymorphina myristiformis*, Will., *vide* Fischer].
- **translucida**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 267, No. 25.
- ——— Terquem, Mém. Soc. Géol. France, [3], ii, 1882, 131, xiii (xxi), 31a, b.
- **transversa**, Terquem. *Ibid.* [3], ii, 1882, 129, xiii (xxi), 17-21.
- **tuberculata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 230, xiii, 21 and 22 [v. *Polymorphina*].
- ——— Terq., Mém. Soc. Géol. France, [3], ii, 1882, 132, xiii (xxi), 33 and 34.
- **tubulifera**, Bornemann. Zeitschr. deutsch. geol. Ges. xii, 1860, 160, vi, 10 (a, b, c).
- **tubulosa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 228, xiii, 15 and 16 [v. *Polymorphina lactea*, var., and *Polymorphina*.]
- ——— B., P. & J., Trans. Linn. Soc. xxvii, 1870, 246, xlii, 38b.
- **turbinata**, Terquem. Mém. Soc. Géol. France, [3], i, 1878, 43, iv (ix), 6-8.
- **unilocularis**, Terquem. *Ibid.* [3], ii, 1882, 128, xiii (xxi), 8.
- **varians**, Terquem. *Ibid.* [3], ii, 1882, 128, xiii (xxi), 9-16.
- sp. Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 137, vii, 6, 7 and 25.
- Costa, Atti Accad. Pontaniana, vii, (2), 1856, n. d., xxii, 11.
- d O., v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, plates xxvi and xxvii.
- GLOBULINA-like forms**. Gümbel, Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 235, iv, 21 [= ? *Oolitic concretions*].
- GLOBULINA**, Deshayes. Ency. Méth. "Vers" ii, 1830, "Cephalopodes" [Sign. Ff 2], 234. [The "7th Fam." of Deshayes' "Tableau" containing the proposed genera "Spirosphérine" and "Polysphérine."]
- GLOBULINA** [Costa], see *Globulina*, Costa. Atti Accad. Pontaniana, vii, (2), 1856.
- GLOMOSPIRA**, Rzehak. See *Ammodiscus gordialis*.
- GONIOLINA**, d'Orbigny, 1847. ["Fruit agrégé d'une Spadiciflore jurassique, l'affinité avec les Pandanées." Saporta & Marion, Comptes-Rendus, xcii, 1881, 1268.
- **hexagona**, d'Orb., 1847. D'Orbigny, Prodrôme de Paléont. ii, 1850, 41, No. 622.
- 2 sp. Buvignier, Stat. géol. etc., Meuse, 1852, Atlas, 47, pl. xxxii.
- GRAMMOBOTRYS**, Ehrenberg, 1845.
- **africana**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 368.
- **anglica**, Ehr. Mikrogeologie, 1854, xxviii, 32 [= *Virg. hemprichii*].
- P — **parisiensis**, Ehr. *Ibid.* 1854, xxvii, 30 and 31 [= *Sphaeroid. bulloides*].
- Ehrenberg, see *Textularia*.
- GRAMMOSTOMUM**, Ehrenberg, 1838. Abhandl. k. Ak. Wiss. Wien, Berlin, 1838 (1840), 119.
- **aciculatum**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844; and Mikrogeologie, 1854, xxi, 85 [*Boliv. punctata*].
- ——— Mikrogeologie, 1854, xx, ii, 10 ("Textil. aciculata, 1838") [= *Boliv. dilatata*, Reuss].
- **aculeatum**, Ehr. *Ibid.* 1854, xxxv, B, iv, A, p [= *Yulvul. aculeata* (Ehr.)].
- ——— *Ibid.* 1854, xxviii, 17 [near *Verneuil. spinulosa*, Reuss].
- ——— *Ibid.* 1854, xxx, 13 ("Textil. spinosa, 1838, partly") [T. subangulata, d'O; compare T. murie].
- **ægyptiacum**, Ehr. *Ibid.* 1854, xxiii, 9 and 10.
- **americanum**, Ehr. *Ibid.* 1854, xxxii, i, 11 [= *Virg. schreibersii*].
- ——— *Ibid.* 1854, xxxii, ii, 15 [= *Boliv. dilatata*].
- ——— Hopkins. Execut. Doc., 45 Congress, Sess. 3, iv, Rpt. Chief Engineers, (2), App. W, 1878-79, 8-5, i, 60.
- **amphirhoæ**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 20.
- ——— Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 6.
- **angulatum**, Ehr. Mikrogeologie, 1854, xxiii, 11 and 12.
- ——— *Ibid.* 1854, xxvii, 10 [= *Boliv. punctata*].

- GRAMMOSTOMUM angulatum**, Ehr. Mikrogeologie, 1854, xxxi, 16 [= *Text. agglutinans*].
 ———— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 161 [Glauc.], II, iii [= *Text. sagittula*].
 ———— **angustipes**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 282.
 ———— **angustum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 368.
 ———— **apiculatum**, Ehr. Mikrogeologie, 1854, xxvi, 13 [= *Vulvul. pennatula* (Batsch.)].
 ———— **arenicola**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 21.
 ———— **areolatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 166.
 ———— **aristotelis**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 20.
 ———— **armatum**, Ehr. (cfr.) *Guthulina armata*.
 ———— **astigma**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 20.
 P ———— **attenuatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 368.
 ———— Ehr., Mikrogeologie, 1854, xxxi, 22 [= *Boliv. dilatata*].
 ———— ? ———— Ehr., *Ibid.* 1854, xxiii, 20, 22 and 23 (the same as *Text. aciculata*, 1838").
 ———— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 161 [Glauc.], II, II [= *Text. sagittula*].
 P ———— **(Strophocoonus?) bulligerum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
 ———— **bursigerum**, Ehr. Mikrogeologie, 1854, xxxvii, xi, A-D, 9 [= ? *Textularium*].
 ———— **caloglossa**, Ehr. *Ibid.* 1854, xxv, 1, A, 17 and 18 [= *Boliv. punctata*].
 ———— **capreolus**, Parker & Jones. Annals Mag. N. H., [3], xi, 1863, 93.
 ———— **carinatum**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1847, 446, ii, 81 [= *Boliv. costata* (?) d'O].
 ———— **caudatum**, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1861, 304.
 ———— **cerberi**, Ehr. *Ibid.* 1858, 21.
 P ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 2.
 ———— **confluens**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 369.
 ———— **conjunctum**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 19, iii, 10 [= *Bolivina*].
 ———— **connivens**, Ehr. Mikrogeologie, 1854, xxiv, 22 and 23 [= *Boliv. dilatata*].
 ———— **convergens**, Ehr. *Ibid.* 1854, xxv, ii, B, 4 [= *Text. agglutinans*].
 ———— Ehr., *Ibid.* 1854, xxix, 25, 26 [25? and 26 = *Boliv. punctata*].
 ———— **cordatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 368.
 ———— **coronatum**, Ehr. *Ibid.* 1845, 369.
 ———— **coscinopleurum**, Ehr. *Ibid.* 1843, 166.
 ———— **costulatum**, Ehr. Mikrogeologie, 1854, xxv, i, A, 21 [near *Boliv. costata*].
 ———— **cribrosum**, Ehr. *Ibid.* 1854, xxiv, 19 [= *Boliv. punctata*].
 ———— **cribrum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67 and 93; and Mikrogeologie, 1854, xxi, 82 [= *Boliv. dilatata*].
 P ———— **decurrens**, Ehr. Mikrogeologie, 1854, xxx, 17 [= *Virg. squamosa*; v. also *Bolwina*].
 ———— **denticulatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 271.
 ———— **depressum**, Ehr. *Ibid.* 1844, 93; and Mikrogeologie, 1854, xix, 82 [= *Text. gibbosa*].
 ———— Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 21.
 ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 3.
 ———— **(Vulvulina) dilatatum**, Reuss, Zeitschr. deutsch. geol. Ges. III, 1851, 162, viii, 8.
 ———— **dilatatum**, Ehr. Mikrogeologie, 1854, xxix, 23 [= *Bolwina*].
 ———— **divergens**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67, 93 and 206 [v. *Guthulina*].
 ———— Ehr., Mikrogeologie, 1854, xxi, 86 [= *Boliv. dilatata*].
 ———— **elegans**, d'Orbigny. Reuss in Geinitz, Grundr. Verstein. 1845-46, 679, xxiv, 77 [*Vulvulina*, 1826].
 ———— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 236, xxxv*, 31a, b.
 ———— P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 170, xi, 123.

- GRAMMOSTOMUM elegans**, Ehrenberg. Mikrogeologie, 1854, xx, ii, 7 [= *Boliv. punctata*].
- ? — **euryleptum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 304.
- ? — — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 8.
- **eurytheca**, Ehr. Mikrogeologie, 1854, xxv, i, A, 24 [= *T. sagittula*].
- **falsx**, Ehr. *Ibid.* 1854, xxiii, 13.
- — — — — Harting, Verh. Kon. Ak. Wetensch. x, 1864, 10, i, 11.
- **fasciatum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
- **gracile**, Ehr. Abhandl. k. preuss. Ak. Wiss. Berlin, 1841, 426.
- — — — — Ehr., Mikrogeologie, 1854, xxvii, 25 [= *Virg. squamosa*].
- — — — — *Ibid.* 1854, xxx, 9 [= *Virg. schreibersii*].
- (Vulvul.) **gramen**, d'Orbigny. Zittel, Handbuch Palæont. (1), 1876, 90, f. 27³ [*Vulvulina*, 1839].
- **hedyglossa**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 305.
- — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 3.
- **incrassatum**, Ehr. Mikrogeologie, 1854, xxxi, 21 [= *Virg. schreibersii*].
- **increscens**, Ehr. *Ibid.* 1854, xxiii, 15.
- **invalidum**, Ehr. *Ibid.* 1854, xxxii, ii, 17 [= *T. agglutinans* (near)].
- **læve**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 369.
- **laterale**, Ehr. *Ibid.* 1844, 92; and Mikrogeologie, 1854, xix, 83 [= *Boliv. punctata*].
- **laxum** P, Ehr. Mikrogeologie, 1854, xxv, i, A, 15 [= ? *Virg. hemprichii*].
- — — — — P — — — — — *Ibid.* 1854, xxxi, 26 [= *Polym. lactea*, W. & J.].
- ? — (Strophoc.?) **leptoderma**, Ehr. *Ibid.* 1854, xxv, i, A, 23 [= *T. sagittula*, young].
- ? — — — — — Ehr. *Ibid.* 1854, xxvi, 11 and 12 [= *Virg. schreibersii*].
- **lineare**, Ehr. *Ibid.* 1854, xxix, 27 [*Boliv. punctata*].
- **lingua**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 369.
- — — — — Mikrogeologie, 1854, xxiv, 24 and 25 [= *Virg. squamosa*].
- — — — — *Ibid.* xxvii, 15 [*Virg. squamosa*].
- **littorale**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 21.
- **macilentum**, Ehr. Mikrogeologie, 1854, xxvii, 16 [= *Virg. tegulata*, Reuss].
- **maculatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 166.
- **megaloglossum**, Ehr. Mikrogeologie, 1854, xxxi, 27 [= *Virg. squamosa*, fragment].
- **megastigma**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 369.
- **micromega**, Ehr. Mikrogeologie, 1854, xxv, i, A, 22 [= *T. sagittula*, fragment].
- **millepora**, Ehr. *Ibid.* 1854, xxx, 11 [= *Boliv. dilatata*].
- (Polymorph ?) **myoglossum**, Ehr. *Ibid.* 1854, xxvii, 18 [= *Virg. squamosa*, fragment].
- **nanum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
- **pachyderma**, Ehr. Mikrogeologie, 1854, xxvii, 9 a, b ('*Text. aciculata* 1838 = several thin species of *Grammostomum*') [= *Boliv. punctata*].
- — — — — Ehr., *Ibid.* 1854, xxxi, 23 and 24 [= *Virg. schreibersii*].
- **pennatula** (Batsch) P., J. & B. [Soldani], Ann. Mag., [4], VIII, 1871, 162, xi, 121 [v. *Ling. soldani*, d'O.].
- — — — — see *Nautilus* (O.) and *Vulvulina*.
- **perfoliatum**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 19, iii, 14.
- **phyllodes**, Ehr. Mikrogeologie, 1854, xxiii, 18 and 21 [= ? *Boliv. punctata*].
- — — — — *Ibid.* 1854, xxvi, 14 and 15 [= *Boliv. punctata*].
- — — — — *Ibid.* 1854, xxxii, ii, 16 [= *Virg. squamosa*].
- **pilulare**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 305.
- — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 4.
- **pinna**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 304.
- — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 12.
- **pinnula**, Ehr. Mikrogeologie, 1854, xxix, 24 [= *T. gibbosa*].
- — — — — *Ibid.* 1854, xxx, 14 [= *Boliv. dilatata*].

- GRAMMOSTOMUM platystigma**, Ehr. Mikrogeologie, 1854, xxvii, 13 [*Boliv. dilatata*].
- **platythesca**, Ehr. *Ibid.* 1854, xxviii, 33 [= *Text. gibbosa*].
- *Ibid.* 1854, xxx, 10a, b [= *Text. sagittula*].
- **plica**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67 and 93; and Mikrogeologie, 1854, xxi, 84 [= *Boliv. punctata*].
- **plicatum**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 426.
- **polyporum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 369.
- **polystigma**, Ehr. *Ibid.* 1844, 92; and Mikrogeologie, 1854, xix, 84 [= *Boliv. punctata*].
- *Ibid.* Mikrogeologie, 1854, xxiii, 16.
- *Ibid.* 1854, xxiv, 18; xxv, ii, B, 3; xxvi, 17; xxvii, 11 [= *Text. sagittula*].
- *Ibid.* 1854, xxix, 22 [= *Boliv. dilatata*].
- **polythesca?**, Ehr. *Ibid.* 1854, xxxiii, 8.
- (prox.) *Ibid.* Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1854, 247.
- ? *Ibid.* Mikrogeologie, 1854, xxv, i, A, 16, 19 and 20 [= *Boliv. punctata*].
- **polytrema**, Ehr. *Ibid.* 1854, xxviii, 15 and 16 [= *Virg. schreibersii*, Czj.].
- **ponti**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 22.
- *Ibid.* Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 5.
- **porosum**, Ehr. *Ibid.* 1841, 426.
- **pupa**, d'O. P., J. & B. [Soldani], Ann. Mag. [4], viii, 1871, 169, xi, 122 [*Vulvulina*, 1826].
- **pupilla orci**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 247.
- **rhomboidale**, Ehr. Mikrogeologie, 1854, xxiii, 17.
- *Ibid.* Ehr. 1854, xxix, 28 [= *Virg. squamosa*].
- *Ibid.* Ehr. *Ibid.* 1854, xxxii, ii, 19 [= *Boliv. dilatata*].
- **rossicum**, Ehr. *Ibid.* 1854, xxxi, 18 and 19 [= *Text. sagittula*].
- **rotundatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 370.
- **scabrum**, Ehr. Mikrogeologie, 1854, xxviii, 14 [= *Text. agglutinans*].
- **secundarium?**, Ehr. *Ibid.* 1854, xxxi, 20 [= *Text. agglutinans*].
- **semiporosum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 370.
- **seriatum**, Ehr. *Ibid.* 1845, 370.
- **siculum?**, Ehr. Mikrogeologie, 1854, xxiii, 14.
- *Ibid.* 1854, xxvi, 16 ("Text. aciculata, 1838, in part") [= *Boliv. punctata*].
- **simplex**, Ehr. *Ibid.* 1854, xxxiii, xiii, 27 [= *Boliv. dilatata?*].
- **spatiosum**, Ehr. *Ibid.* 1854, xxv, i, A, 14 [= *Boliv. punctata*].
- **sphærostigma**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 370.
- **strophoconus**, Ehr. *Ibid.* 1843, 272.
- **stygium**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
- **subacutum**, Ehr. Mikrogeologie, 1854, xxv, i, A, 12 [near *Text. agglutinans*].
- **substriatum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 22.
- **sulcatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 370.
- *Ibid.* Ehr., Mikrogeologie, 1854, xx, ii, 9 [= *Boliv. costata*].
- **tenellum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
- *Ibid.* Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), vi, 14a, b.
- **tenuis**, Ehr. *Ibid.* 1841, 426, iii, vii, 45 [= *Virgul. schreibersii*, Czj.].
- **tessera**, Ehr. Mikrogeologie, 1854, xxxii, ii, 18 [= *Virg. henprichii*].
- **thebaicum?**, Ehr. *Ibid.* 1854, xxiii, 19 [v. *Bolivia*] [= ? *Virg. henprichii*].
- *Ibid.* *Ibid.* 1854, xxiv, 20 and 21 [= *Boliv. dilatata*].
- *Ibid.* 1854, xxvii, 12 [= between *Text. agglutinans* and *Text. sagittula*].
- *Ibid.* *Ibid.* 1854, xxxi, 25 [= *Virg. schreibersii*].
- **thoæ**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 22.
- *Ibid.* Ehr. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 4.
- **tumens**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- **turio**, Ehr. Mikrogeologie, 1854, xxvi, 19 [= *Virg. henprichii*].
- **umbra**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283 and 284.
- *Ibid.* Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 6.

- GRAMMOSTOMUM** *validum*, Ehr. Mikrogeologie, 1854, xxxii, i, 12 [*T. gibbosa* type].
- *verrucosum*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 284.
- sp. ind., Hopkins. Execut. Docum. 45 Congress, Sess. 3, iv, Report Chief Engineers, (2), 1879, 1878-79, Append. W, 885, i, 58.
- P ——— *Ibid.* 1878-79, 885, i, 59.
- P ——— Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1847, 446, ii, 80 [*T. agglutinans*, d'O.].
- *Ibid.* 1855, 161, ii, v [*Glauc.*] [= *Text. sagittula*].
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- *brunnerii*, Blanc. Rec. Zool. Suisse, iv, 1888, 49, xxiv, 1-9.
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- ——— v. **sphæroidalis**, Carter. *Ibid.* xx, 1877, 173.
- ——— Brady, Report Challenger, 1884, 718, ci, 9-12 [see *Orbitolina*].
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 ——— **soldanii**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 278, No. 5 [= *Rotalia*].
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 The species described by Gümbel (to whom refer for synonymy) are: *æqualis*, G.; *annulata* (Schafh.); *curcata*, G.; *cylindrica*, G.; *debilis*, G.; *dissita*, G.; *infundibuliformis*, G.; *macrostoma*, G.; *minutula*, G. [*minutula*]; *multiserialis*, G.; *pauciperforata*, G.; *silesiaca*, G.; *triasina* (Schaur.); *vesiculifera*, G.
 See also Karrer, Abh. k. k. Geol. Reichs. ix, 1877, 377, xvii; Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 27, pl. 120; Alth, Rozprawy i sprawozd. mat. Przy. Ak. Umiej. [Krakowie], v, 1878, 71, pls. vi and vii; and Pamietnik Akad. Umiej. Krakowie, vi, 1881, 135-137, and Mojs. u. Neumay. Beitr. i, 1882, 317-320 [In the "Beiträge" the genus is altered to *Actinoporella*]; and Stache, Abh. k. k. geol. Reichs. xiii, 1889, 89.
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 ——— **gigantea**, Bessels. *Ibid.* ix, 1875, 265, xiv, 1-9.
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 ——— **capitulatum**, Möbius. Beilage Tagebl. 49 Vers. deutsch. naturfor. Hamburg, 1876, 115, no fig.
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- *beccarii* seu *vulgarissimæ*, Sold. Testac. I, (1), 1789, 55, 34, *K* [*Rotalia (Turbinulina) ammoniformis*, d'O., Ann. Sci. Nat. VII, 1826, 276, 55].
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- ——— Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 218, xli, 14 and 22.
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- HELICOZA**, Möbius, 1880. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 103 [= *Polystomella*].
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- HELICOSORINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. I [a family group name].
- HELICOTROCHINA**, Ehrenberg, 1838. *Ibid.* 1838 (1840), Tab. I [a family group name].

- HELMINTHOLITHUS**, von Born. Index fossilium, Pragæ, 1775, 28 [= *Cyclothes hemisphærica*, an anthozoan].
- HEMICRISTELLARIA**, Stache, 1864. Novara-Exped., Geol. (1), 1864, 222.
- **corcellum**, Stache. *Ibid.* (1), 1864, 223, xxiii, 2a, b.
- **excavata**, Stache. *Ibid.* (1), 1864, 224, xxiii, 3a, b.
- **infrapapillata**, Stache. *Ibid.* (1), 1864, 224, xxiii, 4a, b.
- **procera**, Stache. *Ibid.* (1), 1864, 222, xxiii, 1a, b.
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- HEMISTICTA**, Ehr., 1872.
- **amplificata**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 284.
- ——— Ehrenberg, Abh. k. preuss. Ak. Wiss. Berlin, 1872 (1873), iii, 12 [= *Pulvinulina*].
- HERION rostratus**, Montfort. Conch. syst. 1, 1808, 231, 58th genre [= *Cristallaria rostrata*].
- HETRASTRIDIUM**, Reuss, v. *Stoliczkania*.
- HETEROGYSTINA**, Smedley, Ency. Metrop. 1845, error for *Heterostegina*.
- HETEROHELIX**, Ehrenberg, 1843. [Changed by Ehrenberg to *Spiroplecta* in 1844. See Brady, Challenger, 1884, 375.]
- HETEROLEPA**, Franzénau, 1884. Termés. Füzetek, viii, 1884, 181 and 214 [founded on *Rotalina dutemplei*, d'O.].
- **bullata**, Franz. *Ibid.* viii, 1884, 184 and 217, v, 5, 7, 9 and 11.
- **costata**, Franz. *Ibid.* 183 and 216, v, 2 and 8.
- **dutemplei**, d'Orb. *Ibid.* ix, 1885, 151, vii, 1-4 [*Rotalina*, 1846].
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- **simplex**, Franz. *Ibid.* 182 and 215, v, 1.
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- HETEROSTEGINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 305; Brady, Report Challenger, 1884, 745.
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- ——— Quenstedt, Handb. Petref. ed. 3, (5), (1885), 1058, lxxxvi, 57.
- **carpatica**, Uhlig. Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 201, ii, 14 and 15; and 202, f. 10.
- **clathrata**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 165, iii, x [= *Amphisteg. javonica*, Ehr.] [Glauc.].
- **complanata**, Meneghini. Paléont. Ile Sardaigne, 1857, 544, II, 6, 6', 6a, 6b, 6b'.
- **costata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 212, xii, 15-17.
- ——— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 205, xxxv², 5a-c.
- ——— Reuss' Model. No. 80, 1865 (Catal. No. 100, 1861).
- ——— Roemer. Geologie von Oberschlesien, 1870, 394, xli, 12-14.
- ——— Zittel, Handbuch Palæont. 1, 1876, 102, f. 42.
- ——— Karrer, Abh. k. k. geol. Reichs. ix, 1877, 388, xvib, 60.
- ——— Hoernes, Elem. Palæont. 1884, 27, f. 17; French ed., 1886, same fig.
- **curva**, Möbius. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 105, xiii, 1-6 [structural].

- HETEROSTEGINA depressa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 305, No. 2, xvii, 5-7.
- _____ d'Orbigny, Modèles, 1826, No. 99.
- _____ Cuvier, Règne Animal, 1836-46, ix (pls. x), 35, xiv, 2.
- _____ Smedley, Ency. Metrop. 1845, undescr., pl., "Mollusca?," 37 and 38.
- _____ P., J. & B. [D'O., Modèles 99] Ann. Mag. Nat. Hist. [3], xvi, 1865, 34, iii, 100.
- _____ v. **simplex**, d'Orb. Goës. K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 117, viii, 303 [v. *H. simplex*].
- _____ Brady, Report (Challenger, 1884, 746, cxii, 14-20.
- _____ Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 164, fig.
- _____ Gümbel, Geol. Bayern, I. (2), 1885, f. 266, 29.
- _____ Ferrigi, Mem. R. Acc. Lincei, (4), VI, 1889, 122, x, 1.
- _____ **discorbiformis** (Pusch). Quenstedt, Handbuch Petref. v, 1885, 1058, f. 398 [*Nammulina*, 1837].
- _____ **grotriani**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 164, iv, 18.
- _____ **helvetica**, Kaufmann. Beitr. geol. Karte Schweiz. (5), 1867, 153, ix, 6-10.
- _____ **papyracea**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 90, ix, 4, 4a.
- _____ **pleurocentralis**, Carter (n. sp.?). Annals Mag. Nat. Hist. [3], viii, 1861, 460; Journ. Bombay Branch R. Asiatic Soc. VI, 1861 (1862), 86, not figured.
- _____ **puschii**, Zejszner. Bibl. warszawska, 1862, iv, str. 230, 472 i, 475 [quoted from the *Pamiętnik Fizyj.*, IV, 1884, 72].
- _____ **puschii**, Reuss [*vide* Quenstedt], Handbuch Petref. ed. 3, (5), (1885), 1058, lxxxvi, 58.
- _____ **reticulata**, Rütlimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, iv, 61.
- _____ Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 662, ii, 110a, b.
- _____ Hantken, A. magy. kir. földt. int. évkönyve, iv, 1875 (1876), 70, xii, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt. iv, 1875 (1881), 81, same pl. and fig.
- _____ Schwager, Boll. R. Com. Geol. Ital. VIII, 1878, 25, pl., 23.
- _____ **ruida**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 145, xxix (6), 6a-e.
- _____ **simplex**, d'Orbigny. Foram. Fossiles Vienne, 1846, 211, xii, 12-14.
- _____ Pictet, Traité de Paléont. ed. 2, iv, 1857, 516, cix, 36.
- _____ **suborbicularis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 305, No. 1.
- _____ **tuberculata**, Möbius. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 107, xii, 3-7 [structural].
- _____ sp. (after Carpenter). Reuss' Model. No. 92, 1865 (Catal. No. 99, 1861).
- _____ ind. Abich, Geol.forsch. Kankas. Ländern, II, 1882, 236, x, 7.
- _____ Carpenter, Phil. Trans. 1856, 562, xxxi, 1, 7 and 11.
- _____ Carpenter, Parker & Jones, Introd. Foram. 1862, 288, xix, 1; figs. xlv-xlvii in text [structural].
- _____ Kölliker, Icones Histologicæ, 1864, 32 [structural].
- _____ Carpenter, Ency. Brit. ed 9, ix, 1879, "Foraminifera." 382, f. 28.
- _____ Bütschli in Bromm, Klassen, etc., Thier-Reichs, 1880, 215, x, 5.
- _____ Carpenter, The Microscope. ed. 6, 1881, 584, f. 238.
- HETEROSTOMELLA**, Reuss, 1865. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865, 448 [referred to *Gaudryina* by Brady, Report Challenger, 1884, 377].
- _____ [v. Parker & Jones, Geol. Mag. 1871, 508].
- _____ **aculeata** (Ehrenberg). v. *Loxostomum*.
- _____ **lævis**, Parker & Jones. Annals Mag. Nat. Hist. ix, 1872, 298; x, 1872, 198.
- _____ **leopolitana**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, ix, 1875, 136, ii, 9.
- _____ **rugosa** (d'Orb.). Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 100 [v. *Sarvina*].
- _____ **tumens** (Ehr.). Jones, Cat. Foss. Foram. B. M., 1882, 88 [v. *Loxostomum*].

- HETEROSTOMUM**, Ehrenberg, 1854.
 ——— *alternans*, Ehr. Mikrogeologie, 1854, xxx, 37 [= *Virg. hemprichii*, passing towards *Cassidulina*].
 ——— *cyclostomum*, Ehr. *Ibid.* 1854, xxviii, 31 [= *Text. gibbosa*].
 ——— *nucula*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 305.
- HIPPOCREPINA**, Parker, 1870. In Dawson, Canad. Nat. n. s. v, 1870, 176; Brady, Report Challenger, 1884, 324.
 ——— *indivisa*, Parker. Dawson, Canad. Nat. n. s. v, 1870, 176, f. 2.
 ——— ——— Dawson, Amer. Journ. Sci. [3], 1, 1871, 206, f. 2; and *Annals Mag. N. H.* [4], vii, 1871, 86, f. 2.
 ——— ——— Brady, *Ann. Mag. Nat. Hist.* [5], viii, 1881, 407, xxi, 3*a*, *b*, and 4.
 ——— ——— Brady, *Denkschr. k. Ak. Wiss. Wien*, XLIII, (2), 1882 [1881], 100, ii, 3*a*, *b*, 4.
 ——— ——— Brady, Report Challenger, 1884, 325, xxvi, 10-14.
- HOLOCOCCUS?**, Ehrenberg, 1859. See *Miliola (Holococcus?) panderi*, Ehr. Monatsber. k. preuss. Ak. Wiss. 1862, 601, pl. 7-11 [= *Lagena?*].
- HOLOCLADINA pustulifera**, Carter. *Ann. Mag. Nat. Hist.* [5], v, 1880, 447, xviii, 4*a-g*. [One of the *Testamæbiformiæ*; Brady, Report Challenger, 1884, 77].
- HORMOSINA**, Brady, 1879. *Q. Journ. Micr. Sci.* xix, 1879, 56; Brady, Report Challenger, 1884, 325.
 ——— *carpenteri*, Brady. *Quart. Journ. Micros. Sci.* xxi, 1881, 51 [v. "Molliform *Lituola*," 1875].
 ——— ——— Carpenter, *The Microscope*, ed. 6, 1881, 563, f. 321, *f*.
 ——— ——— Brady, Report Challenger, 1884, 327, xxxix, 14-18.
 ——— *globulifera*, Brady. *Q. Journ. Micr. Sci.* xix, 1879, 60, iv, 4 and 5.
 ——— ——— Carpenter, *The Microscope*, ed. 6, 1881, 563, f. 320, *c*.
 ——— ——— Brady, Report Challenger, 1884, 326, xxxix, 1-6.
 ——— ——— De Folin, *Le Naturaliste*, x, 1888, 87, f. 1 and 2.
 ——— *monile*, Brady. *Quart. Journ. Micr. Sci.* xxi, 1881, 52.
 ——— ——— Brady, Report Challenger, 1884, 328, xxxix, 10-13.
 ——— *normani*, Brady. *Quart. Journ. Micr. Sci.* xxi, 1881, 52.
 ——— ——— Brady, Report Challenger, 1884, 329, xxxix, 19-23.
 ——— *ovicula*, Brady. *Q. Journ. Micr. Sci.* xix, 1879, 61, iv, 6.
 ——— ——— Bütschli in Bronn, *Klassen, etc.*, Thier-Reichs, 1880, 199, v, 15.
 ——— ——— Brady, Report Challenger, 1884, 327, xxxix, 7-9.
- HORTOCERATIA**, Soldani. *Testaceographica*, 1759 II, App. 141, 5, 37 *m*, *M* [*Nodos. affinis*, d O. *For. Foss. Vienne*, 1846, 39, 1, 36-39].
 ——— *vaginulam gladii referentia*, Sold. *Ibid.* 1789, II, App. 141, 6, 44*n*, *N* [*Vaginulina striata*, d O. *Ann. Sci. Nat.* vii, 1826, 257, 3].
- HYALEINA**, Costa. *Atti Accad. Pontaniana*, vii, (2), 1856, not descr., xviii, 22-25 [= *Lagena marginata*].
- HYBRIDINA**, Kübler & Zwingli, 1866. *Neujahrsblatt Burgersbibl. Winterthur*, 1866, 8.
 ——— *liasica*, Kübler & Zwingli. *Ibid.* 1866, 8, 1, 10 [= *Dentalina*, deformed].
 ——— *obliqua*, Kübler & Zwingli. *Ibid.* 1866, 9, 1, 21 [= *Dentalina*].
- HYMENOCYCLUS**, Bronn, 1851-2. *Lethæa Geognostica*, ed. 3, II, 1851-52, 94.
 ——— *concameratus*, Schafhäütl. *Sud-Bayerns Lethæa Geog.* 1863, 108, xiv, 9*a-c*.
 ——— *symbolum*, Schafhäütl. *Ibid.* 1863, 107, xiv, 7*a*, *b*.
 ——— *faujasi* (Defr.) Bronn, *Lethæa Geognostica*, ed. 3, II, 1851-52, 94, xxix¹, 29 [*Lycophris*, 1824].
- ♀ ——— *mantelli* (Morton). *Ibid.* ed. 3, III, 1853-56, 253, xxxv³, 11 [*Nummulites*, 1833].
 ——— *papyraceus* (Boub.). *Ibid.* ed. 3, III, 1853-56, 251, xxxv³, 10*a-g* [*Nummulites*, 1832].
 ——— *patellaris*, Schafhäütl. *Sud-Bayerns Lethæa Geog.* 1863, 108, xv, 3*a*, *b*, *c* [*Asterodiscus* on plate].
 ——— *rugosus*, Schafhäütl. *Ibid.* 1863, 107, xiv, 6*a-d*.
 ——— *umbo*, Schafhäütl. *Ibid.* 1863, 106, xiv, 5*a-k*, 8*a-c* [*Nummulina*, 1846].
- HYPERAMMINA**, Brady, 1878. *Ann. Mag. Nat. Hist.* [5], 1, 1878, 433; Brady, Report Challenger, 1884, 257.

- HYPERAMMINA arborescens** (Norm.). Brady, Report Challenger, 1884, 262, xxviii, 12 and 13; and f. 10, p. 263 [*Psammatodendron*, 1881].
 ——— Wright, Proc. Belfast Nat. Field Club, 1884-5, App. ix, 1886, 319, xxvi, 1.
 ——— **elongata**, Brady. Ann. Mag. Nat. Hist. [5], i, 1878, 433, xx, 2a, b.
 ——— Goëss, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 142, xii, 426-429.
 ——— Brady, Report Challenger, 1884, 257, xxiii, 4, 7-10.
 ——— Balkwill & Wright, Trans. R. I. Ac. xxviii (Sci.), 1885, 328, xiii, 4a, 4b.
 ——— Agassiz, Three Cruises "Blake," ii, 1888, 162, f. 491.
 ——— v. **clavatula**, Howchin. Journ. R. Microsc. Soc. 1888, 535, viii, 1, 2.
 ——— **friabilis**, Brady. Brady, Report Challenger, 1884, 258, xxiii, 1-3, 5, 6.
 ——— **palmiformis**, Pearcey. Proc. N. H. Soc. Glasgow, n. s. ii (1888), 171, iii, 1-4.
 ——— **ramosa**, Brady. Q. Journ. Micr. Sci. xix, 1879, 33, iii, 14 and 15.
 ——— Brady, Report Challenger, 1884, 261, xxiii, 15-19.
 ——— Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 217, xli, 1-4, 13.
 ——— **subnodosa**, Brady. Report Challenger, 1884, 259, xxiii, 11-14.
 ——— **vagans**, Brady. Q. Journ. Micr. Sci. xix, 1879, 33, v, 3.
 ——— Moseley, Nature (Apr. 15, 1880), xxi, 570, f. 11c.
 ——— Haeusler, Neues Jahrbuch, 1883, i, 58, iii, 7-10.
 ——— (spiral var.). Haeusler, Quart. Journ. Geol. Soc. xxxix, 1883, 26, ii, 2-6.
 ——— Brady, Report Challenger, 1884, 260, xxiv, 1-9.
 ——— Howchin. Journ. R. Microsc. Soc. 1888, 535, viii, 3.
 ——— Brady. De Folin, Bull. Soc. Nat. Hist. Toulouse, xv, 1881, 135; 15 new species proposed but not described!
- HYPERAMMINELLA**, Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 1881, 140, not described: 1 species proposed.
 ——— de Folin. Le Naturaliste, ix, 1887, 114, f. 9.
- IDALINA**, Schlumberger & Munier Chalmas, 1884. Bull. Soc. géol. France, [3], xii, 1884, 629; xiii, 1885, 298, etc.
 ——— **antiqua** (d'Orb.). Mém.-Ch. & Schlumb., *Ibid.* [3], xiii, 1885, 292, f. 17; 296, etc., f. 22-35; and pl. xiii [structural] [*Biloculina*, 1847].
- ILOTES rotalitatus**, Montfort. Conch. Syst. i, 1808, 199, 50th genre [= *Orbic. adunca*].
- ILYOPEGMA**, de Folin. Bull. Soc. N. H. Toulouse, xv, 1881, 139; not described, 1 species proposed.
- ILYOPERIDIA**, de Folin. *Ibid.* xv, 1881, 139; not described, one species proposed.
- ILYOSPHERA**, de Folin, 1882. Congrès Scient. Dax, 1882 (1883), 328 [not described].
- ILYOZOTIKA**, de Folin. Bull. Soc. N. H. Toulouse, xv, 1881, 139; not described, 1 species proposed.
- INVOLUTINA**, Terquem, 1862. Mém. Ac. Imp. Metz, xii, 1862, 450.
 ——— **aspera**, Terquem. *Ibid.* xlii, 1863, 431, x, 21a, b [= *Annodiscus incertus*].
 ——— **carbonica**, Schwager. Pal. Indica, [13], No. 7, 1887, 992, cxxviii, 7-9.
 ——— **crassa**, Brady. Rept. Brit. Assoc. (Exeter), 1869, 382, not figured [v. *Endothyra*].
 ——— **cylindrica**, Brady. *Ibid.* 1869, 382, not figured.
 ——— **cylindroides**, Brady. *Ibid.* 1869, 382, not figured.
 ——— **deslongchampsii**, Terquem. Mém. Ac. Imp. Metz, xlii, 1863, 432, x, 12 [22] a, b [v. *Problematica*].
 ——— **incerta**, Brady, Rept. Brit. Assoc. (Exeter), 1869, 382, not figured.
 ——— **jonesi**, Terq. & Piette. Terquem, Mém. Ac. Imp. Metz, xlii, 1862, 461 vi, 22a, b, c.
 ——— **liassica** (Jones). Brady, Geol. Mag. i, 1864, 193, ix, 1-6 [*Nummulites*, 1853].
 ——— [**liassina**] ——— Bornemann, Zeitschr. deutsch. geol. Ges. xxvi, 1874, 713, xviii, 1-3; xix, 1-7.

- INVOLUTINA liassica**, (Jones). Tate & Blake, Yorkshire Lias, 1876, 453, xviii, 6, 6a.
- [*liassina*, (Jones)]. Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 54.
- [*liassina* (Jones)]. Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 209, ix, 12.
- *limitata*, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 433, x, 24a, b [v. *Silicina*].
- *lobata*, Brady. Rept. Brit. Assoc. (Exeter), 1869, 382, not figured [referred to *Endothyra Bowmani*, 1876].
- *macella*, Brady. *Ibid.* 1869, 382, not figured [v. *Endothyra*].
- *nodosa*, Terquem. Sixième Mém. Foram. Lias, 1866, 523, xxii, 25a, b [v. *Problematina*].
- *obliqua*, Brady. Rept. Brit. Assoc. (Exeter), 1869, 382, not figured [v. *Endothyra*].
- *petrea*, Terquem. Cinquième Mém. Foram. Lias, 1866, 446, xviii, 17a, b, c [v. *Problematina*].
- *polymorpha*, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 432, x, 23a, b, c [v. *Silicina*].
- *radiata*, Brady. Rept. Brit. Assoc. (Exeter), 1869, 382, not figured [v. *Endothyra*].
- *recta*, Brady. *Ibid.* 1869, 382, not figured.
- *silicea*, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 450, vi, 11a, b [= *Anmodiscus incertus*].
- *subrotundata*, Brady. Rept. Brit. Assoc. [Exeter], 1869, 382, not figured.
- ITEITÆ**, Schencher. Misc. cur. Ephem. Acad. Cæs. Leop., Dec. III, Append. Anno v and vi (1700), 63, f. j [= *Nummulites*].
- JACULELLA**, Brady, 1879. Q. Journ. Micr. Sci. xix, 1879, 35; Brady, Report Challenger, 1884, 255.
- *acuta*, Brady. Q. Journ. Micr. Sci. xix, 1879, 35, iii, 12 and 13.
- Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 143, xii, 432.
- Brady, Report Challenger, 1884, 255, xxii, 14-18.
- *obtusa*, Brady. Proc. Roy. Soc. Edinburgh, xi, 1882, 714, not figured.
- Brady, Report Challenger, 1884, 256, xxii, 19-22.
- De Folin, Bull. Soc. N. H. Toulouse, 1881, xv, 133; 10 new species proposed but not described!
- JESITES vermicularis**, Montfort. Conch. Syst. i, 1808, 103, 26th genre [= ? *Serpula*; ? *Pulvinulina*; ? *Spirillina*].
- JULIA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 1881, 141, not described, 6 species proposed!
- KALAMOPSIS**, Folin, 1882. Congrès Scient. Dax, 1882 (1883), 320 [? foraminiferal]. Involucrum irregulariter subcylindricum, tubularium, elongatum, ad unam extremitatem closum, ad alteram forsam apertum, subvitreum, interdum inflatum sicut geniculatum.
- *vallanti*, Folin. *Ibid.* 1882 (1883), 320.
- De Folin, Actes Soc. Linn. Bordeaux, xl, (5), 1887, 288, viii, 12a-c.
- KERAMOSPHERA**, Brady, 1882. Ann. Mag. Nat. Hist. [5], x, 1882, 245; Brady, Report Challenger, 1884, 225.
- *murrayi*, Brady. Ann. Mag. Nat. Hist. [5], x, 1882, 245, xiii, 1-4.
- Brady, Report Challenger, 1884, 224, f. 8, 225.
- KIKRAMMINA**, de Folin. Bull. Soc. N. H. Toulouse, xv, 1881, 132, not described, 1 species proposed.
- KÜMMELSTEIN,**
KÜMMISCHSTEIN, } Kircher, Mund. subterr. 1665-78, 29 [= *Nummulites*].
KÜMMSTEIN.
- L. urceolata** (fragmentum) *articulis singulis urceolatis tubo conjunctis*, Jura. Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1838, 132 [no genus is given].

- LACAZINA**, Munier-Chalmas, 1882. Bull. Soc. géol. France, [3], x, 1882, 472, "type *Alveolina compressa*, d'Orb.," XIII, 1885, 314, etc.
- **compressa** (d'Orb.). Mun.-Ch. & Schlumb, *Ibid.* [3], XIII, 1885, 315, etc., f. 41 and 45, pl. xiv, 60 and 61; xiv bis, 66-68 [*Alveolina*, 1847].
- v. **galloprovincialis**, Mun.-Ch. & Schlumb. *Ibid.* [3], XIII, 1885, 317, etc., f. 42-44, pl. xiv, 62-65.
- LAGENA**, Walker & Boys, 1784. G. Walker, Testac. min. rar. 1784, 3 [see *Serpula* (*Lagena*)]; Brady, Report Challenger, 1884, 440.
- **aargovensis**, K. & Z.
- [**argovensis**] **major**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 12, ii, 10.
- [**argovensis**] **minor**, Kübler & Zwingli. *Ibid.* 1866, 12, ii, 11.
- Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 13, ii, Opalimisthon 2 [= *Lag. globosa*].
- **acicula**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 355, i, 1.
- **acicularis**, Terq. & Berth., Mém. Soc. Géol. France, [2], x, 1875, 13, i (xi), 3 [*Oolina*, 1858].
- **acuta** (Reuss). Brady, Report Challenger, 1884, 474, lix, 6a, b ? [*Fissurina*, 1862].
- Fornasini, Boll. Soc. Geol. Ital. VII, 1888, 47, iii, 6.
- **acuticosta**, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, (1), 1861 (1862), 305, i, 4.
- *Ibid.* XLVI, (1), 1862 (1863), 331, v, 63.
- Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 197, vii, 9.
- Brady, Report Challenger, 1884, 464, lvii, 31 and 32; lviii, 20 and 21.
- **agglutinans**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 352, xxv, 29 and 30 [error for 28 and 29].
- **alifera**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, (1), 1870, 467; figured by von Schlicht, "Foram. Septarienthones Pietzpuhl," 1870, iii, 15, 16, 21 and 22.
- **alternans**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 21, 1, 4 (and Mém. Soc. Dunkerquoise).
- **alveolata**, Brady. Report Challenger, 1884, 487, lx, 30 and 32.
- var. **caudigera**, Brady. *Ibid.* 1884, 488, lx, 25.
- var. **substriata**, Brady. *Ibid.* 1884, 488, lx, 34 [*L. auriculata*, var., 1881].
- **amphora**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 330, iv, 57.
- **ampulla-distoma**, Ry. Jones. Brady, Report Challenger, 1884, 458, lvii, 5 [*L. vulgaris*, var., 1872].
- **anomala**, Stache. Novara-Exped., Geol. (1), 1864, 183, xxii, 4a, b [error for 5].
- **antarctica**, Fischer. Fond le la Mer, I, Chap. xii (1869), 236, no fig.
- **antiqua**, Alcock. Mem. Lit. Phil. Soc. Manchester, [3], III, 1868, iv, 3.
- **apiculata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 318, i, 4-8, 10 and 11 [*Oolina*, 1850].
- v. **elliptica**, Reuss. *Ibid.* XLVI, (1), 1862 (1863), 35, ii, 2.
- J. P. & B., Crag Foram. Pal. Soc. XIX, 1866, 44, i, 27.
- Terquem, Mém. Ac. Imp. Metz, LI, 1870, 350, xxv, 23 and 24 [error for 22 and 23].
- Hantken, A magy. kir földt. int. évkönyve, IV, 1875 (1876), 76, xii, 7; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 22, same pl. and fig.
- Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 197, vii, 3.
- Brady, Report Challenger, 1884, 452, lvi, 4, 15-18.
- Sherborn & Chapman, Jour. R. Micr. Soc. [2], vi, 1886, 744, xiv, 14.
- Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 6, i, 5.
- Hauesler, Neues Jahrb. 1887, 1, 182, iv, 19-30; and v, 36 and 37.

- LAGENA apiculata**, Reuss. Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 111, v, 11.
 ————— Mariani, Boll. Soc. Geol. Ital. vii (1889), 285, x, 5.
 ————— see *L. sulcata*, W. & J. and *L. vulgaris*.
 ————— **aspera**, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, (1), 1861 (1862), 305, i, 5 [v. *Entosolenia*].
 ————— Reuss, *ibid.* XLVI, (1), 1862 (1863), 335, vi, 81.
 ————— Terq. & Berthelin, Mém. Soc. Géol. France, [2], x, 1875, 15, i (xi), 10.
 ————— Brady, Report Challenger, 1884, 457, lvii, 7-10, var., 6, 11, 12.
 ————— Balkwill & Millett, Journ. Micr. III, 1884, 78, ii, 1.
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- ——— Brady, Report Challenger, 1884, 474, lix, 12.
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- ——— Brown, *ibid.* ed. 2, 1844, 3, lvi, 33.
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- ——— Brady, Report Challenger, 1884, 461, lxi, 1.
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- ——— v. *semistriata*, Williamson. *Ibid.* 1858, 6, i, 9 [v. *L. semistriata*].
- ——— v. *striata*, Williamson. *Ibid.* 1858, 6, i, 10 [v. *L. striata*].
- ——— v. *substriata*, Williamson. *Ibid.* 1858, 7, i, 14 [*L. striata*, d'Orb.].
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 _____ v. **ampulla-distoma**, Ry. Jones. *Ibid.* xxx, 1872, 63, xix, 52 [v. *L. ampulla-distoma*].
 _____ v. **apiculata**, Rss. Ry. Jones, *ibid.* xxx, 1872, 50, xix, 3-5 [v. *L. apiculata*].
 _____ v. **bicamerata**, Ry. Jones. *Ibid.* xxx, 1872, 65, xix, 60-62.
 _____ v. **bracteato-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 59, xix, 40, 41.
 _____ v. **caudata**, d'Orb. Ry. Jones, *ibid.* xxx, 1872, 54, xix, 22 [v. *L. caudata*].
 _____ v. **clavato-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 60, xix, 45.
 _____ v. **clypeato-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 58, xix, 37.
 _____ v. **desmophora**, Ry. Jones. *Ibid.* xxx, 1872, 54, xix, 23, 24 [v. *L. desmophora*].
 _____ v. **distoma-patera**, Ry. Jones. *Ibid.* xxx, 1872, 65, xix, 58.
 _____ v. **distoma-polita**, Parker & Jones. Ry. Jones, *ibid.* xxx, 1872, 64, xix, 53-57 [v. *L. distoma-polita*].
 _____ v. **fissurina**, Rss. Ry. Jones, *ibid.* xxx, 1872, 51, xix, 6-8.
 _____ v. **glacialis**, Ry. Jones. *Ibid.* xxx, 1872, 52, xix, 14.
 _____ v. (**Entosol.**) **globosa**, Mont. Ry. Jones, *ibid.* xxx, 1872, 49, xix, 1 and 2 [v. *L. globosa*].
 _____ v. **gothica**, Ry. Jones. *Ibid.* xxx, 1872, 51, xix, 9.
 _____ v. **helophoro-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 61, xix, 48.
 _____ v. **hispidata**, Rss. Ry. Jones, *ibid.* xxx, 1872, 62, xix, 50 [v. *L. hispidata*].
 _____ v. **janeta**, Ry. Jones. *Ibid.* xxx, 1872, 65, xix, 59, 59a.
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 _____ v. **pertuso-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 61, xix, 46, 47.
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 _____ v. **radiato-marginata**, Parker & Jones. Ry. Jones, *ibid.* xxx, 1872, 57, xix, 33 [v. *L. radiato-marginata*].
 _____ v. **semistriata**, Will. Ry. Jones, *ibid.* xxx, 1872, 52, xix, 15 [v. *L. semistriata*].
 _____ v. **siliqua**, Ry. Jones. *Ibid.* xxx, 1872, 61, xix, 49 [v. *L. siliqua*].
 _____ v. **spinicosto-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 57, xix, 34-36.
 _____ v. **spinoso-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 59, xix, 42, 43.
 _____ v. **squamosa**, Will. Ry. Jones, *ibid.* xxx, 1872, 63, xix, 51 [v. *L. squamosa*].
 _____ v. **striata**, Mont. Ry. Jones, *ibid.* xxx, 1872, 52, xix, 16-20, [v. *L. striata*].
 _____ v. **striato-areolata**, Ry. Jones. *Ibid.* xxx, 1872, 53, xix 21, 21a.

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- _____ **wrightiana**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 62.
- _____ Brady, Report Challenger, 1884, 482, lxi, 6, 7.
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- _____ sp. ind., Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 18, xii, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 23, same pl. and fig.
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- _____ [**marginata**], Macdonald. Annals and Mag. Nat. Hist. [2], xx, 1857, 193, v, 7-10.
- _____ [**aculeata**, P. & J.]. Wallich, North Atlantic Sea-bed, (1), 1862, no descr., v, 24.
- _____ [**marginata**]. *Ibid.* (1), 1862, no descr., v, 19.
- _____ [**quadrata**, Will.]. *Ibid.* (1), 1862, no descr., v, 20 and 22.
- _____ [**semistriata**]. *Ibid.* (1), 1862, no descr., v, 17.
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- _____ [**sulcata**]. *Ibid.* (1), 1862, no descr., v, 23.
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- _____ J. G. Wood, Common Objects Micro. 1867, 122, xii, 18.
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- _____ v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, i-iv and xxxviii.
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- _____ Carpenter, Ency. Brit. ed. 9, ix, 1879, "Foraminifera," 374, i, 9.
- ? _____ v. Dunikowski, Denkschr. k. Ak. Wiss. Wien, XLV, (2), 1882, 194, vi, 81 [cast?].
- ? _____ Terquem, Mém. Soc. Géol. France, [3], ii, 1882, 29, i (ix), 16.
- _____ de Folin, Le Naturaliste, ix, 1887, 140, f. 20b.
- _____ Fornasini, Boll. Soc. Geol. Ital. v, 1886 (1887), 350, viii, 7 and 8 [intermediate between *L. squenziana*, *L. laevigata* and *L. acuta*].
- _____ Neumayr, Stämme d. Thierreiches, i, 1889 (1888), 183, f. 25a.
- _____ see *Lagenula* and *Serpula*.

- LAGENULA**, Montfort, 1808. Conch. Syst. 1808, 311. A
 — *flosculosa*, Montfort. *Ibid.* 1, 1808, 311, 78th genre [= *Lagena suava* v. *flosculosa* ?].
 — *lævis* (Walk.). Fleming, Hist. Brit. Anim. 1828, 235 [v. *Lagena*].
 — *reticulata*, MacGill. Hist. test. anim. Aberdeen, etc. 18+3, 38 [v. *Lagena*].
 — Fleming, Hist. Brit. Anim. 1828, 234, 235, quotes Walker's, and Montagu's *Lagena* under this genus.
 — Thorpe, Brit. Mar. Conch. 1844, 233-235, quotes Walker's, and Montagu's *Lagena* under this genus.
 — Zborzewski, Nouveaux Mém. Soc. Imp. Nat. Moscou, III, 1834, 311, xxviii, c.
- LAGENULINA**, Terquem, 1876. Essai Animaux plage Dunkerque, (2), 1876, 67; (and Mém. Soc. Dunkerquoise) [= *Lagena*].
 — *costata* (Will.). Terq., *ibid.* (2), 1876, 67, vii, 2; (and Mém. Soc. Dunkerquoise [*Entosolenia*, 1858]).
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 — *semistriata* (Will.). Terq., *ibid.* (2), 1876, 68, vii, 8; (and Mém. Soc. Dunkerquoise) [*Lagena striata*, var. 1848].
 — *striata* (d'Orb.). Terq., *ibid.* (2), 1876, 68, vii, 7; (and Mém. Soc. Dunkerquoise) [*Oolina*, 1839].
 — *sulcata*, Terquem. *Ibid.* (2), 1876, 68, vii, 9; (and Mém. Soc. Dunkerquoise).
- ? — Terquem, Bull. Soc. Géol. France, [3], VIII, 1880, 418, xi, 7 [cast].
- LAGYNIS**, Schultze. Siddall. Cat. Brit. Rec. Foram. 1879, 3, includes this genus in the Foraminifera.
- LAMARCKINA**, Berthelin. C. R. Assoc. Franç (Reims, 1880), p. 555 [founded on *Pulvinulina erinacea*, Karer]
- LAMPAS** trithemus, Montfort. Conch. syst. 1, 1808, 243, 61st genre [= *Crist. cultrata*, deformed].
- LAPIDIS** nummalis, Brückmann. Epist. Itin. xxxvii, de Foss. Blackenburgicis, 1739, 10, ii, f. ii [*Nummulites*].
- LAPIS** frumentarius **Helveticus cinereus semina melonum**, etc. Lange, Hist. Lapidum Figuratorum, 1708, 69, xviii [*Nummulite*].
 — **niger** ———— *ibid.* 1708, 69, xviii [*Nummulite*].
 ———— Scheuchzer, v. *Lentes lapideæ*.
- LARVARIA** = *Polytrypa* = *Doctylopora*, q. v.
 — *reticulata*, Defr. Dict. Sci. Nat. xxv, 1822, 287, figured in Blainville, Actinol. 1834, xvii, 3.
- LATERICIA** ovalis, Schafhäntl. Geogn. Unters. sudbay. Alpengeb. 1851, 49, xiii [misprinted in text xviii], f. 17; [an "oolite granule;" may be *Lagena*].
- LEKITHIAMMINA**, de Folin, 1881. Bull. Soc. Nat. Hist. Toulouse, xv, 136, not described; five species proposed.
- LEMISTRIATA**, Green, 1881, see *Lagena semistriata*.
- LENS** striata in utrinque **convexa**, Scheuchzer. Misc. Cur. Ac. Leop.-Cæs. III, 1697-8, 63, f. j; Spec. lithog. Helvet. 1702, 30, f. 46-48; Besch. naturges. Schweiz. 1, 1706, 102, viii, 46-48; Itin. Alpina, 1723, 4th voyage, 200, f. 4 and 5; and 7th voyage, 478, f. 4 and 5.
- LENTE**s lapideæ, Scheuchzer. Natur. Historie Schweiz, 1718, 326, f. 158 [and ? f. 75] [*Nummulites*].
 — **lapideæ convexoplanae**, Volkmann. Silesia subter. 1720, 331, plate "P iii, Tab. ii," 5 [*Nummulites*].
 ———— Scheuchzer, *Ορυσιφωντης helveticus*, 1723 [= *Nummulites*].
- LENTICOLE**, Targioni. Relagione d'alc. viaggi, etc. IV, 1770, vii, pl. 1, f. 2, a, b, c [= *Nummulites*].
- LENTICULÆ** diversi generis admixtæ cum nautiliæ et ammoniis, Soldani. Sagg. Orit. 1780, 105, iii, 29, z; iv, 30, B [= *Nummulites*].

- LENTICULÆ**, Soldani. Sagg. Oritt. 1780, 106; iv, 32, 33, 35 [32 = ? *Amphisteginus*; 33 ? *Siderolina*; 35 = ? *Fabularia*].
 ——— Testac. II, 1798 (not I(2)), 110, pl. 26, O [*Robulina planiana*, d'O. Ann. Sci. Nat. VII, 1826, 290, 20].
 ——— *Ibid.* II, 1798 (not I(2)), 110, pl. 26, N [*Robulina rugosa*, d'O. Ann. Sci. Nat. VII, 1826, 290, 21].
- LENTICULAIRE numismale**, Deluc. Journal de Physique, LIV, 1802, 178, i, 1-7.
- LENTICULAIRES**, Deluc. *Ibid.* LVI, 1802, 325, etc., pl., f. 1-6 [*Orbitolites*].
 ——— see *Nummulaires*.
- LENTICULINA**, Lamarck, 1804. Ann. Mus. Paris, v, 1804, 186.
 ——— **discus**, Ehr. Mikrogeologie, 1854, xxx, 36; and xxxi, 58 [= *Planorb. haidingeri*].
 ——— **erythoræa**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 132.
 ——— **gualteri**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], VI, 1846, 201.
 ——— **indigena**, Eichwald. Zoologia specialis, II, 1830, 32, ii, 16 [= *Polystomella*, q. v.].
 ——— **libyca**, Ehr. Abh. k. Ak. Wiss. Berlin, 1838, 132.
 ——— **nitida**, Ehr. *Ibid.* 1838, 132.
 ——— **orientalis**, Ehr. *Ibid.* 1838, 132.
- P** ——— **pachyderma**, Ehr. Mikrogeologie. 1854, xxxi, 54 [= *Pulvin. caracolla*, Roem.].
 ——— **planulata**, Lam. Reuss in Geinitz, Grundr. Verstein. 1845-46, 662, xxiv, 40 [*Lenticulites*, 1804].
 ——— ——— Eichwald, Lethæa Rossica, III, 1853, 6, i, 11.
 ——— **radiata**, Montf. Eichwald, *ibid.* III, 1853, 5, i, 10a, b, c.
 ——— **rotulata**, Lam. Parkinson, Organ. Rem. former World, III, 1811, 161, xi, 4 [*Lenticulites*, 1804 = *Cristellaria*, q. v.].
 ——— ——— Bronn, Syst. urweltl. Conchyl. 1824, 7, i, 6.
 ——— ——— DeFrance, Dict. Sci. Nat. xxv, 1822, 453; xxxii, 1824, 181; Atlas, Zooph. xv, 7.
 ——— ——— Blainville, Manuel Malac. et Conch. 1825 (pls., 1827), 389, vii, 7.
 ——— ——— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls., 1837), 18, iv bis, 7.
 ——— ——— Brown, Conch. Text-book, 1839, 61, x, 15.
 ——— **tenerrima**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], VI, 1846, 202.
 ——— ——— Lyell, Elem. Geol. 1838, 55, f. 21 [= *Cristellaria cultrata*].
 ——— ——— Blainville, Man. Malac. et Conch. 1825, 390; refers de Montfort's genera, *Antenor*, *Clisiphonites*, *Herion*, *Ithivocurus*, to *Lenticulina*.
- LENTICULITES**, Lamarck, 1804. Ann. Mus. v, 1804, 188.
 ——— **ammoniticus**, Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1054, lxxxvi, 29 [? *Operculina*].
 ——— **complanata**, DeFrance. Dict. Sci. Nat. xxv, 1822, 453 [v. *Operculina*].
 ——— ——— Basterot, Mém. Géol. env. Bordeaux, (1), 1825, 18
 ——— ——— T. Wright, Ann. Mag. Nat. Hist. [2], xv, 1855, 275, vii, 4a, b.
 ——— **comptoni** (Sow.). Nilsson, Petrif. Suecana, 1827, 7, ii, 3A, B, C, D [*Nautilus*, 1818].
 ——— ——— Hisinger, Lethæa Svecica, 1837, 32, viii, 1a-d.
 ——— ——— [Nilss.] Geinitz, Charact. Schicht. Petref. sächs-böhm. Kreideg. 1850, 43, xvii, 24.
 ——— **cristella**, Nilsson. K. Vet. Ak. Handl. 1825 (1826), 339, no fig.
 ——— ——— Nilsson, Petref. Suecana, 1827, 7, ii, 4A, B.
 ——— ——— Hisinger, Lethæa Svecica, 1837, 32, viii, 2a, b.
 ——— **discorbinus**, Schlotheim. Die Petrefactenkunde, 1820, 89 [v. also *Nummulites*].
 ——— **ephippium**, Schlotheim. *Ibid.* 1820, 89 [v. also *Nummulina* and *Orbitolites*].
 ——— **planulata**, Lam. Ann. Mus. v, 1804, 187.
 ——— (et *Lenticulina*) ——— DeFrance, Dict. Sci. Nat. xxv, 1822, 452; Atlas, Conch. xiv, 1.
 ——— ——— Blainville, Malacol. 1825, vi, 1.

- LENTICULITES** [*planularis*, Lam.]. Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls., 1837), 17, viii. 1.
- [*planatus*] —— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1054, lxxxvi, 30 and 31.
- *rotulata*, Lamarek. Ann. Mus. v, 1804, 188, No. 3; and f. 11, pl. 62, in vol. VIII, 1806 [v. also *Lenticulina* and *Nummulina* = *Cristellaria*].
- —— Lamarck, Ency. Méthod. "Vers" (pls., 1827) (P. & J. quote "part 23, 1816"), II (1830), 330, pl. 466, f. 5.
- —— Lamarck, Coq. Foss. Paris, 1823, 14, xiv. 11.
- —— Crouch, Introd. Lamarck, 1827, 41, xxii. 6.
- *variolaria*, Lamarek. Ann. Mus. v, 1804, 187, No. 2 [referred by d'Archiac to *Nummularia variolaria*, Sowerby, q. v.].
- Bowdich. Elem. Conch. (1), 1822, 22, ii, 17.
- Pilla. Trattato di Geol. (1), 1847, 461, f. 79 [= *Nummulites*].
- LENTICULUM** *discus*. Ehr. Hopkins, Execut. Doc. 45 Congress, Sess. 3, v, iv, Rpt. Chief Engineers, (2), App. W, 1878-79, 885, ii, 69 [= *Planorbulina*].
- LENTICULAM** in eodem saxo inventam, Soldani. Sagg. Oritt. 1780, 105, iv, 31C, D [= *Nummulites*].
- LENTILLES** de bethlehem, Knorr. Recueil de monuments, II, (1), 1775, 53 [= *Nummulites*].
- petrifiées, Sage. Journ. de Phys. LX, 1805, 222 [= *Nummulites*].
- LEPIDOCYCLINA**. Gümbel. 1868. Abh. k.-bayer. Ak. Wiss. x, (2), 1868, 689. This subgenus of *Orbitoides* was proposed by Gümbel for the following forms: *L. mantelli* (Morton); *L. dilatata* (Michelotti); *L. burdigalensis* (Gümbel).
- LIARDS**, Sage. Journ. de Phys. LX, 1805, 222 [= *Nummulites*].
- LICHENOPORA** *cribrosa*, Reuss. Verst. Böhm. Kreide, 1845-6, II, 64, xiv, 10; xxiv, 3-5 [v. also *Polyphragma*].
- ? —— *pupa*, Gümbel. Geogn. Besch. bayer. Alpengebirges, I, 1861, 654 [v. *Gaudryina*].
- LIEBERKUEHNIA**, Claparède & Lachmann, 1859. Mém. Inst. Nat. Genevois, XVI, 1859, 464.
- *wagneri*, Claparède & Lachmann, *ibid.* XVI, 1859, 465, xxiv (error for xxiii); Carpenter, Introd. Foram. 1862, 28 and 63, ii; Brady, Report Challenger, 1884, 60.
- LIMOCÆCUM**, de Folin, 1881. Bull. Soc. Nat. Hist. Toulouse, xv, 139; not described, one species proposed.
- LINGALINA**, Mackie, 1867, error for *Lingulina*.
- LINGULINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 256; Brady, Report Challenger, 1884, 517.
- *alata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 257, No. 2.
- —— P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 162, ix, 63.
- —— see *Orthoceratia Zoophytica subcordiformia*.
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 ——— *persica*, Carpenter & Brady. Phil. Trans. 1869, 739, lxxvii-lxxx.
 ——— Zittel, Handbuch Palæont. (1), 1876, 80, f. 15.
 ——— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 95.
 ——— Carter, Annals & Mag. Nat. Hist. [4]. xix, 1877, 61, viii, 18.
 ——— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, vii, 1.

- LOFTUSIA**, Steinmann, Palæontographica, xxv, 1878, 117.
 ♀ ——— v. Möller. Jahrb. k. k. geol. Reichsanstalt, xxx, 1880, 578, ix, 1-5
 [see *L. carbonica*].
- LOXOSTOMUM**, Ehrenberg. Bigenerine *Textularia*, tending towards *Sagrina rugosa* (*Heterostomella*, Reuss). Aperture entire . . . and lipped as in *Urigerina*. Edges of shell aculeate. (Parker & Jones, Annals, ix, 1872, 293).
 ——— **aculeatum**, Ehr. Mikrogeologie. 1854, xxvii, 21 and 22; xxviii, 26
 [= Bigenerine *Textularia*, near *Sagrina rugosa*, d'O., = *Heterostomella*, Reuss].
 ——— **anglicum**, Ehr. *Ibid.* 1854, xxviii, 19 [= *Vulvul. pennatula*, Batsch].
 ——— **curvatum**, Ehr. *Ibid.* 1854, xxviii, 13 [= probably *Vulvul. pennatula*, Batsch].
 ——— **rostratum**, Ehr. *Ibid.* 1854, xxvii, 20 [= Bigenerine *Text. agglutinans*].
 ——— **subrostratum**, Ehr. *Ibid.* 1854, xxvii, 19 [= Bigenerine *Text. agglutinans*].
 ——— **tumens**, Ehr. *Ibid.* 1854, xxviii, 25; and xxxi, 29 [= *Heterostom. aculeata* (Ehr.)].
 ——— **vorax**, Ehr. *Ibid.* 1854, xxviii, 24 [*Polym. compressa*].
- LUNULITES**, Lamarck, 1816. Extract Cours Zool. 1812, 26; and Hist. Anim. s. Vert. ii, 1816, 194] a genus of Polyzoa, some species of which have a strong external resemblance to *Nummulites*.
 ——— **dactioides**, Owen. Rep. Mineral lands, Niagara Group, 1840 [referred by S. A. Miller, Catal. Amer. Pal. Foss. 1877 to *Receptaculites*].
- LYCOPHRIS**, Montfort, 1808. Conch. Syst. i, 1808, 159.
 ——— **dispanus**, Sowerby. Trans. geol. Soc. Lond. [2], v, 1837 (1840), 327, 718, and explan. of plates. xxiv, 16, 16a, b [v. also *Nummulina*, *Nummulites* and *Orbitoides*; referred to *Orbitoides prattii*].
 ——— ——— Carter, Annals & Mag. Nat. Hist. [2], xi, 1853, 172, vii, 23-29.
 ——— ——— Carter, Journ. Bombay Br. R. Asiatic Soc. v, (18), (1853), 136, ii, 23-29.
 ——— ——— Carter, Geol. Papers Western India, 1857, 451, xviii, 16, 16a, 16b, and 545, xxiii, 23-29.
 ——— **ephippium**, Sowerby. Trans. geol. Soc. Lond. [2], v, 1837 (1840), 327, and explan. of plates. xxiv, 15, 15a, b [v. also *Orbitoides*].
 ——— ——— Carter, Geol. Papers Western India, 1857, 451, xviii, 15, 15a, 15b.
 ——— **faujasii**, DeFrance. Dict. Sci. Nat. xxiv, 1822, 271 [v. *Hymenocyclus*].
 ——— ——— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1056, lxxxvi, 39.
 ——— [**lenticularis**], Blainville. Dict. Sci. Nat. 1816-30, Atlas, Zooph. xlix, 3 [v. also *Nummulites*] [= *Orbitoides*] (not *Lycophris lenticularis* of Montfort).
 ——— [**lenticularis**], Blainville. Malacol. 1825, lxxiv, 3 [= *Orbitoides*] (not *Lycophris lenticularis* of Montfort).
 ——— **lenticularis**, Montfort. Conch. syst. i, 1808, 159, 40th genre [= *Nummulina perforata* (*N. lucasana*)].
 ——— ——— Bronn, Syst. urweltl. Pflanzenthiere, 1825, 29, vii, 14a-c
 [= *Numm. scabra*].
 ——— ——— Basterot, Mém. Soc. Hist. Nat. Paris, II, (1), 1825, 19, vii, 3.
- LYRINA**, Zborzewski, 1834. Nouveaux Mém. Soc. Imp. Nat. Moscou, III, 1834, 311 [“obscure two-celled form,” P & J].
 ——— **fischeri**, Zborzewski. *Ibid.* III, 1834, 311, xxviii, 3a, b, c.
- MACRODITES cucullatus**, Montfort. Conch. syst. i, 1808, 239, 60th genre [= *Cristellaria*].
- MADREPORITES**, Deluc, Journ. Physique, LVI, 1802, 325, etc., plate, figs. 7-12 [*Orbitolites*].
 ——— **lenticularis**, Blumenbach. Abbild. Nat. Gegenstände, (8), No. 80, 1805, lxxx [= *Patellina concava* (Lam.)] [v. *Orbulitis*].
- MALLOPELA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 140: not described, 5 sp. proposed; and Congrès Scient. Dax, 1882 (1883), 328, not described; La Naturaliste, ix, 1887, 113, f

- MARGARITINA**, Schwager, 1887. Pal. Indica, [13], No. 7, 1887, 992 ["near *Succammia*"].
- **schwageri** (Zittel). Schwager, Pal. Indica, [13], No. 7, 1887, 993, cxxviii, 12-15 [*Succammia*, 1876].
- MARGINOPORA vertebralis**, Blainville. Man. d'Actinol. 1834, 412, lxxix. 6.
- MARGINULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 258; Brady, Report Challenger, 1884, 526.
- **abbreviata**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 129, v, 4.
- **abbreviata**, Karrer. Sitz. k. Ak. Wiss. Wien, XLIV, (1), 1861 (1862), 445, i, 7.
- **accincta**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 70, ii, 13, 14; varr. *A*, 15*a*, *b*; *B*, 16*a*, *b*.
- **ackneriana**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 133, v, 15 and 16 [= *M. variabilis*, Neugeb., 1860].
- **aculeata**, Neugeboren. *Ibid.* ii, 1851, 142, iv, 21 [= *M. hispida*, Neugeb., 1860].
- **acutangularis**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 59, i, 2.
- **acuticostata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 62, vi, 3*a*, *b*.
- **æqualis**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 410, ix, 9.
- **æquivoca**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 60, v, 17.
- **agglutinans**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 145, iv, 24.
- **agglutinans**, Terquem. Cinquième Mém. Foram. Lias, 1866, 433, xvii, 14*a*, *b*, *c*.
- **alata**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 615, iii, 9*a*, *b*.
- **alsatica**, Andreae. Abh. geol. Spezialkarte Elsass-Lothringen, ii, (3), 1884, 298, vi, 11.
- **ambigua**, Schwager. Benecke's Geol.-Pal. Beiträge, i, 1866, 305, f. 8.
- **anceps**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 125, iv, 10.
- **angistoma**, Stache. Novara-Exped., Geol. (1), 1864, 213, xxii, 46*a*, *b*.
- **angusta**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 444, v, 24*a*, *b*.
- **apiculata**, Reuss. Haidinger's Naturw. Abh. iv, (1), 1851, 28, i, 18.
- **apiculata**, Stache. Novara-Exped., Geol. (1), 1864, 216, xxii, 49.
- **arcuata**, Philippi. Tertiär. nordwest. Deutsch. 1843, 5, 1, 28 [*Cristellaria*]. [In explan. to plate, described as "*Marginulina?* (s. potius *Planularia?*)".]
- **armata**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 209, vii, 7.
- **aspera**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 401, viii, 14*a*, *b*.
- **asprocostulata**, Stache. Novara-Exped., Geol. (1), 1864, 219, xxii, 53.
- **attenuata**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 121, iv, 3-6 [v. also *M. irregularis* and *M. orbignyana*].
- ———— Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 487, xi, 27.
- **bacheii**, Bailey. Smithsonian Contrib. ii 1851, 10, pl., 2-6.
- **bacillum**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 29, viii, 11.
- ———— Reuss, Sitz. k. Ak. Wiss. Wien, xl, 1860, 208, vi, 8.
- **behmi**, Reuss. Hantken, A magy. kir földt. int. évkönyve, iv, 1875 (1876), 41, v, 1 and 2, xiv, 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 48, same pl. and fig. [*Cristellaria*, 1865].
- ———— Jones, M. Micr. Journ. xv, 1876, cxxix, 2 and 3.
- **beierana**, Gümbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 221, iii, 20*a*, *b*.
- **berthelotiana**, d'Orbigny. Barker-Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, ii, (2), "Foraminifères," 125, i, 14 and 15 [error for 12 and 13].
- **beyrichi**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 226, i, 10.
- **biangulata**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 83, iii, 21*a*, *b*, 22.
- ———— Terquem, Bull. Soc. géol. France, [3], iv, 1876, 485, xv, 21 and 22.

- MARGINULINA bifurcata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 258, No 2.
 — **bigibbosa**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 118, vii, 26a, b; var. *A*, 27 [v. *M. gibbosa*].
 — **bijuga**, Terquem. Mém. Ac. Imp. Metz, xlii, 1863, 404, viii, 20a, b.
 — **biplicata**, Terquem. *Ibid.* xlii, 1863, 397, viii, 1 [7] a, b, c, d, e.
 — **bochardi**, Terquem. Cinquième Mém. Foram. Lias, 1866, 426, xvii, 3a, b.
 — **bononiensis**, Fornasini. Boll. Soc. Geol. Ital. ii, 1883, 187, ii, 7a-r.
 — **bronniana**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 128, iv, 16 [= *M. similis*, d'Orb., Neugeb., 1860].
 — **budensis**, Hantken. A magy. kir. fő dt. int. évkönyve, iv, 1875 (1876), 40, xiv, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 47, same pl. and fig.
 — **bullata**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 29, xiii, 34-38.
 — ——— Reuss in Geinitz, Grundr. Verstein. 1845-46, 656, xxiv, 16.
 — ——— Reuss, Sitz. k. Ak. Wiss. Wien, xi, 1860, 205, vi, 6 [4-6].
 — ——— [Roem.]. Reuss' Medel. No. 86, 1865 (Catal. No. 60, 1861).
 — ——— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 752, xv, 17.
 — **burgundiæ**, Terquem. Mém. Ac. Imp. Metz, xlii, 1863, 406, ix, 3a, b, c, d [v. *Dentalina*].
 — ——— Terq. & Berthelin, Mém. Soc. Géol. France, [2], x, 1875, 54, iv (xiv), 17.
 — **calliopsis**, Reuss. Sitz. k. Ak. Wiss. Wien, xi, vi, (1), 1862 (1863), 60, v, 16a, b.
 — **cancelaroides**, Terquem. Sixième Mém. Foram. Lias, 1866, 508, xxi, 25a, b.
 — **carinata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 259, No. 8.
 — ——— = *Ling. carinata* (dimorphous var.), see *Orthoceratia Zoophytica elongata*.
 — **carinata**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 134, v, 17.
 — **cciczekiana**, Neugeboren. [v. *M. czizekiana*].
 — **clathrata**, Costa. Microdoride Méditerranée, 1861, 52, viii, 9.
 — **clathrata**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 74, ii, 24a, b; varr. *A*, 25; *B*, 26a, b; *C*, 27a, b.
 — **clausa**, Terquem. *Ibid.* xi, 1868, 91, v, 1a, b, 2; varr. *A*, 3a, b, 4.
 — **collenoti**, Terquem. Cinquième Mém. Foram. Lias, 1866, 424, xvii, 1a, b, c, d.
 — **collezi**, Terquem. *Ibid.* 1866, 430, xvii, 10a, b, c.
 — **comma**, Roemer. Verst. n.-d. Kreide, 1840-1, 96, xv, 15.
 — **compressa**, d'Orbigny. Mém. Soc. Géol. France, [1], iv, 1840, 17, i, 18 and 19; Facsimile in Science Gossip, 1870, 82, f. 84.
 — ——— Reuss, Verstein. Böhm. Kreide, 1845-6, i, 29, xiii, 33.
 — **compressiuscula**, Philippi. Tertiär. nordwest. Deutsch. 1843, 5 and 69, i, 29 [v. *Cristellaria*]. In explan. to plate described as "*Marginulina?* (s. potius *Planularia?*)".
 — **condita**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 92, v, 5a, b; varr. *A*, 6a, b; *B*, 7; *C*, 8a, b; *D*, 9a, b; *E*, 10; *F*, 11a, b; *G*, 12a, b; *H*, 13a, b; *I*, 14a, b; *J*, 15a, b; *K*, 16a, b; *L*, 17a, b; *M*, 18a, b; *N*, 19; *O*, 20a, b; *P*, 21; *Q*, 22; *R*, 23a, b; *S*, 24a, b.
 — **conica**, Terquem. Mém. Ac. Imp. Metz, xlii, 1863, 412, ix, 13a, b, c, d.
 — **consecta**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 258, No. 13.
 — ——— = *M. sp.* (cast), see '*Nuclei in thalamis Orthoc.*, etc.
 — **consobrina**, Terquem. Mém. Ac. Imp. Metz, xlii, 1863, 396, viii, 5a, b, c.
 — ——— Terquem, Cinquième Mém. Foram. Oolithique, 1883, 345, xxxviii, 5.
 — **constricta**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 58, v (xv), 3a-f.
 — **contracta**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 186, xiii, 10.
 — **contracta**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 125, viii, 13a, b; varr. *A*, 14a, b; *B*, 15a, b; *C*, 16a, b; *D*, 17a, b; *E*, 18; *F*, 19a, b; *G*, 20a, b; *H*, 21a, b; *I*, 22; *J*, 23a, b; *K*, 24a, b.

- MARGINULINA contracta**, Terquem. Terquem, Bull. Soc. géol. France, [3], iv, 1876, 489, xvi, 10-13.
- _____ Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 25, ii, 44-54.
- _____ **contraria**, Czjzek. Haidinger's Nat. Abh. II, 1848, 140, xii, 17-20.
- _____ **corniculum**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 186, xiii, 14.
- _____ **cornucopia**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 72, ii, 19a, b, 20; varr. *A*, 21a, b; *B*, 22a, b; *C*, 23a, b.
- _____ **cornucopiæ**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 259, No. 7.
- _____ **cornuformis**, Terquem. Mém. Soc. Géol. France, [3], iv, 1886, 23, ii, 33a, b, c.
- _____ **coronata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1863 (1870), 633, i, 61.
- _____ **corrugata**, Terquem. Sixième Mém. Foram. Lias, 1866, 506, xxi, 22a, b.
- _____ **corticulata**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 118, iv, 32.
- _____ **costata**, (Batsch). Brady, Report Challenger, 1884, 528, lxxv, 10-13 [*Nautilus* (*Orthoceras*), 1791].
- _____ Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 487, xi, 28.
- _____ **costulata**, Roem. Reuss, Verstein. Böhm. Kreide, i, 1845, 28, xiii, 25 [*v. Vaginulina*].
- _____ **crassa**, Cornuel. Mém. Soc. Géol. France, [2], iii, 1848, 251, i, 22-25.
- _____ **crassiuscula**, Terq. & Berthelin. *Ibid.* [2], x, 1875, 56, iv (xiv), 23a-c.
- _____ **crstellarioides**, Czjzek. Haidinger's Nat. Abh. II, 1848, 140, xii, 14-16.
- _____ **crstellata**, Stache. Novara-Expéd., Geol. (1), 1864, 212, xxii, 44.
- _____ **crustuliformis**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 82, i i, 19a, b and 20.
- _____ **cultrata**, Terquem. Mém. Ac. Imp. Metz, xliiv, 1863, 411, ix, 11.
- _____ **cuneata**, Terquem. Sixième Mém. Foram. Lias, 1866, 505, xxi, 18a, b.
- _____ **cylindrica**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 258, No. 3.
- _____ **cylindrica**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 22, i, 9a, b; (and Mém. Soc. Dunkerquoise).
- _____ **cytharella**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 99, v, 25a, b; varr. *A*, 26a, b; *B*, 27a, b; *C*, 28a, b, 29; *D*, 30.
- _____ Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 20, ii, 12-14.
- _____ **czizekiana**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 131, v, 7 [quoted as *czizeckana*, by Neugeboren, 1860].
- _____ **damæormis**, Terquem. Sixième Mém. Foram. Lias, 1866, 498, xxi, 1.
- _____ **debilis**, Berthelin. Mém. Soc. Géol. France, [3], ii, 1880, 35, iii (xxvi), 28.
- _____ **deformis**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 127, v, 3.
- _____ **deformis**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 118, iv, 30.
- _____ **demersa**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 305.
- _____ **denlaloides**, Dunikowski. Kosmos [Lemberg], iv, 1879, 109, plate, 10.
- _____ **dentaliniformis**, Mariani. Atti Soc. Ital. Sci. xxxi, 1888, 113, i, 45a, b [error for 5a, b].
- _____ **dentalinoidea**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 108, xxvi (3), 9a, b.
- _____ **depressa**, Tate & Blake. Yorkshire Lias, 1876, 463, xix, 9.
- _____ Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886, [28], ii, 21.
- _____ **deslongchampsii**, Terquem. Mém. Ac. Imp. Metz, xliiv, 1863, 398, viii, 8a, b.
- _____ **dichotoma**, Terquem. *Ibid.* xliii, 1862, 444, vi, 1a, b.
- _____ **dispar**, Reuss. Sitz. k. Ak. Wiss. Wien, xli.vi, (1), 1862 (1863), 63, vi, 4.
- _____ **disparilis**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 85, iv, 1a, b; varr. *A*, 2; *B*, 3a, b, 4; *C*, 5a, b; *D*, 6; *E*, 7; *F*, 8a, b; *G*, 9; *H*, 10; *I*, 11; *J*, 12; *K*, 13, 14; *L*, 15a, b; *M*, 16, 17; *N*, 18a, b; *O*, 19a, b, 20; *P*, 21a, b, 22; *Q*, 23a, b; *R*, 24a, b.

- MARGINULINA disparilis**, Terquem. Terq. & Berthelin, Mém. Soc. Géol. France, [2], x, 1875, 57, v (xv), 1a-h.
- Terquem, *ibid.* [3], iv, 1886, 19, ii, 5-11.
- **dissecta**, Terquem. Sixième Mém. Foram. Lias, 1866, 498, xxi, 2a, b.
- **distensa**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 120, vii, 30a, b.
- **dubia**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 120, iv, 1.
- **dumortieri**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 395, viii, 4a, b.
- v. **oxfordiana**, Deecke. Mém. Soc. Emul. Montbéliard, xvi, 1886, [27], ii, 22.
- **duodecim-costata**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 617, iii, 12a, b.
- **duracina**, Stache. Novara-Exped., Geol. (1), 1864, 211, xxii, 42.
- **echinata**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 143, iv, 25.
- **ehrenbergiana**, Neugeboren. *Ibid.* II, 1851, 128, iv, 15 [*ehrenbergiana*, in 1860].
- **elatissima**, Stache. Novara-Exped., Geol. (1), 1864, 219, xxii, 54a, b.
- **elegans** (d'Orb.). Deshayes, Ency. Méth. (Vers, 1830), 418 (Ggg*) [*v. Yuginulina*].
- **elenæ**, Toutkowsky. Zap. Kievsk. Obsch. Est. IX, 1888, 20, iii, 1a, b, c.
- **elliptica**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 27, iii, 24.
- **elongata**, d'Orbigny. Mém. Soc. Géol. France, [1], iv, 1840, 17, 1, 20-22; Facsimile in Science Gossip, 1870, 82, f. 85.
- Reuss, Verstein. Böhm. Kreide, 1845-6, i, 29, xiii, 28-32; and II, 107, xxiv, 31-36.
- ? Reuss, Haidinger's Naturw. Abh. iv, (1), 1851, 28, i, 17.
- Brown, Annals & Mag. Nat. Hist. [2], xii, 1853, 241, ix, 3a, b.
- **ensis**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 29, xii, 13; xiii, 26, 27; and II, 106, xxiv, 30.
- Reuss, in Geinitz, Grundr. Verstein. 1845-46, 656, xxiv, 17.
- Brown, Annals & Mag. Nat. Hist. [2], xii, 1853, 241, ix, 2a-d.
- Reuss, Haidinger's Naturw. Abh. iv, (1), 1851, 27, i, 16.
- [d'Orb]. Reuss' Model. No. 62, 1865 (Catal. No. 59, 1861).
- Brady, Proc. Somersct. Arch. & Nat. Hist. Soc. xiii, 1865-6 (1867), 225, ii, 23.
- **erecta**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 135, v, 18 [= *M. variabilis*, Neugeb., 1860].
- **exarata**, Terquem. Sixième Mém. Foram. Lias, 1866, 507, xxi, 23 and 24.
- **excavata**, Terquem. *Ibid.* 1866, 509, xxi, 28a, b.
- **exigua**, Neugeboren [*v. M. eximia*, Neugeb.].
- **eximia**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 129, iv, 17 [quoted as "*exigua = similis*, d'Orb., Neugeb., 1860].
- **eximia**, Dunikowski. Kosmos [Lumberg], iv, 1879, 169, plate, 11.
- **eximia**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 114, xiii, 17a, b (and Mém. Soc. Dunkerquoise).
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- **partschiana**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. ii, 1851, 131, iv, 18 [= *M. similis*, d'Orb., Neugeb., 1860].
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 ——— **paludosa**, Cienkowski. *Ibid.* 46, VIII, 101, 102.

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- **socialis**, Hertwig. *Ibid.* x, 1874, Supplement Bd., 1, etc., i [*Gromia*, Archer, 1869].
- ——— Cienkowski, *ibid.* xii, 1876, 34, vi, 48-59.
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- ——— Carpenter, The Microscope, ed. 6, 1881, 479, f. 284.
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- **affinis**, Eichwald. Zoologia specialis, ii, 1830, 22, ii, 2a, b, c [v. *Quinqueloculina*].
- (**Quinqueloc.**) **agglutinans**, d'Orbigny. Parker & Jones, Phil. Trans. 1865, 410, xv, 37a and 37b [*Quinqueloculina*, 1839].
- **amphioxys**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 371.
- **anconensis**, Schultze. Organismus Polythal. 1854, 58, ii, 12 and 13.
- **annulata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 371.
- (**Monocystis**) **arcella**, Ehr. Mikrogeologie, 1854, xxx, 1 ("Orbulina univ. d'O?") [= *O. univ.*].
- **aspera**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 188.
- (**Tril.**) **austriaca**, d'Orbigny. Egger, Neues Jahrbuch, 1857, 271, vi, 4-6 [*Triloculina*, 1846].
- **bicornis** (Walker & Jacob). Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 24 [*Serpula*, 1798].
- ——— Chimmio, Bed of Atlantic, 1870, 16, i, 3 and 4¹.
- ? —— (**Vagin.?**) **bursa**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 1a, b [obscure].
- **caudata**, Ehr. *Ibid.* 1854, xxix, 46 [= *Lag. apiculata*].
- (**Q.**) **communis** (Desh.). Jones in Dixon, Geol. of Sussex, ed. 2, 1878, 172, ix [10], 8 [*Triloculina*, 1831].
- **concentrica**, Brown. Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 22 [= *Spiroloculina*].
- ——— *Ibid.* ed. 2, 1844, 3, lvi, 22.
- **cor-anguinum** (Lamarck). Defrance, Dict. Sci. Nat. xxxi, 1824, 68; Blainville, Malacol. 1825, 369, iv, 3 [= *M. trigonula*] [*Miliolites*, 1804].
- (**Tri.**) **consobrina**, d'O. Egger, Neues Jahrbuch, 1857, 271, vi, 7-9 [*Triloculina*, 1846].
- **costata**, Ehrenberg. Monatsbericht k. Ak. Wiss. Berlin, 1872, 284 [= *Lagena*].
- ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 7.
- (**Q.**) **cribrosa**, Egger. Neues Jahrbuch, 1857, 273, vi, 13-15.
- (**Triloc.**) **cryptella**, d'Orbigny. Parker & Jones, Phil. Trans. 1865, 410, xv, 39 [*Triloculina*, 1839].
- **cyclostoma**, Schultze. Organismus Polythal. 1854, 58, ii, 14 and 15.
- **dactylus**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 306.
- ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 6.
- (**Biloc.**) **depressa**, d'O. Parker & Jones, Phil. Trans. 1865, 409, xvii, 89a and 89b [*Biloculina*, 1826].
- **elliptica**, Brown. Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 23 [? segment of a *Dentalina*].
- **elongata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 274 [v. *Lagena*].
- ——— *Ibid.* 1845, 371.
- ——— Mikrogeologie, 1854, xxv, i, A, 1 [= *Lagena* near *distoma* P. & J.].
- (**Biloc.**) **elongata**, d'O. Parker & Jones, Phil. Trans. 1865, 409, xvii, 88, 90 and 91 [*Biloculina*, 1826].
- (**Quinqueloc.**) **ferussacii**, d'Orbigny. *Ibid.* 1865, 411, xv, 36a, 36b and 36c [*Quinqueloculina*, 1826].
- **ficus**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- (**Tril.**) **gibba**, d'Orbigny. Egger, Neues Jahrbuch, 1857, 271, v, 20; vi, 1-3 [*Triloculina*, 1826].

- MILIOLA (Q.) haidingeri**, d'Orbigny. Egger, Neues Jahrbuch, 1857, 272, vi, 10-12 [*Quinqueloculina*, 1846].
- **lactea** (Walker & Jacob). Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 28 [*Serpula*, 1798].
- **lævis**, Ehrenberg. Mikrogeologie, 1854, xxvi, 2 [= *Lag. elongata* (Ehr.)].
- ——— *Ibid.* 1854, xxviii, 1 [= ? *Nodosaria* fragment].
- ——— *Ibid.* 1854, xxxi, 5; and xxxii, ii, 2a [= *Lag. emaciata*, Reuss].
- **lagna**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 371.
- (**Spiroloc.**) **limbata**, d'Orbigny. Parker & Jones, Phil. Trans. 1865, 409, xvii, 83a and 83b [*Spiroloculina*, 1826].
- **marylandica**, Lea. Contrib. to Geology, 1833, 215, vi, 227.
- **milium**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 132.
- **minuta**, Brown. Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 18 and 19 [v. *Triloculina*].
- **obesa**, Schultze. Organismus Polythal. 1854, 57, ii, 1-9.
- ——— Jones in Microgr. Dict. ed. 4, 1883, 504, xxiii, 1.
- (**Quinqueloc.**) **oblonga** (Montagu). Parker & Jones, Phil. Trans. 1865, 411, xv, 31 and 41; xvii, 85a, 85b, 86a and 86b [*Verruculum*, 1803].
- **ovata**, Crouch. Introd. Lamarck, 1827, 40, xx, 11.
- ——— Brown, Conch. Text-book, 1839, 62, x, 18.
- **ovum**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 166 [v. also *Layena*].
- ——— Ehr., Mikrogeologie, 1854, xxiii, 2; xxvii, 1; and xxix, 45 [= *Lag. globosa*].
- ——— *Ibid.* 1854, xxxi, 4 [= *Globigerina* chamber].
- (**Holococcus?**) **panderi**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1862, 601, plate, 7-11 [not a *Miliola*; ? not foraminiferal or if so, merely a nodosarian chamber].
- **paradoxa**, Ehrenberg. Mikrogeologie, 1854, xxxi, 2 and 3 [= *Globigerina* chamber].
- **perforata** [W. & J.]. Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 26 [*Serpula*, 1798].
- (**Spiroloculina**) **planulata**, Lamarck. Parker & Jones, Phil. Trans. 1865, 408, xvii, 82 [*Miliolites*, 1805].
- (**Q.**) **prælonga**, Egger. Neues Jahrbuch, 1857, 272, vi, 16-18.
- **prunum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 306.
- (**Vagin.P**) **pusilla**, Ehrenberg. Mikrogeologie, 1854, xxvi, 3 [= ?].
- (**Biloc.**) **ringens**, Lamarck. Parker & Jones, Phil. Trans. 1865, 409, xv, 42-44 [*Miliolites*, 1804].
- ——— Jones in Dixon, Geol. of Sussex, ed. 2, 1878, 172, ix [10], 9a.
- **rostrata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 371.
- **saxorum**, Lamarck. Defrance, Dict. Sci. Nat. xxxi, 1824, 69; xxxii, 1824, 176; Atlas Conch. xv, 1 [*Miliolites*, 1804].
- ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 369, vii, 1.
- ——— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 19, v, 1.
- (**Q.**) ——— [d'Orb.]. Egger, Neues Jahrbuch, 1857, 272, x, 18-20.
- ——— Gumbel, Geol. Bayern, (1), II, 1885, f. 266, 2, 2h.
- **scheibersii** (d'Orb.). Tate & Blake, Yorkshire Lias, 1876, 451, xviii, 2 [*Quinqueloculina*, 1846].
- (**Quinqueloc.**) **seminulum** (Linn.). Parker & Jones, Phil. Trans. 1865, 410, xv, 35a, 35b; xvii, 87 [*Serpula*, 1758].
- ——— Jones in Dixon, Geol. of Sussex, ed. 2, 1878, 172, ix [10], 9.
- var. (**Spiroloc.**) **planulata**, Lam. Hamilton, Trans. N. Zealand Inst. XIII, 1881, 394, xvi, 8 [*Miliolites*, 1805].
- var. (**Biloc.**) **ringens**, Linn. *Ibid.* XIII, 1881, 394, xvi, 1 and 2 [*Miliolites*, 1804].
- var. **B. ringens**, subvar. **elongata**, d'Orb. *Ibid.* XIII, 1881, 394, xvi, 3 and 4 [*Biloculina*, 1826].

- MILIOLA seminulum**, var. (**Q.**) **triangularis**, d'Orb. Hamilton. Trans. N. Zealand Inst. XIII, 1881, 394, xvi, 5, 6 and 7 [*Quinqueloculina*, 1826].
- **semistriata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 371.
- **sphæroidea**, Ehr. Mikrogeologie, 1854, xxiii, 1 [= "*Cench. oliva*, 1843"] [= *Lagenu globosa*].
- **sphærule**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 189.
- **sphærule**, Ehr. Mikrogeologie, 1854, xxxi, 1a, b, c [= *O. b. universa*].
- **spinosa**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 306.
- **spiralis**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 371.
- **stiligera**, Ehr. *Ibid.* 1843, 272.
- Ehr., Mikrogeologie, 1854, xxxi, 6 [= *Lagena*].
- **striata**, Brown. Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 27 [v. also *Triloculina*].
- **striata**, Ehrenberg. Mikrogeologie, 1854, xxiv, 5; xxxii, ii, 1 [= *Lag. costata*, Will.].
- (**Quinqueloc.**) **subrotunda** (Montagu). Parker & Jones, Phil. Trans. 1865, 411, xv, 38a and 38b [*Vermiculium*, 1803].
- **subtriquetra**, Eichwald. *Zoologia specialis*, II, 1830, 23, ii, 3a, b [v. also *Triloculina*].
- **tenera**, Schultze. Organismus Polythal. 1854, 58, ii, 17.
- Carpenter, Parker & Jones, Introd. Foram. 1862, iii, 3.
- Claus, Lehrbuch d. Zool. 1855, 154, f. 136.
- (**Quinqueloc.**) **tenuis**, Czj. Parker & Jones, Phil. Trans. 1865, 411, xvii, 84 [*Quinqueloculina*, 1848].
- (**Triloc.**) **tricarinata**, d'Orb. *Ibid.* 1865, 409, xv, 40 [*Triloculina*, 1826].
- **trigonula** (Lam.). Bronn, Syst. Urweltl. Conchyl. 1824, 7, i, 5a, b, c [*Miliolites*, 1804].
- Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 369, iv, 3.
- Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 19, iv ter., 2.
- Gümbel, Geol. Bayern, (1), II, 1885, f. 266, 1. 1b.
- **tubuligera**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin. 1843, 166.
- **vulgaris**, Dujardin. Ann. Sci. Nat., Zool. [2], IV, 1835, 346, etc., ix, 3 and 4.
- Dujardin, Hist. Nat. Zooph. Infusoires, 1841, 256, i, 14.
- (**Quinqueloculina**) sp. Jones, Quart. Journ. Geol. Soc. XL, 1884, 769, xxxiv, 1.
- Wetherell. Trans. Geol. Soc. Lond. [2], v, 1834 (1840), 135, ix, 20 [= *Q. triangularis*].
- Schultze. Organismus Polythal. 1854, ii, 10 and 11, 18–20 [structural].
- (**Triloc.**), Schultze, Müller's Archiv, 1856, 165, etc., viB, 1–3 [reproduction].
- Parker, Trans. Micr. Soc. London, n. s. vi, 1858, 53–59, pl. v and cuts.
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- [sections of], Heer, Urwelt Schweiz, 1865, 202, f. 114; and transl., 1876, 212, f. 114.
- showing pseudopodia. Williamson, Pop. Sci. Rev. iv, 1865, 176, viii, 1 (after Schultze).
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- Steinmann, Elem. Palæont. I, 1888, 20 and 23, f. 1, 3A, 4B–E.
- PMILIOLINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. I [a family group name].

- MILIOLINA**, Williamson, 1858. Williamson, Recent British Foram. 1858, 83; Brady, Report Challenger, 1884, 157.
- **agglutinans** (d'Orb.). Terrigi, Atti. Acc. Pont. Nuovi Lincei, xxxiii, 1880, 172, i, 1 [*Quinqueloculina*, 1839].
- iii (numbered iv by error), 4-8 [structural].
- Brady, Report Challenger, 1884, 180, viii, 6 and 7 [see *Quinqueloc.*].
- Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 325, xiii, 1-3 [see *Quinqueloc.*].
- Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 215, xi, 34 and 35.
- ? Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 109, iv, 13.
- **akneriana** (d'Orb.). Terrigi, Atti. Acc. Pont. Nuovi Lincei, xxxv, 1883, 169, ii, 1 [*Quinqueloculina*, 1846].
- **alveoliniformis**, Brady. Q Journ. Micr. Sci. xix, 1879, 268.
- Brady, Report Challenger, 1884, 181, viii, 15-20.
- **amygdaloides**, Brady. *Ibid.* 1884, 163, vi, 10a, b.
- **angularis**, Howchin. Trans. R. Soc. S. Australia, xii, 1889, 2, i, 1-3.
- **auberiana** (d'O.). Brady, Report Challenger, 1884, 162, v, 8 and 9 [*Quinqueloculina*, 1839].
- Walther, Mitth. Zool. Stat. Neapel. viii, 1883, 382, xx, 8 and 11.
- **bertheliniana**, Brady. Report Challenger, 1884, 166, cxiv, 2a, b.
- **bicornis** (Walker & Jacob). Williamson, Recent British Foram. 1858, 87, vii, 190-198 [error for 190-196]; "190-194, typica" [*Serpula*, 1798].
- v. **angulata**, Williamson. *Ibid.* 1858, 88, vii, 196.
- v. **elegans**, Williamson. *Ibid.* 1858, 88, vii, 195.
- Brady, Report Challenger, 1884, 171, vi, 9, 11 and 12.
- Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 214, xi, 25.
- **boueana** (d'O.). Brady, Report Challenger, 1884, 173, vii, 13a, b, c [*Quinqueloculina*, 1846].
- **bucculenta**, Brady. *Ibid.* 1884, 170, cxiv, 3a, b.
- var. **placentiformis**, Brady. *Ibid.* 1884, 171, iv, 1 and 2.
- **circularis** (Born.). *Ibid.* 1884, 169, iv, 3a, b, c, and v, 13 and 14 ? [*Triloculina*, 1855].
- var. **sublineata**, Brady. *Ibid.* 1884, 169, iv, 7a, b, c.
- Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 742, xiv, 2a, b.
- Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 108, iv, 10.
- **communis** (Desh.). Sherborn and Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 742, xiv, 3 [*Triloculina*, 1831].
- **crassatina**, Brady. Report Challenger, 1884, 180, viii, 5a, b [v. *M. incrassata*].
- **cultrata**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 45.
- Brady, Report Challenger, 1884, 161, v, 1 and 2.
- **cuvieriana** (d'O.). *Ibid.* 1884, 162, v, 12a, b, c [*Quinqueloculina*, 1839].
- **depressa** (Lam.). Goës, Bihang K. Svenska Vet.-Ak. Handl. xv, 1889, 14, ii, 15, 16 [*Miliolites*, 1804].
- **disciformis** (Macgillivray). Chimmo, Bed of Atlantic, [1870], 19, iv, 3 [*Vermiculum*, 1843].
- **excisa**, Brady, Parker & Jones. Trans. Zool. Soc. xii, (7), 1888, 215, xi, 33.
- **elongata** (d'Orb.). Goës, Bihang K. Svenska Vet.-Ak. Handl. xv, 1889, 14, ii, 11, 12 [*Biloculina*, 1826].
- **fabularioides** (Karrer), v. *Quinqueloculina*.
- **ferussacii** (d'O.). Brady, Report Challenger, 1884, 175, cxiii, 17a, b [*Quinqueloculina*, 1826].
- var. Balkwill & Wright. Trans. R. Irish Ac. xxviii (Sci.), 1885, 325, xii, 10-12.
- Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 742, xiv, 5.
- **fichteliana** (d'O.). Brady, Report Challenger, 1884, 169, iv, 9a, b, c [*Triloculina*, 1839].

- MILIOLINA gracilis** (d'O.). Brady, Report Challenger, 1884, 160, v, 3a, b, c [*Triloculina*, 1839].
- **gussensis**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 85 xxiv (1), 5a-d.
- **incrassata**, Brady. Quart. Journ. Micros. Sci. xxi, 1881, 46 [v. also *M. crassatina*].
- **indistincta**, Fornasini. Boll. Soc. Geol. Ital. II, 1883, 182, ii, 1a, b, c.
- **insignis**, Brady. Quart. Journ. Micros. Sci. xxi, 1881, 45.
- ——— Brady, Report Challenger, 1884, 165, iv, 8-10.
- ——— Wright, Proc. Belfast Nat. Field Club, 1884-5, App. IX, 1886, 319, xxvi, 4a, b.
- **labiosa** (d'O.). Brady, Report Challenger, 1884, 170, vi, 3-5 [*Triloculina*, 1839].
- **linnæana** (d'O.). *Ibid.* 1884, 174, vi, 15-20 [*Triloculina*, 1839].
- **lucens**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 87, xxiv (1), 7a-d [compare *T. triquetra*, Terq.].
- **macilenta**, Brady. Report Challenger, 1884, 167, vii, 5 and 6.
- **oblonga** (Montagu). Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 173, i, 2 [*Vermiculum*, 1803].
- ——— Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 76, iii [numbered iv by error], 1-3 [structural].
- ——— Brady, Report Challenger, 1884, 160, v, 4a, b.
- ——— Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 214, xl, 27,
- ——— Terrigi, Mem. R. Acc. Lincei, (4), VI, 1889, 108, iv, 5-8.
- **ornata** (d'Orb.). Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 76, ii, 4-7 [structural] [*Spiroloculina*, 1839].
- **parkeri**, Brady. Quart. Journ. Micros. Sci. xxi, 1881, 46 ["*Quinqueloculina* with oblique ridges," Parker, Trans. Micr. Soc. London, VI, 1858, 53, v, 10].
- ——— Brady, Report Challenger, 1884, 177, vii, 14.
- **pulchella** (d'O.). *Ibid.* 1884, 174, vi, 13, 14, and iii, 10-13 [*Quinqueloculina*, 1826].
- ——— Walther, Mitth. Zool. Stat. Neapel, VIII, 1888, 382, xx, 10.
- **pygmæa** (Reuss). Brady, Report Challenger, 1884, 163, cxiii, 16a, b [*Quinqueloculina*, 1850].
- ——— Brady, Parker and Jones, Trans. Zool. Soc. XII, (7), 1888, 214, xl, 30.
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- **ringens** (Lamarck). Goës, K. Svenska Vet.-Akad. Handl. XIX, (4), 1882, 131, x, 361 and 386 [*Miliolites*, 1804].
- ——— Goës, Bihang K. Svenska Vet.-Ak. Handl. xv, 1889, 14, ii, 6-10, 13, 14.
- **rotundata** (Mont.). Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 324, xii, 8 and 9 [*Vermiculum subrotundum*, 1803].
- **rupertiana**, Brady. Quart. Journ. Micros. Sci. xxi, 1881, 46.
- ——— Brady, Report Challenger, 1884, 178, vii, 7-12 and cuts, p. 179.
- **saxorum** (Lamarck), v. *Miliolites*.
- **sclerotica** (Karrer). Balkwill & Millett, Journ. Micr. III, 1884, 24, i, 2 [*Quinqueloculina*, 1868].
- **scrobiculata**, Brady. Report Challenger, 1884, 173, cxiii, 15a, b, c.
- **secans** (d'O.). *Ibid.* 1884, 167, vi, 1 and 2 [*Quinqueloculina*, 1826].
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- ——— v. **disciformis** (Macgill.). *Ibid.* 1858, 86, vii, 188 and 189 [*Vermiculum*, 1843] [= *M. secans*, d'Orb.].
- ——— v. **oblonga** (Mout.). *Ibid.* 1858, 86, vii, 186 and 187 [*Vermiculum*, 1803].
- ——— Hartwig, The Sea, ed. 3, 1866, 381, f. g.
- ——— Cooke, Thousand Objects Microsc. 1869, 93, ix, 21.
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 11, 12.
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 ————— **subrotundata** (Montagu). Brady, Report Challenger, 1884, 168, v, 10,
 11 [*Vermiculum*, 1803].
 ————— var. Wright, Proc. Belfast Nat. Field Club, 1884-5, App.
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 ————— [————] Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 108, iv, 9.
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loculina, 1848].
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 324, xii, 3-5.
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 ————— **transversestriata**, Brady. Quart. Journ. Microsc. Sci. xxi, 1881, 45.
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 ———— **saxorum**, Lamarck. Ann. Mus. v, 1804, 352, No. 5; and f. 2^a, b, pl. 17, in vol. ix, 1807 [v. *Miliola*, *Quinqueloculina* and *Pentellina*].
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 ———— Lamarck, Coq. Foss. Paris, 1823, 15, xv, 2^a, b.
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- **cantabrigiensis**, Carter. *Ibid.* [6], I, 1888, 178, xiii, 6-8.
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 ———— **rubra**, Lamarck. Anim. sans Vertèbres, II, 1816, 202 [v. also *Polytremata*].
 ———— **woodwardii**, Carter. Annals Mag. Nat. Hist. [5], I, 1878, 306, xvii, 6-9 [? *Bradya tergestina*, Stache MS. 1877].
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 ———— **greenei**, Ulrich. Contrib. Amer. Palæont. I, (1), 1886, 35, iii, 8^a-e [see *Geol. Mag.*, August, 1886].

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- MONNAIE de St. Pierre**, Sage. Journ. de Phys. LX, 1805, 222 [= *Nummulites*].
- “**Moniliform lituola**,” Carpenter. Microscope, ed. 5, 1875, 531, f. f [= *Hornosina carpenteri*, q. v.].
- MONOCYSTITIS**, Ehrenberg, 1854, v. *Miliola arcella* = *Orbulina*.
- MORGINULINA**, Hantken. 1871, misprint for *Marginulina*.
- MUCRONINA** hasta, d'Orbigny. Ann. Sci. Nat. VII, 1826, 256, No. 1; and Modèles, No. 51; 1826. [Given by d'Orbigny as a subgenus of *Nodosaria*] [v. *Nodosaria*].
- MULTILOCULIDÆ**, Abich. Mém. Ac. Imp. Sci. [Math. Phys.] St. Pétersbourg, [6], VII, 1859, 106, VII, 7, 8, 9; IX, 9 [= ? *Nubecularia* or *Miliolina*].
- MYCHOSTOMINA**, Berthelin, 1881. C. R. Assoc. Franç. (Reims, 1880), 1881, 557 [proposed for certain *Spirillinæ*].
- “**Nautilé aussi petit que l'éperon Nautilus calcar**.” Rasoumovsky, Observ. minéral. environs Vienne, 1822, 3, i, 1 and 2 [= *C. cultrata*, fide T. R. Jones].
- “**Nautilé épineux**.” De Montfort, in Buffon, Hist. Nat. Mollusq., Sonnini's ed., IV, 1802, 226, XLVII, 2 [*Crist. calcar*].
- “**Nautilé grapuleux**.” *Ibid.* Sonnini's ed., IV, 1802, 219, XLVII, 1 [= *Polystom. crispa*].
- “**Nautilé microscopique**” D'Argenville, Conchyliologie, 1780, I, 680, VII, B, 3, B, 4 [*Cristellaria*].
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- “**Nautilé vitré et reticulé, etc.**” *Ibid.* 1780, I, 679, VII, C, 1.
- NAUTILINA**, Costa, 1856. Atti Accad. Pontaniana, VII, (2), 1856, not described [= *Cristellaria*].
- *puteolana*, Costa. *Ibid.* VII, (2), 1856, not descr., XXVII, 28.
- Nautilitis** et ammonitis ut reliqua substantia lapidis, refertissimæ— (*Lapis siliceus*, etc.). Soldani, Sagg. Oritt. 1780, 142, XXII, 99, G, H and I [G and I = ? *Nummulites*; H = ? *Orbitoides stellata*].
- “**Nautilo**, Targioni, Relaz. d'alc. viaggia, IV, 1770, 8, etc., i, f. 6-16 [6-8 = *Polyst. crispa*; 9-15 = *Nummulites*; 16 = ? *Nonionina*].
- “**Nautiloid lituola**,” Carpenter, Microscope, ed. 5, 1875, 536, f. 274a, b, c [= *Cyclammmina caucellata*, Brady, 1876].
- NAUTILUS** acicula, Wulfen. Nova Acta Acad. Cæs. Leop. Carol. VIII, 1791, 252, no fig. [*Nodosaria* near *longiscata*].
- **acut-auricularis**, Fichtel & Moll. Test. Micr. 1798, 102, XVIII, g-i [v. *Cristellaria*; *Pulvinulina*].
- Wood, Index Testaceologicus, 1825, 66, XIII, 50.
- **aduncus**, Fichtel & Moll. Test. Micr. 1798, 115, XXII, a e [= *Orbiculina adunca* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 65, XIII, 44.
- **ambiguus**, Fichtel & Moll. Test. Micr. 1798, 62, ix, d-f [= *Polystom. ambigua* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 66, XIII, 58.
- **ammoniformes sive trochiformes**. Sold., Testac. II, App. 1798, 138, pl. 2, 13q, Q, R [*Rotalia* (*Turbinulina*) *elegans*, d'O. Ann. Sci. Nat. VII, 1826, 276, 54].
- Soldani, Sagg. Oritt. 1780, 99, II, 13Q, R [= *Rot. partschiana*].
- (**ammonoides**), Gronov. Zoophl. Gronov. 1781, 282, XIX, 5 and 6 [v. *Operculina*].
- Linnaeus, Syst. Nat. ed. 13 (Gmelin's), 1788, 3370.
- **amphorarius**, Sold. Testac. II, App. 1798, 141, pl. 7, 46, c, C [*Textularia abbreviata*, d'O., For. Foss. Vienne, 1846, 249, pl. 15, 7-12].
- **amphorarii** (au Testæ multiloculares polythalamie, etc.) Soldani, Sagg. Oritt. 1780, 108, VII, 46, B-DE [B = *Urig. pygmaea*; C = *Text. gibbosa*; D = *Lingul. carinata*; E = mouth of C].
- **vel janiformes**, Sold. Testac. II, App. 1798, 141, pl. 7, 46e, E [*Textularia punctulata*, d'O., Ann. Sci. Nat. VII, 1826, 262-4].

- NAUTILUS amphorarii**, Sold. Sagg. Oritt. 1780, 108, pl. 7, 46c, *C* [*Textularia abbreviata*, d'O., For. Foss. Vienne, 1846, 249, pl. 15, 7-12].
- *Ibid.* 1780, 108, vii, 46v, *V* [= *Bulimina marginata*, var.].
- **angulatus**, Fichtel & Moll. Test. Micr. 1798, 113, xxii, *a-e* [= *Orbiculina angulata* (F. & M.)].
- ——— Wood, Index Testaceologicus, 1825, 66, xiii, 57.
- (**Lituus**) **arietinus**, Batsch. Conch. Seesands, 1791, vi, 15a-f [15a, b = *Penerop. pertusus*, Forsk.; 15c = *P. pertusus* v. *arietinus*, Batsch; 15d, e, f, = *Spirolina hemprichii*, Ehr.] [v. *Peneroplis*].
- **asterizans**, Fich. & Moll. Test. Micr. 1798, 37, iii, *e-h* [v. *Nonionina* and *P'acentula*].
- [**asterisans**] ——— Wood, Index Testaceologicus, 1825, 65, xiii, 39.
- **auricula**, Fichtel & Moll. Test. Micr. 1798, 108, var. *a*, xx, *a-c*; var. β , 20, *d-f* [= *Rotalia* = *Pulvinulina auricula*].
- ——— Bowdich, Elem. Conch. (1), 1822, 22, ii, 5.
- ——— Wood, Index Testaceologicus, 1825, 66, xiii, 54.
- **balthicus**, Schröter. Einl. Conch. Kenntn. I, 1783-86, 20, i, 2.
- ——— Linnæus, Syst. Nat. ed. xiii (Gmelin's), 1788, 3370.
- ——— Wood, Index Testaceologicus, 1825, 63, xiii, 10.
- **beccarii**, Linnæus. Syst. Nat. ed. 10, 1758, 710; ed. 13, 1788, 3370 [*Cornu Hammonis*, Plancus, De Conch. I, 8, f. 1] [v. *Rosalina*, *Rotalina* and *Rotalia*].
- ——— Martini, Neues syst. Conchyl.-Cab. I, 1769, 261, xix, 178, 179; xx, 175-177.
- ——— Schröter, Innere Bau See- und Erd Schneckens, 1788. 2, i, 3.
- ——— Murray, Fund. Test. in Linnæus, Amœnitates academicae, VII, 1785, 143, ii, 16.
- ——— Walker & Jacob, in Kannmacher's ed. of Adams' Essays on the Microscope, 1798, 640, xiv, 29 [Walker's, iii, 63 = *Rotalia beccarii*].
- ——— Montagu, Testac. Brit. Supplement, 1808, 74, xviii, 4.
- ——— Parkinson, Organ. Rem. former World, III, 1811, 108, xi, 27 and 28.
- ——— Pulteney, Catalogue in Hutchins Hist. of Dorset, ed. 2, III, 1813, 42, xix, 30.
- ——— Brookes, Introd. Study Conch. 1815, 91, v, 58.
- ——— Brookes, Anleit. Conch. 1823, 80, v, 58.
- ——— Wood, Index Testaceologicus, 1825, 63, xiii, 9.
- ——— Brown, Illustr. Conch. 1827, fly-leaf, lii, 11.
- **perversus**, Walker & Boys. Test. Min. [1784], 18, iii, 64 [= *Rotalia beccarii*].
- **perversus**, Montagu. Testac. Brit. Supplement. 1808, 75, xviii, 6.
- **perversus**, Brown. Illustr. Conch. Gt. Brit. 1827, fly-leaf, lii, 12.
- **calcar**, Linn. Syst. Nat. ed. 10, 1758, 709; ed. 13 (Gmelin's), 1788, 3370 [Plancus, De Conch. I, 12, f. 3 and 4] [v. *Nodosarina* and *Cristellaria*].
- [——— ———], Martini, Neues syst. Conchyl. I, 1769, 248, xix, 168-169; and xx, 182-183.
- ——— Spalowsky, Testac. 1795, 7, i, 7.
- ——— Fichtel & Moll. 1798, 69, var. *a*, xi, *a-c* [*Crist. calcar*]; var. β , xi, *d-f* [*Crist. caltrata*]; var. γ , xi, *g-h*, var. δ , xi, *i-k*, var. ϵ , xii, *a-c* [*C. calcar*]; var. ζ , xii, *d-f* [*C. caltrata*]; var. η , xii, *g, h*, var. θ , xii, *i, k*; var. ι , xiii, *a, b* [*C. rotulata*, *C. simplex*, etc.]; var. κ , xiii, *c, d*; var. λ , xiii, *e-g*, var. μ , xiii, *h, i* (*k, l*, sections) [*C. calcar*].
- ——— Walker & Jacob, in Kannmacher's ed. of Adams' Essays Micros. 1798, 641, xiv, 31 [Walker's, iii, 66 (*Calcar*) [= *Cristellaria caltrata*].
- ——— Montagu, Testac. Brit. 1803, 189, xv, 4.
- ——— Wood, Index Testaceologicus, 1825. 63, xiii, 4.
- ——— Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, lii, 1 and 2.
- **carinati** (**Lenticulæ**), Sold. Testac. I, (1), 1789, 64, pl. 58, *hh, mm* [*Robulina aculeata*, d'O. Ann. Sci. Nat. VII, 1826, 289, 14].

- NAUTILUS carinatus** (W. & B.). Walker & Jacob, in Kannmacher's ed. of Adams' Essays Micros. 1798, 642, xiv, 37 [Walker's, *Nautilus oblongus carinatus* iii, 72 = *Cristellaria* young [v. *Spirolina*].
 _____ Wood, Index Testaceologicus, 1825, 64, xiii, 21.
 _____ Brown, Illustr. Conch. Gt Brit. 1827, fly-leaf, lii, 7.
 _____ **cassis**, Fichtel & Moll. Test. Micr. 1798, 95, var. *a*, xvii, *a-d*, var. *β*, xvii, *e-g*, var. *γ*, xvii, *h-i*, var. *δ*, xvii, *k, l*, var. *ε*, xviii, *a-c* [v. *Linthurus*, *Nodosarina* and *Cristellaria*].
 _____ Wood, Index Testaceologicus, 1825, 66, xiii, 48.
 _____ **caudiformes**, Sold. Testac. ii, 1798, 13, pl. 1, *C* [*Frondic. alata*, d'O. Ann. Sci. Nat. vii, 1826, 256, 2].
 _____ **seu elongatus cicada fossilis**, Soldani. Sagg. Oritt. 1780, 97, i, 3*c*, f [= *Cr. cassis*, var.].
 _____ **circumalati seu marginati grandiusculi**, Soldani. *Ibid.* 1780, 97, i, 4*G* [= *Crist. cultrata*].
 _____ **circumradiati læves minusculi**, Soldani. *Ibid.* 1780, 98, i, 7*K*, 8*L* and 9*M*, also 10*N* [7-9 = *Crist. colcar*; 10 = *Lit. nautiloides*].
 _____ (**Orthoceras**) **comatus**, Batsch. Conch. Seesands, 1791, pl. i, f. 2*a*, b [v. *Nodosaria*].
 _____ *Ibid.* 1791, pl. i, 2*c*, *d* [= *Gland. glans*, d'O.].
 _____ **comptoni**, Sowerby. Mineral Conchology, ii, 1818, 45, pl. 121 [v. *Leutuculites*; *Crist. rotulata*].
 _____ (**Orthoc.**) **conico-articulatus**, Batsch. Conch. Seesands, 1791, pl. iii, 11 [v. *Articulina*].
 _____ **conico-rotundati**, Soldani. Sagg. Oritt. 1780, 99, i, 12*P* [= *Crist. vortex*].
 _____ (**Orthoceras**) **costatus**, Batsch. Conch. Seesands, 1791, pl. i, f. 1*a-1g* [*Marginulina*; = *Nodos.* (*Margin.*), *raphanus* (Linn.)].
 _____ **costatus**, Fichtel & Moll. Test. Micr. 1798, 47, iv, *g, h* [= *Crist. costata* (F. & M.)] [v. *Cristellaria*].
 _____ **costatus**, Montagu. Testac. Brit. 1803, 199, xiv, 5 [= *Nodosaria*].
 _____ var. **Montagu**. *Ibid.* Supplement, 1808, 83, xix, 2 [v. *Orthocera*; = *Nodosaria*].
 _____ Wood, Index Testaceologicus, 1825, 64, xiii, 25.
 _____ **costatus**, Schröter. Wiedemann's Archiv, iii, (2), 1803, 63, no fig. [*Nodosaria*].
 _____ **crassulus**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Micros. 1798, 641, xiv, 35 [Walker's, *Nautilus spiralis crassus*, iii, 70 = *Nonion. crassula*, W. & J] [v. *Polystomella*].
 _____ Montagu, Testac. Brit. 1803, 191; and Supplement, 1808, 79, xviii, 2.
 _____ Wood, Index Testaceologicus, 1825, 63, xiii, 11.
 _____ Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, lii, 5.
 _____ **craticulatus**, Fichtel & Moll. Test. Micr. 1798, 51, v, *h-k* [v. *Vorticialis*, *Helicosa* and *Polystomella*] [= *Polystom. craticulata* (F. & M.)].
 _____ Wood, Index Testaceologicus, 1825, 65, xiii, 42.
 _____ **crepidula**, Fichtel & Moll. Test. Micr. 1798, 107, xix, *g-i* [= *Cristellaria*] [v. *Nodosaria*, *Nodosarina* and *Cristellaria*].
 _____ Wood, Index Testaceologicus, 1825, 66, xiii, 53.
 _____ **crispus**, Linn. Syst. Nat. ed. 10, 1758, 709; ed. 13 (Gmelin's), 1788, 3370 [Plancus, de Conch. 10, t. 1, f. 2 [v. *Polystomella*].
 _____ Martini, Neues Syst. Conchyl.-Cab. i, 1769, 250, xx, 172-174.
 _____ Spengler, Nye Saml. K. Danske Selsk. Skr. i, 1781, 368, [T. 1], f. 1*a*, *b*, *c*.
 _____ Fichtel & Moll. Test. Micr. 1798, 40, iv, *d-f*.
 _____ Walker & Jacob, in Kannmacher's ed. of Adams' Essays Micros. 1798, 640, xiv, 30 [Walker's *Nautilus spiralis geniculis crenatis*, iii, 65].
 _____ Montagu, Testac. Brit. 1803, 187; and Supplement, 1808, xviii, 5.
 _____ Pulteney, Catalogue in Hutchins, Hist. of Dorset, 2d ed., iii, 1813, 42, xix, 29.

- NAUTILUS crispus**, Linn. Parkinson, Organ. Rem. former World, iii, 1811, 107, xi, 25.
- Wood, Index Testaceologicus, 1825, 63, xiii, 8.
- Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, lii, 6.
- **cum ammoniis admixti**, Soldani. Sagg. Orilt. 1780, 100, ii, 14-16 [14 = ? *Biloculina*; 15 = *Adetosina lævigata*; 16 *VX* = *Rot. schreibersii*; 16 *TT* to *XX* = *Nonionina pompilioides*].
- **seu margine coronato dentali**, Sold. *Ibid.* 1780, 98, 1, 5H [= *Crist. calcar*].
- **depressulus**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Micros. 1798, 641, xiv, 33 [Walker's *Nautilus spiralis utrinque*, etc. iii, 68 = *Nonion. depressula*, W. & J.].
- Montagu, Testac. Brit. 1803, 190; and Supplement, 1808, 78, xviii, 9.
- Wood, Index Testaceologicus, 1825, 63, xiii, 7.
- Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, lii, 3.
- **discors**, Spalowsky. Testac. 1795, 8, i, 8.
- **diversæ speciei**, Soldani. Sagg. Orilt. 1780, 134, xviii, 90M, N, O; 91P, Q, R, S; xix, 91T, V, X [90M, N = *Crist. costatus*; O = *Crist. calcar*; 91P, Q = *C. cultivata*, many chambers; R = *Crist. crepidula*; S = *Alveolina boscii*; T = *Fronid. complanata*; VX = ? *Globig. bulloides*].
- **sive papillosi, circumradiata et echinati**, Soldani. *Ibid.* 1780, 98, i, 6, 1 [= *Crist. calcar*].
- **echinus**, Sold. Testac. i, (1), 1789, 64, pl. 57, T [*Cristellaria marginata*, d'O., Ann. Sci. Nat. vii, 1826, 291, 7].
- **entochus**, Schræter. Wiedemann's Archiv, iii, (2), 1803, 60, no fig. [? *Dentalina*].
- **faba**, Fichtel & Moll. Test. Micr. 1798, 103, xix, a-c [v. *Nonionina*].
- Wood, Index Testaceologicus, 1825, 66, xiii, 51.
- **farctus**, Fichtel & Moll. Test. Micr. 1798, 64, ix, g-i [= *Planorbulina farcta* (F. & M.)].
- **fascia**, Linn. Syst. Nat. ed. 10, 1758, 711; ed. 13 (Gmelin's), 1788, 3373 [Gaultieri, Test. t. 19, f. O [v. *Nodosaria*].
- **fascia**, Brookes. Introd. Study Conch. 1815, 93, v, 57.
- Brookes, Anleit. Conch. 1823, 80, v, 57.
- Wood, Index Testaceologicus, 1825, 65, xiii, 31.
- **galea**, Fichtel & Moll. Test. Micr. 1798, 100, xviii, d-f [= *Cristellaria*].
- Wood, Index Testaceologicus, 1825, 66, xiii, 49.
- **gazellicornis**, Spalowsky. Testac. 1795, 9, i, 9.
- (**Orthoc.**) **globifer**, Batsch. Conch. Seesands, 1791, iii, 9a-9c [= *Nodos. globifera*, Batsch.].
- **globuli**, Sold. Testac. i, (1), 1789, 66, pl. 59, vv [*Robulina soldanii*, d'O., Ann. Sci. Nat. vii, 1826, 288, 5].
- **globuli**, Sold. *Ibid.* i, (1), 1789, 66, pl. 59, tt [*Robulina vortex* (F. & M.), d'Orb., Ann. Sci. Nat. vii, 1826, 288, 4].
- **gyzehensis**, Forskal. Descript. Anim. 1775, 140; Icones rerum nat. 1776 [probably the same as *Nummulites gyzenensis*, Edr. 13 (Gmelin's), 1788, 3372].
- (**O.**) **harpa**, Batsch. Conch. Seesands, 1791, v, 14a-14e [14a = *Fronid. complanata*, Defr.; 14b, c = *Flab. harpa*, Batsch; 14d, e = *Planularia auris*, Defr.].
- **helicites**, Schræter. Voll. Einleit. Stein, etc. iv, 1784, 232, x, 2.
- Linn., Syst. nat. ed. 13 (Gmelin's), 1788, 3371.
- **hystrix marginatus**, Sold. Testac. i, (1), 1789, 64, pl. 57, S [*Cristellaria marginata*, d'O. Ann. Sci. Nat. vii, 1826, 291, 7].
- **inæqualis**, Gmelin. Linn., Syst. Nat. ed. 13 (Gmelin), 1788, 3373 [Spengler, Dansk. Skr. 1781, 373, t. 2. f. 10a, b, c [v. *N. rectus*].
- **inæqualis**, Wood. Index Testaceologicus, 1825, 65, xiii, 32.
- **incrassatus**, Fichtel & Moll. Test. Micr. 1798, 38, iv, a-c [= *Nonion. incrassata* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 65, xiii, 40.
- **inflatus**, Montagu. Testac. Brit. Supplement, 1808, 81, xviii, 3 [v. *Rotulina* and *Trochamina*].

- NAUTILUS inflatus**, Montagu. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 4.
- **jugosus**, Montagu. *Testac. Brit.* 1803, 198, xiv, 4 [v. *Orthocera*].
- **læves** (**Lenticulæ**), Sold. *Testac. i.* (1), 1789, 44, pl. 33, *nn* [*Robulina rosacea*, d'O. *Ann. Sci. Nat.* vii, 1826, 289, 11].
- **læves** (**Lenticulæ**), Sold. *Ibid.* i, (1), 1789, 54, pl. 33, *mm* [*Robulina marginata*, d'O., *Ann. Sci. Nat.* vii, 1826, 288, 6].
- **lævi-lucido-umbilicati**, Soldani. *Sagg. Oritt.* 1780, 99, i, 11o [= *Crist. cultrata*].
- **lævigatulus**, Walker & Jacob. In Kannmacher's ed. of Adams' *Essays Micros.* 1798, 641, xiv, 32 [Walker's *Nautilus spiralis geniculis levibus*, iii, 67 = *Crist. rotulata*, Lam.] [v. *Rotalia*].
- Montagu, *Testac. Brit.* 1803, 188; and Supplement, 1808, 75, xviii, 7 and 8.
- Wood, *Index Testaceologicus*, 1825, 63, xiii, 6.
- Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 9 and 10.
- **legumen**, Linn. *Syst. Nat.* ed. 10, 1758, 711; ed. 13 (Gmelin's), 1788, 3373 [Plancus, *Cornu Hammonis*, de *Conch.* 8, t. 1, f. 7 [v. *Orthocera*, *Nodosarina*, *Dentalina* and *Vaginulina*].
- after Plancus, Gualteri and Ledermuller. Fornasini, *Bol. Soc. Geol. Ital.* v, 1886, cuts, *aA*, *bB*, *cC*, on p. 26.
- **legumen**, Montagu. *Testac. Brit. Supplement*, 1808, 82, xix, 6 [v. *Spirolina*].
- Wood, *Index Testaceologicus*, 1825, 65, xiii, 34.
- (**Orthoceras**) **leguminiformis**, Batsch. *Conch. Seesands*, 1791, iii, 8a, 8b [*Sa* = *Vag. leguminiformis*, Batsch; *Sb* = *Dent. communis*, d'Orb.].
- **lenticula**, Sold. *Testac. i.* (1), 1789, 66, pl. 60, *yy* [*Robulina rotundata*, d'O. *Ann. Sci. Nat.* vii, 1826, 290, 24].
- (**Lenticulæ marginatæ**), Sold. *Ibid.* i, (1), 1789, 54, pl. 33, *B*, etc. [*Robulina cultrata* (Montf.), d'Orb. *Ann. Sci. Nat.* vii, 1826, 287, 1].
- (**Lenticulæ marginatæ**), Sold. *Ibid.* i, (1), 1789, 54, pl. 33, *D* [*Robulina marginata*, d'O., *Ann. Sci. Nat.* vii, 1826, 288, 6].
- (**Lenticulæ radiatæ**), Sold. *Ibid.* i, (1), 1789, 54, pl. 33, *aa* [*Robulina pulchella*, d'O., *Ann. Sci. Nat.* vii, 1826, 288, 8].
- (**Lenticulæ radiatæ**), Sold. *Ibid.* i, (1), 1789, 54, pl. 33, *bb* [*Robulina radiata*, d'Orb., *Ann. Sci. Nat.* vii, 1826, 288, 7].
- **lenticularis**, Fichtel & Moll. *Test. Micr.* 1798, 55, var. *a*, pl. vi, *e-h* [= *Numm. tchihatcheffi*], d'A. and H.; var. *β*, vii, *a*, *b* [= ? *Numm. lucasana*, Defr.]; var. *γ*, vii, *c-f* [= ? *Numm. molli*, d'A.]; var. *δ*, vii, *g* [= ? *Numm. biaritzensis*, d'A.] [not *N. radiata*, d'O.]; var. *ε*, vii, *h* [= ? *Numm. perforata*, (Montf.), d'O.].
- **linearis**, Montagu. *Testac. Brit. Supplement*, 1808, 87, xxx, 9 [v. *Orthocera*, *Nodosarina* and *Vaginulina*].
- Wood, *Index Testaceologicus*, 1825, 65, xiii, 35.
- **littoreus**, Wulfen. *Nova Acta Acad. Cæs. Leop. Carol.* viii, 1791, 241, no fig.
- **lituitati**, Soldani. *Sagg. Oritt.* 1780, 97, i, 1a-c [= *Crist. cassis*].
- **lituitatus**, Sold. *Testac. ii.* 1798, 13, pl. 1, *A* [*Cristellaria tuberculata*, d'O. *Ann. Sci. Nat.* vii, 1826, 292, 21].
- **lituitati**, Sold. *Ibid.* i, (1), 1789, 64, pl. 57, *z*; 58, *aa* [*Cristellaria lanceolata*, d'O. *For. Foss. Vienne.* 1846, 89, iii, 41, 42].
- *Ibid.* i, (1), 1789, 64, pl. 57, *x* [*Cristellaria consecta*, d'O. *Ann. Sci. Nat.* vii, 1826, 290, 1].
- *Ibid.* i, (1), 1789, 64, pl. 58, *bb* [*Planularia crepidula* (F. & M.), d'O. *Ann. Sci. Nat.* vii, 1826, 260, 6] [= *Cristellaria*, q. v.].
- *Ibid.* i, (1), 1789, 64, pl. 56, *O*, *P* [*Cristellaria nitida*, d'O. *Ann. Sci. Nat.* vii, 1826, 291, 4].
- **cuspides**, Sold. *Ibid.* i, (1), 1789, 64, pl. 58, *dd* [*Planularia rosstrata*, d'O. *Ann. Sci. Nat.* vii, 1826, 260, 7] [= *Cristellaria*, q. v.].
- **cuspis**, Sold. *Ibid.* i, (1), 1789, 64, pl. 58, *cc* [*Cristellaria elongata*, d'O. *Ann. Sci. Nat.* vii, 1826, 292, 11].
- **lituitatus ligulæ**, Sold. *Ibid.* i, (1), 1789, 64, pl. 57, *z* [*Cristellaria bilobata*, d'O. *Ann. Sci. Nat.* vii, 1826, 292, 12].

- NAUTILI lituitati ligulæ**, Sold. Testac. I, (1), 1789, 64, pl. 58, *aa*, *bb* [*Cristellaria elongata*, d'O. Ann. Sci. Nat. VII, 1826, 292, 11].
- **lituus**, Gmelin. Linn., Syst. Nat. ed. 13 (Gmelin's), 1788, 3372 [Spengler, Dansk. Skr. 1781, 373, t. 2, f. 10*d-g*; Klein, Dantzig. N. Ges. 2, 47, t. 1, litt. a] [v. *N. rectus* and *Peneroplis*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 20.
- **lobatulus**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Micros. 1798, 642, xiv, 36 [Walker's *Nautilus spiralis lobatus*, iii, 71 = *Truncatulina lobatula*] [v. *Serpula*, *Planorb. farcta*, var., and *Truncatulina*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 13.
- **macellus**, Fichtel & Moll. Test. Micr. 1798, 66, var. *a*, x, *e-g*; var. β , x, *h-k* [= *Polystom. macella* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 66, xiii, 45.
- **mamilla**, Fichtel & Moll. Test. Micr. 1798, 53, vi, *a-d* [= *Nummulina mamilla* (F. & M.)].
- (**Orthoc**) **margariferus**, Batsch. Conch. Seesands, 1791, iv, 12*a-c* [= *Vagin. margaritifera*, Batsch.] [v. *Vaginulina*].
- **marisrubri**, Schröter. Wiedemann's Archiv, III, (2), 1803, 62, no fig. [? *Dentalina*].
- **melo**, Sol'd. Testac. I, (1), 1789, 59, pl. 46, *qq* [*Nonionina soldanii*, d'O. For. Foss. Vienne, 1846, 109 pl. 5, 15, 16].
- *Ibid.* II, 1798, 33, pl. 8, *zz*, *A*, *B*, *C* [*Nonionina melo*, d'O. Ann. Sci. Nat. VII, 1826, 293, 4].
- **melo**, Fichtel & Moll. Test. Micr. 1798, 118, var. *a*, xxiv, *a-f*; var. β , xxiv, *g-h* [v. *Alveolina*, *Borelis* and *Melonina*].
- Bowdich, Elem. Conch. (1), 1822, 16, ii, 1*a-d* [*Melonites* in text].
- **melo spiralis**, Sold. Testac. I, (1), 1789, 59, pl. 46, *rr*, *ss* [*Gyroidina soldanii*, d'O. Ann. Sci. Nat. VII, 1826, 278, 5].
- **minimus**, etc., Gualteri. Index Test. Conchyl. 1742, Tab. xix, f. *A*, *B*, *C*, *D* [4 varieties described and 3 referred to Plancus' figures] [*AD* = *Polyst. crispa*; *B* = *Crist. rotulata*; *C* = *C. calcar*].
- (**Orthoceras**) **murex**, Batsch. Conch. Seesands, 1791, ii, 3*a*, *b* [= *Nodosaria*].
- **navicularis**, Wulfen. Nova Acta Acad. Cæs. Leop. Carol. VIII, 1791, 241, no fig. [*C. cultrata*].
- (**Orthoceras**) **obliquatus**, Batsch. Conch. Seesands, 1791, ii, 5*a-d* [= *Nodos.*].
- **obliquus**, Linn. Syst. Nat. ed. 10, 1758, 711; ed. 13 (Gmelin's), 1788, 3372 [Gualtieri, Test. t. 19, f. *N*] [v. *Nodosarina*, *Nodosaria* and *Dentalina*].
- Brookes, Introd. Study Conch. 1815, 91, v. 56.
- [**obliqua**] ——— Brookes, Anleit. Conch. 1823, 80, v. 56.
- Wood, Index Testaceologicus, 1825, 64, xiii, 22.
- **oblongus carinatus apertura lineari ovali**, Walker & Boys. Test. mu. [1784], 20, iii, 72 [= *Cristellaria*, young].
- **orbiculus**, Fichtel & Moll. Test. Micr. 1798, 112, xxi, *a-d* [v. *Orbiculina*].
- Wood, Index Testaceologicus, 1825, 66, xiii, 56.
- **orbiculus**, Forskal. Descrip. Anim. 1775, 125, No. 66 [v. also *Orbitolites*].
- **orthoceratites**, Schröter. Wiedemann's Archiv, III, (2), 1803, 64, no fig. [= *Nodosaria*].
- **papillosus**, Sold. Testac. I, (1), 1789, 65, pl. 59, *qq*, *rr* [*Robulina calcar* (Linn.). D'Orb., Ann. Sci. Nat. VII, 1826, 289, 12].
- *Ibid.* I, (1), 1789, 66, pl. 59, *ss* [*Cristellaria papillosa*, d'O. Ann. Sci. Nat. VII, 1826, 293, 25].
- **papillosus**, Fichtel & Moll. Test. Micr. 1798, 82, xiv, *a-c* [= *Cristellaria pupillosa* (F. & M.)] [v. *Cristellaria*].
- Wood, Index Testaceologicus, 1825, 66, xiii, 46.
- **planatus**, Fichtel & Moll. Test. Micr. 1798, 91, var. *a*, xvi, *a-c* (*i*, section), var. β , xvi, *a-f*, var. γ , xvi, *g*, *h* [= *Peneroplis planatus* (F. & M.)] [v. *Polystomella planulata*].

- NAUTILUS planatus**, Fichtel & Moll. Wood, Index Testaceologicus, 1825, 66, xiii, 47.
- **planci**, Wulfen. Nova Acta Acad. Cæs. Leop. Carol. viii, 1791, 246, no fig. [founded on *Planucus*, de Conch, tab. 1, f. 4] [= *Crist. rotulata*].
- (Orthoc.) **pennatula**, Batsch. Conch. Seesands, 1791, iv, 13a-13c [v. *Grammostonum*, *Vulvulina*, *Higuerina*, *Capreolus*].
- **pertusus**, Forskal. Descr. Anim. 1775, 125, No. 65 [v. also *Peneroplis*].
- **pompilioides**, Fichtel & Moll. Test. Micr. 1798, 31, i, a-c [= *Nonionina*].
- Wood, Index Testaceologicus, 1825, 65, xiii, 37.
- **prcrsus microscopici, quos gibbosos, seu papyraceos minimos** voco, etc., Soldani. Sagg. Oritt. 1780, 101, ii, 18A [= *Truncat. tuberculata*].
- **radiatus**, Fichtel & Moll. Test. Micr. 1798, 58, viii, a-d [= *Nummulina radiata* (F. & M.) = *N. variolaria*, Lamarck].
- **radicula**, Linn. Syst. Nat. ed. 10, 1758, 711; ed. 13 (Gmelin's), 1788, 3373 [Planucus, de Conch. 14, t. 1, f. 5] [v. *Orthocera*, *Nodosarina* and *Nodosaria*].
- Montagu, Testac. Brit. 1803, 197, vi, 4; xiv, 6.
- Wood, Index Testaceologicus, 1825, 64, xiii, 27.
- (Orthoc.) **radicula**, Batsch. Conch. Seesands, 1791, iii, 10a, b [= *Nodos. limbata*, d'O.].
- **raphanistrum**, Linn. Syst. Nat. ed. 10, 1758, 710; ed. 13 (Gmelin's), 1788, 3372 [v. *Nodosaria*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 23.
- Hanley, Ipsa Linn. Conch. 1855, 490, v, 4.
- **raphanus**, Linn. Syst. Nat. ed. 10, 1758, 711; ed. 13 (Gmelin's), 1788, 3372 [Planucus, de Conch. t. 1, f. 6] [v. *Orthocera*, *Marginulina*, *Nodosarina* and *Nodosaria*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 24.
- **rectus**, Spengler. Nye Saml. k. Danske Selsk. Skr. i, 1781, 381, ii, 10a, b, c.
- *Ibid.* i. 1781, 382, ii, 10d, e, f [“Den anden Art (Lit. d, e, f) er meget mærkværdig.”].
- [**NAUTILUM rectum**], Schröter. Neue Litt. u. Beytr. i, 1784, 316, 1, 8.
- **rectus**, Montagu. Testac. Brit. 1803, 197; and Supplement, 1808, 82, xix, 4 and 7 [v. *Orthocera*].
- Wood, Index Testaceologicus, 1825, 65, xiii, 36.
- **rectus geniculis depressis**, Walker & Boys. Test. Min. [1784], 21, iii, 74 [*Nod. (Vagin.) legumen*, Linn.].
- **repandus**, Fichtel & Moll. Test. Micr. 1798, 35, iii, a-d [= *Pulvinulina repanda* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 65, xiii, 38.
- **rotatus** [Montagu]. Wood, *ibid.* 1825, 63, xiii, 5.
- **rugosus**, Linn. Syst. Nat. ed. xii, 1766, 1162; ed. 13 (Gmelin's), 1788, 3371.
- (Orthoceras) **scalaris**, Batsch. Conch. Seesands, 1791, ii, 4a, b [v. *Nodosarina* and *Nodosaria*].
- **scapha**, Wulfen. Nova Acta Acad. Cæs. Leop. Carol. viii, 1791, 242, no fig. [*C. rotulata* ?].
- **scapha**, Fichtel & Moll. Test. Micr. 1798, 105, xix, d-f [v. *Polystom. crassula*, var.; *Nonion. scapha* (F. & M.); *N. communis*, d'O., is this form].
- Wood, Index Testaceologicus, 1825, 66, xiii, 52.
- **sceptrum**, Schröter. Wiedermann's Archiv, iii, (2), 1803, 61, no fig. [? *Nodosaria*].
- **semilituus**, Linn. Syst. Nat. ed. 10, 1758, 710; ed. 13 (Gmelin's), 1788, 3372 [Columna, Phytobas. 136, t. 38, f. D [*Cornu hammonis*]].
- Spalowsky, Testac. 1795, 10, 1, 10.
- **semilituus**, Montagu. Testac. Brit. 1803, 196; and Supplement, 1808, 80, xix, 3.
- Wood, Index Testaceologicus, 1825, 64, xiii, 19.
- **semilunares**, Soldani. Sagg. Oritt. 1780, 97, 1, 2d.
- **sertum**, Wulfen. Nova Acta Acad. Cæs. Leop. Carol. viii, 1791, 240, no fig. [probably *R. beccarii*].

- NAUTILUS sinuatus**, Fichtel & Moll. Test. Micr. 1798, 65, x, *a-d* [= *Rotalia sinuata* (F. & M.)].
- **siphunculus** of Linnæus, Chemnitz, Gualtieri, Wood and others is not a foraminifer.
- **spengleri**, Gmelin. Linn., Syst. Nat. ed. 13 (Gmelin's), 1788, 3371 [Spengler, Dansk. Skr. 1781, 373, t. 2, f. 9b, c [v. *Calcarina*]].
- **spengleri**, Fichtel & Moll. Test. Micr. 84, var. *a*, xiv, *d-f*, var. *β*, xiv, *g-i*, var. *γ*, xv, *a-c*, var. *δ*, xv, *d-f*, var. *ε*, xv, *g, h* (xv, *i, k*, sections) [= *Calcarina*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 17.
- **spinulosus**, Montagu. Testac. Brit. Supplement, 1808, 86, xix, 5 [v. *Orthocera*; *Nodosaria*].
- Wood, Index Testaceologicus, 1825, 65, xiii, 28.
- **spiralis apertura lineari geniculis elevatis**, Walker & Boys. Test. Min. [1784], 19, iii, 66 [quoted as = "*Calcar*," Linn., but = *Crist. cultrata*].
- **crassus utrinque umbilicatus geniculis lineatis**, Walker & Boys. *Ibid.* [1784], 20, iii, 70 [= *Nonionina crassula*].
- **geniculis lævibus**, Walker & Boys. *Ibid.* [1784], 19, iii, 67 [= *Crist. rotulata*, Lamarck].
- **crenatus**, Walker & Boys. *Ibid.* [1784], 18, iii, 65 [= *Polystomella crispa*].
- **lobatus anfractibus supra rotundatis subtis depressioribus**, Walker & Boys. *Ibid.* [1784], 20, iii, 71 [= *Truncatulina lobatula*].
- **umbilicatus geniculis insculptis**, Walker & Boys. *Ibid.* [1784], 18, iii, 63 [= *Rotalia beccarii*].
- **sulcatis**, Walker & Boys. *Ibid.* [1784], 19, iii, 69 [= *Truncatulina lobatula* v. *umbilicata*, W. & J.].
- **utrinque subumbilicatus geniculis depressis plurimis**, Walker & Boys. *Ibid.* [1784], 19, iii, 68 [= *Nonionina asterizans* v. *depressula*, W. & J.].
- **spirula**, Spengler. Nye Saml. K. Danske Selsk. Skr. I, 1781, 370 [T. 1], f. 3a, b, c, d and ? f. 4 and 5 [3 = *Calcarina*; 4 and 5 = *Peneroplis*].
- **spirula**, Linn. Martini, see Ammonshörner, Martini.
- **striata**, Soldani. Sagg. Oritt. 1780, 100, ii, 17 Z [= *Polystom. crispa*].
- **striati**, etc., Sold. Testac. I, (1), 1789, 54, pl. 34, I [*Polystomella strigillata* (F. & M.)]. D'Orb., Ann. Sci. Nat. vii, 1826, 284, 4].
- *Ibid.* I, (1), 1789, 59, pl. 33, ee [*Robulina sulcata*, d'O. Ann. Sci. Nat. vii, 1826, 289, 10].
- **communes (crispi linnæi)**, Sold. *Ibid.* I, (1), 1789, 54, pl. 34, cc, ee, G, H [*Polystomella crispa* (Linn.)]. D'Orb., Ann. Sci. Nat. vii, 1826, 283, 1].
- **vulgatissimi subflavi**, Soldani. Sagg. Oritt. 1780, 100, ii, 17, Y [= *Polystom. crispa*].
- **striatopunctatus**, Fichtel & Moll. Test. Micr. 1798, 61, ix, *a-c* [= *Polystomella striatopunctata* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 65, xiii, 43.
- **striatulus**, Schrøeter. Wiedemann's Archiv, iii, (2), 1803, 61, no fig. [*Nodosaria*].
- **strigillatus**, Fichtel & Moll. Test. Micr. 1798, 49, var. *a*, v, *c-e*; var. *β*, v, *f, g* [= *Polystom. strigillata*, *a* and *β* (F. & M.)] [*β* is the same as *P. aculeata*, d'O., For. Foss. Vienne, 1846, vi, 27, 28] [v. *Vorticialis* and *Polystomella*].
- Wood, Index Testaceologicus, 1825, 65, xiii, 41.
- **subarcuatus geniculis exertis**, Walker & Boys. Test. Min. [1784], 20, iii, 73 [*C. (Margin.) subarcuatula*, W. & J.].
- **subarcuatus**, Montagu. Testac. Brit. 1803, 198, vi, 5 [v. *Cristellaria* and *Nodosaria*].
- Wood, Index Testaceologicus, 1825, 65, xiii, 29.
- **subarcuatulus**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Micros. 1798, 642, xiv, 38 [Walker's, iii, 73 = *C. (Margin.) subarcuatulus*, W. & J.].
- **subarcuatulus**, Montagu. Testac. Brit. Supplement, 1808, 80, xix, 1.

- NAUTILUS subarcuatulus**, Walker. Parkinson, Organ. Rem. former World, III, 1811, 109, xi, 30.
- (**Seminula**) **tricolulati**, Sold. Testac. I, (1), 1789, 62, pl. 53, *A, B* [*Cristellaria* (*Saracenaria*) *italica*. Defr. D'Orb., Ann. Sci. Nat. VII, 1826, 293, 26].
- **tuberosus**, Fichtel & Moll. Test. Micr. 1798, 111, xx, *g-k* [= *Planorbulina tuberosa* (F. & M.)] [*v. Truncatulina*].
- Wood, Index Testaceologicus, 1825, 66, xiii, 55.
- **umbilicatus**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Micros. 1798, 641, xiv, 34 [Walker's *Nautilus spiralis umbilicatus*, iii, 69 = *Trunc. lobatula*, *v. umbilicatula*, W. & J.] [*v. Rotalia*].
- Montagu, Testac. Brit. 1803, 119; and Supplement, 1808, 78, xviii, 1.
- Wood, Index Testaceologicus, 1825, 64, xiii, 12.
- Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, li, 8.
- **umbilicatus**, Linn. Syst. Nat. ed. 10, 1758, 710; ed. 13 (Gmelin's), 1788, 3371 [Columna, Phytobas. 136, t. 38, f. *E*].
- **unguiculatus**, Gmelin. *Ibid.* ed. 13 (Gmelin's), 1788, 3372 [Spengler, Dansk. Skr. 1781, 373, t. 2, f. 9*d*] [= *Calcarinus*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 18.
- (**Orthoceras**) **vaginæformis**, Batsch. Conch. Seesands, 1791, iii, *7a-7d* [*7a* = *Lingul. carinata*; *7b*, *Lingul.* or *Gland.*; *7c, d*, *Marginulina* sp. ?].
- **venosus**, Fichtel & Moll. Test. Micr. 1798, 59, viii, *e-h* [= *Nummulina venosa* (F. & M.) = *N. variolaria*, Lamarck].
- (**Orthoceras**) **vertebralis**, Batsch. Conch. Seesands, 1791, ii, *6a, b* [*v. Dentalina* and *Nodosaria*].
- **vortex**, Fichtel & Moll. Test. Micr. 1798, 33, ii, *d-i* [= *Crist.*; d'Orbigny's *Rob. orbicularis* and *R. imperatoria* are varieties of this form] [*v. Cristellaria*].
- Sold. Testac. II, App. 1798, 145, pl. 18, 91*p*, *P, Q* [*Soldania carinata*, d'O. Ann. Sci. Nat. VII, 1826, 281, 1].
- Sold. *Ibid.* I, (1), 1789, 59, pl. 47, *E* [*Robulina lævigata*, d'O. Ann. Sci. Nat. VII, 1826, 288, 9].
- [**NAUTILITÆ**], Sold. *Ibid.* I, (1), 1789, 66, pl. 60, *B* [*Nonionina umbilicata*, d'O. Ann. Sci. Nat. VII, 1826, 293, 5].
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- NEMOPHORA floridana**, Conrad. Smithson. Misc. Coll. VII, No. 200 (May, 1866), 1 [= ? *Cristellaria*].
- NODASARIA**, Schlumberger, 1874, misprint for *Nodosaria*.
- NODOSARIA**, Lamarck, 1812. Extrait Cours Zool. 1812, 121; and Hist. Anim. sans Vert. VII, 1822, 596; Brady, Report Challenger, 1884, 488.
- (**Gland.**) **abbreviata**, Neugeb. Sberborn & Chapman, Journ. R. Micr. Soc. [2], VI, 1886, 745, xiv, 20*a, b* [*Glandulina*, 1850].
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- **abyssorum**, Brady. Quart. Journ. Micros. Sci. XXI, 1881, 63.
- Brady, Report Challenger, 1884, 504, lxiii, 8 and 9.
- **acicula** (Lam.). Michelotti, Mem. Soc. Ital. Sci. xxii, 1841, 275, i, 1 [*Orthocera*, 1822].
- **acicula**, Philippi. Tertiär. nordwest. Deutsch. 1843, 39, i, 33.
- **acicula**, Reuss. in Geinitz. Palæontographica, xx, (2), 1874, 82, xx, 10.
- (**Dent.**) **aciculata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 255, No. 41.
- = *Dentalina*, see *Orthoceras cuspis*.
- **ackneriana**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. III, 1852, 41, i, 17 and 18 [= *N. orbignyana*, Neugeb., 1860].
- **aculeata**, Ehrenberg. Bericht. k. preuss. Ak. Wiss. Berlin, 1844, 93.
- Ehr., Mikrogeologie, 1854, xxix, 42 [near *N. hispida*, d'O.].
- **aculeata**, d'Orb. Foram. Fossiles Vienne, 1846, 35, i, 26 and 27.
- Rss., Verstein Böh. Kreide, 1845-6, I, 28, xiii, 29 [= *Dentalina*].
- **acuminata**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 23, ii, 9; xiii, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 28, same pl. and fig.

- NODOSARIA acus**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 3 [= *N. ovicula*, d'O.].
- (**Dent.**) **acuticauda**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 133, ii, 11 [*Dentalina*, 1851].
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- **adpersa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 43, ii, 13.
- **adtenuens**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, ix, 1875, 103, i, 4.
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- **æqualis**, G. B. Sowerby. Genera Recent Fossil Shells, ii, No. xli, 1820-1825, pl. 269.
- ——— Sowerby, Conch. Manual, 1839, 71, f. 465; ed. 2, 1842, 203, f. 465; and later eds.
- (**Gl.**) **æqualis**, Reuss. Brady, Report Challenger, 1884, 492, lxi, 32 [*Glandulina*, 1863].
- **affinis**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 26, xiii, 16.
- (**Dent.**) ——— Reuss, in Geinitz, Palæontographica, xx, (2), 1874, 83, xx, 12 [Reuss says this has priority over d'Orbigny's *N. affinis*, For. Foss. Vien. 1846].
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- ——— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 748, xiv, 33.
- ——— see *Orthoceratia conico-cylindroidea* and *Orthoceras feniculum*.
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- ——— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 10, i, 20.
- **agljæ**, Ehrenberg. Monatsbericht. k. preuss. Ak. Wiss. Berlin, 1872, 285.
- **alpigena**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 610, i, 13.
- **alternans**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 139, xiii, 16a, A, and 17.
- **ambigua**, Costa. *Ibid.* vii, (2), 1856, 137, xii, 9aA, 10aA [10 described as a var.].
- ——— v. **cretacea**, Mariani. Boll. Soc. Geol. Ital. vii (1889), 286, x, 8.
- **ambigua**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856, 71, i, 13-16 [v. also *N. radicata*].
- **amphioxys**, Reuss. In Geinitz, Palæontographica, xx, (2), 1874, 82, xx, 8.
- **amphora**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 5, i, Turnerithon, 3.
- **ampla**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 6 [= *N. grabra* d'O.].
- **anglica**, Ehrenberg. *Ibid.* 1854, xxviii, 2 [= *N. ovicula*, d'O.].
- **annulata**, ——— Geogn. Skizze Böhmen ii, (1), 1844, 210 [v. also *Dentalina*].
- ——— Reuss, Verstein. Böhm. Kreide, 1845-6, i, 27, viii, 4 and 67; xiii, 21.
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- (**Dent.**) ——— Reuss, in Geinitz, Palæontographica, xx, (2), 1874, 85, xx, 19 and 20.
- ——— Fric, Arch. Nat. Landesd. Böhmens, vii, 1889, 111, woodcut, 157.
- **annulifera**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 614, i, 21.
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- **antipodium**, Stacue. Novara-Exped., Geol. (1), 1864, 194, xxii, 19.
- **penninica**, Michelotti. Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, [2], III, (2), 1847, 12, not figured.
- **appendiculata**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 142, xii, 22a, A.
- (**Dent.**) **approximata**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 134, ii, 22 [v. also *Dentalina*].
- Hantken, Magyar. Földt. Társ. Munkálatai, IV, 1868, 87, i, 10.
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- **armata**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. III, 1852, 56, i, 44.
- (**Gl.**) **armata**, Reuss. Brady, Report Challenger, 1884, 494, lxiii, 6 [*Glandulina*, 1865].
- **arundinea**, Schwager. Novara-Exped., Geol. (2), 1866, 211, v, 43, 44 and 45.
- Sherborn & Chapman, Journ. R. Micr. Soc. [2], VI, 1886, 747, xiv, 28 and 29.
- **aspera**, Reuss. Verstein. Böhm. Kreide, 1845-6, I, 26, xiii, 14 and 15.
- Reuss, in Geinitz, Grundr. Verstein. 1845-46, 653, xxiv, 4.
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- **asperula**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. III, 1852, 54, i, 40 and 41.
- **bacilloides**, Hantken. Magyar. Földt. Társ. Munkálatai, IV, 1868, 86, i, 9a, b, c.
- Hantk., Magy. kir. földt. int. évk. IV, 1875 (1876), 22, ii, 8; xvi, 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt. IV, 1875 (1881), 27, same pl. and fig.
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- Schlumberger, Compt. Rend. Assoc. France, 1873 (1874), 562, f. 14 and 15.
- v. **minor**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 21, ii, 7; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 26, same pl. and fig.
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- *bactroides*, Reuss. Sitz. k. Ak. Wiss. Wien, xlv, (1), 1862 (1863), 37, ii, 5.
- “—— *baculoides*, Gm.” Jones, Cat. Foss. Foram. B. M. 1882, 29.
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- v. *aculeata*, Egger. Neues Jahrbuch, 1857, 305, xv, 17-21.
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- Prestwich, Geology, 1888, ii, 352, 175a.
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- *berthelotiana*, Reeve. Conch. System. II, 1842, 293, cxcvii, 15 [*Margulinina*, d'Orb. = *Marginulina*].
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- *bitziana*, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. III, 1852, 53, i, 36 and 37 [*Bietziana* in 1860 “= *bronnana*”].
- *bistegia*, Duniowski. Kosmos [Lemberg], iv, 1879, 106, pl., 4.
- *bolli*, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 265, viii, 6.
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- *buchiana*, Neugeboren. *Ibid.* III, 1852, 41, i, 16 [= *orbignyana*, Neugeb., 1860].
- *budensis*, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 23, ii, 10; xvi, 4; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 23, same pl. and fig.
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- **candei**, d'Orbigny. De la Sagra, Hist. Phisiq. etc., Cuba, 1839, "Foraminifères," 15, i, 6 and 7; also in Spanish, 1840, 44, same pl. and fig.
- **cannæformis**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 364, i, 2a, b.
- **capillaris**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. III, 1852, 50, i, 22-24.
- **capitata**, Boll. Geogn. deutsch. Ostseeländer, 1846, 177, ii, 13 [v. also *Dentalina*].
- v. **brevis**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, (1), 1870, 475; figured by v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, viii, 9.
- v. **costata**, Reuss. *Ibid.* LXII, (1), 1870, 475; figured by v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, viii, 10.
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- (**Dent.**) **carinata**, d'O., v. *Dentalina*; v. *Orthoceras obliquum*.
- **catenulata**, Brady. Report Challenger, 1884, 515, lxiii, 32-34.
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- **clava**, Costa. Ati. Accad. Pontaniana, VII, (2), (1856), 147, xiii, 7.
- **clava**, Karer. In von Drasche, Frag. Geol. Luzern, 1878, 90, v, 11; and Boll. Com. Map. Geol. Españ. VII, 1880, 272, E, 11.
- **clavæformis**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. III, 1852, 53, i, 38.
- **clavata**, Costa. Sherborn & Chapman, Journ. R. Micr. Soc. [2], VI, 1886, 748, xiv, 31 [*Vaginulina*, 1855].
- **clavatus**, Brown. Elem. Foss. Conch. 1843, [21], iii, 8.
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- **coccoptycha**, Gumbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 611, i, 16.

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- **memorable**, Franzénau. Math. termész. értesítő, vii, 1889, 252, iv, 6.
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- ——— Brady, Report Challenger. 1884, 504, lxii, 19-22.
- ——— Agassiz, Three Cruises. "Blake," ii, 1888, 166, f. 505.
- ——— Goës, Bihang K. Svenska Vet.-Ak. Handl. xv, 1889, ii, 18-26.
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- (Dent.) ——— Brady, Report Challenger, 1884, 501, lxii, 23 and 24 [see *Dentalina*],
- ——— v. **emaciata**, Rss. *Ibid.* 1884, 502, lxii, 25 and 26 [*Dent. emaciata*, 1851].
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- **costulata**, Reuss. Brady, Report Challenger, 1884, 515, lxiii, 23-27 [*N. stipitata*, var., 1870].
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- ———? ——— Malagoli, Boll. Soc. Geol. Ital. VI, 1887, 521, xiii, 5.
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- **contraria**, (d'Orb.). *Ibid.* 1881. 31, ii, 1-7 [*Biloculina*, 1846].
- **regularis**, Philippson. *Ibid.* 1887, ii, 165. f. 1-7.
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- NUMMULARIA**, J. de C. Sowerby, 1826. Mineral Conchology, VI, 76, pl. 538 (Sept., 1826).
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- ? ——— Carter, Annals and Mag. Nat. Hist. [2], XI, 1853, 171, vii, 21 and 22.
- ——— Carter, Journ. Bombay Br. R. Asiatic Soc. v, (18), (1853), 135, ii, 21 and 22.
- ——— Carter, Geol. Papers Western India, 1857, 451, xviii, 13, 13a.
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- ———, Carter, Geol. Papers Western India, 1857, 464, xxi, 14a-e; and xxiii, 7 and 8.
- **laevigata**, Lamarck. J. de C. Sowerby, Mineral Conchology, VI, 75, dxxxviii (Sept., 1826), 1 [5 figures]. [See T. R. Jones, Quart. Journ. Geol. Soc. xliii, 1887, 132] [v. *Nummulina* and *Nummulites*].
- ——— Brown, Elem. Foss. Conch. 1843, 19, ii, 6 and 7.
- ——— Dixon, Geol., etc., Sussex, 1850, 85, viii, 12 and 13.
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- ——— Carter, Geol. Papers Western India, 1857, 451, xviii, 14, 14a.
- **radiata** (Montf.). Dixon, Geol., etc., Sussex, 1850, 85, ix, 7 [*Rotalites*, 1808 [= *N. variolaria*]].
- **rotula** (Lam.). Brown, Elem. Foss. Conch. 1843, 19, ii, 18 [*Lenticulites*, 1804] [= *Cristellaria*].
- **variolaria**, Lamarck. J. de C. Sowerby, Mineral Conch. VI, 76, dxxxviii (Sept., 1826), 3 [6 figures] [see T. R. Jones, Quart. Journ. Geol. Soc. xliii, 1887, 132] [*Lenticulites*, 1804] [v. *Nummulina* and *Nummulites*].
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- Nummularius lapis**, Gesner. Dis. phys. petrif. 1756, 12 and 31 [= *Nummulites*].
- NUMMULINA**,¹ d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 295.
- **antiquior**, Rouiller & Vosinsky. Bull. Soc. Imp. Nat. Moscou, XXII, 1849, 337, K, 66-78 [v. *Orobias*].
- ——— v. Möller. Mém. Ac. Imp. Sci. St. Petersburg, [7], XXV, No. 9, 1878, 43, i, 1a-d; vi, 1a, b.
- [**antiquior**, Rouill.]. Trautschold, Nouv. Mém. Soc. Imp. Nat. Moscou, XIV, (1), 1879, 42, vi, 3.
- **assilinoïdes**. Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, (2), 90, iii, 33-36; iv, 37-45.

¹ See also *Nummulites*.

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 ———— Bronn, *Lethæa Geognostica*, ed. 3, III, 1853-56, 221, xxxv², 12*a-d*.
 ———— *biarritzensis*, d'Arch. Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. and O. Alpenver., Beilage, 1878, 138, f. 48¹¹ [*Nummulites*, 1853].
 ———— *cellulosus*, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 93; and Mikrogeologie, 1854, description to pl. xxiii, not figured.
 ———— *chartersi*, Savi & Meneghini. Consid. Geol. Toscana, 1851, 189 and 203, no fig. [v. also *Nummulites*].
 ———— *complanata*, Lamarek. Costa, Atti Accad. Pontaniana, VII, (1), (1853), 109, ix, 6 and 7 [*Nummulites*, 1804].
 ———— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr., D. and O. Alpenver., Beilage, 1878, 138, f. 48¹.
 ———— *crassa*, Boubée. D'Arch., Mém. Soc. Géol. France, [2], III, 1848, 415, ix, 16*B*, *B'*, *B''*, *B'''*.
 ———— *curvispira*, Savi & Meneghini. Consid. Geol. Toscana, 1851, 137, no fig. [v. also *Nummulites*].
 ———— *discoidalis*, d'Orbigny. Modèles, No. 88, 1826 [v. also *Assilina*].
 ———— Guérin-Méneville's Cuvier, Iconographie, Mollusques, 1829-1843, 9, ii, 6.
 ———— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls., 1837), 17, iii, 6.
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 ———— Hartwig, The Sea, 1866, ed. 3, 378, f.
 ———— (*Assil.*) ———— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, f.
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 ———— *discorbina*, d'Archiac. Hist. Prog. Géol. III, 1850, 236 [v. also *Nummulites*].
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 ———— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. and O. Alpenver., Beilage, 1878, 138, f. 48¹⁰.
 ———— *fichteli*, Michelotti. Nat. Verh. Holland Maatsch. Wetensch. Haarlem, [2], III, (2), 1847, 15, i, 9 [*Nummulites*, 1841].
 ———— *garansensis*, Joly & Leymerie. Carpenter, Parker & Jones, Introd. Foram. 1862, 271, xviii, 3 [*Nummulites*, 1848].
 ———— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. and O. Alpenver., Beilage, 1878, 138, f. 48⁷.
 ———— *germanica*, Bornemann. Zeitschr. deutsch. geol. Ges. XII, 1860, 158, vi, 3-9 [v. *Amphistegina* (*Nummularia*)].
 ———— *gizehensis*, Ehrenberg. Carpenter, Parker & Jones, Introd. Foram. 1862, 269, xviii, 1 [v. *N. gyzensis*, *infra*].
 ———— [*gizehemis*] ———— Hoernes, Elem. Palæont. 1884, 26, f. 14; French ed., 1886, same fig.
 ———— Steinmann, Elem. Paleont. I, 1888, 34, f. 21, *E-G*.
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 ———— Bronn, *Lethæa Geognostica*, ed. 3, III, 1853-56, 222, xxxv², 32*a*, *b*.
 ———— *globulina*, Michelotti. Nat. Verh. Holland Maatsch. Wetensch. Haarlem, [2], III, (2), 1847, 16, I, 11 and 12 [*Nummulites*, 1841].
 ———— *globulus*, Leymerie. Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, [2], 79, iii, 25-30 [*Nummulites*, 1844].

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 ———— D'Archiac, Mém. Soc. Géol. France, [2], iii, 1848, 415, ix, 19a; 20, 21; 21B; 22.
 ———— var. D. Rouault, *ibid.* [2], iii, 1848, 465, xiv, 10a.
 ———— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. and O. Alpenver., Beilage, 1878, 138, f. 48¹³.
 ———— **gyzensis**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 93; Mikrogeologie, 1854, xxiii, E, 2 [v. *N. gyzehensis*, supra; *Nummulites* and *Nautilus*].
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 ———— **intermedia**, d'Archiac. Mém. Soc. Géol. France, [2], iii, 1848, 416, ix, 23a; 24a [*Nummulites*, 1846].
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 ———— **irregularis**, Michelotti. Nat. Verh. Holland Maatsch. Wetensch. Haarlem, [2], iii, (2), 1847, 16, i, 8 [*Nummulites*, 1841].
 ———— **lævigata**, Lam. Cuvier, Règne Animal, 1836-46, ix (pls. x), 33, xiv, 3 [*Nummulites*, 1801].
 ———— [d'Orb.]. Galeotti, Mém. Couronnés Ac. R. Bruxelles, xii, 1837, (3), 141, iii, 12.
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 ———— Steinmann, Elem. Paleont. 1, 1888, 34, f. 21, K and L.
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 ———— **lenticularis** (Fichtel & Moll), v. *Nautilus*, 1798; v. also *Nummulites*.
 ———— Bronn, Lethæa Geognostica, ed. 2, 1837, 139, xxvii, 22.
 ———— Schafhäutl, Neues Jahrbuch, 1846, 418, viii, 3.
 ———— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 215, xxxv², 13.
 ———— Schauroth, Sitz. k. Ak. Wiss. Wien, xvii, 1855, 542, iii, 2.
 ———— **lenticularis**, Montfort, non Boubée. Rouault, Mém. Soc. Géol. France, [2], iii, 1848, 466, xiv, 11a, b [v. *Lycophris*].
 ———— **lucasana**, DeFrance MS. D'Archiac, Hist. prog. Géol. iii, 1850, 238 [v. also *Nummulites*].
 ———— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹⁶ [v. *Nummulites*].
 ———— Hoernes, Elem. Palæont. 1884, 26, f. 13; French ed., 1886, same fig.
 ———— **mamilla** (Fichtel & Moll). Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 217, xxxv², 12a-d [*Nautilus*, 1798].
 ———— **mamillata**, d'Archiac. Bull. Soc. Géol. France, [2], iv, 1847, 1010, no fig. [v. also *Nummulites*].
 ———— D'Arch., Mém. Soc. Géol. France, [2], iii, 1848, 417, ix, 18a.
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- *mammillaris*, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. xi, 1850, (2), 81, iii, 31 and 32.
- *marginata*, Michelotti. Nat. Verh. Holland Maatsch. Wetensch. Haarlem, [2], iii, (2), 1847, 16, i, 10 [*Nummulites*, 1841].
- *millecaput*, Boubée. Rouault, Mém. Soc. Géol. France, [2], iii, 1848, 464, xiv, 8a [*Nummulites*, 1832].
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- ——— Annals and Mag. Nat. Hist. [2], xi, 1853, 169, vii, 11 and 12.
- *molli*, d'Archiac. Hist. Prog. Géol. iii, 1850, 239 [v. also *Nummulites*].
- *montis-fracti*, Kaufmann. Beitr. Geol. Karte Schweiz, v, 1867, 148, viii, 13-17.
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- ——— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹².
- *nummularia*, d'Orb. Nicholson, Manual Palæont. 1879, i, 119, f. 23, A-D [v. *Nummulites*].
- *obesa*, Leym. Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹⁴ [*Nummulites*, 1853].
- *obtusa*, J. de C. Sow. Carter, Journ. Bombay Br. R. Asiatic Soc. v, (18), (1853), 133, ii, 13 and 14 [*Nummularia*, 1837].
- ——— Carter, Annals and Mag. Nat. Hist. [2], xi, 1853, 170, vii, 13 and 14.
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- ——— v. (*Operculina*) *ammonoides* (Gron.). *Ibid.* 1865, 398, xiv, 44a, 44b; xvii, 62 and 63.
- [d'Arch.]. Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48.³
- [E. & H.]. Steinmann, Elem. Paleont. i, 1888, 34, f. 21, H and I.
- *placentula*, Desh. Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. xi, 1850, (2), 92, iv, 46 [*Nummulites*, 1838].
- *placentula*, Ehr. Abhandl. k. pr. Ak. Wiss. Berlin, 1838, 93; and Mikrogeologie, 1854, xxiii, E, 1 [*Nautilus major*, Forsk. = *Numm. gyzehen-sis* (Forsk.)].
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- ——— D'Orbigny, Modèles, No. 87, 1826.
- ——— Bronn, Lethæa Geognostica, ed. 2, 1837, 138, xlii, 25a, b; and ed. 3, iii, 1853-56, 214, xlii, 25a, b.
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- ——— Terquem, Ess. Anim. Plage Dunkerque, (1), 1875, 25, ii, 4a, b, c, d (and Mém. Soc. Dunkerquoise).
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- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, f.
- ——— v. *N. perforata* (Montf.).
- *polygyrata*, Deshayes. Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. xi, 1850, (2), 95, iv, 48, 50 and 51 [*Nummulites*, 1838].

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- **radiata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 115, v, 23 and 24.
- Costa, Atti Accad. Pontaniana, vii, (2), 1856, 207, xvii, 4.
- Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 71, vi, 11a, b.
- **ramondi**, DeFrance, v. *Nummulites*, 1825.
- Brady, Geol. Mag. [2], ii, 1875, 534, xiii, 4a, b; and Jaarb. Mijn. Ned. Oost-Indie, vii, 2, 1878, 161, i, 4a, b.
- v. **verbeckiana**, Brady. *Ibid.* [2], ii, 1875, 535, xiii, 5a, b, c; and Jaarb. Mijn. Ned. Oost-Indie, vii, 2, 1878, 162, i, 5a, b, c.
- [————] Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹².
- **regularis**, Rütimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. xi, 1850, ii, 76, iii, 1-8; 14-20 [= 1-20].
- **rotularia**, Desh. Grewingk, Verh. russ.-k. Min. Ges. St. Petersburg, 1852-1853 (1853), 208, cuts 1-4 [*Nummulites*, 1838].
- **rotulata** (Lam.). D'Orbigny, Ann. Sci. Nat. vii, 1826, 296 [not a *Nummulina*, but a *Cristellaria*] [*Lenticulites*, 1804].
- **sanguantlæ**, Galeotti. Bull. Soc. Géol. France, x, 1839, 16 and 35, i, 6. [Referred to *Cristellaria* (q. v.) by d'Orbigny in Prodrome, ii, 1850, 281, No. 1377.]
- **scabra**, Lamarck, v. *Nummulites*.
- ? ——— Pusch, Polens Paläontologie, 1837, 164, xii, 19 [*Lycophris lenticulata*, in descr. of plate].
- Potiez & Michaud, Galerie des Mollusques Mus. Douai, i, 1838, 38, x, 3 and 4.
- Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹³.
- Hoernes, Elem. Palæont. 1884, 27, f. 16; French ed. 1886, same fig.
- **seminulum**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 93; and Mikrocologie, 1854, xxiii, E, 3 [= *Nummulites guettardi*, d'A. & H.].
- **soldanella**, Costa. Atti Accad. Pontaniana, vii, (1), (1853), 110, ix, 9c.
- **spira**, de Roissy. Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48² [*Nummulites*, 1805].
- **striata** (d'Orbigny), v. *Camerina* (Bruguière).
- Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 71, viii, 5 [sarcoda].
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- Carpenter, The Microscope, ed. 6, 1881, 584. f. 337 [structural].
- **targionii**, Meneghini MS.; [an *Amphistegina*, q. v.].
- **tchihatcheffi**, d'Arch. Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹⁸ [*Nummulites*, 1853].
- **umbilicata**, Schafhäntl. Neues Jahrbuch, 1846, 418, viii, 4a and 5.
- **umbo-reticulata**, Schafhäntl. *Ibid.* 1846, 416, viii, 5a [and 6] [= *Orbitulides*].
- **variolaria** [Lamarck]. See *Nautilus radiatus*, F. & M.; *N. venosus*, F. & M. [*Lenticulites*, 1804].

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- Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48^o.
- Steinmann, Elem. Paleont. I, 1888, 34, f. 21, C, D.
- **wilcoxi**, Heilprin. [Heilprin], Amer. M. Micro. Journ. IV, 1883, 1, f. 1 and 2 [*Nummulites*, 1882].
- **irregulares**, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, (2), 93, iv, 47-55; v, 63, 66.
- ? sp., Carter. Journ. Bombay Br. R. Asiatic Soc. v, (18), (1853), 132, ii, 9 and 10; and Annals and Mag. Nat. Hist. [2], XI, 1853, 169, vii, 9 and 10.
- sp. ind., Martin, Samml. Geol. Reichs-Mus. Leiden, [1], I, (2), 1881, 109, v, 8.
- Pictet. Traité de Paléont. IV, 1846, 225, xii, 7.
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- Macdonald, Annals and Mag. Nat. Hist. [2], XX, 1857, 194, vi, 32.
- Carpenter, Parker & Jones, Introd. Foram. 1862, 262, xviii [structural].
- see *Nummulites* in all cases.
- NUMMULITA lævigata**, Lam. Fleming, Hist. Brit. Anim. 1828, 233.
- NUMMULITES**, Lamarck, 1801. Syst. Anim. sans Vertèbres, IX, (1801), 101.
- **acuminata**, Kutorga. Trudui mineral. Obsh. (St. Petersburg), II, (1834), (12), xv, 6.
- **acuta** (J. de C. Sow.). Jones in Microgr. Dict. ed. 4, 1883, 549, xxiv, 22 [*Nummularia*, 1837].
- **althausii**, Alberti. Beitr. Monogr. Bunt. Sandst. etc., 1834, 53, no fig.
- **amygdala**, Schafhäütl. Sud.-Bayerns Lethæa Geogn. 1863, 99, ix, 4, 5 and 7.
- **anomala**, de la Harpe. Bull. Soc. Géol. France, [3], v, 1877, 827, xvii, 12-18.
- De la Harpe, Bull. Soc. Vaud. Sci. Nat. [2], xvi, 1879, 211, x, 12-18.
- **arbiensis**, Conrad. In Lynch, Off. Report, U. S. Exped. Dead Sea, 1852, 227, xxii, 127.
- **aspera**, Catullo. Ann. Fisica (Zantedeschi's), 1849-50, 250.
- **aspera**, Kutorga. Trudui mineral. Obsh. (St. Petersburg), II, (1834), (10).
- **assilinoïdes**, Murchison, MS. Jones, Cat. Foss. Foram. B. M. 1882, 30.
- **atacicus**, Leymerie. Mém. Soc. Géol. France, [2], I, 1844, 358, xiii, 13a-e.
- [**atacica**] ——— Joly & Leymerie, Mém. Ac. Sci. Toulouse, [3], IV, 1848, 171, i, 4-8.
- [**ataica**] ——— Emmons, Manual of Geology, ed. 2, 1860, 215, f. 183, 1, 2.
- **aturica**, Joly & Leymerie. Mém. Ac. Sci. Toulouse, [3], IV, 1848, 171, etc., ii, 9 and 10.
- **beaumonti**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, (1), 1853, 133, viii, 1a-e, 2, 3.
- De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 180, xxxi (2), 37-47.
- **bellardii**, d'Archiac. In Bellardi, Mém. Soc. Géol. France, [2], IV, 1847, 273, iv [xv], 11-15.
- D'Archiac, *ibid.* [2], IV, 1851, 273, iv, 11-15.
- D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, (1), 1853, 113, v, 9a-f.
- **bericænsis**, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, 162, v, 23.
- **bjaritzensis**, d'Archiac. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, (1), 1853, 131, viii, 4a-f, 5a, 6a [v. *Nummulina*].

- NUMMULITES** *biaritzensis*, d'Archlac. Michelotti, Nat. Verh. Holland. Maat. Wet. Haarlem, [2], xv, 1861, 19, i, 10 and 11.
- Verbeek, Neues Jahrbuch, 1871, 9, iii, 1a-f.
- Verbeek, Jaarb. Mij. Ned. Oost.-Ind. 1874, ii, 155, ii, 28-33.
- De la Harpe, Bull. Soc. Borda à Dax, v, 1880 6, f. 1.
- [*biarizensis*] ——— Abich, Geol. Forsch. Kaukas. Lände 1882, 246, xi, 5; ix, 3, 3a [error]; and f. 43.
- De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 168, xxx (1), 19-28.
- Vutskits, Orvos termes. Tars. Ertesitö, 1883, [65], iv, 8a, b, c.
- Mallada, Bol. Com. Mapa geol. Españ. xi, 1884, n. d., xxix, 13-20.
- Jones in Newton, Quart. Journ. Geol. Soc. xlv, 1889, 332, xiv, 17.
- *biza*, Schafhäntl. Sud-Bayerns Lethæa Geogn. 1863, 13, 97, xiii, 10.
- *bolcensis*, Munier-Chalmas. Comptes Rendus, lxxxvi, 1878, 1313.
- *boucheri*, de la Harpe. Bull. Soc. Borda à Dax, iv, 1879, 146, i, iv, 1-10.
- De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 179, vii, 33-59. [This is divided into var. *tenuispira*, 51; var. *incrassata*, 52-59.]
- Vutskits, Orvos termes. Tars. Ertesitö, 1883, [60], iii, 3a, b, c.
- Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 205, ii, 7, 8 and 10; and 206, f. 12.
- *bouillei*, de la Harpe. Bull. Soc. Borda à Dax, iv, 1879, 142, i. 1¹⁻³.
- De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 165, vi, 1-11 [5 and 6 are given as var. *rutimeyeri*].
- Vutskits, Orvos termes. Tars. Ertesitö, 1883, [62], iii, 1a, b, c [described in descr. to plate as *N. tournoueri*, De la H.].
- *britannica*, Hantken & Madarasz. Jegyz. az 1873, vilagtarl. kiáll. Numm. 1873, 7.
- *broachensis*, Carter. Journ. Bombay Br. R. Asiat. Soc. v, No. xx, 1857, 625, no fig.
- Carter, Annals Mag. Nat. Hist. [3], viii, 1861, 373, xv, 3; Journ. Bombay Branch R. Asiatic Soc. vi, 1861 (1862), 63.
- *brongniarti*, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, (1), 1853, 110, v, 1a-e, 2, 3 and 4 [*lævigata*, var. of 1845].
- var. *puschi*, d'Arch. De la Harpe, Bull. Soc. Vaud. Sci. Nat. [2], xvi, 1879, 203, x, 1-3 [v. *N. puschi*].
- *budensis*, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 74, xii, 4; and Mitth. a d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 85, same pl. and fig.
- De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 163, v, 24-34.
- *caillaudi*, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, (1), 1853, 97, i, 8a, b, c.
- De la Harpe, Mém. Soc. paléont. Suisse, vii, 1881, 91, etc., ii, 16-19.
- *carpenteri*, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, (1), 1853, 97, i, 7a-d.
- *carteri*, d'Archiac & Haime. *Ibid.* (2), 1854, 344, no figure. The species is based on *Nummulina*? Carter, Journ. Bombay Br. R. Asiat. Soc. v, 1853, 132, ii, 9 and 10.
- Carter, Geol. Papers Western India, 1857, 541, xxiii, 9 and 10.
- *catillus*, Schafhäntl. Sud-Bayerns Lethæa Geogn. 1863, 94, x, 6a, b, c.
- *chartersi*, Meneghini. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 149, iv, 1 and 2 [*Nummulina*, 1851].
- *chavannesi*, de la Harpe. *Ibid.* x, 1883, not descr. vi, 22-41. [This is divided into var. *densispirata*, 29-36; var. *crassispirata*, 37-40; var. *dilatata*, 41].
- De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 163, xxx (1), 12-18.

- NUMMULITES cometa**, Schafhäutl. Sud-Bayerns Lethæa Geogn. 1863, 95, i, 6a; ii, 1a, b, c.
- **complanata**, Lamarck. Ann. Mus. v, 1804, 242, No. 4 [v. also *Nummulina*].
- ———— Parkinson, Organ. Rem. former World, III, 1811, 155, x, 21 and 27.
- ———— Crouch, Introd. Lamarck, 1827, 42, xxii, 9.
- ———— Kutorga, Trudui Mineral. Obshsch. (St. Petersburg), II, (1834) (8), xv, 1.
- [**complanatus**] ———— Brown, Conch. Text-book, 1839, 60, x, 19.
- ———— Mantell, Pictorial Atlas Foss. Rem. 1850, 142, lxi, 21-26.
- ———— D'Archiac et Haime, Descr. Anim. Foss. groupe nummulitique Inde, I, 1853, 87, i, 1a-e, 2, 3.
- ———— Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 133, ii, 1, 1a; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, 140, same pl. and fig.
- ———— Hantken, Kohlenflötze, etc., ungar. Krone, 1878 (transl. from Magyar), 226, f. 39.
- ———— Mallada, Bol. Com. Mapa Geol. Españ. XI, 1884 n. d., xxviii, 11-13.
- [**complanatus**] ———— Quenstedt, Handbuch Petref. ed. 3, (v), (1885), 1055, lxxxvi, 28, 35 and 36.
- ———— [Defr.]. Fritel, Foss. Caract. terr. sediment. tert. 1886, vii, 41 and 42.
- **comptoni**, J. de C. Sowerby, Brown, Illustr. Foss. Conch. Great Britain, 1849, 37, xxvi, 1 and 2 [v. *Nautilus*].
- **contortus**, Deshayes. In Ladoucette, Hist. des Hautes-Alpes, ed. 3, 1848, 487, xiii, 7-9.
- [**contorta**] ———— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 136, viii, 8a, b.
- ———— De la Harpe, Bull. Soc. Borda à Dax, v, 1880, 68, f. 2.
- ———— Vutskits, Orvos. termes. Tars. Ertesitő, 1883 [57], iii, 7a, b, c.
- ———— De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 172, xxxi (2), 1-4.
- **conulus**, Schafhäutl. Sud-Bayerns Lethæa Geogn. 1863, 96, xii, 11a, b, c; lxv, 16a, b, c.
- **cretacea**, Fraas. Württemberg. nat. Jahresh. 1867, 227, ii, 8a, b, c. See also Lartet, Geol. Palestine, (1), 1869, 177.
- **cunningii** (Carpenter). Brady, Report Challenger, 1884, 749, cxii, 11-13 [*Amphistegina*, 1859].
- **crustaloides**, S. G. Morton. See Jones, Catal. foss. Foram. Brit. Mus. 1882, 68, No. 10673.
- **curvispira**, Menegh. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 127, vi, 15a-d [*Nummulina*, 1851].
- ———— De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 200, xxxiv (5), 42-67.
- **defrancei**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 112, v, 5a-c, 6.
- **deserti**, de la Harpe. Palæontographica, xxx, 1883, Pal. Theil, 177, xxxi (2), 20-25.
- **deshayesi**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 114, v, 8a, b, c.
- ———— *Ibid.* I, 1853, 140, ix, 2a-f, 3 [*Nummulina*, 1850].
- **discorbina**, Schloth. De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 183, xxxii (3), 1-7 [*Lenticulites*, 1820].
- **discus**, Schafhäutl. Sud-Bayerns Lethæa Geogn. 1863, 97, xiii, 9a, b.
- **dispansa?**, Sow. Mantell, Pictorial Atlas Foss. Rem. 1850, 142, lxi, 20 [*Lycophris*, 1837].
- **distans**, Deshayes. Mém. Soc. Géol. France, [1], III, 1838, 68, v, 20-22.
- ———— Rousseau in Demidoff, Voyage Russie mérid. II, 1842, 786, Atlas, Mollusca, II, 5-5d.
- ———— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 91, ii, 1a-c, 2a, 3a, 4a, 5a, b.

- NUMMULITES distans** [Pusch]. Zittel, Handbuch Palæont. (1), 1876, 100, f. 40¹.
- Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 213, xii, 1.
- **dufrenoyi**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 89, i, 4a-~~l~~.
- **dufreynoyi**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 171, v, xi [Glauc.].
- **elegans**, Sow. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 175, vii, 12-33 [21-23 are given as var. *depressa*] [*Nummularia*, 1826].
- ——— Mallada, Bol. Com. Mapa geol. Españ. xi, 1884, n. d., xxx, 11, 12.
- ——— Hantken, Földt. Közl. xvi, 1886, 154 and 188, i, 4.
- ——— Jones, Quart. Journ. Geol. Soc. XLIII, 1887, 142, xi, 1-9.
- (**N. prestwichianus**) ——— Prestwich, Geology, 1888, ii, 370, f. 187 e, f.
- **ellipticus**, Schafhäütl. Sud-Bayerns Lethæa Geogn. 1863, 97, xiii, 3a-d, 7a-c [error for 4], deformed specimens xiii, 4a-c; viii, 1a-f.
- **excavatus**, Schafhäütl. Sud-Bayerns Lethæa Geogn. 1863, 105, no fig.
- **exponens**, Sowerby. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 148, x, 1a, b, 2a, 3a-d, 4-7, 7a, 8a, 9, 10a [*Nummularia*, 1834].
- ——— Schafhäütl. Sud-Bavarns Lethæa Geogn. 1863, 91, vii, 1-4; 8 and 9; xi, 2a-k.
- (**Assil.**) ——— Zittel, Handbuch Palæont. (1), 1876, 98, f. 38.
- (**Assil.**) ——— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 25, pl.; 21.
- ——— Abich, Geol. Forsch. Kaukas. Ländern, 1882, 248, ix, 6, 6a.
- ——— Mallada, Bol. Com. Mapa geol. Españ. xi, 1884, n. d., xxx, 24-30.
- (**Assil.**) ——— Fritel, Foss. caract. terr. sedim. tert. 1886, vii, 45 and 46.
- **fichteli**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 296, iii, 7 [*Nummulina*, ou p. 302; v. also *Nummulina*].
- ——— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 100, iii, 5a.
- ——— De la Harpe, Bull. Soc. Borda, iv, 1879, 150, i, vi, 1-10.
- ——— De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 211, xxxv (6), 23-28.
- **floridanus**, Conrad. Amer. Journ. Sci. [2], ii, 1846, 399, figure [referred by Conrad to *Assilina*] [*v. Cristellaria*].
- **floridensis**, Heilprin. Proc. Ac. Nat. Sci. Philad. 1884, (3), (1885), 321, figure.
- **fossilis**, Quenstedt. Handbuch Petref. ed. 1, 1852, 684, lxii, 5.
- **fraasi**, de la Harpe. Palæontographica, xxx, 1883, Pal. Theil, 161, xxx (1), 1-8.
- **fragilis**, Risso. Hist. Nat. Europe, iv, 1826, 23.
- **garansiana**, Joly & Leymerie. Mém. Ac. Sci. Toulouse, [3], iv, 1848, 171, etc., i, 9-12; ii, 8 [*v. also Nummulina*].
- ——— Carter, Annals & Mag. Nat. Hist. [2], xi, 1853, 172, vii, 19 and 20.
- ? ——— Carter, Journ. Bombay Br. R. Asiatic Soc. v, (18), (1853), ii, 19 and 20.
- [**garansensis**] ——— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 101, iii, 6a, 7a-g, and ii, 1854, 344.
- [**garansensis**] ——— Pictet, Traité de Paléont. 2 ed., iv, 1857, 501, cix, 20.
- [**garensensis**] ——— Carter, Geol. Papers Western India, 1857, 544, xxiii, 19 and 20.
- [**garanensis**] ——— Medlicott & Blanford, Geol. of India, 1879, 460, etc., xv, 10.
- [**garansensis**] ——— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 213, xii, 7.

- NUMMULITES gizehensis**, Ehrenberg. v. *Nautilus* [v. *Nummulina gyzensis*].
For full synonymy see de la Harpe, Mém. Soc. paléont. Suisse, vii, 1881, 117.
- **[gzyehensis]** — D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 94, ii, 6*a-f*, 7*a*, 8 [*gizehensis* on plate].
- — — — Zittel, Handbuch Palæont. (1), 1876, 99, f. 39*a, b, c*.
- — — — De la Harpe, Mém. Soc. paléont. Suisse, vii, 1881, 91, etc., i and ii, 1-4.
- [—] [d'Arch.]. Schlumberger, F. Jeun. nat., Feb. 1882, II, 11 (section).
- — — — **cailliaudi**, d'Arch. De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 197, xxxiv (5), 34-41 [v. *N. cailliaudi*].
- — — — **champollioni**, de la Harpe. *Ibid.* xxx, 1883, Pal. Theil, 193, xxxiii (4), 11-13.
- — — — **ehrenbergi**, de la Harpe. *Ibid.* xxx, 1883, Pal. Theil, 190, xxxii (3), 16-25; xxxiii (4), 1, 2.
- — — — **lyelli**, d'Arch. *Ibid.* xxx, 1883, Pal. Theil, 192, xxxiii (4), 3-10 [v. *N. lyelli*].
- — — — **mariettei**, de la Harpe. *Ibid.* xxx, 1883, Pal. Theil, 196, xxxiv (5), 25-33.
- — — — **pachoi**, de la Harpe. *Ibid.* xxx, 1883, Pal. Theil, 193, xxxiii (4), 14-18; xxxiv (5), 1-5.
- — — — **visquesneli**, d'Arch. *Ibid.* xxx, 1883, Pal. Theil, 195, xxxiv (5), 15-24 [see *N. visquesneli*].
- — — — **zitteli**, de la Harpe. *Ibid.* xxx, 1883, Pal. Theil, 194, xxxiv (5), 6-14.
- **[gyzchensis]** — Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1055, lxxxvi, 34.
- **[gzyehensis]** — *Ibid.* (5), (1885), 1055, f. 396.
- **globularia**, Lamarck. Ann. Mus. v, 1804, 241, No. 2; and Anim. sans Vert. vii, 1822, 629, No. 2.
- — — — ? — Pilla, Distinz. terr. Etrurio, 1846, 104, i, 10 and 11.
- **globulina**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 297, iii, 6 [*Nummulina* on p. 302, q. v.].
- **globulus**, Leymerie. Mém. Soc. Géol. France, [2], I, 1844, 359, xiii, 14*a-d* [v. also *Nummulina*].
- **granulosa**, d'Archiac. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 151, x, 11*a, b, c*, 12*a*, 13, 14*a, b*, 15*a, b*, 16-19*a-d* [fig. I by error on plate] [also pl. iv, f. 17] [*Nummulina*, 1847].
- — — — Pictet, Traité de Paléont. 2 ed., iv, 1857, 501, cix, 18.
- — — — Medlicott & Blanford, Geol. of India, 1879, 458, xv, 14.
- — — — Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 213, xii, 4.
- — — — Abich, Geol. Forsch. Kaukas. Ländern, 1882, 248, ix, 5 and 5*a*.
- **granulosa** — Mallada, Bol. Com. Mapa geol. Españ. xi. 1884, n. d., xxx, 31-35.
- **guettardi**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 130, vii, 18*a-c*, 19*a, b*; and II, 1854, 345.
- — — — Lartet, Ann. Sci. Géol. III, 1872, Art. 5, 89, ix, 25 and 26.
- — — — Lartet, Bibl. Ecole Haute Etudes, vii, 1873, No. 2, 89, ix, 25 and 26.
- — — — var. **plicata**, de la Harpe. Bull. Soc. Géol. France, [3], v, 1877, 825, xvii, 10*a, b*.
- — — — var. **striolata**, de la Harpe. *Ibid.* [3], v, 1877, 825, xvii, 9*a, b*.
- — — — var. **plicata**, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], xvi, 1879, 210, x, 10*a, b*.
- — — — var. **striolata**, de la Harpe. *Ibid.* [2], xvi, 1879, 210, x, 9*a, b*.
- — — — De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 171, xxx (1), 29-42.
- **guttula**, Schafhäutl. Sud-Bayerns Lethæa Geogn. 1863, 96, xiii, 8*a-d*; xiv, *a-c, e*.

- NUMMULITES heberti**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, 1, 1853, 147, ix, 14 *a-g*, 15*a*.
 ——— De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 178, xxxi (2), 26 and 27.
 ——— Vutskits, Orvos termes. Tars. Ertesitö, 1883, [56], iii, 5*a*, *b*, *c*.
 ——— **heeri**, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, 152, iv, 9-15.
 ——— **heilprini**, Hantken. Földt. Közl. xvi, 1886, 154 and 188, i, 2*a*, *b*, *c*.
 ——— **hungarica**, Hantken & Madarasz. Jegyz. az 1873 vilagtarl. kiall. numm. 1873, 8 and 9.
 ——— **inflatus**, Risso. Hist. Nat. Europe, iv, 1826, 24.
 ——— **intermedia**, d'Archiac. Mém. Soc. Géol. France, [2], ii, 1846, 199 [v. also *Nummulina*].
 ——— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, 1, 1853, 99, iii, 3*a-d*: 4*a-f*.
 ——— Michelotti, Nat. Verh. Holland Maat. Wet. Haarlem, 2, xv, 1861, 18, i, 5-7.
 ——— De la Harpe, Bull. Soc. Borda, iv, 1879, 149, i, v, 1-7.
 ——— De la Harpe, Palæontographica, xxx, 1883, Pal. Theil, 210, xxxv (6), 15-22.
 ——— Tellini, Boll. Soc. geol. Ital. vii, 1888, 53, viii, 15, 16.
 ——— v. **bormiensis**, Tellini. *Ibid.* vii, 1888, 55, viii, 14, 17.
 ——— **irregularis**, Deshayes. Mém. Soc. Géol. France, [1], iii, 1838, 67. v, 15 and 16. For full synonymy see de la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 154.
 ——— De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 154, iv, 16-34, and v, 1, 2. [This is divided into var. *formosa*, iv, 16; var. *pratti*, iv, 33, 34; v, 1 and 2; var. *regulata*, iv, 24; var. *depressa*, iv, 21-23].
 ——— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, 1, 1853, 138, viii, 16-19, 19*a*.
 ——— Schlumberger, Compt. Rend. Assoc. Franç. 1883 (1884), 520, f. 78 and 79.
 ——— **irregularis**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 296, iii, 5 [*Nummulina* on p. 302, q. v.].
 ——— **jurassica**, Gumbel. Neues Jahrbuch, 1872, 254, vi, 1-9.
 ——— **kolatensis**, Carter. Annals Mag. Nat. Hist. [3], viii, 1861, 376, xv, 6; Journ. Bombay, Branch R. Asiatic Soc. vi, 1861 (1862), 66.
 ——— **kochi**, Vutskits. Orvos termes. Tars. Ertesitö, 1883, [49], iii, 4*a*, *b*, *c*.
 ——— **kovacsensis**, Hantken & Madarasz. Jegyz. az 1873 vilagtarl. kiall. numm. 1873, 11.
 ——— **laceratus**, Quenstedt. Handbuch Petref. ed. 3, (5), (1885), 1055, lxxxvi, 38.
 ——— **laevigata**, Lamarck. Syst. Anim. s. Vert. 1801, 101, and Ann. Mus. v, 1804, 241, No. 1, and f. 10*a*, *b*, pl. 62, viii, 1806 [v. also *Nummulina* and *Camerina*].
 ——— Parkinson, Organ. Rem. former World, iii, 1811, 152, x, 13-16, 18 and 19.
 ——— Lamarck, Coq. Foss. Paris, 1823, 14, xiv, 10*a*, *b*.
 ——— Bronn, Syst. urweltl. Conchyl. 1824, 7, i, 10*a*, *b*.
 ——— Blainville, Manuel Malac. et Conch. 1825 (pls., 1827), 372, iv, 2.
 ——— Deshayes, Descr. Coq. Character. 1831, 251, iii, 11 and 12.
 ——— Cuvier, Animal Kingdom, Henderson's ed., iii, 1834 (pls., 1837), 17, viii, 9.
 ——— Pilla, Distinz. terr. Etruria, 1846, 105, i, 20 [17-20].
 ——— Joly & Leymerie, Mém. Ac. Sci. Toulouse, [3], iv, 1848, 182, etc., ii, 5 and 6.
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 ——— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, 1, 1853, 103, iv, 1*a-g*, 2*a*, 3, 4*a*, 5*a*, *b*, 6 and 7.
 ——— Pictet, Traité de Paléont. ed. 2, iv, 1857, 502, cix, 21.
 ——— [**laevigatus**] Zittel, Handbuch Palæont. (1), 1876, 99, f. 392*a*, *b*.

- NUMMULITES** *lævigata*, Lamarek. Hantken, Ertezek. Termesz. Köréböl, ix, No. 12, 1879, 2 pls.; and Literar. Ber. Ungarn, III, 1879, 714, i and ii [25 figs.].
- _____ Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 213, xii, 8-10.
- _____ De la Harpe, Mém. Soc. Paléont. Suisse, VII, 1881, 65, f. 10.
- _____ De la Harpe, Bull. Soc. Vaud. Sci. Nat. [2], XVII, 1881, 435.
- _____ De la Harpe, Bull. Soc. géol. France, [3], IX, 1881, 173, f. 1.
- _____ Abich, Geol. Forsch. Kaukas. Ländern, 1882, 244, ix, 3-4. f. 42.
- _____ [*lævigatus*] _____ Mallada, Boll. Com. Mapa geol. Españ. XI, 1884, n. d., xxviii, 1-4.
- _____ [*lævigatus*] _____ Quenstedt, Handbuch Petref. ed. 5, (5), (1885), 1054, lxxxvi, 27, 32, and 33, and f. 395.
- _____ v. *aquitanica*, Benoist. Bull. Soc. Borda à Dax, XIV, 1889, 20, i, 1, 2; ii, 6, 7.
- _____ [*lævigatus*] _____ Credner, Elem. Geologie, 1883, 674, f.
- _____ Fritel, Foss. Caract. terr. sedim. tert. 1886, VII, 47-49.
- _____ [*lævigatus*] _____ Prestwich, Geology, 1888, II, 367, f. 184a, b.
- _____ *lamarcki*, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, (1), 1853, 109, iv, 14a-d, 15, 16.
- _____ De la Harpe, Bull. Soc. géol. France, [3], IX, 1881, 173, f. 2.
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- _____ De la Harpe, Mém. Soc. Paléont. Suisse, VII, 1881, 65, f. 9.
- _____ v. *girondica*, Benoist. Bull. Soc. Borda à Dax, XIV, 1889, 22, ii, 1-5.
- _____ *lamarmoræ*, Meneghini. Paléont. Ile Sardaigne, 1857, 545H, 8a-c.
- _____ *latispira*, Menegh. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, (1), 1853, 93, i, 6a. [*Nummulina*, 1851.]
- _____ *lea*, Risso. Hist. Nat. Europe, IV, 1826, 23.
- _____ *lenticularis*, de Blainville. Malacol. 1825, IV, 2. [v. *Lycophris*.]
- _____ Defrance, Dict. Sci. Nat. (in index to Atlas); Atlas, Conch. 1827, XI, 2.
- _____ *lenticularis* (Fichtel & Moll), v. *Nautilus*, 1798.
- _____ Lamarek, Ency. Method. "Vers," III, (1832), 638, 471, f. 1 (pls., 1827), (P. & J. quote "pt. 23," 1816).
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- _____ Anon., Penny Cycloped. X, 1838, 348, f.
- _____ Sowerby, Conch. Manual, 1839, 72, f. 472 and 473, ed. 2, 1842, 205, figg. 472 and 473.
- _____ Hartwig, The Sea, ed. 3, 1866, 381, f. d.
- _____ Greene, Man. Protozoa, 1871, 15, f. 3d.
- _____ *leymeriei*, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, (1), 1853, 153, xi, 9a, b, c, 10a-e, 11, 12; and (2), 1854, 345.
- _____ Medlicott & Blanford, Geol. of India, 1879, 458, xv, 15.
- _____ Mallada, Boll. Com. Mapa geol. Españ. XI, 1884, n. d., xxx, 39-44.
- _____ *liassicus*, Jones. In Brodie, Ann. Mag. Nat. Hist. [2], XII, 1853, 275. [v. *Involutina*.]
- _____ *lilium*, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 99, lxx, b, 22a, b.
- _____ *lorioli*, de la Harpe. Mém. Soc. paléont. Suisse, X, 1883, n. d., iii, 15-17.
- _____ *lucasana*, Defrance. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde (1), 1853, 124, vii, 5a-c, 6, 7a, 8a, 9a, b, 10a, 11a, 12. [*Nummulina*, 1850.]
- _____ Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 134, ii, 4a, b, c; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, 141, same pl. and fig.

- NUMMULITES** (cfr.) [*lucasanus*], Defr. Zittel, Handbuch Palæont. Abth. I, 1876, 65, f. "3"; 97, f. 37 and 40 [structural].
- _____ Lartet, Explor. Géol. Mer Morte [1877], [157], xii, 32.
- _____ var. *granulata*, de la Harpe. Bull. Soc. géol. France, [3], v, 1877, 823, 7a-b.
- _____ var. *mentonensis*, de la Harpe. *Ibid.* [3], v, 1877, 823, xvii, 6a-c.
- _____ var. *obsoleta*, de la Harpe. *Ibid.* [3], v, 1877, 823, xvii, 8a, b.
- _____ Hantken, Kohlenflötze, etc. ungar. Kroue, 1878 (transl. from Magyar), 219, f. 34.
- _____ var. *granulata*, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], xvi, 1879, 205, x, 7a, b.
- _____ var. *mentonensis*, de la Harpe. *Ibid.* [2], xvi, 1879, 206, x, 6a-c.
- _____ var. *obsoleta*, de la Harpe. *Ibid.* [2], xvi, 1879, 205, x, 8a, b.
- _____ [*lucasanus*?] _____ Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 213, xii, 6.
- _____ [*lucasiana*] _____ Abich, Geol. Forsch. Kaukas. Ländern, 1882, 245, xi, 6, 6a.
- _____ *obsoleta*, de la Harpe. Palæontographica, xxx, 1883, Pal. Theil, 208, xxxv (6), 11-14.
- _____ Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxviii, 14-19.
- _____ Gümbel, Geol. Bayern, Th. 1, Lief. II, 1885, f. 266, 27.
- _____ **Iyelli**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 95, ii, 9a-c; 10a-b; iii, 1a, b, 2.
- _____ Pietet, Traité de Paléont. ed. 2, iv, 1857, 502, eix, 22.
- _____ Schafhäütl, Süd-Bayerns Lethæa Geogn. 1863, 104, xiii, 2a, b.
- _____ Lartet, Ann. Sci. Géol. III, 1872, Art. 5, 89, ix, 23 and 24.
- _____ Lartet, Bibl. Ecole Haute Etudes, VII, 1873, No. 2, 89, ix, 23 and 24.
- _____ Lartet, Explor. Géol. Mer Morte [1877], [157], xii, 33.
- _____ De la Harpe, Mém. Soc. paléont. Suisse, VII, 1881, 91, etc., ii, 5-11.
- _____ **madaraszii**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 75, xvi, 7a, b, c; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 86, same pl. and fig.
- _____ **makullænsis**, Carter. Annals Mag. Nat. Hist. [3], VIII, 1861, 375, xv, 4; Journ. Bombay Branch R. Asiatic Soc. VI, 1861 (1862), 66.
- _____ **mamma**, Kutorga. Trudye mineral Obshtsch. (St. Petersburg), II, (1834), (11), xv, 4.
- _____ **mammilla** (F. & M.). Lamarck, Ency. Method. "Vers." III, (1832), 638, (pls., 1827), 471, 2 (P. & J. quote "pt. 23," 1816). [*Nautilus*, 1798.] [Lam.]. Bronn, Syst. urweltl. Conchyl. 1824, 7, i, 16a, b.
- _____ **mammillata**, d'Archiac. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, (I), 1853, 154, xi, 6a, b, c, 7a, b, 8a-e. [*Nummulina*, 1847.]
- _____ Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 213, xii, 5.
- _____ Vutskits, Orvos termes. tars. Ertesitö, 1883, [69], iv, 10a, b, c, and 11a, b, c.
- _____ [**mammillatus**] _____ Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1055, lxxxvi, 37.
- _____ **mantelli**, Morton. Amer. Journ. Sci. XXIII, 1833, 291, v. 9. [*Hymenocyclus*; *Orbitoides*; and *Orbitalites*.]
- _____ Morton, Synopsis Org. Rem. Cretac. Group, 1834, 45, v, 9.
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- NUMMULITES marginata**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 297, iii, 4. [*Nummulina* on p. 302; q. v.]
- **maxima**, Catullo. Ann. Fisica (Zantedeschi's), 1849-50, p. 251.
- **meneghinii**, d'Archiac & Haime. Deser. Anim. groupe nummulitique Inde, I, 1853, 120, v, 7a, b, c.
- Bütschli, in Broun, Klassen, etc., Thier-Reichs, 1880, 213, xii, 2.
- **mille-caput**, Boubée. Bull. Soc. Géol. France, II, 1832, p. 444, no fig. [v. also *Nummulina*.]
- Mag. de Zool. (1), Classe v, Mollusques (14 Juillet, 1832), pl. 15, f. 1-4.
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- ? Carter, Geol. Papers Western India, 1857, 541, xxiii, 11 and 12.
- **miocontorta**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 19, viii, 4.
- v. **exilis**, Tell. *Ibid.* vii, 1888, 21, viii, 5.
- **miscella**, d'Archiac & Haime. Deser. Anim. Foss. groupe nummulitique Inde, II, 1854, 345, xxxv, 4a, b, c.
- **modiolus**, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 99, lxxv^b, 20a, b, c.
- **moli**, d'Archiac. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 102, iv, 13a, b, c. [*Nummulina*, 1850.]
- **moneta**, Risso. Hist. Nat. Europe, iv, 1826, 24.
- **montana**, Risso. Hist. Nat. Europe, iv, 1826, 24.
- **murchisoni**, Brunner. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 138, viii, 20-24. [*Nummulina*, 1850.]
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 170, v, ix, x. [Glauc.]
- Schafhäütl, Süd-Bayerns Lethaea Geogn. 1863, 104, xiii, 1a-c.
- De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 150, iv, 3-8. This is divided into v. *major*, iv, 3 and 4; v. *minor*, iv, 5-8.
- **nummiformis**, Cailliaud. Voyage à Méroé, 1827, iv, 267; atlas, pl. lxx, 3-5.
- **nummularia**, d'Orbigny, 1847. D'Orb., Prodr. de Paléont. II, 1850, 335, No. 676. [*Camerina*, Brugière, 1791, q. v.; v. also *Nummulina*.]
- D'Orbigny, Cours élém. Paléont. I, 1849, 197, fig. 323; II, fas. 2, 1852, 735, fig. 574.
- [*nummularius*] Credner, Elem. d. geol. 1883, p. 678, fig.
- **obesa**, Leym. (MSS.). D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 134, viii, 7a-e. [v. also *Nummulina*.]
- Abich, Geol. Forsch. Kaukas. Ländern, 1882, 249, xi, 5a.
- Mallada, Bol. Com. Mapa Geol. Españ. XI, 1884, n. d. xxix, 25-27.
- **obtusa**, Joly & Leymerie. Mém. Ac. Sci. Toulouse, [3], iv, 1848, 170, etc. i, 13, 14; ii, 3 and 4.
- **obtusa**, J. de C. Sowerby. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 122, vi, 13a, b, c. [*Nummularia*, 1837.]
- Carter, Geol. Papers Western India, 1857, 542, xxiii, 13 and 14.
- Medlicott & Blanford, Geol. of India, 1879, 458, xv, 13.
- **oculus**, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, not descr. ii, 14a-c.
- **onycomorphia**, Catullo. Ann. Fisica (Zantedeschi's), 1849-50, p. 250.
- **oosteri**, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], xvii, 1880, 38, iii, II, 1-6.
- **operculiniformis**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 40, viii, 10, 11.

- NUMMULITES orbicularis**, Kutorga. Trudye Mineral Obshtsch. (St. Petersburg), II, (1834), (9), xv, 3.
- **orbiculatus**, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 101, v, 11; vi, 3; vii, 5; xii, 4a-f; xiii, 1st fig. left, without number, and *f* and *g*.
- **orbigny** (Galeoti). De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 168, vi, 42-51. [*Operculina*, 1837.]
- **orsinii**, Meneghini (MS., apparently described for first time here). De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 161, v, 22.
- **papyracea**, Boubée. Bull. Soc. Géol. France, II, 1832, p. 445, no fig. [v. *Hymenocyclus* & *Orbitoides*.]
- **parabolicus**, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 91, vii, 6.
- **patellaris**, Brunner. Mitth. nat. Ges. Bern, 1848, p. 16, no fig.
- **partschii**, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], xvii, 1880, 37, iii, I, 1-17.
- **pengaronensis**, Verbeek. Neues Jahrbuch, 1871, 3, i, 1a-k.
- Verbeek, Jaarb. Mij. Ned. Oost-Ind. 1874, vol. 2, 145, ii, 1-9.
- **perforata** (Montfort). See *Egeon*, 1808.
- D'Orbigny, Ann. Sci. Nat. VII, 1826, 296, No. 7.
- [d'Orbigny]. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 115, vi, 1a-g, 2, 3, 4, 5a, 6a, 7a, 8a, 9a, b, 10a, b, c, 11a, 12 [with varr. and subvarr.]
- [d'Orb.] v. A, **aturensis**, d'Archiac & Haime. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 126, vi, 5-8 [with subvarr.]
- [d'Orb.] v. B, **columbrensis**, d'Archiac & Haime. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 120, vi, 9 and 10 [with subvarr.]
- [d'Orb.] v. C, d'Archiac & Haime. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 119, vi, 11 and 12.
- [d'Arch.]. Abich, Mém. Ac. Imp. Sci. [Math. Phys.] St. Pétersbourg, [6], VII, 1859, 528, iii, 12a, b.
- [d'Orb.]. Michelotti, Nat. Verh. Holland. Maat. Wet. Haarlem, 2, xv, 1861, 18, I, 3 and 4.
- [d'Orb.]. D'Archiac, in Tchihatcheff, Asie Mineure, Paléontologie, 1866, 206, ix, 4a, s.-var. ζ.
- [d'Orb.]. Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 134, ii, 3, 3a; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, p. 141, same pl. & fig.
- [d'Orb.] var. **umbonata**, de la Harpe. Bull. Soc. géol. France, [3], v, 1877, 822, xvii, 4a, b; and Bull. Soc. Vaud. Sci. Nat. [2], xvi, 1879, 205, x, 4a, b.
- [d'Orb.]. Hantken, Kohlenflütze, etc. ungar. Krone, 1878, (transl. from Magyar), 219, fig. 33.
- [d'Orb.]. De la Harpe, Mém. Soc. paléont. Suisse, VII, 1881, 34, fig. 2.
- [d'Orb.]. Abich, Geol. Forsch. Kaukas. Ländern, 1882, 247, ix, 7; xi, 9.
- [d'Orb.]. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, pl. iii, 1-6. This is divided into v. *uranensis*, iii, 1-3; v. *obesa*, iii, 4; v. *umbonata*, iii, 5; v. *subglobosa*, iii, 6.
- [d'Orb.]. Mallada, Boll. Com. Mapa Geol. Españ. XI, 1884, n. d. xxix, 1-12.
- [d'Orb.]. Fritel, Foss. Caract. terr. sedim. tert. 1886, pl. vii, 43 and 44.
- **perforata-obesa**, Leym. De la Harpe, Palaeontographica, xxx, 1883, Pal. Theil, 206, xxxv (6), 1-10.

- NUMMULITES peribranci.** Jones, Cat. Foss. Foram. Brit. Mus. 1882, 30, No. P 715.
- **placentula**, Deshayes. Mém. Soc. géol. France, [1], III, 1838, vi, 8 and 9. [v. also *Nummulina*.]
- **planulata**, Lamarec (& d'Orbigny). For full synonymy see De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, p. 171. [v. *Lenticulites*; *Nummulina*.]
- D'Orbigny, Cours élém. Paléont. etc. I, 1849, 196, fig. 322, II, fas. 2, 1852, 736, fig. 575. [The middle (vol. 1) and right hand (vol. 2) figures are probably a *Planorbulina*.]
- [d'Orb.]. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 142, ix, 5a, 6a, b, c, 7a-h, 8a-d, 9a, b, 10a, b, c.
- ? [d'Orb.]. Abich, Mém. Ac. Imp. Sci. [Math. Phys.] St. Pétersbourg, [6], VII, 1859, 527, iii, 11a, b.
- [**planulatus**], [d'Orb.]. Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl. 20.
- [d'Orb.]. Abich, Geol. Forsch. Kaukas. Ländern, 1882, 249, ix, 1, 1a.
- [Lam.]. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 171, vii, 1-11. [10 and 11 are given as v. *incrassata*.]
- Mallada, Boll. Com. Mapa Geol. Españ. XI, 1884, n. d. xxx, 8-10, 13, 14.
- [d'Orb.]. Fritel, Foss. Caract. terr. sediment. tert. 1886, pl. ii, 17-19.
- v. **elegans**. Fritel, Foss. Caract. terr. sediment. tert. 1886, pl. ii, 15 and 16.
- [**planulatus**] [Lam.]. Prestwich, Geology, 1888, ii, 357, fig. 181.
- **polygyratus**, Deshayes. Mém. Soc. géol. France, [1], III, 1838, v, 17-19. [v. also *Nummulina*.]
- [**polygiratus**] ——— Rousseau, in Demidoff, Voyage Russie mérid. II, 1842, 787; atlas, mollusca, ii, 1a-d [error for 4a-d].
- **portisi**, Tellini. Boll. Soc. geol. Ital. VII, 1888, 27, no fig.
- **pratti**, d'Archiac & Haime. Deser. Anim. groupe nummulitique Inde, I, 1853, 137, viii, 15.
- **prestwichiana**. See *N. elegans*.
- **pseudolævigata**, Berthelin in litt. Jones, Cat. Foss. Foram. B. M. 1882, 33.
- **pulchella**, Hantken, MS. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 160, v. 15-21.
- cfr. ——— Hantk. & Mad. Vutskits, Orvos termes. tars. Ertesitö, 1883 [66], iv, 9a, b, c.
- **puschi**, d'Archiac. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 90, i, 5a, b, c. [*Nummulina*, 1850.]
- Pietet, Traité de Paléont. 2 ed. IV, 1857, 501, eix, 19.
- De la Harpe, Bull. Soc. géol. France, [3], v, 1877, 821, xvii, 1-3b.
- **radiatus** (Fichtel & Moll). Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 212, viii, 11. [*Nautilus*, 1798.]
- **radiata** [Montf.]. Jones, in Microgr. Dict. ed. 4, 1883, 549, xxiv, 21a, b. [*Rotalites*, 1808.]
- **ramondi**, DeFrance. Diet. Sci. Nat. xxxv, 1825, p. 224. [v. also *Nummulina*.]
- D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 128, vii, 13a-d, 14a, 15a, 16a, 17a, b.
- Carter, Journ. Bombay Br. R. Asiat. Soc. v, No. xx, 1857, 624, no fig.
- Carter, Annals Mag. Nat. Hist. [3], VIII, 1861, 374, xv, 5, xvii, 15; Journ. Bombay Branch R. Asiatic Soc. VI, 1861 (1862), 65.
- Zittel, Handbuch Palaeont. Abth. I, 1876, 99, fig. 39⁸.

- NUMMULITES ramondi**, DeFrance. Medlicott & Blanford, Geol. of India, 1879, 458, xv, 12.
- _____ Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 213, xii, 3.
- _____ De la Harpe, Palaeontographica, xxx, 1883, Pal. Theil, 173, xxxi (2), 5-12.
- _____ Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxviii, 20-25.
- _____ **renevieri**, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, pl. iii, 8-14.
- _____ **reticulatus**, Schafhäütl. Süd-Bayerns Lethaea Geogn., 1863, 98, v, 6; vii, 7*a-e* and 10; ix, 1, 2, and 6; x, 1, 2; xiv, 2.
- _____ Haeckel, Das Protistenreich, 1878, 33, fig. 18*a-f*.
- _____ **reticulatus**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 60, viii, 13.
- _____ **rosai**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 22, viii, 1-3.
- _____ **rota**, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 92, x, 4*a-e*.
- _____ **rotula**, Grateloupe, MS. D'Orbigny, Prodrome de Paléont., II, 1850, 336, No. 681.
- _____ **rotularius**, Deshayes. Mém. Soc. géol. France, [1], III, 1838, vi, 10, 11. [v. also *Nummulina*.]
- _____ **rouaulti**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 121, vi, 14*a-d*.
- _____ Figuié, Ocean World, London, [1873], p. 81, f. 12.
- _____ **rovasendai**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 25, viii, 6.
- _____ **rutimeyeri**, d'Archiac. In Tchihatcheff, Asie Mineure, Palaeontologie, 1866, 212, ix, 5*a, b, c*.
- _____ **rutimeyeri**, de la Harpe. Palaeontographica, xxx, 1883, 162, xxx (1), 9-11.
- _____ **saccoi**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 49, viii, 12.
- _____ **scabra**, Lamarek. Ann. Mus. v, 1804, p. 2. 41, No. 3; Hist. Anim. s. Vert. vii, 1822, p. 629, and ed. 2, xi, 1845, p. 306.
- _____ Kutorga, Trudye mineral Obshtsch. (St. Petersburg), II, (1834), [10], xv, 5.
- _____ D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 107, iv, 9*a-d*, 10*a*, 11*a*, 12*a*.
- _____ Carter, Geol. Papers Western India, 1857, 543, xxiii, 21 and 22.
- _____ [**scaber**] _____ Schafhäütl, Süd-Bayerns Lethaea Geogn. 1863, n. d. xii, 2.
- _____ Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxviii, 5-10.
- _____ Quenstedt, Handbuch Petref. Abth. v, 1885, 1054, fig. 394.
- _____ **semicostata** (Kaufm.). Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 267, fig. 13; ii, 9, 11-13. [*Amphistegina*, 1867.]
- _____ **sigillum**, Kutorga. Trudye mineral Obshtsch. (St. Petersburg), II, (1834), [11], xv, 2.
- _____ **sinuosus**, Risso. Hist. Nat. Europe, iv, 1826, 24.
- _____ **sismondai**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 124, vii, 4*a-d*.
- _____ var. **subglobosa**. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, pl. iii, 7.
- _____ **solitaria**, de la Harpe. Palaeontographica, xxx, 1883, 176; xxxi (2), 18 and 19.
- _____ **spira**, de Roissy. Hist. Nat. de Mollusques (Sonnini's Buffon), v, 1805, p. 57. [v. also *Nummulina*.]
- _____ D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 155, xi, 1*a, b, c, 2a, 3a, 4a, b, 5*.
- _____ Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxx, 36-38.

- NUMMULITES** *staista*, d'Orb. Hantken, Földt. Közlöny, 1880, p. 44 to be (foot-note); said taken from "Bull. Soc. Borda, 1879, p. 79."*
- *striata*, [d'Orb., 1847]. D'Orbigny, Prodrôme de Paléont. II, 1850, 406, No. 1303. [*Camerina*, Brugière, 1791, q. v.]
- D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 135, viii, 9*a-e*, 10*a*, 11*a*, 12*a*, *b*, 13*a*, *b*, 14*a*.
- Michelotti, Nat. Verh. Holland. maat. Wet. Haarlem, 2, xv, 1861, 19, i, 8 and 9.
- var. *f.* Verbeek, Neues Jahrbuch, 1871, 9, iii, 2*a-g*.
- Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 135, ii, 5*a*, *b*, *c*, *d*, *e*; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, p. 142, same pl. and fig.
- Verbeek, Jaarh. Mij. Ned. Oost-Ind. 1874, vol. 2, 157, ii, 34-40.
- Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 74, xii, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), p. 85, same pl. and fig.
- var. *obesa*, De la Harpe. Bull. Soc. géol. France, [3], v, 1877, 825, xvii, 5*a*, *b*; and Bull. Soc. Vaud. Sci. Nat. [2], XVI, 1879, 209, x, 5*a*, *b*.
- Hantken, Kohlenflütze, etc. ungar. Krone, 1878, (transl. from Magyar), 221, fig. 35.
- Mallada, Bol. Com. Mapa Geol. Españ. XI, 1884, n. d. xxx, 1-7.
- Ehrenb., Abh. k. preuss. Ak. Wiss. Berlin, 1855, 170, [Glauc.] v, i-viii. [Stand except vii, which is *N. planulata*, Lam.]
- *sub-beaumonti*, de la Harpe. Palaeontographica, xxx, 1888, Pal. Theil, 182, xxxi (2), 48-56.
- *sub-brongniarti*, Verbeek. Neues Jahrbuch, 1871, 6, i, 2*a*, *b*; ii, 1*a-r*.
- Verbeek, Jaarh. Mij. Ned. Oost-Ind. 1874, vol. 2, 152, ii, 10-27.
- v. Fritsch, Palaeontographica, Supp. III, Lief. 1, 1878, 141, xviii, 18. [Structure.]
- *subdiscorbina*, de la Harpe. Palaeontographica, xxx, 1883, Pal. Theil, 185, xxxii (3), 8-15.
- *subellipticus*, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 93, v, 5*a*; xi, 1; xii, 3; xiii, 5, 6, and 7; xiv, 3.
- *subirregularis*, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, 158, v, 3-14. [Fig. 14 is given as var. *subvariabilis*.]
- *sublaevigata*, d'Archiac & Haime. Deser. Anim. groupe nummulitique Inde, I, 1853, 106, iv, 8*a*, *b*.
- Medlicott & Blandford, Geol. of India, 1879, 460, xv, 11.
- *subplanulata*, Hantken & Madarasz. Jegyz. az 1873 vilagtarl. kiáll. numm. 1873, p. 13.
- *subpulchella*, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, pl. vii, 60-66.
- *subramondi*, de la Harpe. Palaeontographica, xxx, 1883, Pal. Theil, 175, xxxi (2), 13-17.
- *supracretaceus*, Eichwald. Bemerk. Halbinsel Mangischlak und aleutisch. Inseln, 1871, 84, v, 11-14.
- *suprajurensis*, Alth. Pamietnik akad. Umiej. Krakowie, VI, 1881, 132, xii, 26.
- Alth, Mojsisovics und Neumayr's Beiträge Pal. Oest.-Ungarn. I, 1882, 314, xxix, 26.
- *tchinatcheffi*, d'Archiac. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 98, i, 9*a-e*. [v. *Nummulina*.]

* Hantken's quotation is incorrect. I have not been able to trace d'Orbigny's original reference.

- NUMMULITES tchihatcheffi**, d'Archiac. Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 204, fig. 11.
- _____ Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 133, ii, 2a, b, c, d; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, p. 140, same pl. and fig.
- _____ Hantken, Kohlenflözte, etc. ungar. Krone, 1878 (transl. from Magyar), 226, fig. 41.
- _____ Vutskits, Orvos termes. tars. Ertesitö, 1883 [42], iv, 12a, b, c.
- _____ **teruncius**, Schafhäutl. Süd-Bayerns Lethaea Geogn. 1863, 93, v, 3a; x, 3; xiv, 2 links.
- _____ **tournoueri**, de la Harpe. Bull. Soc. Borda à Dax, iv, 1879, 143, i, ii, 1-7.
- _____ De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 166, vi, 12-21. [18 and 19 are given as *v. laxispira*.]
- _____ Vutskits, Orvos termes. tars. Ertesitö. 1883 [62], iii, 1a, b, c. [Described as *N. bouillei*, De la Harpe, in text.]
- _____ Hantken, Földt. Közl. xvi, 1886, 154 and 188, i, 3.
- _____? _____ Tellini, Boll. Soc. geol. Ital. vii, 1888, 42, viii, 8 and 9.
- _____ **variabilis**, Tellini. Boll. Soc. geol. Ital. vii, 1888, 38, viii, 7.
- _____ **variolaria** [Lamarck], [d'Orb.], 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 427, no. 1673. [*Lenticulites*, 1804.]
- _____ [Sowerby*]. Brown, Illustr. Fossil. Conch. Great Britain, 1849, 37, xxvi, 3-5. [& ? 10 and 11.] [*Nummulina*, 1820.]
- _____ [Sow.]. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 146, ix, 13a-g.
- _____ [Sow.], var. **prima**, Fraas. Württemberg nat. Jahresh. 1867, p. 226, no fig.
- _____ [Sow.], var. **minor**, de la Harpe. Bull. Soc. géol. France, [3], v, 1877, 825, xvii, 11a-d.
- _____ [Sow.], var. **minima**, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], xvi, 1879, 210, x, 11a-d.
- _____ De la Harpe, Palaeontographica, xxx, 1883, Pal. Theil, 179, xxxi, (2), 28 and 29.
- _____ [Sow.]. Vutskits, Orvos termes. tars. Ertesitö, 1883, [56], iii, 6a, b, c.
- _____ [Sow.]. Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxx, 19-23.
- _____ [Sow.]. Fritel, Foss. caract. terr. sedim. tert. 1886, pl. vii, 50-52.
- _____ Jones, Quart. Journ. Geol. Soc. XLIII, 1887, 145, xi, 10-14.
- _____ Prestwich, Geology, 1888, ii, 370, fig. 187g, h.
- _____ **vasca**, Joly & Leymerie. Mém. Ac. Sci. Toulouse, [3], iv, 1848, 171, etc. i, 15-18; ii, 7.
- _____ D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 145, ix, 11a-d, 12.
- _____ De la Harpe, Bull. Soc. Borda à Dax, iv, 1879, 145, i, iii, 1-3.
- _____ De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 177, vii, 24-32 [*v. incrassata*, 27 and 28; *v. tenuispina*, 29-32].
- _____ **verneuili**, D'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 123, vii, 1a-d, 2, 3.
- _____ Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxix, 21-24.
- _____ **vicaryi**, D'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 139, ix, 1a, b, c.
- _____ **vicensaensis**, Hantkin & Madarasz. Jegyz. az 1873 vilagtarl. Kiall. Numm. 1873, p. 5.

* Lamarck's species, *Lenticulites variolaria*, is given as the synonym.

- NUMMULITES viquesneli**, D'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 141, ix, 4a, b, c.
- **wemmelensis**, de la Harpe & Vanden Broeck. De la Harpe, Mém. Soc. paléont. Suisse, x, 1883, 169, vi, 52-70 [v. *plicata*, 58-60, v. *granulata*, 61-64, v. *prestwichi*, 65-70].
- ———— Mallada, Bol. Com. Mapa Geol. Españ. xi, 1884, n. d. xxx, 19-23.
- **wilcoxi**, Heilprin. Proc. Ac. Nat. Sci. Philad. 1882, pt. 2, 1882, 191, figures 1 and 2. [v. also *Nummulina*.]
- [**wilcoxi**] ———— Heilprin, Proc. Ac. Nat. Sci. Philad. 1884, pt. 3 (1885), 322, figure.
- ———— Hantken, Földt. Közl. xvi, 1886, 153, i, 1.
- **zitteli**, de la Harpe. Mém. Soc. paléont. Suisse, vii, 1881, 91, etc., ii, 12-15.
- sp. nova, de la Harpe. Vutskits, Orvos termes. tars. Ertesitö, 1883, [64], iii, 2.
- Targioni, Relaz. d' ale. viaggi, iv, 1770, xii and xvi, see *Nautilo & Corno*, i, figs. 2, 9, 10, 11, 12, 13, 14, 15, 23, 24.
- De Montfort, in Buffon, Hist. Nat. Mollusq., Sonnini's ed. v, 1805, 49, li, 9.
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- Bowdich, Elem. Conch. Part 1, 1822, 15, i, 3 and 4.
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- Ure, New System Geology, 1829, pl. iii, fig.
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- Lyell, Elem. Geol. 1838, 341, fig. 180.
- Moxon, Illustr. Charact. Foss. 1841, pt. 1, pl. vii, 1 and 2. [*N. laevigata*.]
- Ansted, Geology, 1844, ii, 63, fig. a.
- Prevost, Bull. Soc. géol. France, [2], ii, 1845, 27, i, "no. 2."
- Pilla, Trattato di geol. pt. 1, 1847, 460, fig. 78.
- Joly & Leymerie, Mém. Ac. Sci. Toulouse, [3], iv, 1848, 169, ii, 1 and 2. [Structural.]
- Mantell, Wonders Geol. 1848, 6th ed. 248, figure 41.
- Cornalia & Chiozza, Giorn. I. R. Ist. Lombardo, n. s., iii, 1851, 38, iii, 4, 5, and 6.
- Brocklesby, Views microscop. world, 1851, 59, fig. 96.
- Costa, Atti Accad. Pontaniana, vii, fas. I (1853), ix, 8.
- Beudant, Géologie, ed. 8, 1858, 239, fig. 321, later eds. same fig.
- Hitchcock, Elem. Geology, 1860, 30th ed. 140, fig. 92.
- Schaffhäutl, Süd-Bayerns Lethaea Geogn. 1863, 57, 75, etc., v, vi, viii. [Development & structure.]
- Semper, Zeitsch. f. wiss. Zool. xiii, 1863, 562, xxxviii, 1a-d. [Embryology.]
- Carpenter, Ency. Brit. 9th ed. ix, 1879, Foraminifera, 381, figs. 23-27. [Structure.]
- De la Harpe, Mém. Soc. paléont. Suisse, vii, 1880, 30, fig. 1. [Structural.]
- Hahn, Die Meteorite, 1880, 56, xxxii, 3.
- Abich, Geol. Forsch. Kaukas. Ländern, iii, 1887, pts. i and ii. [Permo-carboniferous.]
- Malagoli, Atti Soc. Nat. Modena, 3, vii, 1888, 114; iv, 3 and 4; v, 1.
- Neumayr, Stämme d. Thierreiches, I, 1889 (8), 194, fig. 33.
- ? See *Ammonites*, etc., *Lapis calcareus*, etc.
- Knorr, see *Helicites*.
- see *Helicites*.
- see *Lenticule diversi generis*, etc.
- see *Rotalites*.
- NUMMULO Brattenburgensi**, Stöbaeus. Act. Litt. Suec. for 1731, p. 19; and Dis. epist. ad W. Grothaus, 1732. [= *Nummulites*.]
- Bromell, Act. Litt. Suec. II (1729), p. 50. [= *Nummulites*.]

- NUMULITES denarius**, Montfort. *Conch. syst.* i, 1808, 155, 39th genre.
[= *Nummulina laevigata*.]
- NUMULLINA**, Amer. M. Micro. Journ. 1883, misprint for *Nummulina*.
- NUMULUS luteus vulgaris exiguus est Lapis orbiculubatus**, ad Col-
lem Cockerley-Hill dictum in Comitatu Glocestræ, vulgatissimus. Luid.,
Lithoph. Brit. Ichuogr. 1699 (ed. 2, 1760), p. 90, no fig.
- Nuovo genere?** Costa, *Atti Accad. Pontaniana*, vii, fas. 2, 1856, not descr.
xvii, 19, = *Crist. rotulata*; xxii, 9 = *Polymorph.*; xxii, 12, = ? a *Foram.*;
xxiii, 3, = ? *Lingulina*; xxiii, 18, = *Textularia*.
- OBLIQUINA**, Seguenza.
—— **acuticostata**, Seguenza. *Foram. monotal. mioocen. Messina*, 1862, 75,
ii, 65-67. [v. *Lagena oviformis*, Sherborn & Chapman; Referred to
Chilostomella, 1889.]
- OCULINA**, Kübler & Zwiugli. *Neujahrsblatt Burgersbibl. Winterthur*, 1866,
p. 11.
—— **carinata**, Kübler & Zwiugli. *Neujahrsblatt Burgersbibl. Winterthur*,
1866, 14, ii, 19.
—— **cretacea**, Kübler & Zwiugli. *Neujahrsblatt Burgersbibl. Winterthur*,
1866, 19, iii, 20. [= *Miliolina*.]
—— **liasica**, Kübler & Zwiugli. *Neujahrsblatt Burgersbibl. Winterthur*,
1866, 11, i, 24. [= a *Miliolina*.]
—— **nucleus**, Kübler & Zwiugli. *Neujahrsblatt Burgersbibl. Winterthur*,
1866, 14, ii, 20.
—— **porosa**, Kübler & Zwiugli. *Neujahrsblatt Burgersbibl. Winterthur*,
1866, 12, ii, 6. [= *Miliolina*.]
- “**Œufs d’autres mollusques.**” Cornuel, *Mem. Soc. géol. France*, [2], iii,
1848, 259; ii, 36 and 37. [= *Placopsilina* and *Webbina*, q. v.]
- “**Œufs de mollusques.**” Cornuel. [v. *Placopsilina cornueliana*, d’Orb.]
- OLIGOSTEGINA lævigata**, Kaufmann. In Heer, *Urwelt Schweiz*, 1865, 197,
fig. 108; transl. London, 1876, 206, fig. 108. [“Early chambers of
Planorbulina or *Textularia*,” T. R. Jones.]
- OMPHALOCYCLUS**, Bronn, 1851-52. *Bronn, Lethæa Geognostica*, ed. 3,
ii, 1851-52, p. 95.
—— **macroporus** (Lam.). *Bronn, Lethæa Geognostica*, ed. 3, ii, 1851-52,
95, xxix, 9a, b, c. [*Orbulites*, 1816.]
- OMPHALOPHACUS hemprichii**, Ehrenberg. *Abhandl. k. Ak. Wiss. Ber-
lin*, 1838, 132.
—— ? **tenellus**, Ehrenberg. *Mikrogeologie*, 1854, xxxii, ii, 34. [= *Pulvin.
menardii*, d’O.]
- ONCOBOTRYS**, Ehrenberg, 1855. *Abhandl. k. Ak. Wiss. Berlin*, 1855, 161.
[*Glauc.*]
—— **buccinum**, Ehrenberg. *Abhandl. k. Ak. Wiss. Berlin*, 1855, 161, ii, vi.
[= ? *Polymorphina* vel *Bulimina*.] [*Glauc.*]
- OOLINA**, d’Orbigny, 1839. *Voyage Amér. Mérid.* 1839, v, pt. 5, “Foraminifères,”
p. 18.
—— **acicularis**, Terquem. *Mém. Ac. Imp. Metz*, xxxix, 1858, 586, i, 3a-c.
[v. also *Lagena*.]
—— **apiculata**, Reuss. *Haidingers Naturw. Abh.* iv, Abth. i, 1851, 22, i, 1.
[v. also *Lagena* and *Fissurina*.]
—— **caudata**, d’Orbigny. *Voyage Amér. Mérid.* 1839, v, pt. 5, “Forami-
nifères,” 19, v. 6. [v. also *Lagena*.]
—— **clavata**, d’Orbigny. *Foram. Fossiles Vienne*, 1846, 24, i, 2 and 3. [v.
also *Lagena*.]
—— ———— *Bronn, Lethæa Geognostica*, ed. 3, iii, 1853-56, 242,
xxxv ? 2, 5a, b.
—— ———— *Pictet, Traité Paléont.* 2d ed. iv, 1857, 483, cix, 2.
—— **compressa**, d’Orbigny. *Voyage Amér. Mérid.* 1839, v, pt. 5, “Forami-
nifères,” 18, v, 1 and 2. [= *Lagena marginata*, W. & B.]
—— ———— *D’Orbigny, Foram. Fossiles Vienne*, 1846, 23, xxi, 1 and 2.

- OOLINA costata**, Egger. Neues Jahrbuch, 1857, 269, v, 9-11.
- **ellipsoides**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 119, xi, 15 and 25a A. [*Ellypsoides* in descript. to plate.]
- **fasciata**, Egger. Neues Jahrbuch, 1857, 270, v, 12-15. [v. *Lagena*.]
- **fusiformis**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 377, vii, 1a, b.
- **haidingeri**, Czjzek. Haidinger's Nat. Abh. II, 1848, 138, xii, 1 and 2. [v. also *Lagena*.]
- **inornata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 21, v, 13. [v. *Lagena*.]
- **isabella**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 20, v, 7 and 8. [*O. isabelleana* on plate.] [v. *Lagena*.]
- **lævigata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 19, v, 3.
- **lagenalis**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 429, v, 1a, b.
- **lanceolata**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 586, i, 1a, b.
- **liasica**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 7, i, 15.
- **melo**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 20, v, 9. [v. also *Lagena*.]
- **ovata**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 586, i, 2a-c. [v. also *Lagena*.]
- ——— Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 430, v, 3a, b, c.
- **pentagona**, Terq. & Piette. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 452, vi, 12a, b.
- **punctata**, Egger. Neues Jahrbuch, 1857, 268, v, 1 and 2.
- **raricosta**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 20, v, 10 and 11.
- **salentina**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 118, xi, 13 and 14.
- **sicula**, Ehrenberg. Mikrogeologie, 1854, xxvi, 1. [= *Lag. sulcata*.]
- **simplex**, Reuss. Haidinger's Naturw. Abh. IV, Abth. I, 1851, 22, i, 2. [v. also *Lagena*.]
- **simplex**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 430, v, 2a, b. [v. also *Lagena*.]
- **striata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 21, v, 12. [v. also *Lagena* and *Lagenulina*.]
- **striaticollis**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 21, v, 14. [v. also *Lagena*.]
- **striatula**, Egger. Neues Jahrbuch, 1857, 269, v, 3-8.
- **vilardeboana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 19, v, 4 and 5. [v. also *Lagena*.]
- **virgula**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 431, figures a, b.
- Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, xxvii, 2-5.
- OPERCULINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, p. 281. Brady, Report Challenger, 1884, p. 742.
- **ammonitiformis**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 209, xvii, 16a, A, B. [= *Cornuspira foliacea*.]
- **ammonea**, Leymerie. Mém. Soc. géol. France, [2], I, 1844, 359, xiii, 11a, b.
- ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 209, xxxv², 8a, b.
- ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 70, xii, 1 and 2; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), p. 80, same pl. and fig.
- ——— Fritel, Foss. caract. terr. sedim. tert. 1886, pl. vii, 53-55.
- **ammonoides** (Gronovius). Vine, Science Gossip, XIV, 1878, 52, fig. 31. [*Nautilus*, 1781.]
- ——— Brady, Report Challenger, 1884, 745, cxii, 1 and 2.
- ——— See *Numm. perforata* (Montf.).

- OPERCULINA angigyra**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 370, xlvii, 19.
- Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1052, lxxxvi, 21.
- **arabica**, Carter. Annals and Mag. Nat. Hist. [2], x, 1852, 161, iv, 1-9. [v. also *Orbitolites*.]
- Carter, Journ. Bombay Br. R. Asiat. Soc. iv, 1853, 430, plate.
- Jones, in Microgr. Dict. ed. 4, 1883, 555, xxiv, 23-26.
- See *Orbitolites*.
- **biconcava**, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, 105, xiv, 4a, b, and d.
- **boissyi**, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 417, ix, 26.
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- **carinata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 209, xvii, 1, A, B [error for 15]. [v. *Cornuspira*.]
- **complanata** (Defrance). Quoted as Basterot's by d'Orbigny in error. [*Lenticulites*, 1822.]
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- [d'Orb.]. Reuss, in Geinitz, Grundr. Verstein. 1845-46, 665, xxiv, 41.
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- [d'Orb.]. Michelotti, Nat. Verh. Holland. Maat. Wet. Haarlem, 2, xv, 1861, 20, i, 14 and 15.
- P. J. & B. [d'O., Modèles, 80], Ann. Mag. Nat. Hist. [3], xvi, 1865, 32, iii, 93.
- [Bast.]. Zittel, Handbuch Palaeont. Abth. I, 1876, 96, fig. 36.
- [Bast.]. Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 25, pl. 22.
- [d'Orb.]. Locard, Ann. Soc. Agric. Hist. Nat. Lyon, 4, ix, 1877, 231, vi [error for v], 6 and 7.
- Brady, Report Challenger, 1884, 743, exii, 3, 4, 5, and 8.
- v. **granulosa**, Leymerie. Brady, Report Challenger, 1884, 743, exii, 6, 7, 9, and 10. [v. *Operc. granulosa*.]
- [Bast.]. Basset, Ann. Soc. Sci. Charente-Inf., 1884 (1885), 162, fig.
- Woodward & Thomas, 13 Ann. Rep. Geol. N. H. Survey Minnesota for 1884 (1885), 175, iv, 35.
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- **costata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, p. 281, No. 2.
- **crenato-costata**, Schauroth. Sitz. k. Ak. Wiss. Wien, xvii, 1855, 545, iii, 8.
- **cretacea**, Reuss. Verstein. Böhm. Kreide, 1845-46, i, 35, xiii, 64 and 65.
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- **gigantea**, Mayer. Beitr. geol. Karte Schweiz, xiv, Abth. 2, 1877, 23, i, 4 and 5.
- **granosa**, Hantken. A magy. kir. földt. int. évkönyve, i, 1871, 131, ii, 6a, b, c; & Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, i, 1871, p. 137, same pl. and fig. [v. *O. granulata*, Leym.]
- **granulata**, Leymerie. Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 663, ii, iii, b. [? error for *granulosa*.]
- ——— Hantken, A magy. kir. földt. int. évkönyve, i, 1871, 131, ii, 6a, b, c; & Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, i, 1871, p. 137, same pl. and fig. [*O. granosa*, Hantk., in descr. of plate; ? error for *granulosa*.]
- ——— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1052, lxxvi, 22.
- **granulosa**, Michelotti. Mém. Soc. Ital. Sci. xxii, 1841, 286, ii, 2.
- ——— Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, II verzam., 3 dl., 2 stk., 1847, 17, i, 6.
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- ——— Brady, Jaarb. Mij. Ned. Oost-Indie, vii, 2, 1878, 158, i, 1a, b, c.
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- **heberti**, Mumiér-Chalmas. Hébert, Bull. Soc. géol. France, [3], x, 1882, 619, fig. 30, 1, 2.
- **hungarica**, Hantken. Kohlenflötze, etc. ungar. Krone, 1878 (transl. from Magyar), 218, fig. 31.
- **inæquilateralis**, Carter. Ann. Mag. Nat. Hist. [2], xi, 1853, 167, vii, 1 and 2 (3 and 4?).
- ——— Carter, Journ. Bombay Br. R. Asiat. Soc. v, pt. xviii (1853), 130, ii, 1 and 2.
- ——— Carter, Geol. Papers Western India, 1857, 539, xxiii, 1 and 2.
- **incerta**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 49, vi, 16 and 17; also in Spanish, 1840, p. 71, same pl. and fig. [v. *Trochammina*.]
- **involvens**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 370, xlvi, 30. [v. *Cornuspira*.]
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- **libyca**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 142, xxix (6), 2a-g. (Type is *O. ammonica*, Leym.)
- **madagascariensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, p. 281, No. 4.
- **marginata**, Kaufmann. Beitr. geol. Karte Schweiz, v, 1867, 152, ix, 4.
- **murchisoni**, Brunner, MS. Jones, Cat. Foss. Foram. Brit. Mus. 1882, 31.
- **orbignii**, Galeotti. Mém. Couronnés Acad. R. Bruxelles, xii, 1837, Mém. iii, 141, iii, 13.
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- **perforata**, Costa. Atti Accad. Pontaniana, vii, 2, 1856, 210, xvii, 4, A, B. [Error for 14.]
- **plicata**, Czjzek. Haidinger's Nat. Abh. ii, 1848, 146, xiii, 12 and 13. [= *Cornuspira foliacea*.]
- [————] Pietet, Traité de Paléont. 2 ed. iv, 1857, 504, cix, 23.
- **punctata**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 370, xlvi, 21.
- **pyramidum**, Ehrenberg. Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 143, xxix (6), 4a-g. [*Planulina pyramidum*, Ehrenberg, Abk. k. Wiss. Berlin, 1803, p. 115.] [? pl. iv, 7.]
- **rosacea**, Kaufmann. Beitr. geol. Karte Schweiz, v, 1867, 153, ix, 5.
- **rotella** (Conrad). Heilprin, Journ. Ac. Nat. Sci. Philad. [2], ix, 137, no fig. ["The species is not impossibly identical with *O. complanata*," A. H.] [v. *Cristellaria*.]
- **semistriata**, Schauthoth. Sitz. k. Ak. Wiss. Wien, xvii, 1855, 545, iii, 9.
- **simplex**, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 46, ii (x), 23a, b.
- **striata**, Czjzek. Haidinger's Nat. Abh. ii, 1848, 146, xiii, 10 and 11. [= *Cornuspira foliacea*.]
- **studerii**, Kaufmann. Beitr. geol. Karte Schweiz, v, 1867, 151, ix, 1 and 2.
- **sublævis**, Gumbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 665, ii, 113a, b, c.
- **sulcata**, Kaufmann. Beitr. geol. Karte Schweiz, v, 1867, 152, ix, 3.
- **tattaensis**, d'Archiac & Haime. Deser. Anim. Foss. groupe nummulitique Inde, ii, 1854, 347, no figure, based on *Operculina* ———?, Carter, Journ. Bombay Br. R. Asiat. Soc. v, 1853, 131, ii, 3 and 4.
- [————] Carter, Geol. Papers Western India, 1857, 539, xxiii, 3 and 4.
- **taurinensis**, Michelotti. Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, ii verzam. 3 dl. 2 stk. 1847, 17, i, 4. [*taurina* in plate.]
- **thouini**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 281, No. 3.
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- Lyell, Elem. Geol. 1838, 55, fig. 21. [= *Crist. cultrata*.]
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- Carpenter, Parker & Jones, Introd. Foram. 1862, 57, fig. ix ; 58, fig. x ; 247, pl. xvii ; figs. xxxix-xliv in text. [Structure.]

- OPERCULINA** sp. (after Carpenter). Reuss' Models, No. 100, 1865. (Catal. No. 98, 1861.)
- Kölliker, *Icones Histologicae*, 1864, 31. [Structural.]
 - Williamson, *Pop. Sci. Rev.* iv, 1865, 173, viii, 14. [Section of shell-wall showing pseudopodial tubes.]
 - Figuiet, *Ocean World* [1873], p. 84, fig. 19.
 - Carpenter, *Eney. Brit.* 9th ed. ix, 1879, *Foraminifera*, 381, fig. 22. [Structure.]
 - Bütschli, in Broun, *Klassen, etc. Thier-Reichs*, 1880, 212, x, 4.
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- OPHIDIONELLA**, De Folin, 1881. *Bull. Soc. N. H. Toulouse*, xv, 1881, p. 140, n. d. 1 sp. proposed.
- OPHTHALMIDIUM**, Zwingli & Kübler, 1870. *Foram. Schweiz. Jura*, 1870, p. 46, etc.; Brady, *Report Challenger*, 1884, p. 188.
- **auris**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 31, iii, 49. [= *Quinqueloculina*.]
 - **birnenstorfensis**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 31, iii, 46. [= *Spiroloculina*.]
 - **carinatum**, Balkwill & Wright. *Trans. R. Irish Ac.* xxviii (Sci.), 1885, 326, xii, 13-16.
 - Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 22, ii, *Ornatenthon*, 6; 16, ii, *Blagdeni-schichten*, 11 and 12.
 - Haeusler, *Neues Jahrb.* 1887, i, 194, vii, 39, 40, 43-45, 47-51.
 - **cornuspiroides**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 31, iii, 50.
 - **gracile**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 31, iii, 47.
 - **inconstans**, Brady. *Report Challenger*, 1884, 189, xii, 5, 7 and 8. [*Hauerina*, 1879.]
 - Brady, Parker, & Jones, *Trans. Zool. Soc.* xii, pt. 7, 1888, 216, xl, 12, 13.
 - **liasicum**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, ii, i, *Jurensismergel*, ii.
 - **medium**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 31, iii, 48.
 - **multiplex**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 22, ii, *Ornatenthon*, 7.
 - **nubeculariformis**, Haeusler. *Neues Jahrb.* 1887, i, 193, vii, 52, 53, 55, and 56.
 - **okeni**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 18, ii, *Parkinsonthon*, 10, 11.
 - **orbiculare**, Burbach. *Zeitschr. naturw. Halle*, lix, 1886, 499, v, 3-6.
 - **ovale**, Burbach. *Zeitschr. naturw. Halle*, lix, 1886, 499, v, 7-12.
 - **porosum**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 14, ii, *Opalinuston*, 7.
 - **superbum**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 47 iv, Anhang 5. [= *Quinqueloculina*.]
 - **tongricum**, Zwingli & Kübler. *Foraminif. Schweiz. Jura*, 1870, 47, iv, Anhang 3, 4. [= *Spiroloculina*.]
 - **tumidulum**, Brady. *Report Challenger*, 1884, 189, xii, 6.
 - **walfordi**, Haeusler. *Neues Jahrb.* 1887, i, 192, vi, 7-11.
 - Wallich, *North Atlantic Sea-bed*, pt. i, 1862, n. d. v, 13.
 - Haeusler, *Neues Jahrb.* 1887, i, 190, vi and vii.
 - Neunayr, *Stämme d. Thierreiches*, i, 1889 (1888), 177, fig. 19.
- ORBICULA depressa**, Reeve. *Conch. System.* ii, 1842, 289, cccxvii, 3. [*Heterostegina depressa*, d'O. = *Heterosteg.*]

- ORBICULINA**, Lamarck, 1816. Ency. Méthod., "Vers," III (1832), 669 (P. & J. quote pt. 23, 1816); Brady, Report Challenger, 1884, p. 208.
- **adunca** (Fichtel & Moll). Lamarck, Ency. Méthod., "Vers," III (1832), 669 (pls. 1827) (P. & J. quote pt. 23, 1816), 468, f. 2. [*Nautilus*, 1798.]
- [Lam.]. D'Orbigny, in De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 64, viii, 8-16; also in Spanish, 1840, p. 81, same pl. & fig.
- Williamson, Trans. R. Micr. Soc. III, 1849, 115, xviii, 15-18. [Structure.]
- Carpenter, Phil. Trans. 1856, 547-552, xxviii, 1-22 (17 = *Orbitolites malabaricus*, Carter); xxix, 1-3.
- Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 71, vii, 2 A-E. [Structural.]
- Carpenter, Parker & Jones, Introd. Foram. 1862, 93, viii, 1-12. [Structural.]
- Kölliker, Icones Histologicae, 1864, 31. [Structural.]
- J., P. & B., Crag Foram., Pal. Soc. XIX, 1866, 20, iii, 44.
- [d'Orb.]. Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 27, pl., 110.
- Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 118, ix, 304-307.
- Jones, in Microgr. Dict. ed. 4, 1883, 557, xxiii, 19.
- Brady, Report Challenger, 1884, 209, xiv, 1-13.
- Agassiz, Three Cruises "Blake," II, 1888, 160, fig. 486, 487.
- See *Archias*; *Helenis*; and *Ilotes*.
- **angulata**, Lamarck. Hist. Anim. s. Vert. VII, 1822, p. 609, No. 2. Ency. Méthod., "Vers," III (1832), 669 (pls. 1827), (P. & J. quote pt. 23, 1816), 468, f. 3.
- Brown, Elem. Foss. Conch. 1843, n. d. iii, 5 and 6.
- (*Orbitolites*) **complanata** (Lam.). Williamson, Trans. R. Micr. Soc. III, 1849, 115, xvii, 8; xviii, 9-14. [*Orbitolites*, 1801.] [Structure.]
- **compressa**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, 1839, "Foraminifères," 66, viii, 4-7; also in Spanish, 1840, p. 83, same pl. & fig.
- J., P. & B., Crag Foram., Pal. Soc. XIX, 1866, 21, iii, 43.
- **concava** (Lamarck). Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 96. [*Orbulites*, 1816.]
- **malabarica**, Carter. Ann. Mag. Nat. Hist. [3], VIII, 1861, 462; Journ. Bombay Branch R. Asiatic Soc. VI, 1861 (1862), 88. [*Orbitolites*, 1853.]
- **nummata**, Lamarck. Ency. Méthod., "Vers," III (1832), 669 (pls. 1827) (P. & J. quote pt. 23, 1816), 468, f. 1.
- (**numismalis**), Lam. Blainville, Malacol. 1825, 373, vii, 4. [= *Naut. orbiculus*, F. & M. = *Orbic. adunca* (F. & M.).]
- **numismalis**, Lamarck. Hist. Anim. s. Vert. VII, 1822, p. 609, No. 1. Defrance, Dict. Sci. Nat. XXXII, 1824, 180; XXXVI, 1825, 291; Atlas. Conch. xv, 4. [= *Naut. orbiculus*, F. & M. = *Orbic. adunca* (F. & M.).]
- Blainville, Manuel Malac. et Conch. 1825 (pls. 1838), 373, vii, 4.
- D'Orbigny, Ann. Sci. Nat. VII, 1826, 305, No. 1, xvii, 8-10.
- D'Orbigny, Modèles, No. 20, 1826.
- Cuvier, Animal Kingdom, Hendersson's ed. III, 1834, (pls. 1837), 18, *invis*, 4.
- Cuvier, Règne Animal, 1836-46, IX (pls. X), 35, xiv, 1.

- ORBICULINA numismalis**, Lam. Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1838, 143, iii, i. [= *O. adunca* and var. *orbiculus* (F. & M.).]
 ————— Reeve, Conch. system. II, 1842, 289, cxcvii, 2.
 ————— Beudant, Géologie, ed. 8, 1858, 117, fig. 106; later eds. same fig.
 ————— P., J. & B. [D'O., Modèles, 20], Ann. Mag. Nat. Hist. [3], xvi, 1865, 22, i, 21. [= *O. adunca*, F. & M.]
 ————— [numismalis, d'Orb.]. Zittel, Handbuch Palaeont. Abth. I, 1876, 79, fig. 13³.
 ————— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 164, fig.
 ————— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1057, lxxxvi, 47.
 ————— rotella, d'Orbigny. Foram. Fossiles Vienne, 1846, 142, vii, 13 and 14. [v. *Alveolina*.]
 ————— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 199, xxxv², 3a, b.
 ————— Pictet, Traité de Paléont. 2 ed. IV, 1857, 506, cix, 26.
 ————— uncinata, Lamarck. Hist. Anim. s. Vert. VII, 1822, p. 609, No. 3. [= *O. adunca* (F. & M.).]
 ————— Crouch, Introd. Lamarck, 1827, 40, xx, 10.
 ————— Brown, Conch. Text-book, 1839, 62, x, 19.
 ————— Brown, Elem. Foss. Conch. 1843, 24, ii, 31.
 ————— universa, d'Orb. Reeve, Conch. system. II, 1842, 288, cxcvii, 1. [Misprint for *Orbulina*.]
 ————— Philippi, Neues Jahrb. 1843, p. 569. [Misprint for *Orbulina*.]
 ————— n. sp. Williamson, Trans. Micros. Soc. London, III, 1852, 117, xviii, 11-14. [Williamson described this form from Tonga, without, however, giving it a specific name. Carpenter, in Challenger Report, Orbitolites, 1883, p. 29, quotes it as "*Orbiculina tonga*, Williamson," and refers it to *Orbitolites complanata*, Lam.]
 ————— Carpenter, Ency. Brit. 9th ed. IX, 1879, Foraminifera, 374, 1, 6-8.
 ————— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 192, vi, 2, A-E.
 ————— Carpenter, Journ. Quekett Microsc. Club, [2], II, 1885, 95, fig. 7. [Structural.]
 ————— see *Nautilus*.
- ORBICULITES lenticulata** (Lam.). Defrance, Dict. Sci. Nat., Atlas, Zooph. 1816-30, li, 5; and Blainville, Actinol. 1834, lxxii, 2. [v. *Orbitolites*.]
- ORBIGNYNA**, v. Hagenow. Neues Jahrbuch, 1842, p. 573.
 ————— ovata, v. Hagenow. Neues Jahrbuch, 1842, 573, ix, 26. [v. also *Lituola*; *Haplophragmium*.]
 ————— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 665, xxiv, 32.
 ————— Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 84, xxix¹, 11.
- ORBIS foliaceus**, Philippi. Enum. Mollusc. Siciliae, II, 1844, 147, xxiv, 25, [error for 26]. [v. *Cornuspira* and *Spirulina*.]
 ————— infimus, Strickland. Quart. Journ. Geol. Soc. II, 1846, 30, fig. a. [v. *Ammodiscus* and *Cornuspira*.]
 ————— Lea. A genus of *Gasteropoda*.
- ORBITOIDES**, d'Orbigny, 1847. Prodrome de Paléont. II, 1850, 334.
 ————— alpina, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 406, No. 1297.
 ————— (*Discocyclina*) *applanata*, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 700, iii, 17, 18, 35-37.
 ————— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 71, xi, 2; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), p. 82, same pl. and fig.

- ORBITOIDES (Discocyclina) applanata**, Gümbel. Jennings, Geol. Mag. dec. 3, v, 1888, 531, xiv, 3a, b, c, d.
- **(Discocyclina) aspera**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 698, iii, 13, 14, 32-34.
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 72, xi, 4; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), p. 82, same pl. and fig.
- Schwager, Boll. R. Com. geol. Ital. viii, 1877, 26, pl. 77.
- **asterifera**, Carter. Ann. Mag. Nat. Hist. [3], viii, 1861, 451, xvii, 3; Journ. Bombay Branch R. Asiatic Soc. vi, 1861 (1862), 78.
- **asteriscus**, Michelotti. Nat. Verh. Holland. Maat. Wet. Haarlem, 2, xv, 1861, 17, i, 1 and 2.
- Kaufmann, Beitr. geol. Karte Schweiz, Lief. v, 1867, 155, ix, 11-16.
- **(Lepidocyclina) burdigalensis**, Gümbel. Abh. k. bay. Ak. Wiss. x, 1868 (1870), p. 719.
- **carteri**, Martin. Junghuhn, Tertiärsch. Java, 1879-80, 161, xxviii, 2.
- K. Martin, Niederländ. Arch. Zool. v, Heft 2, 1880, xiv, 2.
- **crassula**, Mayer. Beitr. geol. Karte Schweiz, xiv, 2 Abth., 1877, 23, i, 2.
- **decipiens**, v. Fritsch. Palaeontographica, Supp. iii, Lief. 1, 1878, 143, xviii, 12; xix, 4.
- **dilabida**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 140, xxix (62), 7a-e.
- **dilatata**, Michelotti. Nat. Verh. Holland. Maat. Wet. Haarlem, 2, xv, 1861, 17, i, 1 and 2.
- **(Lepidocyclina)** ———— Gümbel, Abh. m.-ph. Cl. k. bayer. Ak. Wiss. x, 1868 (1870), 717, iv, 45a, b, 46, 47.
- **discus** (Rütim.) (charact. addit.). Kaufmann, Beitr. geol. Karte Schweiz, Lief. v, 1867, 160, x, 11-16. [v. *Orbitolites*.]
- **dispansa** (Sow.). Carter, Ann. Mag. Nat. Hist. [3], viii, 1861, 447, xvi, 1, xvii, 1; Journ. Bombay Branch R. Asiatic Soc. vi, 1861 (1862), 73. [*Lycophris*, 1837.].
- **(Discocyclina)** ———— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 701, iii, 40-47.
- Hantken, A magy. kir. földt. int. évkönyve, i, 1871, 132, ii, 10a, b; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, i, 1871, p. 138, same pl. and fig.
- Brady, Geol. Mag. dec. 2, vol. ii, 1875, 536, xiv, 2a, b, c.
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 72, xi, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), p. 82, same pl. and fig.
- v. Fritsch, Palaeontographica, Supp. iii, Lief. 1, 1878, 142, xviii, 10; xix, 8.
- Brady, Jaarb. Mijn. Ned. Oost-Indie, vii, 2, 1878, 164, ii, 2a, b, c.
- Medlicott & Blanford, Geol. of India, 1879, 340 and 459, xv, 8.
- **(Discocyclina)** ———— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 215, xii, 16.
- Martin, Samml. geol. Reichsmus. Leiden, [1], vol. i, Heft 2, 1881, 112, vi, 1, 2, and 3.
- v. nov. Abich, Geol. Forsch. Kaukas. Ländern, ii, 1882, 229, ii, 9; x, 1-4, 8; xi, 1-3.
- **(Discocyclina)** ———— Jennings, Geol. Mag. dec. 3, v, 1888, 530, xiv, 6.

- ORBITOIDES eocana**, Hantken. Kohlenflötze, etc. ungar. Krone, 1878 (transl. from Magyar), 218, fig. 32.
- (**Discocyclina**) **ephippium** (Schloth.). Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 696, iii, 15, 16, 38, and 39. [*Lenticulites*, 1820.]
- v. Fritsch, Palaeontographica, Supp. III, Lief. 1, 1878, 141, xviii, 11; xix, 6.
- **ephippium** (Sow.). Zittel, Handbuch Palaeont. Abth. I, 1876, 103, fig. 43^b. [*Lycophris*, 1837.]
- (**Discocyclina**) ——— Jennings, Geol. Mag. dec. 3, v, 1888, 530, xiv, 4a, b.
- **faujasi** (Defr.). Reuss, Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 309, iv, 7-9; v, 1-5. [*v. Lycophris*.]
- J., P. & B., Crag Foram., Pal. Soc. XIX, 1866, n. d. iii, 25.
- Stoliczka, Palaeontologia Indica, Cret. Fauna S. India, iv, 4, 1873, p. 61, xii, 3-5.
- **fortisii**, d'Arch. Carpenter, Parker & Jones, Introd. Foram. 1862, 300, xx, 1-4, 7, 10-16, and a cast, 298, xxii, 2 and 3. [*Orbitolites*, 1848.]
- Carpenter, The Microscope, ed. 6, 1881, 585, fig. 339, 340, 341, 342. [Structural.]
- **gigantea**, Martin. Junghuhn, Tertiärsch. Java, 1879-80, 162, xxviii, 3.
- Martin, Niederländ. Arch. Zoöl. v, Heft 2, 1880, xiv, 3.
- **gumbellii**, Seguenza. Atti R. Accad. Lincei, [3], VI, 1880, 45, iv, 9a, b, c.
- **inflata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 125, xiii (xxi), 6a, b.
- **javanicus**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 168, iv, viii-x. [Same as *O. prattii*.] [Glauc.]
- Carpenter, Parker & Jones, Introd. Foram. 1862, xxii, 4 and 5. [Cast.]
- (**Rhipidocyclina**) **karakaiensis** (d'Archiac). Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 706, iv, 42-44. [*Orbitolites*, 1850.]
- **lucifera**, Kaufmann. Beitr. geol. Karte Schweiz, Lief. v, 1867, 157, ix, 17-21.
- **mantelli** (Morton). D'Orbigny, in Lyell, Quart. Journ. Geol. Soc. iv, 1847 (1848), 11, no fig. [*Nummulites*, 1833.]
- [(d'Orb.) 1847]. D'Orbigny, Prodrome de Paléont. II, 1850, 406, No. 1296.
- Carpenter, Parker, & Jones, Introd. Foram. 1862, 298 and 300, xx, 5, 6, 8, 11*
- (**Lepidocyclina**) ——— Gümbel, Abh. k. bay. Ak. Wiss. x, 1868 (1870), p. 718.
- Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 215, xii, 22.
- [Sow.]. Steinmann, Elem. Paléont. I, 1888, 36, fig. K.
- **media**, d'Orb. Cours élém. Paléont. etc. I, 1849, 193, fig. 316; II, fas. 2, 1852, 689, fig. 557.
- Prestwich, Geology, II, 1888, 290, 151, i.
- **microthalma**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 167 iv, xi. [Same as *O. prattii*.] [Glauc.]
- (**Rhipidocyclina**) **multiplicata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 704, iv, 20-24.
- Steinmann, Elem. Paléont. I, 1888, 36, fig. G.
- **nudimargo**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 139, xxix (6), 8a-e.
- (**Rhipidocyclina**) **nummulitica**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 702, iv, 1-3, 16-18.

- ORBITOIDES nummuitica**, Gümbel. Steinmann, Elem. Paléont. I, 1888, 36, fig. 23, C.
- **nupera**, Conrad. Amer. Journ. Sci. XLIII, 1867, p. 31. [Cf. *Orbitolites supera*.]
- **omphalus**, v. Fritsch. Palaeontographica, Supp. III, Lief. 1, 1878, 142, xviii, 13; xix, 5.
- **orakeiensis**, Karrer. Novara-Exped., Geol. Theil, I, 1864, 86, xvi, 21.
- (**Discocyclus**) **papyracea** (Boubée). Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 690, iii, 3–12, 19–29. [v. *Nummulites*.]
- ——— Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 132, ii, 9a, b; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, p. 138, same pl. and fig.
- ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 71, xi, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), p. 81, same pl. and fig. [*O. papyracea*, in descr. of plate.]
- ——— Brady, Geol. Mag. dec. 2, II, 1875, 535, xiv, 1a, b, c, d.
- ——— Zittel, Handbuch Palaeont. Abth. I, 1876, 103, fig. 43^{1.2.3.}
- ——— Brady, Jaarb. Mij. Ned. Oost-Indie, VII, 2, 1878, 163, ii, 1a, b, c, d.
- ——— v. Fritsch, Palaeontographica, Supp. III, Lief. 1, 1878, 140, xviii, 14. [Structure.]
- ——— Hantken, Kohlenflötze, etc. ungar. Krone, 1878 (transl. from Magyar), 225, fig. 38.
- ——— Medlicott & Blanford, Geol. of India, 1879, 461, xv, 7.
- ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 215, xii, 20 and 21.
- ——— Abich, Geol. Forsch. Kaukas. Ländern, 1882, 242, ix, 2, 2a, b.
- ——— Terquem, Mém. Soc. géol. France, [3], II, 1882, 126, xiii (xxi), 7a, b.
- ——— Steinmann, Elem. Paléont. I, 1888, 36, fig. 23, A, B, F, H, I.
- (**Discocyclus**) ——— Jennings, Geol. Mag. dec. 3, v, 1888, 530, xiv, 5.
- (**Aktinocyclus**) **patellaris** (Schlotheim). Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 711, iv, 29–32. [*Asteriacites*, 1822.]
- ——— Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 132, ii, 31a, b [error for 11a, b]; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, p. 139, same pl. and fig.
- ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 72, xi, 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), p. 83, same pl. and fig.
- **prattii**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 167, iv, ii, etc. [See also *O. microthalma* and *O. javanicus*.] [Glauc.]
- (**Asterocyclus**) **priabonensis**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 715, iv, 3b, a, b, 41 [40].
- (**Asterocyclus**) ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 215, xii, 17.
- (**Aktinocyclus**) **radians** (d'Arch.). Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 707, ii, 116a–d; iv, 11–15 [14 = v. *furcata*]. [*Orbitolites*, 1848.]
- ——— (?) var. **scarantana**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), iv, 41a, b.
- ——— Hantken, A magy. kir. földt. int. évkönyve, I, 1871, 132, ii, 7; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, p. 139, same pl. and fig.
- ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 72, xi, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), p. 83, same pl. and fig.
- ——— Steinmann, Elem. Paléont. I, 1888, 36, fig. 23, D.

- ORBITOIDES radiata**, Martin. Junghuhn, Tertiärsch. Java, 1879-80, 163, xxviii, 4.
- Martin, *Niederländ. Arch. Zool.* v, Heft 2, 1880, xiv, 4.
- (**Asterocyclina**) *stella*, Gümbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 716, ii, 117*a, b, c*; iv, 8-10, 19.
- Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 73, xi, 10; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), p. 84, same pl. and fig.
- (**Asterocyclina**) ——— Bütschli, in Bronn, *Klassen, etc. Thier-Reichs*, 1880, 215, xii, 18.
- (**Asterocyclina**) *stellata* (d'Archiac). Gümbel, *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 713, ii, 115*a-e*; iv, 4-7. [*Calcarina*, 1846.]
- Hantken, *A magy. kir. földt. int. évkönyve*, i, 1871, 133, ii, 8*a, b, c*; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, i, 1871, p. 139, same pl. and fig.
- Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 73, xi, 9; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), p. 84, same pl. and fig.
- Hantken, *Kohlenflötze, etc. ungar. Krone*, 1878 (transl. from Magyar), 226, fig. 40.
- (**Asterocyclina**) ——— Bütschli, in Bronn, *Klassen, etc. Thier-Reichs*, 1880, 215, xiii, 1.
- Steinmann, *Elem. Paléont.* i, 1888, 36, fig. 23, *E*.
- (**Asterocyclina**) ——— [Gümb.]. Jennings, *Geol. Mag.* dec. 3, v, 1888, 531, xiv, 7.
- Howchin, *Trans. R. Soc. Austral.* xii, 1889, 17, i, 9-11.
- (**Rhipidocyclina**) *strophiolata*, Gümbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 705, iv, 25-28.
- *sumatrensis*, Brady. *Geol. Mag.* dec. 2, ii, 1875, 536, xiv, 3*a, b, c*.
- Brady, *Jaarb. Mij. Ned. Oost-Indie*, vii, 2, 1878, 165, ii, 3*a, b, c*.
- (**Discocyclina**) *tenella*, Gümbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 698, iii, 1, 2, 30 and 31.
- Zittel, *Handbuch Palaeont. Abth. i*, 1876, 103, fig. 43⁴.
- (**Aktinocyclina**) *tenuicostata*, Gümbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 709, ii, 114*a, b, c*; iv, 35.
- Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 73, xi, 7 and 8; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), p. 83, same pl. and fig.
- *varians*, Kaufmann. *Beitr. geol. Karte Schweiz. Lief. v*, 1867, 158, x, 1-10.
- (**Aktinocyclina**) *variecostata*, Gümbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 710, iv, 33*a, b*, 34.
- Zittel, *Handbuch Palaeont. Abth. i*, 1876, 103, fig. 43⁵.
- (**Actinocyclina**) ——— Bütschli, in Bronn, *Klassen, etc. Thier-Reichs*, 1880, 215, xii, 19.
- [———] Targiona, *Relaz. d'alc. viaggi*, iv, 1770, p. viii, pl. i, figs. 3-5. See *Corpi marini*.
- Carpenter, Parker & Jones, *Introd. Foram.* 1862, 298, xx.
- ? sp. v. Fritsch, *Palaeontographica, Supp.* iii, Lief. 1, 1878, 145, xviii, 17.
- Carpenter, *Ency. Brit.* 9th ed. ix, 1879, *Foraminifera*, 382, fig. 30-32.
- Martin, *Jaarb. Mij. Nederland. Oost-Indië*, xi, 1882, 80, 82, 90, iii, 1-4. [Structural.]
- ind. Abich, *Geol. Forsch. Kaukas. Ländern*, ii, 1882, 235, x, 5.
- Carter, *Ann. Mag. Nat. Hist.* [6], ii, 1888, 439. [Notes on Genus.]
- Malagoli, *Atti Soc. Nat. Modena*, [3], vii, 1888, 115, v, 2.
- see *Aktinocyclina*; *Asterocyclina*; *Discocyclina*; *Lepidocyclina*; and *Rhipidocyclina*.

- ORBITOLINA**, d'Orbigny, 1847. D'Orbigny, *Prodrome de Paléont.* II, 1850, 143.
- *annularis*, P. & J. *Ann. Mag. Nat. Hist.* [3], VI, 1860, 31.
- *concava*, P. & J. *Lyell, Antiq. of Man*, ed. 4, 1873, p. 64, fig. 22. [= *Porosphæra*.]
- ——— Martin, *Jaarb. Mijm. N. I.* XVIII, 1889, 88, xxiv and xxv.
- ——— Lamarek. v. *Orbulites*.
- *conica*, d'Arch. *Mém. Soc. géol. France*, II, 1837, 178.
- *conoidea*, Gras. *Catal. Corps Org. Foss. Isère*, 1852, 34, 37, 52, i, 4-6.
- *discoidea*, Gras. *Catal. Corps Org. Foss. Isère*, 1852, 37 and 52, i, 7-9.
- *gigantea*, d'Orb., 1847. D'Orbigny, *Prodrome de Paléont.* II, 1850, 279, No. 1350.
- *globularis* (d'Orb.). Jones, *Geologist*, 1862, 336. [= var. of *O. concava* (Lam.).] [= *Porosphæra*.]
- *lævis*, P. & J. *Ann. Mag. Nat. Hist.* [3], VI, 1860, 32. [v. *Tinoporus*.]
- *lenticularis*, Lam. Carter, *Ann. Mag. Nat. Hist.* [3], VIII, 1861, 458. xvii, 5; *Journ. Bombay Branch R. Asiatic Soc.* VI, 1861 (1862), 84. [v. *Orbulites*, 1816.]
- *lenticularis* (Blumenbach). Pictet & Renevier, *Mat. paléont. Suisse*, [1], *Mém.* 1, 1858, 166, xxiii, 3a-f. [*Madreporites*, 1805.]
- ——— Heer, *Urwelt Schweiz*, 1865, 203, fig. 115; and transl. London, 1876, 213, fig. 115.
- *lenticulata* (Lamarek), (d'Orb.), 1847. D'Orbigny, *Prodrome de Paléont.* II, 1850, 143, No. 342. [See *Orbitolites*, Lamarek and Lamouroux, and *Orbulites*, 1816.]
- ——— Pictet, *Traité de Paléont.* 2 ed. IV, 1857, 486, cix, 7.
- *mamillata*, d'Arch. *Mém. Soc. géol. France*, II, 1837, 178.
- *media*, d'Arch. *Mém. Soc. géol. France*, II, 1837, 178.
- *patula*, Carter. *Geol. Papers Western India*, 1857, 549, not fig'd.
- *plana*, d'Arch. *Mém. Soc. géol. France*, II, 1837, 178.
- *radiata*, d'Orb., 1847. D'Orbigny, *Prodrome de Paléont.* II, 1850, 280, No. 1351.
- *semiannularis*, P. & J. *Ann. Mag. Nat. Hist.* [3], VI, 1860, 30.
- *simplex*, P. & J. *Ann. Mag. Nat. Hist.* [3], VI, 1860, 29.
- *sphærulata*, P. & J. *Ann. Mag. Nat. Hist.* [3], 1860, 34.
- *sphærulolineata*, P. & J. *Ann. Mag. Nat. Hist.* [3], VI, 1860, 34.
- *vesicularis*, P. & J. *Ann. Mag. Nat. Hist.* [3], VI, 1860, p. 31, No. 5; and var. *congesta*, No. 6. [v. also *Gypsina* and *Tinoporus*.]
- ? Carter, *Ann. Mag. Nat. Hist.* [3], VIII, 1861, 459, xvii, 6-9; *Journ. Bombay Branch R. Asiatic Soc.* VI, 1861 (1862), 85.
- ORBITOLITES**, Lamarek, 1801. *Syst. Anim. sans Vert.* 1801, p. 376; Brady, *Report Challenger*, 1884, p. 210, fig. 6.
- *arabica*, Carter. *Ann. Mag. Nat. Hist.* [3], VIII, 1861, 463, xvii, 10-14; *Journ. Bombay Branch R. Asiatic Soc.* VI, 1861 (1862), 90. [*Operculina* in description to plates, q. v.]
- *complanata*, Lamarek. *Syst. Anim. sans Vert.* 1801, p. 376. [v. *Orbiculina* and *Orbitulites*.]
- ——— Defrance, *Diet. Sci. Nat.* xxxvi, 1825, 294; *Atlas Zooph.* xlvi, 2.
- ——— Blainville, *Actinologie*, 1834, lxxii, 2.
- ——— Galeotti, *Mém. Couronnés Ac. R. Bruxelles*, XII, 1837, *Mém.* iii, 164, iv, 5.
- ——— Michelin, *Icon. Zoophytol.* 1840-47, 167, xlvi, 4a, b.
- [*complanatus*] ——— Harting, *Magt van het Kleine*, 1866, 103, fig. 45.
- ——— Greene, *Man. Protozoa*, London, 1871, 19, fig. 4.
- ——— Zittel, *Handbuch Palaeont. Abth.* I, 1876, 79, fig. 13⁴, and fig. 16.

- ORBITOLITES complanata**, Lam. Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 81, iv [numbered iii, by error], 4 and 5 ; v, 1-5. [Structural.]
- [**complanatus**] ——— Carpenter, The Microscope, ed. 6, 1881, 553, fig. 316, 317, and 319.
- ——— Terquem, Mém. Soc. géol. France, [3], II, 1882, 125, xiii (xxi), 5.
- ——— Carpenter, Phil. Trans. 1883, 562, etc. figs. iii and iv. [Structural.]
- ——— Carpenter, Report Challenger, "Orbitolites," 1883, 29, v, 11-18 ; vi, vii, and viii.
- ——— Carpenter, Report Challenger, "Orbitolites," 1883, 13, fig. 3. [Structural.]
- ——— [v. **laciniata**]. Carpenter, Report Challenger, "Orbitolites," 1883, 36, vii.
- [**complanatus**] ——— Jones, in Microgr. Dict. ed. 4, 1883, 557, xxiii, 17a, b.
- ——— Brady, Report Challenger, 1884, 218, xvi, 1-6, and xvii, 1-6. [*O. laciniatus*, 1881.]
- ——— v. **laciniata**. Brady, Report Challenger, 1884, 220, xvi, 8-11.
- ——— Carpenter, Journ. Quekett Microsc. Club, [2], II, 1885, 91, fig. 4 and 10.
- ——— Bütschli, Morph. Jahrb. XI, 1886, 80, vii, 1-5.
- ——— Fritel, Foss. caract. terr. sedim. tert. 1886, pl. vii, 58 and 59.
- ——— v. **laciniata**. Brady, Journ. R. Microsc. Soc. 1888, 693, x, 1-14.
- **conca**, Lamarek. Syst. Nat. Anim. s. Vert. 1801, p. 376.
- ——— Michelin, Icon. Zoophytol. 180, 1840-1847, 28, vii, 9.
- **crassa**, Fischer. Fond de la Mer, I, chap. XVII (1870), p. 253, not figured.
- [**Cyclolina**] **cretacea**, d'Orbigny. Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 192, viii, 16. [*Cyclolina*, 1846.]
- **discoidea**, Lea. Contrib. to Geology, 1833, 192, vi, 205. [= ?]
- **disculus**, Leymerie. Mém. Soc. géol. France, [2], IV, 1851, 190, IX, 1a-d.
- **discus**, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, 116, v, 70, 71 (78, 80), 81.
- **duplex**, Carpenter. Phil. Trans. CLXXIV, 1883, 561, etc., figs. ii and v.
- ——— Carpenter, Report Challenger, "Orbitolites," 1883, 25, iii, 8-14 ; iv, 6-10 ; v, 1-10 ; p. 28, fig. 4.
- ——— [**hemprichii**, Ehr. sp. ?]. Brady, Report Challenger, 1884, 216, xvi, 7 ; and fig. 7, p. 217. [*Amphisorus*, 1838.]
- ——— Carpenter, Journ. Quekett Microsc. Club, [2], II, 1885, 97, fig. 9. [Structural.]
- **elliptica**, Michelin. Icon. Zoophytol. 1840-1847, 277, lxi, 11a, b.
- **fortisii**, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 404, viii, 10a, 11a, 12a. [v. *Orbitoides*.]
- ——— v. **A**, Roualt. Mém. Soc. géol. France, [2], III, 1848, 463, xiv, 6a.
- **furcata**, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, 118, v, 75 (79).
- **gensacica**, Leymerie, v. **κ**, **gigantea**. Mém. Soc. géol. France, [2], IV, 1851, 190, IX, 2a-d.
- ——— v. **β**, **conca**. Mém. Soc. géol. France, [2], IV, 1851, 190, IX, 3a-d.
- **interstitia**, Lea. Contrib. to Geology, 1833, 191, vi, 204. [= ?]
- **italica** (Costa). Brady, Ann. Mag. Nat. Hist. [5], XVI, 1886, p. 191. [*Pavonina*, 1856.]

- ORBITOLITES** *karakaiensis*, d'Archiac. Hist. Progrès Géol. III, 1850, p. 231. [v. also *Orbitoides*.]
- *laciniatus*, Brady. Quart. Journ. Micr. Soc. XXI, 1881, p. 47. [v. *O. complanata*, var. *laciniata*.]
- *lenticulata*, Lamarek. Defrance, Dict. Sci. Nat. XXXVI, 1825, 295; Atlas, Zooph. II, 5. [*Orbulites lenticulata*, 1816.]
- Cuvier & Brongniart, in Cuvier, Ossem. fossiles, ed. 2, II (2), 333 and 613, pl. ix, f. 4A, B, C.
- [Al. Brongu.]. Bronn, Syst. urweltl. Pflanzenthier, 1825, 23, vi, 18.
- *macropora*, Lamarek. Reuss' Models, No. 90, 1865 [Catal. No. 30, 1861]. [v. *Orbulites*.]
- *malabarica*, Carter. Ann. Mag. Nat. Hist. [2], XI, 1853, 425, xvi, B, 1-4.
- *malabaricus*, Carter. [v. *Orbiculina adunca*.]
- *mammillaris*, Savi & Meneghini. Consid. Geol. Toscana, 1851, 144, no. fig.
- *mantelli*, Carter. Journ. Bombay Br. R. Asiatic Soc. v, pt. XVIII (1853), 138, ii, 30-39. [This is *Nummulites mantelli*, Morton.]
- Carter, Ann. Mag. Nat. Hist. [2], XI, 1853, 174, vii, 30-39 (40, 41 ?).
- Carter, Geol. Papers Western India, 1857, 547, xxiii, 30-39.
- Carter, Ann. Mag. Nat. Hist. [3], VIII, 1861, 452, xvi, 2, xvii, 2; Journ. Bombay Branch R. Asiatic Soc. VI, 1861 (1862), 79.
- v. *theobaldi*, Carter. Ann. Mag. Nat. Hist. [6], II, 1888, 342.
- *marginalis*, Lamarek. Carpenter, Phil. Trans. 174, 1883, 560, fig. i. [*Orbulites*, 1816.]
- Carpenter, Report Challenger, "Orbitolites," 1883, 20, iii, 1-7; iv, 1-5.
- Brady, Report Challenger, 1884, p. 214, xv, 1-5.
- Carpenter, Journ. Quekett Microsc. Club, [2], II, 1885, 96, fig. 8. [Structural.]
- *marginata*, Savi & Meneghini. Consid. Geol. Toscana, 1851, 144, no fig.
- *orbiculus* (Förskal). J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, 23, iii, 45-47. [*Nautilus*, 1775.]
- *papillosa*, Savi & Meneghini. Consid. Geol. Toscana, 1851, 144, no fig.
- *papyracea*, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 405, viii, 13a.
- *parmula*, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, 117, v. 72 and 73.
- *patellaris*, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, 119, v, 76 and 77 (79).
- *pedunculata*, Carter. Ann. Mag. Nat. Hist. [3], VIII, 1861, 463; Journ. Bombay Branch R. Asiatic Soc. VI, 1861 (1862), 89. [*Cyclolina*, 1853.]
- *pratti*, Michelin. Icon. Zoöphytol., 1840-47, 278, lxiii, 14. [v. also *Orbitulites*.]
- *radians*, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 405, viii, 15a.
- *secans*, Leymerie. Mém. Soc. géol. France, [2], IV, 1851, 191, ix, 4a, b.
- *sella*, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 405, viii, 16a.
- *socialis*, Leymerie. Mém. Soc. géol. France, [2], IV, 1851, 191, ix, 5a, b, c.
- *stellaris*, Brunner [MS.]. Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, 118, v, 74 (78).

- ORBITOLITES stellata**, d'Archæa. Mém. Soc. géol. France, [2], III, 1848, 405, viii, 14. [*Calcarina*, 1846.]
- **submedia**, d'Archæa. Mém. Soc. géol. France, [2], II, 1846, 184, vi, p. 6.
- ——— Fritel, Foss. caract. terr. sedim. tert. 1886, pl. vii, 60 and 61.
- **supera**, Conrad. Proc. Ac. Nat. Sci. Philad. No. 2, 1865, p. 74. "Smaller than the preceding [*O. mantelli*] and comparatively thicker, without the raised central point. Diameter 13–20 inch. This species is readily distinguished by the convex centre, and is limited to the oligocene strata." [Cf. *Orbitoides nupera*.]
- **tenuissima**, Carpenter [MSS., 1870]. Thomson, Depths Sea, 1873, 91, fig. 10. [= *O. italica*, q. v.]
- [**tenuissimus**] ——— Carpenter, The Microscope, ed. 6, 1881, 556, fig. 318.
- ——— Schlumberger, F. Jeune Nat., Mar. 1882, iii, 1.
- ——— Folin, Congrès Scient. Dax, 1882 (1883), 314, pl. f. 5.
- [Sarcode body.]
- ——— Carpenter, Phil. Trans. 174, 1883, 553, xxxvii and xxxviii.
- ——— Carpenter, Report Challenger, "Orbitolites," 1883, 16, i. and ii.
- ——— [*italica* (Costa) ?]. Brady, Report Challenger, 1884, 212, xv, 6a–d, and 7. [v. *O. italica*.]
- ——— Verworn, Zeitschr. Wiss. Zool. (Siebold's) XLVI, 1888, 466, fig. K; and Ann. Mag. Nat. Hist. [6], II, 1888, p. 165.
- ——— Neumayr, Stämme d. Thierreiches, I, 1889 (8), 180, fig. 22.
- [——] Costa, Fauna Regno Napoli, 1838, Foraminiferi, not described, II, 7 and 8.
- Carter, Journ. Bombay Branch R. Asiatic Soc. III, 1849, 168, viii, 1a–c.
- Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, v, 67–69.
- Mantell, Pictorial Atlas Foss. Rem. 1850, 142, lxi, 17.
- Carpenter, Quart. Journ. Geol. Soc. VI, 1850, 30, plates III to VIII. [Minute structure.]
- Carter, Journ. Bombay Br. R. Asiatic Soc. v, pt. XVIII (1853), 139, II, 40 and 41.
- Carpenter, Phil. Trans. 1856, 181, pl. IV. [The animal, or sarcode body.]
- Carpenter, Phil. Trans. 1856, 181, pls. v, vi, vii, viii, and ix [pl. v, f. 2 and 3, referred by Brady to *O. complanata*, v. *laciniata*]; pl. v, fig. 10, and pl. ix, f. 10, "*Orbitolites*, duplex type," belong to *Orbitolites dupier*, 1883. [The shell.]
- Carter, Geol. Papers Western India, 1857, 548, xxiii, 40 and 41.
- Carpenter, Parker, & Jones, Introd. Foram. 1862, 105, IV and IX; fig. IX; fig. xxiv, in text. [Structural.]
- Williamson, Pop. Sci. Rev. IV, 1865, 174, viii, 10.
- Carpenter, Ency. Brit. 9th ed. IX, 1879, Foraminifera, 377, figs. 11–13. [Structure.]
- Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 192, v, 3 and 4. [Fig. 4, "complicirte Varietät," is referred by Brady to *O. complanata*, v. *laciniata*.]
- Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 192, vi, 1A–E.
- Carpenter, Report Challenger, "Orbitolites," 1883, 10, fig. 1; 11, fig. 2; p. 41, fig. 5. [Structural.]
- Carpenter, Journ. Quekett Microsc. Club, [2], II, 1885, 93, figs. 5, 6, 7, 11, and 12. [Structural.]
- see *Eolides*; *Discolites*; *Operculum*; and *Umbilicum*.
- ORBITULINA**, Bronn, 1851–52. [Quoted for *Orbitolina*, d'Orbigny, 1847.] Lethæa Geognostica, ed. 3, II, 1851–52, p. 93.

- ORBITULINA** *cretacea*, Schafhäütl. Süd-Bayerns Lethaea Geogn. 1863, not descr. xv, 1a, b.
- *lenticularis* (Lam.). Bronn, Lethaea Geognostica, ed. 3, II, 1851–52, 93, xxix², 22a–c. [*Orbulites*, 1816.]
- *venezuelana*, Karsten. Géol. Colomb. bolivarienne, etc. 1886, 62, vi, 6a, b, c, d, e. [*Orbulites lenticularis*?, K, 1856.]
- ORBITULITES**,* Bronn, 1837. Lethaea Geognostica, ed. 2, I, 1837, p. 596.
- *africanus*, J. E. Gray. Spicil. Zool. 1828, 8. [*nom. nud.*? Foraminifer.]
- *angulata*, Catullo. Dei Terreni sed. sup. Venezia, 1857, 27, i, 11.
- *apertus*, Ermann. Zeitschr. deutsch. geol. Ges. VI, 1854, 603, xxiv [error for xxiii], 1–3.
- *cassianicus*, Schauroth. Sitz. k. Ak. Wiss. Wien, XVII, 1855, 527, II, 13.
- *circumvulvata*, Gümbel. Neues Jahrbuch, 1872, 259, VII, 11–18.
- *complanata* (Lamarck). [*v. Orbitolites*.]
- [*complanatus*], Lam. Bronn, Lethaea Geognostica, ed. 3, III, 1853–56, 254, xxxv, 22a, b.
- ? —— Catullo, Dei Terreni sed. sup. Venezia, 1857, 26, i, 10.
- cf. —— Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 90, xxiv (1), 10a–d.
- *concava* (Lamarck). [*Orbulites*, 1816.]
- [Defrance]. Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 132, fig. 45, 5.
- *convexo-convexa*, Catullo. Dei Terreni sed. sup. Venezia, 1857, 25, i, 7.
- *creplini*, Hagenow. N. Jahrb. 1839, 289. [= *Myriopora*, *fide* Bronn, Index Pal. 1848, 768.]
- *incertus*, Karrer. Novara-Exped., Geol. Theil, I, 1864, 79, xvi, 10.
- *lenticularis*, *sp. nov.*?, Karsten. Amtlicher Ber. 32 Vers. deutsche Nat. Aerzte, Wien, 1856, (1858), 114, vi, 6a, b, c, d, e. [*v. Orbitulina venezuelana*.]
- *lenticulata* (Lamarck). Gümbel, Anleit. geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 131, fig. 43, 10. [*Orbulites*, 1816.]
- *macropora* (Lamarck). Goldfuss, Petrif. German. I, 1826–33, 41, xii, 8. [*Orbulites*, 1816.]
- —— Reuss, in Geinitz, Grundr. Verstein. 1845–1846, 626, xxiii, 51.
- —— Hagenow, Bryozoen Maestrichter Kreide, 1850, 103, xii, 17a–c.
- *marginatus*, Lam. Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 27, pl. iii. [*Orbulites marginalis*, 1816.]
- *nummuliformis*, Catullo. Dei Terreni sed. sup. Venezia, 1857, 27, i, 12. [*Stromatopora* of Lonsdale, fig'd by Pictet, *Traité de Pal.* IV, 1846, 321, xvi, 14.]
- *pharaonum*, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 91, xxiv (1), 9a bis, d.
- *praecursor*, Gümbel. Neues Jahrbuch, 1872, 256, VII, 1–10.
- *pratii*, Michelin. Catullo, Dei Terreni sed. sup. Venezia, 1857, 26, i, 9. [*Pratii* on pl.]. [*Orbitolites*, 1840.]
- *roncana*, Catullo. Dei Terreni sed. sup. Venezia, 1857, 25, i, 8.
- *tenuissimus*, Carpenter. Abich, Geol. Forsch. Kaukas. Ländern, 1882, 243, fig. 41. [*v. Orbitolites*.]
- *texanus*, Roemer. Kreidebild. Texas, 1852, 86, x, 7a, b, c, d.
- Faujas de St. Fond, Hist. Nat. Mont. St. Pierre Maestricht, 1799, 186, xxxiv, 1–4.

* This term was first used by Faujas de St. Fond, Hist. Nat. Mont. St. Pierre Maestricht, 1799, pp. 186, 187. He quotes *Orbitolites*, Lamarck, Syst. 1801, p. 376, and we can only presume that he was favored by Lamarck's opinion on his specimens.

- ORBITULITES**, Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 72, vii, 1A-E.
 [Structural.]
 ——— Steinmann, Elem. Paléont. I, 1888, 24, fig. 5.
 ——— ? Schauroth, see under *Nummulina polygyrata*, Rüt.
- ORBITULOIDES reticulata**, Owen. Rep. Mineral Lands, Niagara Group, 1840. [Referred by S. A. Miller, Catal. Amer. Pal. Foss. 1877, to *Receptaculites*.]
- ORBULINA**, d'Orbigny, 1839. De la Sagra, Hist. Phys. etc. Cuba, 1839, II (2), "Foraminifères," p. 3; Brady, Report Challenger, 1884, p. 606.
 ——— **aterrima**, Costa. Fauna Regno Napoli, 1838,* Foraminiferi, 4, iii, 7. [= ? *Lagena*.]
 ——— **costata**, Kübler & Zwingli, Neujahrsblatt Burgersbibl. Winterthur, 1866, 10, ii, 25. [= holothuroid spicule.]
 ——— **faveolata**, Seguenza. See *O. foveolata*.
 ——— **foveolata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 37, i, 1 and 2.
 ——— **granulata**, Costa. Atti Accad. Pontaniana, VII, fas. 2 (1856), 116, xi, 2-4; xv, 8 [error for 14].
 ——— ——— v. *a*, **atra**, 117, xi, 2.
 ——— ——— v. *b*, **impressa**, 117, xi, 4 [3 in error on plate].
 ——— ——— v. *c*, **areolata**, 117, xi, 3 [4 in error on plate].
 ——— **irregularis**, Terquem, Cinquième Mém. Foram. Oolithique, 1883, 343, xxxviii, 1.
 ——— ——— Terquem, Mém. Soc. géol. France, [3], iv, 1886, 5, i, 1.
 ——— **liasica**, Terq. Mem. Ac. Imp. Metz, XLII, 1862, 432, v, 4.
 ——— **macropora**, Terquem. Bull. Soc. géol. France, [3], iv, 1876, 481, xv, 1. [? Foraminiferal.]
 ——— ——— Terquem, Cinquième Mém. Foram. Oolithique, 1883, 344, xxxviii, 3.
 ——— **micropora**, Terquem. Mém. Soc. géol. France, [3], iv, 1886, 5, i, 3.
 ——— **millepora**, Terquem, Cinquième Mém. Foram. Oolithique, 1883, 344, xxxviii, 2. [v. *O. sparsipora*.]
 ——— **neojurensis**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 368, iii, 10. [v. *Globigerina*.]
 ——— ——— Uhlig, Jahrb. k. k. geol. Reichs. xxxiii, 1883, 760, ix, 20.
 ——— **nitida**, Terquem. Bull. Soc. Zool. France, XI, 1886, 330, xi, 1.
 ——— **petraea**, Giebel. Deutschl. Petref. 1852, p. 255, no descr. or fig.
 ——— **porosa** (Terq.). Brady, Report Challenger, 1884, 611, lxxxi, 27. [*Globulina*, 1858.]
 ——— **punctata**, Terq. Mem. Ac. Imp. Metz, XLII, 1862, 432, v, 5.
 ——— ——— Terq. & Berth., Mém. Soc. géol. France, [2], x, 1875, ii, i (xi), 1.
 ——— **rugosa**, Terq. Mem. Ac. Imp. Metz, XLIV, 1863, 377, vii, 3.
 ——— **sparsipora**, Terquem. Mém. Soc. géol. France, [3], iv, 1886, 5, i, 2. [T. gives reference to "Mém. Foram. Oolithique, p. 344." This is erroneous; v. *O. millepora*.]
 ——— **tuberculata**, Costa. Fauna Regno Napoli, Naples, 1838,* Foraminiferi, 4, i, 8a, A. [v. *Globigerina*.]
 ——— ——— Costa, Atti Accad. Pontaniana, VII (2), 1886, 116, xi, 1a, A.
 ——— **universa**, d'Orbigny. Barker-Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, ii, pt. 2, "Foraminifères," 123, i, 1. [v. *Globigerina*; and *Orbiculina*.]
 ——— ——— D'Orb., in de la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 3, i, 1; also in Spanish, 1840, p. 35, same pl. and fig.
 ——— ——— Costa, Fauna Regno Napoli, 1838,* Foraminiferi, 3, i, 9a, A, and Prod. Paléont. iii, p. 190 [= Atti Acc. Pontan. 1856, q. v.]

* See Sherborn, Bibl. Foram. 1888, p. 32.

- ORBULINA universa**, d'Orbigny. Pictet, *Traité de Paléont.* iv, 1846, 218, xii, 1; and 2d ed. 1857, 483, cix, 2.
- _____ D'Orbigny, *Foram. Fossiles Vienne*, 1846, 22, i, 1.
- _____ D'Orbigny, *Cours élém. Paléont. etc.* i, 1849, 192, fig. 315; ii, fas. 2, 1852, 815, fig. 621.
- _____ Harting, *Magt van het Kleine*, 1849, iii, fig. 1; and 1866, 100, fig. 36; German by Dr. A. Schwartzkoff, 1851, 81.
- _____ Bailey, *Smithsonian Contrib.* ii, 1851, 9, pl., 1.
- _____ Costa, *Atti Accad. Pontaniana*, vii, fas. 2 (1856), 114, xi, 5a, A, B.
- _____ Dawson, *Canad. Nat.* ii, 1857, 422, vii, 21. [= *Lag. globosa*, W. & J.]
- _____ Williamson, *Recent British Foram.* 1858, 2, i, 4.
- _____ Mackie, *Recreative Science*, i, 1859, 147, fig. 8.
- _____ Carpenter, Parker, & Jones, *Introd. Foram.* 1862, 176, xii, 8.
- _____ Mangin, *Mystères Océan*, 1864, 177, fig. 10.
- _____ Parker & Jones, *Phil. Trans.* 1865, 364, xvi, 13 and 14.
- _____ Reuss' Models, No. 74, 1865. (*Catal.*, No. 92, 1861.)
- _____ Mackie, *Science Gossip*, 1867, 129, fig. 104.
- _____ Figuier, *Ocean World*, [1873], p. 84, fig. 17.
- _____ Wy. Thomson, *Depths of Sea*, 1873, 23, fig. 3.
- _____ Toulou, *Mitth. geogr. Ges. Wien*, xviii, 1875, 165, pl., 12.
- _____ Wy. Thomson, *Proc. Roy. Soc.* xxiii, 1875, 35, ii.
- _____ Terquem, *Ess. Anim. Plage Dunkerque*, pt. 2, 1876, 67, vii, 1; (and *Mém. Soc. Dunkerquoise*).
- _____ Anon., *Amer. Journ. Micros.* i, 1876, 128, figs. 2 and 3.
- _____ Zittel, *Handbuch Palaeont.* i, 1876, 88, fig. 241.
- _____ Tate & Blake, *Yorkshire Lias*, 1876, 472, xviii, 32.
- _____ Schwager, *Boll. R. Com. Geol. Ital.* viii, 1877, 26, pl., 45.
- _____ Wy. Thomson, *Voyage Challenger*, 1877, ii, 215, fig. 47.
- _____? Hopkins, *Execut. Doc. 45 Congress, Sess. 3, iv, Rpt. Chief Engineers*, pt. 2, App. W, 1878-79, 885, ii, 73.
- _____ Nicholson, *Manual Palaeont.* 1879, i, 100, fig. 14.
- _____ Bütschli, in *Bronn, Klassen, etc. Thier-Reichs*, 1880, 201, vii, 30.
- _____ Abich, *Geol. Forsch. Kaukas. Ländern*, 1882, 241, fig. 40.
- _____ Terqueni, *Mém. Soc. géol. France*, [3], ii, 1882, 24, 1 (ix), 1.
- _____ Schlumberger, *F. Jeun. Nat.*, Jany. 1882, i, 1.
- _____ Jones, in *Microgr. Dict.* ed. 4, 1883, 557, xxiv, 1.
- _____ Schlumberger, *Comptes Rendus*, xcvi, 1884, 1002, figs. 1 and 2; and *Ann. Mag. Nat. Hist.* [5], xiv, 1884, 69.
- _____ Brady, *Report Challenger*, 1884, 608, lxxviii; lxxxi, 8-26; lxxxii, 1-3; double specimens, lxxxii, 20 and 21; lxxxii, 2 and 3.
- _____ Woodward & Thomas, *13 Ann. Rep. Geol. N. H. Survey Minnesota*, for 1884 (1885), 174, iv, 25-31.
- _____ Gumbel, *Geol. Bayern*, Th. i, Lief. 2, 1885, fig. 266, 14.
- _____ Quenstedt, *Handbuch Petref. ed. 3, Abth. v* (1885), 1049, lxxxvi, 1.
- _____ Sherborn & Chapman, *Journ. R. Micr. Soc.* [2], vi, 1886, 756, xvi, 9.
- _____ Hogg, *Microscope*, 1886, 384, iii, 75, 76, and 78.
- _____ Malagoli, *Boll. Soc. geol. Ital.* vi, 1887, 522, xiii, 9.
- _____ Agassiz, *Three Cruises "Blake,"* ii, 1888, 166, fig. 510 and 512.
- _____ Brady, Parker, & Jones, *Trans. Zool. Soc.* xii, pt. 7, 1888, 225, xlv, 7, 8, 14.
- _____ D'Orbigny. See *Sphaerulæ vitæ*.

- ORBICULINA**, Ledermüller, Mikrosk. Gemüths. 1763, 8, iv, *n, m*.
 ——— Wallich, North Atlantic Sea-bed, pt. I, 1862, no descr. vi, 10, 13–15. [Structural.]
 ——— Alecock, Mem. Lit. Phil. Soc. Manchester, [3], III, 1868, iv, 1 and 2.
 ——— Chinnmo, Bed of Atlantic, [1870], 25, ix, 3.
 ——— Wallich, Deep Sea Researches, Biol. Globigerina, 1876, 1, etc. plate, 10, 13–15. [Structural.]
 ? ——— Terquem, Bull. Soc. géol. France, [3], VIII, 1880, 417, xi, 6a–c. [Spinous spheres.]
 ——— showing within a small prickly *Globigerina*. Schaacko, Arch. f. Naturgesch. (Wiegmann's), 1883 (49th Jahrg.), i, 429 etc. xiii, 1.
 ——— Neunayr, Stämme d. Thierreiches, I, 1889 (8), 187, fig. 28b.
 ——— (hispid varr.) see *Sphaerulæ hispidæ*.
 ——— v. *Miliola*.
- “**Orbuline lituola**.” Carpenter, The Microscope, 5th ed. 1875, 533, fig. 273a, *b*.
 [= *Thurammia papillata*, q. v.]
- ORBULITES**, Lamarek, 1812. Extrait Cours Zoöl. 1812, p. 26 ; and Syst. Anim. s. Vert. II, 1816, p. 196. [Non 1801. See Bronn, Index Pal. 1848, p. 850.]
 ——— **complanata**, Lamarek. Syst. Anim. s. Vert. II, 1816, p. 196. [*Orbitolites*, 1801.]
 ——— ——— Schweigger, Beob. Naturh. Reisen, 1819 [131], vi, 59.
 ——— ——— Lamouroux, Exposit. method. Ordre Polypiers, 1821, 45, lxxiii, 13–16.
 ——— **concava**, Lamarek. Syst. Anim. s. Vert. II, 1816, p. 197. [*Orbitolites*, 1801.]
 ——— **lenticulata**, Lamarek. Syst. Anim. s. Vert. II, 1816, p. 197.
 ——— ——— Lamouroux, Exposit. method. Ordre Polypiers, 1821, 45, lxxii, 13–16.
 ——— **macropora**, Lamarek. Syst. Anim. s. Vert. II, 1816, 197, No. 5.
 ——— **marginalis**, Lamarek. Syst. Anim. s. Vert. II, 1816, p. 196, No. 1.
 ——— **planulatus**, Blainville. Dict. Sci. Nat. xxxvi, 1825, 295 ; Atlas, Zooph. xlvii, 2. [= *Orbitolites complanata*.]
 ——— ——— Blainville, Actinologie, 1834, lxxii, 2.
 ——— see *Orbitolina* ; *Orbiculina* ; *Orbitolites* ; *Orbitulites* ; *Orbiculites* ; *Orbitulina*.
- OREAS**, Montfort, 1808. Conch. Syst. I, 1808, p. 95.
 ——— **auricularis**, Blainville. Dict. Sci. Nat. xxxii, 1824, 188 ; xxxvi, 1825, 155 ; Atlas, Conch. xix, 4. [= *Crist. acutaauricularis* (F. & M.).]
 ——— ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 384, x, 4.
 ——— **subulatus**, Montfort. Conch. Syst. I, 1808, 95, 24th genre. [= *Crist. acutaauricularis*.]
- OROBIAS**, Eichwald, 1860. Lethaea Rossica, I, 1860, 352. [= *Nummulina*.]
 ——— **aequalis**, Eichwald. Lethaea Rossica, I, 1860, 353, xxii, 16. [See *Fusulina*.]
 ——— **antiquior** (Rouiller & Vosinsky). Eichwald, Lethaea Rossica, I, 1860, 353, no fig. [= *Nummulina*, 1849.]
- ORTHOCERA**, Lamarek, 1801. Syst. Anim. s. Vert. 1801, p. 103.
 ——— **acicula**, Lamarek. Hist. Anim. s. Vert. VII, 1822, p. 594, No. 5. [v. also *Nodosaria* and *Dentalina*.]
 ——— **costata** [Montagu]. Brown, Illustr. Conch. Gt. Brit. 1827, fly-leaf, lii, 17 and 24. [*Nautilus*, 1803.]
 ——— ——— Brown, Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, i, 17.
 ——— **fascia** (Linn.). Lamarek, Hist. Anim. s. Vert. VII, 1822, p. 594. [*Nautilus*, 1758.]

- ORTHOCERA** *jugosa* [Montagu]. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 13. [*Nautilus*, 1803.]
- Brown, *Illustr. Recent Conch. Gt. Brit. ed. 2*, 1844, 2, i, 13.
- *legumen* [Linn.]. Lamareck, *Ency. Méthod.*, "Vers," n. d. (pls. 1827), 465, f. 3. (P. & J. quote pt. 23, 1816.) [*Nautilus*, 1758.]
- Lamareck, *Hist. Anim. s. Vert.* vii, 1822, p. 595. [*Nautilus*, 1758.]
- Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 21 and 23.
- *linearis* [Montagu]. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 14 and 15. [*Nautilus*, 1808.]
- Brown, *Illustr. Recent Conch. Gt. Brit. ed. 2*, 1844, 2, i, 14 and 15.
- *obliqua* (Linn.). Lamareck, *Hist. Anim. s. Vert.* vii, 1822, p. 594. [*Nautilus*, 1758.]
- *radicula* [Linn.]. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 28 and 25. [*Nautilus*, 1758.]
- *raphanistrum* (Linn.). Lamareck, *Hist. Anim. s. Vert.* vii, 1822, p. 594. [*Nautilus*, 1758.]
- *raphanoides*, Lamareck. *Syst. Anim. s. Vert.* 1801, p. 103. [v. *O. raphanus*.]
- *raphanus* [Linn.]. Lamareck, *Ency. Méthod.*, "Vers," n. d. (pls. 1827), 465, f. 2. (P. & J. quote pt. 23, 1816.) [*Nautilus*, 1758.]
- [Lam.]. Bronn, *Syst. urweltl. Conchyl.* 1824, 9, i, 2 [error for 1].
- Crouch, *Introd. Lamareck*, 1827, 39, xx, 5.
- Brown, *Conch. Text-book*, 1839, 65, x, 28.
- *recta* [Montagu]. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 16, 19, 20. [*Nautilus*, 1803.]
- Brown, *Illustr. Recent Conch. Gt. Brit. ed. 2*, 1844, 2, i, 16, 19, 20.
- *septemcostata*, Brown. *Illustr. Recent Conch. Gt. Brit. ed. 2*, 1844, 2, i, 24. [= Montagu, pl. 19, f. 2.]
- *spinulosa* [Montagu]. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 26. [*Nautilus*, 1808.]
- *subarcuata*, Brown. *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 18. [v. also *Nodosaria*.]
- Woodward, *Outline Geology Norfolk*, 1833 [60], vi, 24. [Flint cast of interior of a *Nodosaria*.]
- ORTHOCERAS**, anct.
- *auris*, Soldani. *Testac.* i, pt. 2, 1791, p. 98, pl. 104A. [*Planularia auris*, Defr. D'Orb., *Ann. Sci. Nat.* vii, 1826, p. 260, 6.] [= *Cristellaria*, q. v.]
- *baculus*, Sold. *Testac.* ii, 1798, p. 16, pl. 2v, x. [*Nod. glabra*, d'O. *Ann. Sci. Nat.* vii, 1826, p. 253, no. 12.]
- *corniculum*, Sold. *Testac.* i, pt. 2, 1791, p. 98, pl. 105K. [*Nod. (Dent.) cornicula* [error for *corniculum*, Jones MS.], d'O. *Ann. Sci. Nat.* vii, 1826, p. 255, 47.]
- *cuspis*, Sold. *Testac.* ii, 1798, 34, pl. 9P. [*Frondic. digitata*, d'O. *Ann. Sci. Nat.* vii, 1826, p. 256, 6.]
- *Testac.* ii, 1798, 34, pl. 9Q, R. [*Frondic. striata*, d'O. *Ann. Sci. Nat.* vii, 1826, p. 256, 3.]
- *Testac.* ii, 1798, 34, pl. 9S. [*Frondic. pupa*, d'O. *Ann. Sci. Nat.* vii, 1826, p. 256, 4.]
- *Testac.* i, pt. 2, 1791, p. 98, pl. 105L. [*Nod. (Dent.) aciculata*, d'O. *Ann. Sci. Nat.* vii, 1826, p. 255, 41.]
- *decussata*, Perry. *Conchology*, 1811, pl. lii, fig. 2.
- *farcimen*, Sold. *Testac.* ii, 1798, 35, pl. 10h-m. [*Nodos. ovicula*, d'O. *Ann. Sci. Nat.* vii, 1826, 252, 6.]

- ORTHO CERAS** *farcimen*, Soldani. Testac. I, pt. 2, 1791, p. 98, pl. 105O.
 [Nod. (Dent.) *communis*, d'O. Ann. Sci. Nat. VII, 1826, p. 254, 35.]
- *foeniculum*, Sold. Testac. I, pt. 2, 1791, p. 91, pl. 94Z. [Nodos. *affinis*, d'O. For. Foss. Vienne, 1846, p. 39, i, 36-39.]
- *gazellicorne*, Spalowsky. Testac. 1795, 10, i, 10.
- *intortum*, Sold. Testac. I, pt. 2, 1791, p. 98, pl. 105V. [Nod. (Dent.) *obliqua*, d'O. Ann. Sci. Nat. VII, 1826, p. 254, 36.]
- *mammillare*, Sold. Testac. I, pt. 2, 1791, p. 92, pl. 97ee.
 [Nod. (Dent.) *arcuata*, d'O. Ann. Sci. Nat. VII, 1826, p. 254, 38.]
- *marinum verissimum et quidem species ejus quattuor*. Breyn, in Giuliani's Mem. sopra Fis. Ist. Nat. Valent. 1743, p. 185, plate, fig. D. [Reproduced by Klein, Vers. Abh. Nat. Ges. Dantzig, Th. 2, 1754, pl. i, the 3d fig. from the right.]
- *minimum*, etc. [4 varieties described; 2 referred to Plancus, and one to Breyn.] = "*N. raphanus* [Linn.], 1164; *N. obliquus* [Linn.], 1163; *N. fuscia* [Linn.], 1164; *N. legumen* [Linn.], 1164; *N. siphunculus* [Linn.], 1164; MS. note in Brit. Mus. Copy." Gualteri, Index Test. Conchyl. 1742, tab. xix, L to S.
- *monile*, Sold. Testac. II, 1798, 35, pl. 10b, c. [Nod. *pyrula*, d'O. Ann. Sci. Nat. VII, 1826, p. 253, 13.] [v. *Nodosarina*.]
- *obliquum*, Sold. Testac. I, pt. 2, 1791, p. 98, pl. 105N. [Nod. (Dent.) *carinata*, d'O. Ann. Sci. Nat. VII, 1826, p. 255, 39.]
- *pupa*, Sold. Testac. I, pt. 2, 1791, p. 99, pl. 108E, F. [*Lingul. soldanii*, d'O. Ann. Sci. Nat. VII, 1826, p. 257, 3. = *Vulvulina capreolus*, D'O. The whole plate (108) is devoted to this species.]
- *quasi ex globulis compositum*. Breyn, in Giuliani's Mem. sopra Fis. Ist. Nat. Valent. 1743, p. 184, etc. plate, figures A and B. [Reproduced by Klein, Vers. Abh. Nat. Ges. Dantzig, Th. 2, 1754, pl. i, the 2 figs. on right side.]
- *varietas raphani vel raphanistri*, Sold. Testac. I, pt. 2, 1791, p. 97, pl. 103I. [Nod. (Dent.) *cuvieri*, d'O. Ann. Sci. Nat. VII, 1826, p. 255, 45.]
- *rapistrum (num raphani vel raphanistri species?)*, Sold. Testac. I, pt. 2, 1791, p. 98, pl. 104i (I). [Nodos. *soldanii*, d'O. Ann. Sci. Nat. VII, 1826, p. 254, 10.]
- *scalaria*, Perry. Conchology, 1811, pl. lii, fig. 1.
- *serrula*, Sold. Testac. I, pt. 2, 1791, p. 99, pl. 106aa, bb. [*Marginulina lituus*, d'O. Ann. Sci. Nat. VII, 1826, p. 259, 11.]
- *sublituus*, Sold. Testac. I, pt. 2, 1791, p. 98, pl. 104F, G. [*Marginulina sublituus*, d'O. Ann. Sci. Nat. VII, 1826, p. 259, 9.]
- *tuberosum*, Sold. Testac. I, pt. 2, 1791, p. 99, pl. 106gg. [*Dimorphina tuberosa*, d'O. Ann. Sci. Nat. VII, 1826, p. 264, 1.]
- *turbinatum et striatum exiguum*. Breyn, in Giuliani's Mem. sopra Fis. Ist. Nat. Valent. 1743, p. 185, plate, fig. C. [Reproduced by Klein, Vers. Abh. Nat. Ges. Dantzig, Th. 2, 1754, pl. i, the 4th fig. from the right.]
- *vaginulæ species*, Sold. Testac. I, pt. 2, 1791, p. 97, pl. 103M. [*Vaginulina marginata*, d'O. Ann. Sci. Nat. VII, 1826, p. 258, 7.]
- Sold., Testac. I, pt. 2, 1791, 92, pl. 96T. [Nod. *semistriata*, d'O. Ann. Sci. Nat. VII, 1826, 252, 9.]
- ? Sold., Testac. I, pt. 3, 1795, p. 239, pl. 162K. [Nod. (Dent.) *scorpiurus*, Montf. D'Orb., Ann. Sci. Nat. VII, 1826, p. 255, 40.] [*Lituola scorpiurus*.]
- Sold., Testac. I, pt. 2, 1791, p. 91, pl. 94S. [Nod. (Dent.) *substriata*, d'O. Ann. Sci. Nat. VII, 1826, p. 255, 46.]
- ORTHO CERATA** [? Soldani, 1780].
- *brevissima in longum striata, globulosa, conica, nec tamen perfecte acuminata*, Soldani. Sagg. Oritt. 1780, 107, v, 40X. [= *Nodos. bacillum*.]

- ORTHO CERATA** conico-cylindroidea, Soldani. Sagg. Oritt. 1780, 107, v, 37P. [= *Dentalina*.]
- crystallina, seu vere arundinea, Soldani. Sagg. Oritt. 1780, 107, vi, 42E. [= *Dentalina*.]
- perfecte conica in acutum apicem definita, circum nodosa striata, etc., Soldani. Sagg. Oritt. 1780, 107, v, 37Q. [= *Nodos. bacillum*.]
- perfecte globularia, quorum alia vitrea, lævis, . . . vel costata costis distantibus, lucidissima, . . . vel minima et microscopica . . ., Soldani. Sagg. Oritt. 1780, 108, vi, 43F-L. [43F, G, K, L, = *Nodos. radícula*; H = *Nodos. bacillum*; I = *Dentalina*.]
- seu tubuli concamerati, recti, longitudinaliter striati, cylindroidei, Soldani. Sagg. Oritt. 1780, 106, v, 37M, N, O. [= *Nodos. bacillum*.] [N = *D. obliquistriata*.]
- unilocularia, vel multilocularia, lævia, lucida . . ., Soldani. Sagg. Oritt. 1780, 108, vi, 45O-S; vii, 45T-Z and A. [45O = *Gland. lævigata*; P, R = *Polymorphina*; Q = *Sphæx. bulloides*; S = *Biloculina*; T, Y = Q; V = *Polymorph. communis*; X = *Polymorph. gutta*; Z = *Nodos. radícula*; A = *Polymorph. globularis*.]
- vaginulam gladii referentia, Soldani. Sagg. Oritt. 1780, 108, vi, 44M, N. [= *Vagin. legumen*.]
- ORTHO CERATIA**, Soldani, 1780.
- anthocenæ, Soldani. Testaceographia, II, 1798, 15, pl. 2N. [= *Nodos. glabra*.]
- — — Sold., Testac. II, 1798, 15, pl. 2O. [*Nodos. nitida*, d'O. Ann. Sci. Nat. VII, 1826, 254, 33.]
- baculi, Sold. Testac. I, 2, 1791, 96, pl. 102B. [*Nod. interrupta*, d'O. Ann. Sci. Nat. VII, 1826, 252, 11.]
- — — Sold., Testac. I, pt. 2, 1791, 96, pl. 103D. [*Bigenerina lævigata*, d'O. Ann. Sci. Nat. VII, 1826, 261, 3.]
- conico-cylindroidea, Sold. Sagg. Oritt. 1780, 107, pl. 5, 37m, M. [= *Nodos. affinis*, d'O.]
- filiformia, Sold. Testac. II, 1798, 35, pl. 10d. [*Nodos. flexuosa*, d'O. Ann. Sci. Nat. VII, 1826, 254, 32.]
- filiformia aut capillaria, Sold. Testac. II, 1798, 35, pl. 10f, g. [*Nodos. nodosa*, d'O. Ann. Sci. Nat. VII, 1826, 254, 31.]
- — — Sold., Testac. II, 1798, 35, pl. 10e. [*Nod. filiformis*, d'O. Ann. Sci. Nat. VII, 1826, 253, 14.]
- flosculi, Sold. Testac. I, pt. 2, 1791, 91, pl. 95A. [*Nodos. cancellata*, d'O. Ann. Sci. Nat. VII, 1826, 254, 29.]
- — — Sold., Testac. II, 1798, 34, pl. 9L. [*Dentalina floscula*, d'O. For. Foss. Vienne, 1846, 50, pl. 2, 16, 17.]
- — — Sold., Testac. I, pt. 2, 1791, 91, pl. 95B-M. [*Nodos. longicauda*, d'O. Ann. Sci. Nat. VII, 1826, 254, 28.]
- hispida, Sold. Testac. II, 1798, 36, pl. 11n-z, A and B. [*Nod. hirsuta*, d'Orb.]
- lævia, etc., Sold. Testac. I, pt. 2, 1791, 92, pl. 97bb [?]. [*Dentalina inornata*, d'O. For. Foss. Vienne, 1846, 44, i, 50, 51. D'Orbigny's reference is wrong.]
- lituitata, Sold. Testac. I, pt. 2, 1791, 95, pl. 100bb, cc. [*Marginulina lævigata*, d'O. Ann. Sci. Nat. VII, 1826, 259, 10.]
- pupa, Sold. Testac. I, pt. 2, 1791, 99, pl. 108D. [*Vulvulina elegans*, d'O. Ann. Sci. Nat. VII, 1826, 264, 3.]
- — — Sold., Testac. I, pt. 2, 1791, 99, pl. 108vv, xx. [*Vulvulina pupa*, d'O. Ann. Sci. Nat. VII, 1826, 264, 2.]
- quasi hispida, Sold. Testac. II, 1798, 15, pl. 2P. [*Nod. hirsuta*, d'O. Ann. Sci. Nat. VII, 1826, 252, 7.]

- ORTHO CERATIA raphanus, raphanistrum, et rapistrum**, Sold.
 Testac. I, pt. 2, 1791, 91, pl. 94*N, P, Q, R, X, Y*. [*N* = true *N. raphanus* ;
R = true *N. obliqua*.] [*Marginulina raphanus* (Linn.). D'Orb., Ann.
 Sci. Nat. VII, 1826, 258, 1.]
- **tuberosa**, Sold. Testac. I, pt. 2, 1791, 99, pl. 107*nn*. [*Polymorphina*
soldanii, d'O. Ann. Sci. Nat. VII, 1826, 265, 12.]
- ——— Sold., Testac. I, pt. 2, 1791, 99, pl. 107*kk*. [*Polymor-*
phina tuberosa, d'O. Ann. Sci. Nat. VII, 1826, 265, 6.]
- **vaginula**, Sold. Testac. II, 1798, 14, pl. 1*F, G*. [*Vaginulina caudata*,
 d'O. Ann. Sci. Nat. VII, 1826, 258, 8.]
- **villosa seu rudia**, Sold. Testac. I, pt. 2, 1791, 96, pl. 101*ll-oo*. [*Mar-*
ginulina hirsuta, d'O. Ann. Sci. Nat. VII, 1826, 259, 5.]
- **vitrea in longum striata, pellucida, minuscula**, Soldani. Sagg.
 Oritt. 1780, 107, v, 41*Z, Y, A, B, C, D*. [41*F* = *Dent.* ; *Z, A, B, C* =
Nodos. ; *D* = *Dentalina*.]
- **zoophytica elongata**, Sold. Testac. I, pt. 2, 1791, 92, pl. 97*hh, mm*.
 [*Marginulina carinata*, d'O. Ann. Sci. Nat. VII, 1826, 259, 8.]
- ——— **minuscula**, Sold. Testac. I, pt. 2, 1791, 93, pl. 98*A*. [*Nodos.*
dupia, d'O. Ann. Sci. Nat. VII, 1826, 252, 10.]
- ——— **subcordiformia**, Sold. Testac. I, pt. 2, 1791, 94, pl. 99*N*.
 [*Lingul. alata*, d'O. Ann. Sci. Nat. VII, 1826, 257, 2.]
- Sold., Testac. I, pt. 2, 1791, 91, pl. 94*T*. [*Nod. rapa*, Lam. D'Orb., Ann.
 Sci. Nat. VII, 1826, 253, 27. = *Nodos. raphanistrum* (Linn.).]
- Sold., Testac. I, pt. 2, 1791, 91, pl. 94*V*. [*Nod. scalaris*, d'O. Ann. Sci.
 Nat. VII, 1826, 253, 18.]
- ORTHO CERATITE**, Parkinson. Org. Rem. III, 1811, 117, viii, figs. 16 and
 17. [= *Nodos. bacillum*.]
- ORTHO CERATITEN**, Martini. Neues Syst. Conchyl. I, 1769, 4, pl. i, A to I,
 in text.
- ORTHO CERINA**,* d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 255 ; "Foram."
 in De la Sagra, Hist. etc. Cuba, 1839, 47.
- **clavulus** (Lamarek). See *Nodosaria*.
- ——— d'Orbigny, Ann. Sci. Nat. VII, 1826, 255, No. 48 ; and
 Modèles, No. 2, 1826.
- ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 652, xxiv, 26.
- ——— Mantell, Pictorial Atlas Foss. Rem. 1850, 143, lxii, 10.
- ——— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1050,
 lxxxvi, 8.
- **ewaldi**, Karsten. Amtlicher Ber. 32 Vers. deutsch. Nat. Aerzte, 1856
 (1858), 114, vi, 3*a, b, c* ; and Géol. Colomb. bolivarienne. 1886, 62, vi,
 3*a, b, c*. [Compare *Nodosaria millepunctata*, Toutkowsky, 1887.]
- [**OTHO CERINA**] **hæringense**, Gümb. Tate & Blake, Yorkshire Lias, 1876,
 469, xvii, 29, 29*a*. [*Rhabdogonium*, 1868.]
- **multicostata**, Bornemann. Lias v. Göttingen, 1854, 35, iii, 14*a, b, 15a, b*.
- (**Triplasia**) **murchisoni**, Reuss. Carpenter, Parker, & Jones, Introd.
 Foram. 1862, 166, xii, 7. [*Triplasia*, 1854.]
- **pupoides**, Bornemann. Lias von Göttingen, 1854, 35, iii, 16*a, b*.
- **quadrilatera**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839,
 "Foraminifères," 18, i, 11 and 12 ; also in Spanish, 1840, 47, same pl.
 and fig. [*O. quadrilatera* in Spanish ed.]
- ——— d'Orbigny, Foram. Fossiles Vienne, 1846, 41, xxi, 3 and 4.
- ——— Reuss' Models, No. 21, 1865. (Catal. No. 39, 1861.)
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 4.
- ——— Jones, in Microgr. Dict. ed. 4, 1883, 559, xxiii, 36*a, b*.
- [**OTHO CERINA**] **rhomboidalis**, Tate & Blake. Yorkshire Lias, 1876, 470,
 xvii, 30, 30*a*.
- **septentrionale**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881,
 111, xiii, 5*a, b* ; (and Mém. Soc. Dunkerquoise).

* Given by d'Orbigny as a subgenus of *Nodosaria*.

- ORTHO CERINA**, sp. Dunikowski, Denkschr. k. Ak. Wiss. Wien, XLV, Abth. 2, 1882, 194, vi, 79.
 ——— Pietet, Traité de Paléont. iv, 1846, 219, xii, 3.
- ORTHO CEROS**, Mendes da Costa, Elem. Conch. 1776, 156, ii, 12 and 13.
- ORTHO PLECTA**, Brady, 1884. Report Challenger, 1884, 428.
 ——— *clavata*, Brady. See *Cassidulina*.
- ORYZARIA**, DeFrance, 1820. Dict. Sci. Nat. xvi, 1820, 106.
 ——— *bosicii*, DeFrance. Dict. Sci. Nat. xvi, 1820, 106; Atlas, Zooph. xlviii, 4. [= *Alveolina sabulosa*.] [See *Borelis*, and *Alveolina*.]
 ——— ——— Bromm, Syst. urweltl. Pflanzenthiere, 1825, 31, vii, 17a-c.
 ——— ——— Blainville, Actinologie, 1834, lxxiii, 4.
- OTHOCERINA**, Tate & Blake, 1876, error for *Orthocerina*.
- OTOSTOMUM**, Ehrenberg, 1872. Monatsber. k. preuss. Ak. Wiss. Berlin, 1872, 276. [= ? *Bifarina*, Parker & Jones.]
 ——— *strophoconus*, Ehr. Monatsber. k. preuss. Ak. Wiss. Berlin, 1872, 287.
- “Ova of *Polythalamia* ?” Bailey, Smithsonian Contrib. II, 1851, 13, pl., 49.
- OVEOLITES** *margaritula*, Montfort. Conch. Syst. II, 1810, 363, 91st genre. [= *Ovulites* of Lamarek.]
- OVOLINA**, Terquem, 1866. [= *Lagena*.]
 ——— *elliptica*, Terquem. Six. Mém. Foram. Lias, 1866, 473, xix, 1.
 ——— *trigonula*, Terquem. Six. Mém. Foram. Lias, 1866, 473, xix, 2.
- OVULIDA**, de Folin. Le Naturaliste, Ann. 9, 1887, 114, fig. Sa, b, c. [= ? *Lagena*.]
- OVULINA**, Ehrenberg, 1854. Mikrogeologie, 1854, pls.
 ——— *clava*, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 2b. [= *Lag. clavata*, d'Orb.]
 ——— *caudigera*, Seguenza. Foram. monotal. miocen. Messina, 1862, 39, i, 3. [= *L. apiculata*, Rss.]
 ——— *elegantissima*, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 316, xii, 1.
 ——— *lacryma*, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 317, xii, 2.
 ——— *ornata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 42, i, 12. [= *L. squamosa*, Montf.]
 ——— *ovata*, Schafhäütl. Geogn. Unters. südbayer. Alpengeb. 1851, 48, xiii [misprinted xviii in text], fig. 1, [? an “oolitic granule,” not a Foraminifer].
 ——— *perforata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 40, i, 4. [= *L. apiculata*, Rss.]
 ——— *radiata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 40, i, 5.
 ——— *reticulata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 42, i, 11. [= *L. melo*, d'Orb.]
 ——— *striata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 40, i, 6 and 7. [= *Lagena striata*, d'Orb.]
 ——— *sulcata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 41, i, 8-10. [= *Lagena sulcata*, W. & J.]
 ——— *tenuis*, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 317, xii, 3, 3*.
- OVULINA**, Gruber, 1884. Nova Acta k. Leop.-Carol. deutsch. Ak. Nat. XLVI, 1884, 497. [One of the *Diffugiæ*.]
 ——— *urnula*, Gruber. Nova Acta k. Leop.-Carol. deutsch. Ak. Nat. XLVI, 1884, 497, viii, 19 and 20.
- OVULITES**, Lamarek, 1812. Extrait Cours Zool. 1812, 26; and Hist. Anim. s. Vert. II, 1816, 194; Munier-Chalmas, “Siphonées dichotomes,” Bull. Soc. géol. France, [3], VII, 1878, 661-670, figs. 1-4; [= *Coralliodendron*, a genus of calcareous Algæ. See Solms-Laubach, Einleit. Palaeophytologie, 1887, 38, etc.]
 ——— *elongata*, Lamarck. Hist. Anim. s. Vert. II, 1816, 194.

- OVULINA elongata**, Lamarek. Eney. Méthod., "Vers," (1830), n. d., 479, f. 8 (pls. 1827), (P. & J. quote pt. 23, 1816).
 ————— Defrance, Dict. Sci. Nat. xxxvii, 1825, 134; Atlas,
 Zooph. xlviii, 3.
 ————— Blainville, Actinologie, 1834, lxxiii, 3.
 ————— Carpenter, Parker, & Jones, Introd. Foram. 1862, 179,
 xii, 10.
 ————— Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 146,
 xxix (6), 22a, b.
 ————— **globulosa**, Defrance. Dict. Sci. Nat. xxxvii, 1825, 134.
 ————— **margaritula**, Lamarek. Hist. Anim. s. Vert. II, 1816, p. 194.
 ————— Lamarek, Eney. Méthod., "Vers," n. d., 479, f. 7 (pls.
 1827), (P. & J. quote pt. 23, 1816).
 ————— Schweigger, Beob. Naturh. Reisen, 1819 [131], vi, 58.
 ————— Defrance, Dict. Sci. Nat. xxxvii, 1825, 134; Atlas,
 Zooph. xlviii, 2; 1, 6.
 ————— Blainville, Actinologie, 1834, lxxiii, 2; lxxv, 6.
 ————— Reuss, in Geinitz, Grundr. Verstein. 1846, 634, xxiii, 59.
 ————— [**margaritifera**], ————— Carpenter, Parker, & Jones, Introd. Foram.
 1862, 179, xii, 9 and 10.
 ————— [**margaritacea**], ————— Reuss' Models, No. 15, 1865 (Catal., No. 32,
 1861).
 ————— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl.,
 46.
 ————— **pyriformis**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 146,
 xxix (6), 21a-d.
 ————— Lamouroux, Exposit. method. Ordre Polypiers, 1821, 43, etc. pl. 71.
 ————— Bronn, Syst. urwelt. Pflanzenhiere, 23.
 ————— Goldfuss, Petrif. German. 1826, 40.
 ? ————— Schwager, Novara-Exped., Geol. Theil II, 1866, 205, v, 26. [= chamber
 of *Nodos. intercellularis*, Br.]
 ————— see *Orcolites*.
- PALMULA**, Lea. Contrib. to Geology, 1833, 219. [= *Fronidularia*.]
 ————— **sagittaria**, Lea. Contrib. to Geology, 1833, 219, vi, 228. [See *Fronidularia*.]
- PANDERELLA involutina**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss.
 Berlin, 1862, 600, plate, fig. 1.
- PARKERIA**, Carpenter & Brady, Phil. Trans. 1869, 724-736, lxxii-lxxvi. [*P.*
sphaerica is the only species yet described.]
 ————— **sphaerica**, Carpenter & Brady. Carter, Ann. Mag. Nat. Hist. [4], xix,
 1877, 55, viii, 13-17.
 ————— Steinmann, Palaeontographica, xxv, 1878, 118.
 ————— Haeckel, Das Protistenreich, 1878, 37, fig. 23.
 ————— Carpenter, Eney. Brit. 9th ed. ix, 1879, Foraminifera, 376, 7.
 ————— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 208, v, 23.
 ————— Carpenter, The Microscope, ed. 6, 1881, 565, fig. 323, 324.
 ————— Nicholson, Annals Mag. Nat. Hist. [6], I, 1888, 1.
 ————— Carter, *ibid.* 6, II, 1888, 45.
 ————— Nicholson, Manual Palaeont. ed. 3, 1889, i, 199.
- PATELLINA**, Williamson, 1858. Recent British Foram. 1858, 46; Brady, Report
 Challenger, 1884, 633.
- [*Note.* For further information concerning *Patellina* refer to Carpenter, Parker, and Jones, Introd.
 Foram. 1862, 229; Ann. Mag. Nat. Hist. [3], xii, 1863, 212; Catal. Foss. Foram. Brit. Mus. 1882, 84. The
 following forms are therein referred to this genus:—*Orbitolina conica*, d'Arch.; *O. conoidea*, Gras;
Conulites cooki, Carter; *Cyclolina cretacea*, d'Orb.; *Orbitolina discoidea*, Gras; *O. gigantea*, d'Orb.;
Madreporites lenticularis, Blum.; *Orbitolina mamillata*, d'Arch.; *Cyclolina pedunculata*, Carter; *Orbito-
 lina plana*, d'Arch.]
- **annularis**, P. & J. Catal. Foss. Foram. Brit. Mus. 1882, 84. [*Orbitolina*,
 1860.]

- PATELLINA** *bradyana*, Howchin. Journ. R. Microsc. Soc. 1888, 544, ix, 22-25.
 ——— *campanæformis*, Brady. Report Challenger, 1884, 635, cut, 19*a*, *b*, *c*.
 ——— *concava* (Lam.). Zittel, Handbuch Palæont. Abth. I, 1876, 96, fig. 35.
 [*Orbulites*, 1816.]
 ——— *concava* (Lam.), var. *lenticularis*, Blumenbach. See *Madreporites*.
 ——— *corrugata*, Williamson. Recent British Foram. 1858, 46, iii, 86-89.
 ——— ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 229,
 xiii, 16, 17; figs. xxxvii and xxxviii, in text.
 ——— ——— Parker & Jones, Phil. Trans. 1865, 398, xv, 29*a*, 29*b*, 29*c*.
 ——— ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 31,
 iv, 3*a*, *b*; (and Mém. Soc. Dunkerquoise).
 ——— ——— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 26, pl., 58.
 ——— ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 208,
 ix, 9.
 ——— ——— Jones, in Microgr. Diet. ed. 4, 1883, 580, xxiv, 8.
 ——— ——— Brady, Report Challenger, 1884, 634, lxxxvi, 1-7.
 ——— *dentata*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 123, xii (xx),
 36, 37.
 ——— *major*, Hantken. Math. Nat. Ber. Ungarn, III, 1885, 885.
 ——— *minor*, Hantken. Math. Nat. Ber. Ungarn, III, 1885, 885.
 ——— *nitida*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 123, xii (xx),
 38*a-e*.
 ——— *oolithica*, Terquem. Cinq. Mém. Foram. Oolithique, 1883, 382, xlv, 3*a*,
 b, *c*, and 4.
 ——— ——— Terq., Mém. Soc. géol. France, [3], IV, 1886, 59, vii, 2-4.
 ——— *plicata*, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 72, viii, 9*a*,
 b; (and Mém. Soc. Dunkerquoise). [See *Trochammina*.]
 ——— *punctata*, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 128,
 xvi, 9*a*, *b*; (and Mém. Soc. Dunkerquoise).
 ——— *scutum*, v. Fritsch. Palæontographica, Supp. III, Lief. 1, 1878, 144,
 xviii, 15; xix, 2.
 ——— *simplex*, P. & J. Catal. Foss. Foram. Brit. Mus. 1882, 84. [*Orbitolina*,
 1860.]
 ——— *semiannularis*, P. & J. Catal. Foss. Foram. Brit. Mus. 1882, 84.
 [*Orbitolina*, 1860.]
 ——— *trochus*, v. Fritsch. Palæontographica, Supp. III, Lief. 1, 1878, 145,
 xviii, 16; xix, 1.
- PATROCLES** *querelans*, Montfort. Conch. Syst. I, 1808, 219, 55th genre.
 [= *Crist. calcar (rotulata)*.]
- PAVONIA**. See *Pavonina*, d'Orb.
- PAVONINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 260; Brady, Report
 Challenger, 1884, 374.
 ——— *flabelliformis*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 260, x, 10, 11.
 ——— ——— D'Orbigny, Modèles, No. 56, 1826.
 ——— ——— Cuvier, Règne Animal, 1836-46, IX (pls. x), 35, xv, 13.
 ——— ——— Smedley, Ency. Metrop. 1845, n. d., pl. "Mollusca?" 6.
 ——— ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 72, xxi, 9 and
 10. [*P. flabelloides* on plate.]
 ——— [*flabelloides*], ——— Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 72,
 vi, 13*a*, *b*.
- [**PAVONIA**] ——— P., J., & B. [D'O., Modèles, No. 56], Ann. Mag.
 Nat. Hist. [3], XVI, 1865, 27, I, 22.
 ——— [*flabelloides*], ——— Reuss' Models, No. 57, 1865 (Catal., No. 28,
 1861).
 ——— ——— Brady, Q. Journ. Mier. Sci. XIX, 1879, 282, viii, 29, 30.
 ——— [*flabelloides*], ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs,
 1880, 204, viii, 13.
 ——— ——— Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880,
 91, viii, 13-15.

- PAVONINA flabelliformis**, d'Orbigny. Brady, Report Challenger, 1884, 374, xlv, 17-22.
 ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 161, fig.
 ——— **italica**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 178, xvi, 26, 27, and 28. [See also *Orbitolites*, and *O. tenuissima*.]
 ——— **liburnica**, Stache. Abh. k. k. geol. Reichs. XIII, 1889, 89, va, 15-19 (19 v. *trilobata*).
 ——— (*Cuneolina*, d'Orb.) **triangularis**, Mackie. Recreative Science, I, 1859, 148, fig. 29. [= *Cuneolina pavonia*, d'Orb.]
- PELORUS**, Montfort, 1808. Conch. Syst. I, 1808, 23, 6th genre. [= *Polyst. ambigua*.]
- PELOSINA**, Brady, 1879. Quart. Journ. Micr. Sci. XIX, 1879, p. 30; Brady, Report Challenger, 1884, 235.
 ——— **cylindrica**, Brady. Report Challenger, 1884, 236, xxvi, 1-6.
 ——— **rotundata**, Brady. Quart. Journ. Micr. Sci. XIX, 1879, 31, iii, 4 and 5.
 ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 194, v, 7.
 ——— Brady, Report Challenger, 1884, 236, xxv, 18-20.
 ——— **variabilis**, Brady. Quart. Journ. Micr. Sci. XIX, 1879, 30, iii, 1, 2, 3.
 ——— Brady, Report Challenger, 1884, 235, xxvi, 7-9.
 ——— De Folin, Bull. Soc. N. H. Toulouse, xv, 1881, 139; 8 new species proposed but not described!
- PENEROLOPLIS**, Mantell, 1850, misprint for *Peneroplis*.
- PENEROPLIS**, Montfort, 1808. Conch. Syst. 1808, 65th genre, 259; Brady, Report Challenger, 1884, p. 203.
 ——— **arietinus** (Batsch). Brady, Report Challenger, 1884, 204, xiii, 18, 19, and 22. [*Nautilus*, 1791.]
 ——— Anon., Sci. News, Ap. 27, 1888, 389, fig. 1.
 ——— **aspergilla**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. I, 1868, 154, iii, 9.
 ——— **auris** (Defr.). Defrance, Dict. Sci. Nat. XXXII, 1824, 178; Atlas, Conch. xiv, 5. [= *Planularia auris*, Defr., q. v.]
 ——— Blainville, Manuel Malac. et Conch., 1825 (pls. 1827), 371, vi, 1 [error for 5].
 ——— (*Spirolina*, d'Orb.), **austriaca**, Mackie. Recreative Science, I, 1859, 148, fig. 28. [See *Spirolina*.]
 ——— **carinatus**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 33, iii, 7 and 8.
 ——— Brady, Report Challenger, 1884, 205, xiii, 14.
 ——— **cylindraceus**, (Lam.). Brady, Report Challenger, 1884, 204, xiii, 20 and 21. [*Spirolinites*, 1804.]
 ——— **d'orbignii**, Roemer. Verstein. norddeutsch. Oolith., Nachtrag, 1839, 47, xx, 31. [= *Cristellaria*, compare *C. reticulata*, Schwager, as fig'd by Terquem, Bull. Soc. géol. France, [3], iv, 1876, 494, xvii, 1 and 2.]
 ——— **dubius**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 62, vi, 21 and 22; also in Spanish, 1840, 79, same pl. and fig.
 ——— **elegans**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 61, vii, 1 and 2; also in Spanish, 1840, 79, same pl. and fig.
 ——— **elliptica**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 286, No. 2.
 ——— **fleuriausii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 286, No. 4. [See also *Cristellaria fleuriausii*.]
 ——— **gervillei**, d'Orb., 1847. Prodrome de Paléont. II, 1850, 406, No. 1307.
 ——— **lævigata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 286, No. 3.
 ——— **lævigatus**, Karrer. Brady, Report Challenger, 1884, 205, xiii, 12 and 13. [See *P. planatus*, var.]
 ——— **lanatus**, Montfort. Conch. Syst. I, 1808, 259, 65th genre. [See *P. planatus*.]

- PENEROPLIS** *laubei*, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 154, iii, 8.
- *liburnica*, Stache. Abh. k. k. geol. Reichs. XIII, 1889, 89, va, 20, 21 (v. *acanthina*); 22 (v. *strangulata*); 23 (v. *lævigata*); 24 (v. *lata*).
- *lituus* (Gmelin). Brady, Report Challenger, 1884, 205, xiii, 24, 25 (?). [*Nautilus*, 1788.]
- *opercularis* [Lamarek]. Mantell, Pictorial Atlas Foss. Rem. 1850, 143, lxii, 21. [*Renulites*, 1804.]
- [d'Orb.]. Terquem, Mém. Soc. géol. France, [3], II, 1882, 50, ii (x), 29a, b.
- *orbicularis*, d'Orbiguy. Ann. Sci. Nat. VII, 1826, 286, No. 5.
- *pertusus* (Förskal). P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 239, viii, 28. [See *P. planatus* (F. & M.).] [*Nautilus*, 1775.]
- Nicholson, Manual Palæont. 1879, i, 110, fig. 18c.
- Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 78, iii [numbered iv, by error], 9-12. [Structural.]
- Jones, in Microgr. Dict. ed. 4, 1883, 584, xxiii, 11a, b.
- Brady, Report Challenger, 1884, 204, xiii, 12-25.
- Bütschli, Morph. Jahrb. XI, 1886, 79, vi, 1-3, 11a, b.
- [Sarcode.]
- Anon., Sci. News, 27 Ap. 1888, 389, fig. 8.
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 216, xlii, 18, 19.
- [———] Costa, Fauna Regno Napoli, 1838, Foraminiferi, not descr., i, 1-3.
- See *Nautilus (Lituus) arietinus*, Batsch.
- var. *arietinus*, Batsch. See *Nautilus (Lituus)*.
- **planatus** (Fichtel & Moll). D'Orbigny, Ann. Sci. Nat. VII, 1826, 285, No. 1. [*Nautilus*, 1798; see also *P. lanatus*, Montfort.]
- D'Orbigny, Modèles, 1826, No. 16, and var., No. 48.
- [d'Orb.]. Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 9, ii, 9.
- [d'Orb.]. Cuvier, Animal Kingdom, Henderson's ed., III, 834 (pls. 1837), 18, iii, 9.
- [d'Orb.]. Cuvier, Règne Animal, 1836-46, IX (pls. x), 33, xv, 2.
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1838, 142, ii, 1.
- [= *P. pertusus* (Försk.).]
- Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 202, xxxv², 4a-d.
- Williamson, Recent British Foram. 1858, 45, iii, 83-85.
- [Montf.]. Reuss' Models, No. 91, 1865 (Catal., No. 23, 1861).
- P., J., & B. [D'O., Modèles, 16], Ann. Mag. Nat. Hist. [3], XVI, 1865, 21, i, 17. [= *P. pertusus*, Försk.]
- P., J., & B. [D'O., Modèles, 48], Ann. Mag. Nat. Hist. [3], XVI, 1865, 26, i, 18. [= *P. arietinus*, Batsch.]
- var. *lævigata*, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 153, iii, 7.
- [Montf.]. Zittel, Handbuch Palæont., Abth. I, 1876, 79, fig. 13².
- [Montf.]. Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 27, pl., 108.
- Schlumberger, F. Jeun. Nat., Jan. 1882, i, 13.
- Brady, Report Challenger, 1884, 204, xiii, 15.
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 162², figs.
- Bütschli, Morph. Jahrb. XI, 1886, 79, vi, 4. [Sarcode.]
- = *P. pertusus* (Förskal), see *Testæ hammoniformes* seu *lituitate similanæes*.
- ? —— **polystomatium**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 257.

- PENEROPLIS prisca**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxiii, 1864, 9, i, 7.
 ——— **protea**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 60, vii, 7-11; also in Spanish, 1840, p. 78, same pl. and fig. [*P. proteus* on plate and in Spanish edit.]
 ——— Schacko, Arch. f. Naturgesch. (Wiegmann's), 1883 (49th Jahrg.), i, 429, etc., xii, 1. [Showing the shell full of perfectly developed young.]
 ——— Schacko, Arch. f. Naturgesch. (Wiegmann's), 1883 (49th Jahrg.), i, 429, etc., xii, 2 and 3. [Embryos.]
 ——— **protocænica**, Stache. Abh. k. k. geol. Reichs. xiii, 1889, 89, va, 25, 26, 28-34, vi, 14-17.
 ——— **pulchellus**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 32, iii, 5 and 6.
 ——— Reuss' Models, No. 61, 1865 (Catal., No. 22, 1861.)
 ——— **rostrata**, Stache. Abh. k. k. geol. Reichs. xiii, 1889, 89, va, 27, vi, 13.
 [———] Martini, Neues Syst. Conchyl. i, 1769, 263, xx, 186 and 187.
 [———] Targioni, Relaz. d'alc. viaggi, iv, 1770, xv, i, 20. [See *Lituo.*]
 [———] see Spengler, Nye Saml. k. D. Bid. Selsk. Skr. i, 1781, 370, etc. [T. I.] figs. 4a, b, c, d, and 5a, b.
 [———] see Schroeter, Neue Litt. u. Beytr. i, 1784, 317, i, 9.
 [———] **varr.**, Soldani, Testac. i (1), 1789, 73, pls. 64, 65, 66, 67 (*rr, ss, tt*) = this genus.
 [———] Costa, Fauna Regno Napoli, 1838, Foraminiferi, not descr., i, 4 and 5.
 ——— Pictet, Traité de Paléont. iv, 1846, 230, xii, 12.
 ——— Williamson, Mem. Lit. Phil. Soc. Manchester, [2], viii, 1848, 44, pl., 31 and 32.
 ——— Carpenter, Phil. Trans. 1859 (2), pls. i and ii, and woodcuts in text, figs. i, ii, iii.
 ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 84, vii; figs. xix, xx, and xxi, in text. [Structural.]
 ——— Kölliker, Icones Histiologicae, 1864, 31. [Structural.]
 ——— Harting, Magt van het Kleine, 1866, 101, fig. 39.
 ——— Sollas, Nature (30 Nov. 1871), v, 83, figure. [Monstrous.]
 ——— Carpenter, Ency. Brit. 9th ed. ix, 1879, Foraminifera, 374, i, 5.
 ——— Carpenter, Ency. Brit. 9th ed. ix, 1879, Foraminifera, 377, fig. 8.
 ——— Bütschli, in Broun, Klassen, etc. Thier-Reichs, 1880, 191, v, 1.
 ——— Carpenter, Report Challenger, "Orbitoides," 1883, 44, fig. 7. [Structural.]
 ——— Carpenter, Journ. Quekett Microsc. Club, [2], ii, 1885, 95, fig. 7. [Structural.]
 ——— Neumayr, Stämme d. Thierreiches, i, 1889 (8), 179, fig. 21.
- PENTASYDERINA**, Nicolucci, 1846. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 205.
 ——— **ehrenbergii**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 206.
 ——— **tessellata**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 206.
- PENTESELLINA**, Munier-Chalmas, 1882. Bull. Soc. géol. France, [3], x, 1882, 424, type *Quinqueloculina saxorum*, "d'Orb."
 ——— **tournoueri**, Schlumberger. Comptes rendus Assoc. Française, 1882 (1883), 330, figs. 63 and 64.
 ——— **saxorum** [(d'Orb.)]. Mun.-Chalmas & Schlumb., Bull. Soc. géol. France, [3], xiii, 1885, 287, figs. 13, 14; 293, figs. 20, 21. [*Miliolites*, Lamarck, 1804. [Structural.]
 ——— (*Quinqueloc.*) **saxorum** (d'Orb.). Fritel, Foss. caract. terr. sedim. tert. 1886, pl. vii, 62 and 63.
 ——— Mun.-Ch. & Schlumb., Bull. Soc. géol. France, [3], xiii, 1885, 281, etc., fig. [Structural.]
- PERILOCOLINA**, Munier-Chalmas & Schlumberger, 1885. Bull. Soc. géol. France, [3], xiii, 1885, p. 308, etc.

- PERILOCOLINA zitteli**, Mun.-Ch. & Schlumb. Bull. Soc. géol. France, [3], xiii, 1885, 309, etc., figs. 36-40; pl. xiv, 56-59; xiv, bis, 69.
- PERIPLES elongatus**, Montfort. Conch. Syst. i, 1808, 271, 68th genre. [= *Crist. elongata.*]
- “Petit fossile ovoïde à côtes de melon.” Deluc, v. *Alveolina*.
- PETRASCULA**, Gümbel, 1873. Sitz. k.-bayer. Ak. Wiss. München, iii, 1873, 292. [A calcareous alga; v. Solms-Laubach, Einleit. Palaeophytologie, 1887, 38, etc., on allied forms.]
- **bursiformis** (Etallon). Gümbel, Sitz. k.-bayer. Ak. Wiss. München, iii, 1873, 292, i, 1-15. [1, 2, and 3, described as v. *læviuscula*; 4-6, as v. *annulata.*] [See *Conodictyum.*]
- Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 27, pl., 118.
- Pfennigsteine**. Schroeter, Journ. Liebh. Steinreich, vi, 1780, 261. [= *Nummulites.*]
- Phacites**, Gesner, Tract. phys. petrif. 1758, 50. [= *Nummulites.*]
- Phacites fossilis**, Blumenbach, Abbild. Nat. Gegenstände, Heft 4, No. 40, 1799, pl. 40. [= *Nummulites.*]
- Phacolithes**, Sage, Journ. de Phys. lx, 1805, 222. [= *Nummulites.*]
- PHANEROSTOMUM**, Ehrenberg, 1841. Abhandl. k. Ak. Wiss. Berlin, 1841, 409.
- **alloderma**, Ehr. Monatsber. k. preuss. Ak. Wiss. Berlin, 1861, 306.
- Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 12.
- **asperum**, Ehrenberg. Mikrogeologie, 1854, xxx, 26a, b, and xxxii, ii, 42. [= *Globig. cretacea.*]
- Ehr., Mikrogeologie, 1854, xxxii, i, 24. [= *Globig. hirsuta.*]
- **atlanticum**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 248.
- Ehr., Mikrogeologie, 1854, xxxv, B, iv, 3 and 4. [= *Globig. cretacea.*]
- **bullaria**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 287.
- **cribrum**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
- **dilatatum**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1855, 176, vii, 16 and 17. [= *Globig. cretacea.*]
- Ehr., Mikrogeologie, 1854, xxxii, i, 16 and 30. [= *Globig. hirsuta*, d'O.]
- **globigerum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 287.
- **globulosum**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
- Ehr., Mikrogeologie, 1854, xxxii, ii, 44. [= *Globig. cretacea.*]
- **globulus**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 306.
- Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 14.
- **hexacyclus**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 31. [= *Globig. hirsuta*, d'O.]
- **hexaleptum**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 23. [= *Globig. hirsuta.*]
- **hispidulum**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 22 and 29. [= *Globig. hirsuta.*]
- ? Ehr., Abh. k. Ak. Wiss. Berlin, 1855, 176, vii, ii. [= *Globig. cretacea.*]
- **integerrimum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1841, 427.
- **lacerum**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 17 and 18. [= *Globig. hirsuta*, d'O.]
- **læve**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 19. [= *Globig. hirsuta*, d'O.]

- PHANEROSTOMUM micromegma**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 306.
 ———— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 11.
 ———— **micromphalum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 287.
 ———— **microporum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ———— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 9.
 ———— **oceanicum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 10.
 ———— **ocellatum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1841, 427.
 ———— **pæonia**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ———— **pelagicum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 287.
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 ———— **porulosum**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 15. [= *Globig. hirsuta*, d'O.]
 ————? ———— Ehr., Abh. k. Ak. Wiss. Berlin, 1855, 176, vii, 15. [= *Globig. cretacea*.]
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 ———— Ehr., Mikrogeologie, 1854, xxxii, i, 20. [= *Globig. hirsuta*, d'O.]
 ———— **scutellatum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 13.
 ———— **senarium**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 25. [= *Globig. hirsuta*.]
 ————? ———— Ehr., Abh. k. Ak. Wiss. Berlin, 1855, 176, vii, 14. [= *Globig. cretacea*.]
 ————? Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1855, 176, vii, 12. [= *Globig. cretacea*.]
 ————? Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1855, 162, ii, x. [Glauc.] [= *Planorb. vulgaris*.]
- PHARAMUM**, Montfort. Conch. Syst. I, 1808, 35, 9th genre. [= *Crist. calcar.*]
- PHIALINA**, Costa, 1856. Atti Accad. Pontaniana, VII, fas. 2, 1856, 122.
 ———— **affinis**, Seguenza. Foram. monotal. miocen. Messina, 1862, 44, i, 16. [= *Lagena levis*, Mont.]
 ———— **clavata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 45, i, 17. [= *L. levis*, Mont.]
 ———— **costæ**, Seguenza. Foram. monotal. miocen. Messina, 1862, 48, i, 28. [= *L. sulcata*, W. & J.]
 ———— **costata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 48, i, 27. [= *L. sulcata*, W. & J.]
 ———— **cylindracea**, Seguenza. Foram. monotal. miocen. Messina, 1862, 47, i, 24. [= *L. striata*, d'Orb.]
 ———— **exigua**, Seguenza. Foram. monotal. miocen. Messina, 1862, 47, i, 25. [= *L. sulcata*, W. & J.]
 ———— **gemellarii**, Seguenza. Foram. monotal. miocen. Messina, 1862, 47, i, 23. [= *L. striata*, d'Orb.]
 ———— **haidingeri**, Czizek. Seguenza, Foram. monotal. miocen. Messina, 1862, 46, i, 20. [*Oolina*, 1848.]
 ———— **incesta**, Seguenza. Foram. monotal. miocen. Messina, 1862, 47, i, 26. [= *L. sulcata*, W. & J.]
 ———— **lagena**, Seguenza. Foram. monotal. miocen. Messina, 1862, 46, i, 22. [= *L. sulcata*, W. & J.]
 ———— **longirostris**, Seguenza. Foram. monotal. miocen. Messina, 1862, 44, i, 15. [= *L. levis*, Mont.]
 ———— **longissima**, Seguenza. Foram. monotal. miocen. Messina, 1862, 45, i, 18. [= *L. semistriata*, Will.]

- PHIALINA ornata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 48, i, 30. [= *L. squamosa*, Mont.]
- **ovata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 44, i, 14. [= *L. levis*, Mont.]
- **oviformis**, Costa. Atti Accad. Pontaniana, vii, fas. 2 (1856), 123, xi, 8 and 9.
- **piriformis**, Costa. Atti Accad. Pontaniana, vii, fas. 2 (1856), 123, xi, 6 and 10a, A.
- **propinqua**, Seguenza. Foram. monotal. miocen. Messina, 1862, 43, i, 13. [= *L. levis*, Mont.]
- **reussana**, Seguenza. Foram. monotal. miocen. Messina, 1862, 48, i, 29. [= *L. sulcata*, W. & J.]
- **semicostata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 45, i, 19. [= *L. semistriata*, Will.]
- **tenuistriata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 46, i, 21. [= *L. striata*, d'Orb.]
- PHONEMUS**, Montfort. Conch. Syst. i, 1808, 11, 3rd genre. [= *Crist.*]
- Meek, Smithson. Misc. Coll. vii, No. 177 (April, 1864), 1.
- [This genus is used by Meek as follows: *Phonemus* (*Cristellaria*) *rotulatus*, d'Orb. ? ; *P. (Flabellina) cuneatus*, (Morton), Meek ; *P. (Flabellina) sagittarius*, (Lea), Meek ; *P. (Dentalina) pulcher*, Gabb.]
- “**Phyllitæ Salicitæ seu Iteitæ lapides, vel Silices**,” etc. Scheuchzer, Miscell. Curiosa, Acad. Caesar. Leop., dec. iii, ann. v and vi, 1697–1698, Appendix, 1700, 63, plate, fig. I. [*Nummulites*.]
- PHYSOMPHALUS**, Ehrenberg, 1855. Abhandl. k. Ak. Wiss. Berlin, 1855, 172. [Glauc.]
- **porosus**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1855, 172, v, xvi. [Glauc.] [= *Operculina*.]
- Piedras lenticulares**. } Cavanilles, Obs. Hist. Nat. Valencia, ii, 1797, pp. 35,
Piedras numularias. } 183, 188, 199, pl., f. 1a, b, 2a, b.
- Pierres de Laon**. Sage, Journ. de Phys. LX, 1805, 222. [= *Nummulites*.]
- Pierres de St. Boniface**. Brueckmann. [= *Nummulites*.]
- Pierres frumentaires**. Guettard, Hist. Acad. Sci. (Paris), 1752, 339. [= *Nummulites*.]
- Pierres lenticulaires**. Bourguet, Lettres philos. Sels et Crystaux, 1729 [ed. 2, 1762], 171, plate, f. i–iii. [= *Nummulites*.]
- Pierres lenticulaires**. Denys Dodart, Hist. Acad. Sci. (Paris), i, 1733, 306.
- Pierres lenticulaires**. L. B***. [Bourguet], Traité des Pétrif., Paris, 1742, 75, l. 321–325, and La Haye, 1742 [Mém. servir l'Hist. Nat. etc., altered title], same pl. and figs.
- Pierres lenticulaires**. Barrere, Observ. Pierres figurées, 1746, 13, figs. N, P, P, Q, Q. [= *Nummulites*.]
- Pierres lenticulaires**. Guettard, Mém. diff. part. Sci. ii, 1770, 185, etc. ; iii, 1770, 431, pl. xiii.
- Pierres numismales**. Bourguet, Lettres philosoph. 1729, 12, fig. 1, 2, and 3. [= *Nummulites*.]
- Pierres numismales**. Guettard, Mém. diff. part. Sci. etc. ii, 1770, 185, etc. ; iii, 1770, 431, etc., pl. xiii.
- Pietra frumentale**. Ferranto Imperato, Hist. Nat. Venice, 1672, xxiv, 579, and xxviii, 664. [= *Nummulites*.]
- PILULINA**, Carpenter, 1870. Descrip. Catal. Obj. Deep-Sea Dredging, no date [1870], 5 ; Brady, Report Challenger, 1884, 244.
- **jeffreysii**, Carpenter. The Microscope, ed. 6, 1881, 560, fig. 319* d, e.
- ———— Brady, Report Challenger, 1884, 244, xxv, 1–6.
- ———— Carpenter, Ency. Brit. 9th ed. ix, 1879, Foraminifera, 375, 5d, e.
- PINEINA caudata**, Schafhäütl. Geogn. Unters. sudbay. Alpengeb. 1851, 49, xiii [misprinted in text, xviii], fig. 19. [An “oolitic granule ;” may be *Cristellaria*.]

- PINEINA oblonga**, Schafhäütl. Geogn. Unters. sudbay. Alpengeb. 1851, 48, xiii [misprinted in text xviii], fig. 5. [An "oolitic granule;" may be *Trochammia*.]
- PIRULINA**, Bronn, 1851-52. Error for *Pyrgulina*.
- PLACENTULA**, Lamarck, 1822. Hist. Anim. s. Vert. vii, 1822, 621.
- **asterizans**, [F. & M.], Lamarck. Hist. Anim. s. Vert. vii, 1822, 621, No. 2. [*Nautilus*, 1798.]
- ——— Crouch, Introd. Lamarck, 1827, 41, xx, 13.
- [**astricans**], Brown. Conch. Text-book, 1839, 61, x, 14.
- ——— Brown, Elem. Foss. Conch. 1843, 23, ii, 13.
- **nitida** (Reuss). Berthelin, Mém. Soc. géol. France, [3], i, 1880, 69, iv (xxvii), 11a-c. [*Rotalina*, 1844.]
- **partschiana**, Berthelin. Bull. Soc. géol. France, [3], xi, 1883, 304, figure p. 307. [= *Pulvinulina partschiana*, d'Orb.]
- **pictonica**, Berthelin. Revue et Mag. Zool. 1879, 36, i, 23-25.
- **pulvinata**, Lamarck. Hist. Anim. s. Vert. vii, 1822, 621.
- ——— Defrance, Dict. Sci. Nat. xxxii, 1824, 180, xli, 1826, 193; Atlas, Conch. xv, 5. [= *Pulv. repanda*.]
- ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 374, vii, 5.
- ——— Cuvier, Animal Kingdom, Henderson's ed. iii, 1834 (pls. 1837), 18, iv bis, 5.
- **repandus**. See *Pulvinulus repandus*.
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- PLACOPSILINA**, d'Orbigny, 1847. Prodrome de Paléont. ii, 1850, 96; Brady, Report Challenger, 1884, 314.
- **anomala**, Terquem. Cinq. Mém. Foram. Lias, 1866, 423, xvi, 6a, b, c.
- **annulata**, Terquem. Six. Mém. Foram. Lias, 1866, 495, xx, 29.
- **antiqua**, Terquem. Bull. Soc. géol. France, [3], viii, 1880, 416, xi, 2. [Cast.]
- **bullæ**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 51.
- ——— Brady, Report Challenger, 1884, 315, xxxv, 16 and 17.
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- **capilliformis**, Terquem. Cinq. Mém. Foram. Lias, 1866, 420, xvi, 1.
- **cenomana**, d'Orb., 1847. Prodrome de Paléont. ii, 1850, 185, No. 758. ["Œufs de Molluscs," 1848; see also *Lituola*.]
- ——— Reuss, Denkschr. k. Ak. Wiss. Wien, vii, Abth. 1, 1854, 71, xxviii, 4 and 5.
- (Lit.) ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 191, v, 19.
- ——— Haeusler, Quart. Journ. Geol. Soc. xxxix, 1883, 27, iii, 1.
- ——— Haeusler, Neues Jahrbuch, 1883, i, 59, iii, 12-14.
- ——— Brady, Report Challenger, 1884, 315, xxxvi, 1-3.
- ——— Wright, Proc. Belfast Nat. Field Club, 1884-1885, App. ix, 1886, 320, xxvi, 3a, b.
- ——— Haeusler, Neues Jahrb., Beil. iv, Heft 1, 1885, 8, i, 24 and 25.
- ——— Howchin, Journ. R. Microsc. Soc. 1888, 536, viii, 4.
- ——— Brady, Parker, & Jones, Trans. Zool. Soc. xii, pt. 7, 1888, 218, xlii, 13.
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- **contracta**, Terquem. Six. Mém. Foram. Lias, 1866, 495, xx, 28.
- **cordiformis**, Terquem. Cinq. Mém. Foram. Lias, 1866, 423, xvi, 5.

- PLACOPSILINA cornueliana**, d'Orb., 1849. Prodrôme de Paléont. II, 1850, iii, No. 791. [*Eufs de mollusques*, 1848 = *P. cenomana*.]
- **cornuta**, Terquem. Six. Mém. Foram. Lias, 1866, 491, xx, 8–21.
- **costata**, Terquem. Bull. Soc. géol. France, [3], VIII, 1880, 416, xi, 4.
- **crassa**, Terquem. Six. Mém. Foram. Lias, 1866, 494, xx, 27.
- **falcata**, Terquem. Cinq. Mém. Foram. Lias, 1866, 422, xvi, 4a, b.
- **filipendula**, Terquem. Six. Mém. Foram. Lias, 1866, 492, xx, 22.
- **floesti**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 390, vii, 17a, b.
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- Schlumberger, F. Jeun. Nat., Jan. 1882, i, 4.
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- **irregularis**, Mantell. Wonders Geol. 1857, 7th ed. 335, fig. 65, 2. [See *Webbina*.]
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- **longirostrata**, Terquem. Cinq. Mém. Foram. Lias, 1866, 420, xv, 22.
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- **mauritii**, Terquem. Cinq. Mém. Foram. Lias, 1866, 418, xv, 20a, b.
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- **rhyzomorpha**, Terquem. Cinq. Mém. Foram. Lias, 1866, 422, xvi, 3a–f.
- **scorpionis**, d'Orbigny. Prodrôme de Paléont. I, 1849, 259, No. 283. [See also *Webbina*.]
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- PLANISPIRINA**, Seguenza, 1880. Atti R. Acc. Lincei, [3], VI, 1880, 310; Brady, Report Challenger, 1884, 193.
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- **contraria** (d'Orb.). Brady, Report Challenger, 1884, 195, xi, 10 and 11; and fig. 5, 194. [*Biloculina*, 1846.]
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- **ammonoides** (Reuss.). Jones, Geologist, vi, 1863, 294, xv, 7 and 8. [*Rosalina*, 1844.]
- ——— Reuss, in Geinitz, Palaeontographica, xx, Th. 2, 1874, 114, xxiii, 9.
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- **arcta** [*farcta*], var. (**Truncat.**) **lobatula**, W. & J. Hamilton, Trans. N. Zealand Inst. xiii, 1881, 395, xvi, 13.
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- ? ——— **cenomaniana**, Seguenza. Atti R. Acc. Lincei, [3], xii, 1882, 200, xxi, 4-4*e*.
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- ——— var. **reticulata**, Czizek. Parker & Jones, Ann. Mag. Nat. Hist. [3], xi, 1863, 92, cut in text, fig. 3. [*Rotalina*, 1848.]
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- ——— var. **haidingerii** (d'O.). Parker & Jones, Phil. Trans. 1865, 382, xvi, 22a, 22b. [*Rotalina*, 1846.]
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- ——— Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 95, vii, 220-225.
- ——— var. **vulgaris**, d'Orb. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 97, vii, 226 and 227. [See *P. vulgaris*.]
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- ——— See *Polyzenes*.
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- _____ **arcuata**, Karsten. Verz. Rostock. Mus. 1849, 7. [v. *Cristellaria*.]
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- _____ See *Nautilus (O.) harpa*, Batsch.
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- **depressa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 259, No. 2. [v. also *Vaginulina*.]
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- **elongata**, Ehr. Mikrogeologie, 1854, xxxii, ii, 10. [= *Crist. crepidula* (F. & M.).]
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- **intermedia**, Philippi. Tertiär. nordwest. Deutsch. 1843, 40, i, 38. [v. *Cristellaria*.]
- **lævis**, Ehr. Abh. k. Ak. Wiss. Berlin, 1838, 132.
- **lævis**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 141, xiii, 16 and 16a.
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- **nodosa**, v. Hagenow. Neues Jahrbuch, 1842, 569, ix, 21.
- **oblonga**, Philippi. Tertiär. nordwest. Deutsch. 1843, 41, not figured.
- **orbiculata**, Roemer. Neues Jahrbuch, 1842, 273, vii, B, 6.
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- ? —— **pelagi**, Ehr. Abh. k. Ak. Wiss. Berlin, 1841, 427, iii, vii, 43. [= *Pulv. auricula?* (F. & M.).]
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- ———— Jones, M. Micr. Journ. xv, 1876, cxxix, 16.
- ———— See *Nautili lituitati cuspides*. [= *Cristellaria*.]
- **semicircularis**, Philippi. Tertiär. nordwest. Deutsch. 1843, 41, i, 39. [v. *Cristellaria*.]
- **striata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 259, No. 3. [v. also *Vaginulina*.]

- PLANULARIA** *tenella*, Ehr. Mikrogeologie, 1854, xxix, 41. [= *Cristellaria*.]
 ——— *thebaica*, Ehr. Mikrogeologie, 1854, xxiv, 63. [= *Crist. italica*?]
PLANULARIA, Nilsson. K. Vet. Ak. Handl. 1825 (1826), 342; and Petrif. Suecana, 1827, 10. [= *Fronicularia*.]
 ——— *angusta*, Nilsson. K. Vet. Ak. Handl. 1825 (1826), 343. [v. also *Fronicularia*.]
 ——— Nilsson, Petrif. Suecana, 1827, 11, ix, 22a, A.
 ——— Hisinger, Lethaea Svecica, 1837, 33, viii, 4.
 ——— *elliptica*, Nilsson. K. Vetensk. Acad. Handl. for 1825 (1826), 342. [v. *Flabellina*; also *Fronicularia*.]
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PLANULINA, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, p. 280.
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 ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 15.
 ——— *adpersa*, Ehrenberg. Mikrogeologie, 1854, xx, ii, 20. [= *Planorbulina*.]
 ——— Ehr., Mikrogeologie, 1854, xxviii, 48. [= *Crist. ? rotulata vel cultrata*.]
 ——— *æthiops*, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 132.
 ——— *ammonis*, Ehrenberg. Mikrogeologie, 1854, xxiv, 55. [= *Planorb. ammonoides*.]
 ——— Ehr., Mikrogeologie, 1854, xxxvii, iv, 3. [= *Operculina*, compare *O. subterris*, Gümbl., 1868.]
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 ——— ? *ampla*, Ehrenberg. Mikrogeologie, 1854, xxiii, 48. [= *Crist. cultrata*.]
 ——— Ehr., Mikrogeologie, 1854, xxvii, 44 and 45. [= *Planorb. ammonoides*.]
 ——— Ehr., Mikrogeologie, 1854, xxxi, 61. [Near *P. ariminnensis*.]
 ——— Ehr., Mikrogeologie, 1854, xxix, 13. [*Pulvin. elegans* group.]
 ——— *ampliata*, Ehrenberg. Mikrogeologie, 1854, xxxi, 60. [Near *P. ariminnensis*.]
 ? ——— Ehr., Mikrogeologie, 1854, xxiii, 50. [= *Crist. cultrata*.]
 ——— Ehr., Mikrogeologie, 1854, xxiv, 54 and 60?; xxv, ii, B, 11; xxvii, 47; and xxx, 33. [= *Planorb. ammonoides*.]
 ——— *angusta*, Ehrenberg. Mikrogeologie, 1854, xxix, 14. [*Pulvin. elegans* group.]
 ——— *angusta*, Ehrenberg. Mikrogeologie, 1854, xxvi, 46, and xxxvii, 41. [= *Planorb. ammonoides*.]
 ——— *annulosa*, Ehrenberg. Mikrogeologie, 1854, xxviii, 44. [= *Cristellaria*.]
 ——— Ehr., Mikrogeologie, 1854, xxvii, 42a, b, and xxx, 29. [= *Planorb. ammonoides*.]
 ——— Ehr., Mikrogeologie, 1854, xx, i, 56. [= *Pl. ariminnensis*? or *Nonionina*?]
 ——— Ehr., Mikrogeologie, 1854, xx, ii, 21b. [= *Planorbulina*.]
 ? ——— *apiculata*, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
 ——— *areolata*, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 427.
 ——— *argulus*, Ehrenberg. Mikrogeologie, 1854, xxvi, 32. [= *Planorb. globulosa*.]
 ——— *argus*, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 427.
 ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1843, 257.

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 ——— **ariminensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 280, No. 1, xiv [v in text], 1-3 bis. [*arminensis* in text.] [v. *Planorbulina*, and *P. tuberosa*, var.]
 ——— D'Orbigny, Modèles, No. 49, 1826.
 ——— Smedley, Ency. Metrop. 1845, undeser. pl. "Mollusca" ?
 ——— 7 and 8.
 ——— Cuvier, Règne Animal, 1836-46, ix (pls. x), 34, xv, 7.
 ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 677, xxiv, 45.
 ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 201, fig. xxxii, F.
 ——— P., J., & B. [D'O., Modèles, 49], Ann. Mag. Nat. Hist. [3]. xvi. 1865, 26, iii, 78. [= *Planorbulina.*]
 ——— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 51.
 ——— Bassot, Ann. Soc. Sci. Charente-Inf. 1884 (85), 162, fig. = *Planorb. rotula* (d'O.), v. *Ammonie foliaceæ*, and *Hammonie subrotundæ*.
 ——— **aspera**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 427.
 ——— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
 ——— **baileyi**, Ehr., v. *Aristerospira*.
 ——— **caspia**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xii, 7.
 ——— **centoculus**, Ehrenberg. Mikrogeologie, 1854, xxiv, 45. [= *Planorb. vulgaris.*]
 ——— **chloës**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
 ? ——— **conspersa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
 ——— **cornu**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 46. [= *Planorb. ariminensis.*]
 ? ——— **crisiæ**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 23.
 ? ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 18.
 ? ——— **cymodoceæ**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 24.
 ? ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 19.
 ——— **decrescens**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
 ——— **denticulata**, Ehrenberg. Mikrogeologie, 1854, xx, ii, 18. [= *Planorb. farcta.*]
 ——— **depressa**, Ehrenberg. Mikrogeologie, 1854, xxiv, 48. [= *Planorb. ungeriana?*]
 ——— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 20.
 ——— **diaphana**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 10.
 ——— **dubia**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 280, No. 2. [v. also *Platulina.*]
[PLATULINA] dubia, d'Orb. Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 9, ii, 10.
 ? ——— **elegans**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
 ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844, 93; and Mikrogeologie, 1854, xix, 93. [= *Planorbulina haidingeri.*]
 ——— Hopkins, Execut. Doc. 45 Congress, Sess. 3, iv, Rpt. Chief Engineers, pt. 2, App. W, 1878, 79, 885, ii, 66.
 ——— { **erosa** }, Ehrenberg. Mikrogeologie, 1854, xxxv, A, iv, B, i. [= { **porosa** } *Globig. bulloides.*]

- PLANULINA euomphala**, Ehrenberg. Mikrogeologie, 1854, xxvii, 46. [= *Crist. cultrata.*]
 ——— **euridices**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 24.
 ? ——— **eurytheca**, Ehrenberg. Mikrogeologie, 1854, xxiii, 44. [= *Crist. cultrata.*]
 ? ——— ——— Ehr., Mikrogeologie, 1854, xxiii, 39. [= *Planorb. ammonoides* ?]
 ——— ——— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
 ——— **eusticta**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 38. [= *Planorb. bulina.*]
 ——— **flos**, Ehrenberg. Mikrogeologie, 1854, xxiv, 47. [= *Planorb. haidingeri.*]
 ——— **forbesii**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 24.
 ——— **fumigata**, Ehrenberg. Mikrogeologie, 1854, xx, ii, 17. [= *Planorb. haidingeri.*]
 ? ——— **fusca**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 24.
 ——— **gemmacea**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
 ——— **globigerina**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 26. [= *Globig. hirsuta.*]
 ——— ——— Ehr., Mikrogeologie, 1854, xxiii, 29. [= *Planorb. haidingeri* ?]
 ——— ——— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ——— ——— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 16 ; and iii, 3.
 ——— **globularis**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 94 ; and Mikrogeologie, 1854, xix, 94. [= *Planorb. haidingeri*, limbate var.]
 ——— **granulata**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 25.
 ——— **groenlandica**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 17.
 ——— **hemprichii**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 133.
 ——— **heptacyclus**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 257.
 ——— **heptas**, Ehrenberg. Mikrogeologie, 1854, xxiii, 41. [= *Planorb. farcta*, var.]
 ——— **heterocyclus**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 289.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 6.
 ——— **heteromphala**, Ehrenberg. Mikrogeologie, 1854, xxvii, 49 and ? 50. [Near *Trunc. lobatula.*]
 ——— **heteropora**, Ehrenberg. Mikrogeologie, 1854, xxiv, 58a, b. [= *Planorb. ammonoides.*]
 ——— **hexacyclus**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 289.
 ——— **hexacyclus**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 257.
 ——— **hexas**, Ehrenberg. Mikrogeologie, 1854, xxxiii, 45 ; and xxviii, 46. [*Rosalina globularis* ? 1838.] [= *Crist. cultrata.*]
 ——— **holoplea**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 25.
 ——— **incerta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 280, No. 3.
 ——— ——— = *Truncat. lobatula* (young); see *Ammonia plano-convexa*.

- PLANULINA incurva**, Ehrenberg. Mikrogeologie, 1854, xxiii, 36. [= *P. ariminensis*.]
 — **incurvata**, Ehrenberg. Mikrogeologie, 1854, xxvi, 42. [= *Pulvin. menardii*.]
 — — — — — Ehr., Mikrogeologie, 1854, xxxi, 52. [= *Globig. cretacea*.]
 — **integra**, Ehrenberg. Mikrogeologie, 1854, xxiv, 56, 57 and 61. [= *Planorbulina*.]
 ? — **involuta**, Ehrenberg. Mikrogeologie, 1854, xxiii, 49. [= *Crist. cultrata*.]
 — **isidis**, Ehrenberg. Mikrogeologie, 1854, xxiii, 31. [= ? *Globigerina*.]
 — **lævigata**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 — — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 10.
 — **leiopentas**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 37. [v. *Aristerospira*; = *Planorbulina*.]
 — — — — — ? — — — — — Ehr., Mikrogeologie, 1854, xxvi, 37. [= ? *Planorb. near haidingeri*.]
 — **lenticula**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
 — **lenticulina**? Ehrenberg. Mikrogeologie, 1854, xxiii, 42 and 43. [= *Planorbulina*.]
 — **leptoderma**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 — — — — — Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 8.
 — **leptostigma**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 44 and 47. [= *Planorb. ariminensis*.]
 — — — — — Ehr., Mikrogeologie, 1854, xxvii, 43. [= *Planorb. ammonoides*.]
 — **libyca**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
 — **lugubris**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
 — **marmorata**, Ehrenberg. Mikrogeologie, 1854, xxvi, 51. [= *Crist. rotulata*.]
 — **mauryana**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 289.
 — — — — — Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 1.
 — **megalopentas**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 289.
 — — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 7.
 — **megapora**, Ehrenberg. Mikrogeologie, 1854, xxiv, 46. [= *Planorb. vulgaris*.]
 — **membranacea**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 41. [= *Pulv. karsteni*.]
 — — — — — Ehr., Mikrogeologie, 1854, xxvi, 43. [= *Pulvin. menardii* (d'O.).]
 — **mesolia**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 25.
 — **mica**? Ehrenberg. Mikrogeologie, 1854, xxxvi, 67. [= *Planorbulina*.]
 — **micromphala**, Ehrenberg. Mikrogeologie, 1854, xxvii, 38–40. “= *Pl. turgida*, 1838, in part.” [= *Planorb. ammonoides*.]
 — — — — — Ehr., Mikrogeologie, 1854, xxvi, 47. [= *Planorb. ammonoides*.]
 — — — — — Ehr., Mikrogeologie, 1854, xxxi, 59. [Near *Plan. ariminensis*.]
 — — — — — ? — — — — — Ehr., Mikrogeologie, 1854, xxvi, 50. [= *Crist. rotulata*.]
 — — — — — ? — — — — — Ehr., Abh. k. Ak. Wiss. Berlin, 1855, 162, ii, ix. [= *Rotalia beccarii*.] [Glanc.]
 — **micipentas**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 289.

- PLANULINA micropentas**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 8.
- **millepora**, Ehrenberg. Mikrogeologie, 1854, xxiv, 51. [= *Planorb. ammonoides.*]
- **mississippiica**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 41. [= *Globig. cretacea.*]
- **monticulosa**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 33. [= *Planorb. farcta.*]
- **morseniana**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 290.
- **nana**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
- **nebulosa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
- ——— Ehr., Mikrogeologie, 1854, xxxii, ii, 35. [= ? *Planorbulina.*]
- **nitida**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
- ? —— **obliqua**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 373.
- **obscura**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 248.
- **oceani**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1841, 427.
- **ocellaris**, Ehrenberg. Mikrogeologie, 1854, xxix, 12. [Near *P. ariminensis.*]
- **ocellata**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1839, 133. [*Rotalia ocellata*, Ehr., in 1838 Abh.]
- ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67; and Mikrogeologie, 1854, xxi, 91. [= *Globig. bulloides.*]
- ——— Ehr., Mikrogeologie, 1854, xxvi, 41. (“*Rosalina*, 1838.”) [= *Planorb. haidingeri*, subvar.]
- ——— Ehr., Mikrogeologie, 1854, xxxi, 53. [= *Globig. cretacea.*]
- **odontophæna**, Ehrenberg. Mikrogeologie, 1854, xxviii, 45a, b. [= *Crist. cultrata.*]
- **oligosticta**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 43. [= *Globig. cretacea.*]
- ——— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 25.
- **omphalolepta**, Ehrenberg. Mikrogeologie, 1854, xxviii, 43. (*Pl. turrida*, 1838.) [= between *Crist. rotulata*, and *C. cultrata.*]
- **d’orbignii**, Roem. Verst. norddeutsch. Kreide, 1840–41, 98, xv, 24.
- **orci**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 25.
- **ornata**, Roem. Verst. norddeutsch. Kreide, 1840–41, 98, xv, 25.
- **osnabrugensis**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 390, iii, 5–8. [v. also *Rosalina*, and *Truncatulina.*]
- **pachyderma**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 31. [= *Globig. cretacea.*]
- **pardalis**, Ehrenberg. Mikrogeologie, 1854, xxxi, 57. [= *P. ariminensis.*]
- ——— Ehr., Mikrogeologie, 1854, xxiv, 52. [= *Planorb. ammonoides.*]
- **perforata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844; and Mikrogeologie, 1854, xxi, 89.
- **perihexas**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 290.
- ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 13.
- **pertusa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67; and Mikrogeologie, 1854, xxii, 75. [= *Globigerina.*]
- **pharaonum**, Ehrenberg. Mikrogeologie, 1854, xxiii, 35. [= *Pulvin. menardii*, near *pulchella.*]
- **picta**, Ehrenberg. Mikrogeologie, 1854, xxvii, 52. [= *Pulvin. micheliniana* (d’O.).]
- **polysolenia**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1855, 162, ii, xi. [= *Planorb. vulgaris.*] [Glauc.]

- PLANULINA pomerana**, Ehrenberg. Mikrogeologie, 1854, xxx, 30. [= *Pulvin. micheliniana*.]
- **porophæna**, Ehrenberg. Mikrogeologie, 1854, xxxi, 56. [= *P. arimnensis*.]
- **porosa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 68; and Mikrogeologie, 1854, xx, ii, 19. [v. *Aristerospira*; = *Planorb. farcta*.]
- Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844, 94; and Mikrogeologie, 1854, xix, 95. [= *Planorb. haidingeri*, limbate var.]
- Ehr., Mikrogeologie, 1854, xxiv, 44. [= *Planorb. haidingeri*.]
- Ehr., Mikrogeologie, 1854, xxvi, 39 and 40. (" *Rosalina lævigata*, 1838, in part.") [= *Planorb. haidingeri*, subvar.]
- Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
- **porosior**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xii, 1.
- **profunda**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, p. 290.
- Ehr., in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii, n. d. i, 17 and 18.
- **protetras**, Ehrenberg. Mikrogeologie, 1854, xxiv, 50. [= *Planorb. tuberosa*, F. & M.]
- Ehr., Mikrogeologie, 1854, xx, ii, 16. [= *Glob. bulloides*.]
- **pyramidum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
- Ehr., Mikrogeologie, 1854, xxiii, 38. [= *Opercul. complanata*.]
- **quaternaria**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 373.
- **saxipara**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 36. [= *Planorbulina*.]
- **scutata**, see *Aristerospira*.
- **septenaria**, Ehrenberg. Mikrogeologie, 1854, xxv, ii, B, 10. [= *Planorb. vulgaris*.]
- **seriata**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 9.
- ⚭ **sicula**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133, iv, ii, iii.
- Ehr., Mikrogeologie, 1854, xxvi, 48 and 49. [48 = *Rotalia*? 49 = *Planorbulina*?]
- Ehr., Mikrogeologie, 1854, xxix, ii. [Near *P. arimnensis*.]
- **soldanii**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 280, No. 4. [v. *Planorbulina*.]
- = *Planorbulina*; see *Hammonie subrotundæ*; and *H. planæ rotundæ*
- **sparsipora**, Ehrenberg. Mikrogeologie, 1854, xx, ii, 22. [= *Rotalia orbicularis*.]
- **spatiosa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 94; and Mikrogeologie, 1854, xxi, 95 [xxix, 15; xxx, 28 (near)]. [Near var. *pulchella* of *Pulv. repanda*.]
- **speciosa**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
- **spira**, Ehrenberg. Mikrogeologie, 1854, xxvi, 52. [= ? *Planorbulina*.]
- **sphærocharis**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, p. 290.
- Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 9.
- **splendida**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
- **spongarium**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 26.
- **squamula**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67 and 94; and Mikrogeologie, 1854, xxi, 94. [= *Planorbulina*, limbate var.]
- **stellaris**, Ehrenberg. Mikrogeologie, 1854, xx, ii, 23. [= *Planorb. haidingeri*.]

- PLANULINA stigma**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67; and Mikrogeologie, 1854, xxii, 77. [= *Globigerina*.]
 ——— Ehr., Mikrogeologie, 1854, xxv, i, A, 29. [= *Globig. cretacea*.]
 ——— **suboctionaria**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 48. [= *Planorb. ammonoides*.]
 ——— **syriaca**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 39. [= *Planorb. haidingeri*.]
 ——— **tenuis**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1841, 427, iii, vii, 48. [= *Planorbulina*?]
 ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 2.
 ? ——— **turgida**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133, iv, v, ii.
 ——— Harting, Magt van het Kleine, 1849, 119, fig. 1; and 1866, 113, fig. 48¹; German by Dr. A. Schwartzkopf, 1851, 87, fig. 39¹.
 ? ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1845, 373.
 ——— Ehr., Mikrogeologie, 1854, xxxi, 62. [= small *Operculina*.]
 ——— Ehr., Mikrogeologie, 1854, xxix, 10. [Near *P. ariminensis*.]
 ——— Ehr., Mikrogeologie, 1854, xx, ii, 21a. [*Planorb.*, or may be *P. ariminensis*.]
 ——— **umbilicata**, Ehrenberg. Mikrogeologie, 1854, xxx, 31. [= *Cristellaria*, doubtful.]
 ——— Ehr., Mikrogeologie, 1854, xxiii, 47; xxv, i, A, 40; and xxviii, 49. [= *Crist. cultrata*.]
 ? ——— Ehr., Mikrogeologie, 1854, xxiv, 59. [*Pl. millepora*, juv.?
 [Near *Planorb. ammonoides*.]
 ——— Ehr., Mikrogeologie, 1854, xxvii, 48 and 51. [= *Pulvin. truncatulinoides* (d'O.).]
 ——— ? Ehr., Mikrogeologie, 1854, xxxi, 55.
 ——— **vitrea**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 373.
 ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844, 94; and Mikrogeologie, 1854, xix, 96. [= *Planorb. haidingeri*.]
 ——— **zapotecensis**, Karsten. Amtlicher Ber. 32 Vers. deutscher Nat. Aerzte, 1856 (1858), 114, vi, 4a, b, c, d; and Géol. Colomb. bolivarienne, 1886, 62, vi, 4a, b, c, d.
 ——— **sp.?** Ehrenberg, Mikrogeologie, 1854, xxxv, B, iv, A, k, l. [= *Globigerinae*.]
 ——— **sp.?** Ehrenberg, Mikrogeologie, 1854, xxxv, B, iv, A, g, h. [*g* = *G. bulloides*; *h* = *Pulvin. menardii*.]
 [——?] Macdonald, Ann. Mag. Nat. Hist. [2], xx, 1857, 193, v, 15.
 ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1875 (1876), 158, i, 1.
PLATOUM, F. E. Schulze, 1875. Arch. Mikr. Anat. xi, 1875, 115.
 ——— **parvum**, F. E. Schulze. Arch. Mikr. Anat. xi, 1875, 115, vi, 1-4.
 ——— Möbius, Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), 15.
PLATULINA, Guérin-Méneville, 1829-43. Misprint for *Planulina*.
PLATYCECUS ? **squama**, Ehr. Mikrogeologie, 1854, xxx, 28. [Var. of *Pulvin. repanda*, near *P. spatiosa* (Ehr.).]
PLECANIUM, Reuss, 1861. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 383.
 ——— **acuminatum**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 92, x, 5a, b.
 ——— **agglutinans**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 452, i, 1a, b, 2a, b.
 ——— **aratriforme**, Schwager. Boll. R. Com. Geol. Ital. ix, 1878, 527, i, 17.
 ——— **carinatum** (d'Orb.). Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 97. [*Textularia*, 1826.]
 ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 199, vii, 10.
 ——— **comatum**, Dunikowski. Kosmos [Lemberg], iv, 1879, 131, plate, 26.

- PLECANIUM concavum**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 129, i, 3. [v. *Textularia*.]
- **costatum**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 151, xiv, 8a, b.
- **cretaceum**, Dunikowski. Kosmos [Lemberg], IV, 1879, 130, plate. 25.
- **depravatum**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 93, ii, 3.
- **depressum**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, IX, 1875, 134, ii, 8.
- **elegans**, Hantken. Magyar. Földt. Társ. Munkálatai, IV, 1868, 83, i, 5a, b.
- **ocænum**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 603, i, 3 bis, a, b.
- **eurystoma**, Stache. Novara-Exped., Geol. Theil I, 1864, 179, XXI, 19a, b.
- **fœdum**, Karrer. Jahrb. k. k. geol. Reichsanstalt, XX, 1870, 165, i, 3.
- **gibbosum** [d'Orb.]* Zittel, Handbuch Palaeont., Abth. 1, 1876, 66, fig. 4² and 89, fig. 26. [On p. 89 given as *P. gibbum*, d'Orb.] [*Textularia*, 1826.]
- [Reuss.]* Hoernes, Elem. Palaeont. 1884, 33, fig. 26; French ed. 1886, same fig.
- **granosissimum**, Stache. Novara-Exped., Geol. Theil I, 1864, 179, XXI, 18a, b.
- **granuliferum**, Gümbel. Sitz. k.-bay. Ak. Wiss. III, 1873, 39, no fig.
- **irregulare**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 151, xiv, 9a, b. [Error for 7.]
- **karrerii**, Stache. Novara-Exped., Geol. Theil I, 1864, 178, XXI, 17a, b.
- **labiatum**, Reuss. Bull. Ac. Roy. Belge, [2], XV, 1863, 139. [*Textularia*, 1860.]
- **lanceolatum**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 129, i, 2.
- **laxatum**, Schwager. Novara-Exped., Geol. Theil II, 1866, 195, iv, 5a, b.
- **ligulatum**, Schwager. Palaeontographica, XXX, 1883, Pal. Theil, 115, xxvi (3), 15a-c.
- **lythostrotum**, Schwager. Novara-Exped., Geol. Theil II, 1866, 194, iv, 4a, b, c.
- **mariae** (d'O.), v. **inermis**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 64, i, 5-7.
- ———— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 603, i, 3 ter. a, b.
- **niloticum**, Schwager. Palaeontographica, XXX, 1883, Pal. Theil, 115, xxiv (3), 14a-c.
- **partschi**, Reuss. In Geinitz, Palaeontographica, XX, Th. 2, 1874, 126, xxiv, 13. [*Textularia*, 1860.]
- **roscidum**, Karrer. Jahrb. k. k. geol. Reichsanstalt, XX, 1870, 165, i, 2.
- **rugosum**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 453, i, 3a, b. [v. *Textularia*.]
- **scharrachbergense**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 296, vi, 16.
- **serratum**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 66, i, 4a, b.
- **solitum**, Schwager. Novara-Exped., Geol. Theil II, 1866, 195, iv, 6a, b, c.
- **speyeri**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 449, i, 3.
- **spinulosum**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 65, i, 3a, b.
- **sturi**, Karrer. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 703, i, 1.

* Zittel's & Hoernes' figures are the same. They are evidently meant for, but they differ very much from, *Text. gibbosa*, d'Orb., Ann. Sci. Nat., and Modèles, 1826.

- PLECANIUM** *tuberiforme*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 152, xiv, 10a, b [error for 9].
- PLECTINA**, Marsson, 1878. Marsson, Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 160. [Eine *Gaudryina*, die statt der spaltenförmigen Mündung am inneren Rande der letzten Kammer an oder unter der Spitze der letzten Kammer eine runde Mündung besitzt.]
- *clava*, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 161, iii, 29a-d.
- *irregularis*, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 160, iii, 28a-e.
- PLEIONA**, Franzenau, 1888. Földtani Közlöny, xviii, 1888, 491; and Termész. Füzetek, xi, 1889, 146 and 203, fig. [*P. princeps*.] [A bicamerate, compressed Nodosarian.]
- *princeps*, Franzenau. Termész. Füzetek, xi, 1889, 146 and 205, woodcut.
- ——— Franzenau, Math. termész. értesítő, vii, 1889, 254, iv, 9.
- PLEURITES**, Ehrenberg, 1854.
- ? ——— *americanus*, Ehr. Mikrogeologie, 1854, xxxii, ii, 20. [= *Virg. hemprichii*.]
- ? ——— *calciparus*, Ehr. Mikrogeologie, 1854, xxviii, 28 and 29, and xxx, 19. [= *Virg. hemprichii* (Ehr.).]
- ——— Kübler & Zwingli, Neujahrsblatt Bürgersbibl. Winterthur, 1866, 19, iii, 21. [= *Polymorphina*.]
- *cretæ*, Ehr. Mikrogeologie, 1854, xxvii, 32. [= ? *Sphaeroid. bulloides*.]
- *turgens*, Ehr. Mikrogeologie, 1854, xxxi, 37. [Probably *Virg. hemprichii*.]
- *turgidus*, Ehr. Mikrogeologie, 1854, xxix, 38. [= *Virg. hemprichii* (Ehr.).]
- PLEUROPHRYS**, Claparède & Lachmann. Mém. Inst. Nat. Génèvois, vi, 1858 (1859), 454.
- *lageniformis*, O. E. Schulze. Arch. Mier. Anat. xi, 1875, 125, vii, 6-8.
- ——— Möbius, Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), i, 20 and 21.
- For other species of this genus, see Archer, Quart. Journ. Micro. Sci. x, p. 17; Claparède, and Schulze, above quoted.
- PLEUROSOME**, Reuss, 1859. Sitz. k. Ak. Wiss. Wien, xl, 1860, 203; Brady, Report Challenger, 1884, 410.
- *acuta*, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 37, xiii, 18; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 44, same pl. and fig.
- ——— Schlumberger, F. Journ. Nat., Aug. 1883, 119, ii, 5, 5a.
- ——— Franzenau, Math. termész. értesítő, vii, 1889, 246, iv, 1.
- *alternans*, Schwager. Novara-Exped., Geol. Theil ii, 1866, 238, vi, 79 and 80.
- ——— Schwager, Boll. R. Com. geol. Ital. viii, 1877, 25, pl., 37.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 199, ii, 46.
- ——— Brady, Report Challenger, 1884, 412, li, 22 and 23.
- *barroisi*, Berthelin. Mém. Soc. géol. France, [3], i, 1880, 30, i (xxiv), 13a, b.
- *bellardi*, Hantken. Ertek. termes. köreböl, xiii, No. 1, 1883, 25, ii, 1a, b; and Math. Nat. Ber. Ungarn, ii, 1884, 146.
- *brevis*, Schwager. Novara-Exped., Geol. Theil ii, 1866, 239, vi, 81.
- ——— Brady, Report Challenger, 1884, 411, li, 20a, b.
- *ecœna*, Gümbel. Abh. m-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 630, i, 53a, b.
- ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 37, xiii, 17; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 44, same pl. and fig.

- PLEUROS TOMELLA fusiformis**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 205, viii, 1.
 ———— Reuss' Models, No. 31, 1865 (Catal., No. 58, 1861). [= an extreme form of *Virgulina*.]
 ———— **incrassata**, Hantken. Ertek. termes. köreböl, XIII, No. 1, 1883, 25, i, 4a, b; 7a, b; and Math. Nat. Ber. Ungarn, II, 1884, 146.
 ———— **obtusa**, Berthelin. Mém. Soc. géol. France, [3], I, 1880, 29, i (xxiv), 9a, b.
 ———— **rapa**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 630, i, 54.
 ———— Brady, Report Challenger, 1884, 411, li, 21a, b.
 ———— **reussi**, Berthelin. Mém. Soc. géol. France, [3], I, 1880, 28, i (xxiv), 10a-12.
 ———— **subnodosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 204, viii, 2a, b. [*Nodos. nodosa*, 1845; *Dental. subnodosa*, 1850.]
 ———— Brady, Report Challenger, 1884, 412, lii, 12 and 13.
 ———— **tenuis**, Hantken. Ertek. termes. köreböl, XIII, No. 1, 1883, 25, i, 5a, b; and Math. Nat. Ber. Ungarn, II, 1884, 145. [Omitted in explan. to plate.]
- PLEUROS TOMINA**, Costa, 1862. Annuario Mus. Zool. Univ. Napoli, I, 1862, Art. 11, 94. [Conchiglia libera, inequilatera, compressa, con tre cameragioni visibili allo esterno, delle quali una occupa per intero una delle facce, e le altre due la faccia opposta. Apertura piaggata su quest'ultima in fondo ad una cavità posta nella parte superiore della cameragione più angusta.]
 ———— **bimucronata**, Costa. Ann. Mus. Zool. Univ. Napoli, I, 1862, Art. 11, 94, no figure.
- PLEUROS TREMA calcarina**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
PLICATILIA, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. 1. [A family group name.]
- Pæcilospermos**, Mercatus, Metallotheca, 1719, 285, fig., and 286, fig. [= *Nummulites*.]
- Polimorphina**, Hantken, 1875. Misprint for *Polymorphina*.
- POLLONTES vesicularis**, Montfort. Conch. syst. I, 1808, 247, 62d genre. [= *Miliol. seminulum*.]
 ———— Bowdich, Elem. Conch. Part 1, 1822, 16, iii, 16. [*Miliolina*, striated.]
- POLYMORPHA globulifera**, Soldani. Testac. I, pt. 2, 1791, p. 119, pl. 130pp, qq, rr. [*Globigerina helicina*, d'O. Ann. Sci. Nat. VII, 1826, p. 277, 5.]
 ———— **janiformia**, Sold. Testac. II, 1798, 39, pl. 14h. [*Textularia tuberosa*, d'O. Ann. Sci. Nat. VII, 1826, p. 263, 26.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 119, pl. 132I, K. [*Textularia gibbosa*, d'O. Ann. Sci. Nat. VII, 1826, p. 262, 6.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 119, pl. 132L, M. [*Textularia levigata*, d'O. Ann. Sci. Nat. VII, 1826, p. 262, 4.]
 ———— **pineiformia**, Sold. Testac. I, pt. 2, 1791, p. 118, pl. 127H. [*Textularia obtusa*, d'O. Ann. Sci. Nat. VII, 1826, p. 262, 1.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 118, pl. 127I, pl. 130vv. [*Bulimina aculeata*, d'O. Ann. Sci. Nat. VII, 1826, p. 269, 7.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 119, pl. 130ss, tt. [*Uvigerina pygmaea*, d'O. Ann. Sci. Nat. VII, 1826, p. 269, 2.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 118, pl. 126xx, yy, zz, A, B. [*Uvigerina nodosa*, d'O. Ann. Sci. Nat. VII, 1826, p. 269, 3.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 118, pl. 127C. [*Nod. sulcata*, d'O. Ann. Sci. Nat. VII, 1826, p. 253, 21.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 119, pl. 131xx. [*Bulimina trilobata*, d'O. Ann. Sci. Nat. VII, 1826, p. 269, 6.]
 ———— Sold., Testac. I, pt. 2, 1791, p. 118, pl. 127K. [*Textularia echinata*, d'O. Ann. Sci. Nat. VII, 1826, p. 263, 24.]

- POLYMORPHA sagittulæ**, Sold. Testac. I, pt. 2, 1791, p. 120, pl. 1337.
 [*Textularia sagittula*, DeFr. D'O., Ann. Sci. Nat. VII, 1826, p. 263, 20.]
- **sphærule vitræ læves**, Sold. Testac. I, pt. 2, 1791, 115, pl. 118E.
 [*Nodos. (Gland.) lævigata*, d'O. Ann. Sci. Nat. VII, 1826, 252, 1.]
- **subcordiformia vel oviformia**, Sold. Testac. I, pt. 2, 1791, p. 114,
 pl. 112 (not 132)gg. [*Polymorphina (Glob.) ovata*, d'O. Ann. Sci. Nat.
 VII, 1826, p. 266, 22.]
- **subovalia**, Sold. Testac. I, pt. 2, 1791, p. 115, pl. 117p. [*Margim-
 lina lobata*, d'O. Ann. Sci. Nat. VII, 1826, p. 259, 12.]
- **triangulare**, Sold. Testac. I, pt. 2, 1791, p. 119, pl. 132G. [*Textu-
 laria caudata*, d'O. Ann. Sci. Nat. VII, 1826, p. 263, 25.]
- **tuberosa et globulifera**, Sold. Testac. I, pt. 2, 1791, p. 117, pl.
 123K. [*Globigerina elongata*, d'O. Ann. Sci. Nat. VII, 1826, p. 277, 4.]
- ———— Sold., Testac. I, pt. 2, 1791, p. 117, pl. 123H, I, O, P.
 [*Globigerina bulloides*, d'O. Ann. Sci. Nat. VII, 1826, p. 277, 1.]
- Sold., Testac. I, pt. 2, 1791 (omitted at p. 116), pl. 122gg? [*Polymorphina
 (Pyralina) gutta*, d'O. Ann. Sci. Nat. VII, 1826, p. 267, 28.]
- POLYMORPHINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, p. 265; Brady,
 Report Challenger, 1884, p. 557.
- **abavia**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, p.
 307, 337, i, iv. [“May be *Bulimina*,” P. & J.] [Glauconite.]
- **abbreviata**, Terquem. Quatr. Mém. Foram. Lias, 1864, 303, xiii,
 4a, b.
- **acanthophora**, Ehrenberg. Mikrogeologie, 1854, xxxi, 30. [Near
Bigen. (Gemmulina) digitata, d'O.]
- **aculeata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, p. 265, No. 5.
- ? ———— Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, p. 94 ;
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- **acuminata**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876),
 n. d. VIII, 4; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875,
 (1881), same pl. and fig.
- **acuta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, p. 265, No. 7.
- ———— D'Orbigny, Foram. Fossiles Vienne, 1846, 234, xiii, 4 and
 5; xiv, 5-7.
- **acuta**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 51,
 VIII, 4; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881),
 p. 60, same pl. and fig.
- **acuta**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, IX, 1875,
 120, i, 13.
- (**Glob.**) **acuta**, Roemer. Neues Jahrbuch, 1838, 386, iii, 36. [v. *Globu-
 lina*.]
- **adhærens**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie,
 IX, 1875, 119, i, 11.
- **æqualis**, d'O. See *P. equalis*.
- **agglutinans**, Terquem. Quatr. Mém. Foram. Lias, 1864, 293, xi, 5-8.
- ———— Terquem, Quatr. Mém. Foram. Oolithique, 1874, 292,
 xxx, 1 and 2.
- **amœna**, Karrer. Abh. k. k. geol. Reichs. IX, 1877, 385, xvi, b, 45.
- **ampla**, Karrer. Jahrb. k. k. geol. Reichsanstalt, XX, 1870, 181, ii, 13.
- **ampulla**, Jones. Prestwich, Quart. Journ. Geol. Soc. VIII, 1852, 267,
 xvi, 14.
- **amygdala**, Terquem. Quart. Mém. Foram. Oolithique, 1874, 301, xxxii,
 28-30.
- ———— Deecke, Abh. geol. Specialkarte Elsass-Lothr. IV, Heft
 1, 1884, 54, ii, 19.

- POLYMORPHINA amygdala**, Terquem. Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886, [37], i, 20 and 20a.
- **amygdaloides**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 250, viii, 84. [*Globulina*, 1851.]
- ——— Brady, Report Challenger, 1884, 560, lxxi, 13.
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- ——— Terq., Mém. Soc. géol. France, [3], ii, 1882, 141, xiv (xxii), 30 and 31.
- **anceps**, Philippi. Tertiär. nordwest. Deutsch. 1843, 41 and 70, i, 34.
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 246, vi, 68; vii, 69.
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- ——— Reuss, Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 155, iv, 9-11.
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- ——— Steinmann, Elem. Paleont. i, 1888, 28, fig. 9.
- **annulata**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 304, xxxiii, 5 and 6.
- (**Glob.**) **angusta**, Egger. Neues Jahrbuch. 1857, 290, xiii, 13-15.
- ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. ii, Heft 3, 1884, 210, ix, 17.
- ——— Brady, Report Challenger, 1884, 563, lxxii, 1-3.
- **angustata**, Terquem. Quatr. Mém. Foram. Lias, 1864, 296, xii, 33-35.
- **applanata**, K. Miller. Schr. Ver. Gesch. Bodensee, Heft vii, 1877, [77], iv, 18. [Cast or concretion?]
- **appula**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 286 [282], xviii, 17a, A, B.
- ? — **armata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, p. 373.
- **aristophanis**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 26.
- ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 1.
- **asparagus**, Ehr. Mikrogeologie, 1854, xxvii, 14; and xxix, 31. [= *Virg. squamosa*.]
- ——— Kübler & Zwingli, Neujaahrsblatt Burgersbibl. Winterthur, 1866, 19, iii, 18. [= *Virgulina*.]
- **aspera**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 291.
- ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 13.
- **asperella**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 385, xvii, 47.
- **asummata**, (Will.). Robertson, Trans. Edin. Geol. Soc. iv, 1883, 144. [Error for *acuminata*.]
- **australis**, (d'O.). B., P., & J., Trans. Linn. Soc. xxvii, 1870, 239, xli, 27a, b. [*Globulina*, 1839.]
- ? — ——— Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 427.
- (**Gutt.**) **austriaca**, d'Orb. Schwager, Boll. R. Com. geol. Ital. viii, 1877, 25, pl. 31. [*Guttulina*, 1846.]
- **avena**, Terquem. Quatr. Mém. Foram. Lias, 1864, 309, xiii, 45a, b.
- **avia**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 307 and 337, i, f. v. ["May be *Bulimina*," P. & J.] [*Glauconite*.]
- **biaperta**, Dunikowski. Kosmos [Lemberg], iv, 1879, 129, plate, 23.
- **bilocularis**, Terquem. Quatr. Mém. Foram. Lias, 1864, 293, xi, 9-32.
- ——— Terquem, Six. Mém. Foram. Lias, 1866, 523, xxii, 26.
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 ———— **breoni**, Terquem. Quatr. Mém. Foram. Lias, 1864, 295, xii, 1–24.
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 ———— **campanulata**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 385, iii, 22.
 ———— **cenomanensis**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. ii, 1850, 185, No. 761.
 ———— (Glob.) **clavata**, Roemer. Neues Jahrbuch, 1838, 386, iii, 38.
 ———— **cognata**, Stache. Novara-Exped., Geol. Theil i, 1864, 257, xxiv, 3a, b.
 ———— (Gutt.) **communis**, d'Orb. Ann. Sci. Nat. vii, 1826, 266, No. 15, xii, 1, 2, 3, 4. [v. *Guttulina*.]
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 ———— Smedley, Eney. Metrop. 1845, n. d., pl. "Mollusca?", 13–15.
 ———— (Gutt.) ———— Egger, Neues Jahrbuch, 1857, 288, xiii, 16–18.
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 ———— Parker & Jones, Ann. Mag. Nat. Hist. [2], xix, 1857, 283, xi, 30–34. [32, *P. gibba*; 33, *P. lactea*.]
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 _____ Tate & Blake, Yorkshire Lias, 1876, 470, xvii, 32.
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 _____ **compressa**, Philippi. Tertiär. nordwest. Deutsch. 1843, 69, i, 35.
 _____ **compressiuscula**, Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 647, ii, 82a, b.
 _____ **concava**, Williamson. B., P., & J., Trans. Linn. Soc. xxvii, 1870, 236, xi, 22a, b. [v. *P. lactea*.]
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 _____ **contorta**, Stache. Novara-Exped., Geol. Theil i, 1864, 257, xxiv, 4a, b.
 _____ (**Glob.**) **costata**, Egger. Neues Jahrbuch, 1857, 291, xiv, 5 and 6.
 _____ B., P., & J., Trans. Linn. Soc. xxvii, 1870, 240, xli, 31a, b.
 _____ **crassa**, Roemer. Neues Jahrbuch, 1838, 385, iii, 27.
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 _____ (**Gutt.**) **crassatina**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 385, iii, 30.
 _____ **cruciata**, Terquem. Quatr. Mém. Foram. Lias, 1864, 299, xiii, 1-16.
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 _____ **digitata** d'Orb. Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 9, iii, 3.
 _____ Cuvier, Animal Kingdom, Henderson's ed. iii, 1834 (pls. 1837), 19, vi, 3.
 _____ **digitalis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 235, xiv, 1-4.
 _____ B., P., & J., Trans. Linn. Soc. xxvii, 1870, 238, xli, 25a, b.
 ? _____ ? Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 183, i, 13.
 _____ Terquem, Mém. Soc. géol. France, [3], ii, 1882, 141, xiv (xxii), 29a, b.

- POLYMORPHINA digitalis**, d'Orbigny. Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 184, ii, 23, 24.
- **dilatata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 265, No. 11.
- **dilatata**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 83, vi, 49.
- **disjuncta**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 303, xxxiii, 3.
- **dispar**, Stache. Novara-Exped., Geol. Theil I, 1864, 261, xxiv, 8a, b.
- **dispar**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 130, xvii, 4a, b; (and Mém. Soc. Dunkerquoise).
- **distincta**, Terquem. Six. Mém. Foram. Lias, 1866, 525, xxii, 32.
- ———— Tate & Blake, Yorkshire Lias, 1876, 471, xvii, 35.
- **elegantissima**, Parker & Jones. Phil. Trans. clv, 1865, Table x, 438.
- ———— B., P., & J., Trans. Linn. Soc. xxvii, 1870, 231, xl, 15a-c.
- ———— Brady, Report Challenger, 1884, 566, lxxii, 12-15.
- **equalis** [**æqualis**], d'Orbigny. Ann. Sci. Nat. vii, 1826, 265, No. 13.
- **exserta**, Berthelin. Mém. Soc. géol. France, [3], I, 1880, 57, iv (xxvii), 22a-23b.
- **farciminoides**, K. Miller. Schr. Ver. Gesch. Bodensee, Heft vii, 1877, [77], iv, 16 and 17. [Cast or concretion?]
- **fischeri**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 41, iii (viii), 37a-39.
- **fistulosa**, Will. B., P., & J., Trans. Linn. Soc. xxvii, 1870, 246, xlii, 38d. [v. *P. lactea*.]
- **fontinensis**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 298, xxxi, 29 and 30.
- **foveolata**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 90, iv, 2a-c.
- **frondiformis**, Searles Wood. Morris, Catal. Brit. Fossils, 1843, 62; J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, App. i and ii (foot-notes), pl. i, figs. 62, 63, and 69; pl. iv, figs. 11-14.
- ———— B., P., & J., Trans. Linn. Soc. xxvii, 1870, 241, xli, 33a-c.
- (**Glob.**) **fusiformis**, Roemer. Neues Jahrbuch, 1838, 386, iii, 37.
- ———— Tate & Blake, Yorkshire Lias, 1876, 470, xvii, 31.
- ———— B., P., & J., Trans. Linn. Soc. xxvii, 1870, 219, xxxix, 5a, b, c; and woodcut e, p. 220. [*P. liassica*.]
- **fundiformis**, J., P., & B. Crag Foram., Pal. Soc. XIX, 1866, n. d., i, 62, 63, and 69.
- **gaultina**, Berthelin. Mém. Soc. géol. France, [3], I, 1880, 58, iv (xxvii), 19a-c.
- (**Glob.**) **gibba**, d'Orb. Ann. Sci. Nat. vii, 1826, 266, No. 20. [v. *Globulina*.]
- ———— D'Orbigny, Modèles, No. 63, 1826.
- (**Glob.**) ———— Roemer, Neues Jahrbuch, 1838, 386, iii, 32.
- (**Gutt.**) ———— Egger, Neues Jahrbuch, 1857, 289, xiii, 1-4.
- (**Gutt.**) ———— v. **ovoidea**, Egger. Neues Jahrbuch, 1857, 289, xiii, 5-7.
- (**Gutt.**) ———— v. **pirula** [**pyrula**], Egger. Neues Jahrbuch, 1857, 290, xiii, 11 and 12.
- (**Gutt.**) ———— v. **subgibba**, Egger. Neues Jahrbuch, 1857, 289, xiii, 8-10.
- (**Glob.**) ———— P., J., & B. [d'O., Modèles, 63], Ann. Mag. Nat. Hist. [3], XVI, 1865, 29, ii, 52.
- ———— J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., i, 49-51.
- ———— v. **orbicularis**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 174, iv, 8.
- ———— B., P., & J., Trans. Linn. Soc. xxvii, 1870, 216, xxxix, 2a-d.

- POLYMORPHINA gibba**, v. *æqualis*, d'O. B., P., & J., Trans. Linn. Soc. xxvii, 1870, 216, xxxix, 2c, d. [*Globulina*, 1846.]
- _____ ? _____ K. Miller, Sehr. Ver. Gesch. Bodensee, Heft VII, 1877, [77], iv, 19. [Cast or concretion?].
- _____ _____ Brady, Report Challenger, 1884, 561, lxxi, 12a, b; fistulose form, lxxiii, 16.
- _____ (**Glob.**) _____ Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 209, ix, 10-13.
- _____ (**Glob.**) _____ Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
- _____ _____ Wright, Proc. Belfast Nat. Field Club, 1884-85, App. ix, 1886, 329, xxvi, 11. (Fistulose.)
- _____ _____ Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 755, xvi, 5.
- _____ **gibbosa**, Terquem. Mém. Soc. géol. France, [3], iv, 1886, 63, vii, 15.
- _____ **gigantea**, Stache. Novara-Exped., Geol. Theil I, 1864, 262, xxiv, 9a, b.
- _____ **gigas**, Karrer. Abh. k. k. geol. Reichs. IX, 1877, 384, xvib, 44.
- _____ **glabra**, Ehr. Mikrogeologie, 1854, xxix, 30. [= *Virg. squamosa*.]
- _____ (**Glob.**) **globosa**, von Muenster. Roemer, Neues Jahrbuch, 1838, 386, iii, 33. [v. *Globulina*.]
- _____ (**Glob.**) _____ Reuss, Verstein. böhm. Kreide, 1845-46, i, 40, xiii, 82.
- _____ _____ Karrer, Sitz. k. Ak. Wiss. Wien, LII, Abth. 1, 1865 (1866), 497, pl., 12.
- ? _____ **globulosa**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 373.
- _____ **globularis**. See *Orth. unilocularis* = *G. globosa*.
- _____ **glomerata**, Roemer. Verst. norddeutsch. Kreide, 1840-41, 97, xv, 19.
- _____ _____ Reuss, Verstein. böhm. Kreide, 1845-46, i, 40, xii, 32.
- _____ **gracilis**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, Abth. 1, 1870, 486; von Schlicht, xxxi, 34, 35, "Foram. Septar. Pietzpuhl," 1870, xxxii, 5-8, 27, 28.
- _____ (**Glob.**) **granulosa**, Egger. Neues Jahrbuch, 1857, 290, xiv, 1 and 2.
- _____ _____ B., P., & J., Trans. Linn. Soc. xxvii, 1870, 238, xli, 26a, b.
- _____ **gravis**, Karrer. Jahrb. k. k. geol. Reichsanstalt, xx, 1870, 181, ii, 12.
- _____ (**Pyrulina**) **gutta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 267, No. 28, xii, 5 and 6. [v. *Pyrulina*.]
- _____ _____ D'Orbigny, Modèles, No. 30, 1826.
- _____ (**Pyrulina**) _____ P., J., & B. [d'O., Modèles, 30], Ann. Mag. Nat. Hist. [3], xvi, 1865, 24, ii, 51.
- _____ _____ J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., i, 46 and 47.
- _____ _____ B., P., & J., Trans. Linn. Soc. xxvii, 1870, 218, xxxix, 3a, b.
- _____ _____ P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 171, xi, 107.
- _____ (**Pyrulina**) _____ Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
- _____ _____ Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 755, xvi, 6.
- _____ (**Pyrul.**) _____ = *P. gutta*, d'O. See *Polymorphum*.
- _____ _____ See *Orth. unilocularis*, etc.
- _____ **guttata**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, Abth. 1, 1870, 487; von Schlicht, "Foram. Septar. Pietzpuhl," 1870, xxx, 25-32.
- _____ **guttiformis**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 42, ix (xiv), 24a, b.
- _____ **guttula**, Reuss. B., P., & J., Trans. Linn. Soc. xxvii, 1870, 215, cut. [*Globulina*, 1851.]
- _____ **gyzensis**, Ehrenberg. Mikrogeologie, 1854, xxiii, 26, 27? [Probably Textularian.] [Compare *Grammobotrys* and *Spheroidina*.]

- POLYMORPHINA hirsuta**, B., P., & J. Trans. Linn. Soc. xxvii, 1870, 243, xlii, 37.
- **horrida**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 385, xvib, 46.
- **horrida**, Reuss. Wright, Rept. Proc. Belfast Nat. F. C., App. iii, 1875, 85 [87], iii, 14 and 15. [*Globulina*, 1851.]
- **humboldti**, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 347, xviii, 7 and 8.
- [**humboldtii**] ——— B., P., & J., Trans. Linn. Soc. xxvii, 1870, 236, xl, 21a, b.
- **imbricata**, Terquem. Six. Mém. Foram. Lias, 1866, 524, xxii, 28a, b.
- **immutabilis** (?), Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, vii, 12 and 13. [Described by Schwager, together with ii, 4, on p. 138 as *mutabilis*.]
- **incavata**, Stache. Novara-Exped., Geol. Theil i, 1864, 260, xxiv, 7a, b.
- **incerta**, Egger. Neues Jahrbuch, 1857, 286, xiii, 19-21.
- **inequalis** [**inæqualis**], d'Orbigny. Ann. Sci. Nat. vii, 1826, 265, No. 4.
- **inflata**, Terquem. Bull. Soc. zool. Fr. xi, 1886, 335, xi, 23.
- **inflata** *, Will. [?] Zittel, Handbuch Palaeont. Abth. 1, 1876, 86, fig. 23².
- **innormalis**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 283, xiii, 28-30.
- **insignis**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 248, vii, 74 and 75.
- **intorta**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 300, xxxii, 11.
- **irregularis**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 137, ii, 12 and 13; also in Spanish, 1840, 131, same pl. and fig.
- ——— B., P., & J., Trans. Linn. Soc. xxvii, 1870, 239, xli, 29a, b.
- **irregularis**, Terquem. Quatr. Mém. Foram. Lias, 1864, 297, xii, 36.
- **labiata**, Schwager. Novara-Exped., Geol. Theil ii, 1866, 246, vii, 90.
- (**Glob.**) **lacrima**, Reuss. Verstein. böhm. Kreide, 1845-46, i, 40, xii, 6, xiii, 83. [*Globulina*.]
- **lactea**, Walker & Jacob. Williamson, Recent British Foram. 1858, 70, vi, 145-152, "145-147 typica." [*Serpula*, 1798.]
- ——— v. **acuminata**, Williamson. Recent British Foram. 1858, 71, vi, 148.
- ——— v. **communis**, [d'Orb.]. Williamson, Recent British Foram. 1858, 72, vi, 153-155.
- ——— v. **concava**, Williamson. Recent British Foram. 1858, 72, vi, 151 and 152.
- ——— v. **fistulosa**, Williamson. Recent British Foram. 1858, 72, vi, 150.
- ——— v. **oblonga**, Williamson. Recent British Foram. 1858, 71, vi, 149 and 149a.
- ——— Dawson, Canad. Nat. iv, 1859, 28, fig. 2 and 3.
- ——— v. **horrida** [Reuss]. Mackie, Recreative Science, i, 1859, 148, fig. 23. [Given also as *Globigerina tubulosa*, d'Orb. A misprint for *Globulina*.]
- ——— Jones & Parker, Quart. Journ. Geol. Soc. xvi, 1860, xx, 44.
- ——— Parker & Jones, Phil. Trans. 1865, 359, xiii, 45 and 46.
- ——— v. **compressa**, d'O. Parker & Jones, Phil. Trans. 1865, 361, xiii, 47-51. [*v. P. compressa*.]
- ——— v. **tubulosa**, d'O. Parker & Jones, Phil. Trans. 1865, 362, xiii, 52a-d. [*Globulina*, 1846.]
- ——— Brady, Proc. Somerset. Arch. and Nat. Hist. Soc. xiii, 1865-66 (1867), 230, iii, 49.

[* Zittel refers to the Monogr. Polymorph., Trans. Linn. Soc. xxvii, 1869; and, although *P. inflata* is not mentioned therein, *P. lactea* (W. & J.), pl. xxxix, fig. 1, is very close to this form.]

- POLYMORPHINA lactea**, Walker & Jacob. J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., i, 48.
- _____ B., P., & J., Trans. Linn. Soc. XXVII, 1870, 213, xxxix, 1a-c.
- _____ v. *acuminata*, Will. B., P., & J., Trans. Linn. Soc. XXVII, 1870, 222, xxxix, 6c. [v. *supra*.]
- _____ v. *amygdaloides*, Reuss. B., P., & J., Trans. Linn. Soc. XXVII, 1870, 214, figg. in text, 215. [*Globulina*, 1851.]
- _____ B., P., & J., Trans. Linn. Soc. XXVII, 1870, xl, 12a.
- _____ P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 170, xi, 104. [v. *P. (Glob.) ovata*, d'O.]
- _____ Dawson, Canad. Nat. vi, 1872, 254, iii, 2.
- _____ Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 37, v, 12; (and Mém. Soc. Dunkerquoise).
- _____ Toula, Mitth. geogr. Ges. Wien, XVIII, 1875, 165, pl., 17.
- _____ Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 79, x, 19 and 20; (and Mém. Soc. Dunkerquoise).
- _____ Nicholson, Manual Palaeont. 1879, i, 114, fig. 18j.
- _____ Brady, Report Challenger, 1884, 559, lxxi, 11; 14 var. and fistulose form, lxxiii, 14.
- _____ Gümbel, Geol. Bayern, Th. I, Lief. 2, 1885, fig. 266, 15.
- _____ Dawson, Handbook Zoology, ed. 3, 1886, 44, fig. 34.
- _____ Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 224, xlv, 11.
- _____ Terrigi, Mem. R. Acc. Lincei [4], VI, 1889, 113, vi, 8, 9. See *Misilus*; *Cantharus*; and *Arethusa*.
- _____ *lagenalis*, Terquem. Quatr. Mém. Foram. Lias, 1864, 301, xiii, 39a, b.
- _____ *lanceolata*, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 83, vi, 50.
- _____ (Gutt.) _____ Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 58 and 67, vii, 75a-c, 76, 77a, b, 78a, b, 79-84.
- _____ Brady, Report Challenger, 1884, 564, lxxii, 5 and 6.
- _____ (Gutt.) _____ Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 210, ix, 18-20.
- _____ (Gutt.) *lata*, Egger. Neues Jahrbuch, 1857, 288, xiii, 22-24.
- _____ *leopolitana*, Reuss. Haidinger's Naturw., Abh. IV, (1), 1851, 44, iv, 11.
- _____ *leprosa*, Reuss. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 89, iv, 3a-c.
- _____ *liassica*, Strickland. Quart. Journ. Geol. Soc. II, 1846, 30, fig. b.
- _____ B., P., & J., Trans. Linn. Soc. XXVII, 1870, 220, fig.
- _____ *ligua*, Roemer. Neues Jahrbuch, 1838, 385, iii, 25. [Name corrected to *lingua*.]
- _____ [*lingua*] _____ Reuss, Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 248, vii, 77.
- _____ [_____] _____ B., P., & J., Trans. Linn. Soc. XXVII, 1870, 230, fig.
- _____ *lingulata*, Stache. Novara-Exped., Geol. Theil I, 1864, 255, xxiv, 1a, b.
- _____ *longicollis*, Karrer. Jahrb. k. k. geol. Reichsanstalt, XX, 1870, 181, ii, 11.
- _____ *longicollis*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 64.
- _____ Brady, Report Challenger, 1884, 572, lxxiii, 18 and 19.
- ? _____ *longirostrata*, Gümbel. Jahrb. k. k. geol. Reichsanstalt, XIX, 1869, 178, v, 14 and 15. [*P. longirostris* in explanation to plate.]
- _____ *longirostris*, Gümbel. See *P. longirostrata*.
- _____ *longissima*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, n. d. xiii, 22 and 23.
- _____ *marsupium*, Stache. Novara-Exped., Geol. Theil I, 1864, 258, xxiv, 5a, b.
- _____ *media*, Egger. Neues Jahrbuch, 1857, 287, xiii, 28 and 29.
- _____ *metensis*, Terquem. Quatr. Mém. Foram. Lias, 1864, 301, xiii, 38a, b.
- _____ Terq. et Berth., Mém. Soc. géol. France, [2], x, 1875, 68, vi (xvi), 1a-j.

- POLYMORPHINA minima**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 344, xvii, 3.
- (**Gutt.**) aff. *minima*, Born. Andreae, Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 210, ix, 16. [*Globulina* in plate.]
- (**Glob.**) *minuta*, Roemer. Neues Jahrbuch, 1838, 386, iii, 35. [*v. Globulina.*]
- B., P., & J., Trans. Linn. Soc. xxvii, 1870, 215, fig.
- **mucronata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 130, xvii, 3; (and Mém. Soc. Dunkerquoise).
- **munsteri**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 249, viii, 80.
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), n. d. vii, 16; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 61, same pl. and fig.
- **mutabilis**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 138, ii, 4; vii, 12 and 13. [*Polimorphina*, on p. 138; in descriptions of plate vii, these specimens are described as *immutabilis*, q. v.]
- **myristiformis**, Williamson. Recent British Foram. 1858, 73, vi, 156 and 157.
- B., P., & J., Trans. Linn. Soc. xxvii, 1870, 239, xli, 30a-c.
- Brady, Report Challenger, 1884, 571, lxxiii, 9 and 10.
- Balkwill & Millett, Journ. Micr. iii, 1884, 84, iv, 10.
- **nitiduscula**, Schwager. Benecke's Geogn. Pal. Beiträge, I, 1866, 308, fig. 12.
- **nodosaria**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII (1), 1863 (1864), 58, vii, 85.
- B., P., & J., Trans. Linn. Soc. xxvii, 1870, 233, xl, 18a, b.
- Tate & Blake, Yorkshire Lias, 1876, 471, xvii, 34.
- **nucleus**, Ehr. Mikrogeologie, 1854, xxx, 18. [= *Virg. hemprichii*, tending to *Cassidulina*.]
- **oblonga**, d'Orbigny. Foram. Fossiles Vienne, 1846, 232, xii, 29-31.
- Gosse, Mammal Mar. Zool. 1855, 13, fig. 16.
- Brady, Report Challenger, 1884, 569, lxxiii, 2 and 4.
- (**Glob.**) **oblonga**, Roemer. Neues Jahrbuch, 1838, 386, iii, 34.
- **oblonga**, Williamson. B., P., & J., Trans. Linn. Soc. xxvii, 1870, 222, xxxix, 7a, b. [*v. P. lactea*.]
- Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 37, v, 11; (and Mém. Soc. Dunkerquoise).
- Jones, in Microgr. Diet. ed. 4, 1883, 620, xxiii, 42.
- **obscura**, von Muenster. Roemer, Neues Jahrbuch, 1838, 385, iii, 23.
- [Roem.]. Reuss, Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 471, iii, 9 and 10.
- [Roem.] var. Reuss, Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 471, iii, 8.
- (**Gutt.**) **obtusa**, Bornemann. Andreae, Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 209, ix, 14 and 15. [*Guttulina*, 1855.]
- **obtusa**, Ehr. Mikrogeologie, 1854, xxxi, 31. [Near *Bigen. (Gemmulina) digitata*, d'O.]
- **obtusa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 265, No. 1.
- Terquem, Mém. Soc. géol. France, [3], II, 1882, 141, xiv (xxii), 28a, b.
- **oolithica**, Terquem. Quatr. Mém. Foram. Oolith. 1874, 299, xxxii, 1-10.
- Deecke, Abh. geol. Spezialkarte Elsass-Lothr. IV, Heft 1, 1884, 53, ii, 19a.
- Terquem, Mém. Soc. géol. France, [3], IV, 1886, 62, vii, 11-14.
- Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [37], i, 29.
- **orbignii** (Zborzewski). B., P., & J., Trans. Linn. Soc. xxvii, 1870, 244, xlii, 38a-c. [*Apiopterna*, 1834.]

- POLYMORPHINA orbignii** (Zborzewski). Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 200, vii, 37.
- Jones, in Microgr. Diet. ed. 4, 1883, 620, xxiii, 41.
- **ornata**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, (1), 1868, 175, iv, 10.
- B., P., & J., Trans. Linn. Soc. XXVII, 1870, 242, xli, 34a, b.
- **ovata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 233, xiii, 1-3.
- Brady, Report Challenger, 1884, 564, lxxii, 7 and 8.
- Agassiz, Three Cruises "Blake," II, 1888, 166, fig. 509.
- (Glob.) ——— = *P. lactea* (W. & J.). See *Polymorpha subcordiformis*, etc. [*Globulina*, 1826.]
- **oviformis**, Terquem. Cinq. Mém. Foram. Lias, 1866, 449, xviii, 12a, b.
- Terquem, Mém. Soc. géol. France, [3], I, 1878, 40, iii (viii), 34a, b.
- **ovigera**, Terquem. Quatr. Mém. Foram. Lias, 1864, 304, xiv, 1-15.
- **ovula**, Terquem. Quatr. Mém. Foram. Lias, 1864, 294, xi, 33-44.
- **ovulata**, Dunikowski. Kosmos [Lemberg], IV, 1879, 128, plate, 22.
- **ovulum**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 250, viii, 83.
- **pauperata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 38, iii (viii), 11a-19.
- **pernaeformis**, Stache. Novara-Exped., Geol. Theil I, 1864, 256, xxiv, 2a, b.
- **philippii**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 248, vii, 76.
- **pigmæa**, Schwager. Jahresb. Ver. vat. Nat. Württ. XXI, 1865, 138, vii, 8. [*Polimorphina* on p. 138, and *pygmæa* in descript. of plates.]
- **piriformis**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 302, xxxiii, 2.
- **polita**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 139, xiv (xxii), 23-25.
- **polygona**, Terquem. Quatr. Mém. Foram. Lias, 1864, 305, xiv, 16-41.
- Terquem, Quatr. Mém. Foram. Oolithique, 1874, 304, xxxiii, 7-14.
- Terq. et Berth., Mém. Soc. géol. France, [2], x, 1875, 70, vi (xvi), 3.
- Terquem, Mém. Soc. géol. France, [3], IV, 1886, 63, vii, 18a, b.
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- **pusilla**, Ehr. Monatsbericht k. pr. Ak. Wiss. Berlin, 1872, 291.
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- **sacculus**, Terquem. Quatr. Mém. Foram. Lias, 1864, 303, xiii, 43*a*, *b*.
- **schwageri**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 384, xvii, 43.
- **segnenzana**, Brady. Report Challenger, 1884, 567, lxxii, 16 and 17.
- **semicostata**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 150, ii, 19*a*, *b*, *c*.
- **semiplana**, Reuss. Sitz. k. Ak. Wiss. Wien, lxii, 1870, 488, No. 16 ; von Schlieht, Foram. Pietzpuhl, 1870, xxvii, 22-33, 36, 37.
- **semitecta**, Reuss. Sitz. k. Ak. Wiss. Wien, lv, Abth. 1, 1867, 91, iii, 10*a*-*c*.

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- **silicea**, Schultze. *Organismus Polythal.* 1854, 61, vi, 10 and 11. [= *Verneuil. polystropha.*]
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- (**Glob.**) **striata**, Egger. *Neues Jahrbuch*, 1857, 291, xiv, 3 and 4.
- **subacuta**, d'Orb., 1847. *Prodrome de Paléont.* iii, 1852, 159, No. 2978. [*P. acuta*, d'O., 1846.]
- **subcompressa**, d'Orb., 1847. *Prodrome de Paléont.* iii, 1852, 159, No. 2976. [*P. compressa*, d'O., 1846.]
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- **subdilata**, Egger. Neues Jahrbuch, 1857, 286, xiii, 30–33.
- **subnodosa**, Reuss. Sitz. k. Ak. Wiss. Wien, xlii, 1860 (1861), 362, ii, 15.
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- **undulosa**, Terquem. Mém. Soc. géol. France, [3], i, 1878, 41, iii (viii), 35*a*–36*b*.
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- **uvula**, Ehr. Mikrogeologie, 1854, xxvi, 28. [= *P. problema*.]
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- ? see *Canopus*.
- see *Guttulina*.
- see *Globulina*.
- see *Pyrrulina*.
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- sp., Selwager. Boll. R. Com. geol. Ital. 1877, viii, 26, pl., 88.
- POLYSPHÆRINA**, Deshayes, 1830. See *Globulina*, Deshayes.
- POLYSTOMATIUM**, Ehr., 1855. Abh. k. pr. Ak. Wiss. Berlin, 1855, 172, v, xii. [= *Polystomella*.] [Glauc.]
- *leptactis*, Ehr. Abh. k. pr. Ak. Wiss. Berlin, 1855, 171, v, xiii-xv. [= *Polystomella craticulata*; see Carpenter, "Introd.," xvi, 9.] [Glauc.]
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- *burdigalensis*, d'Orb., 1847. D'Orb., Prodrôme de Paléont. III, 1852, 155, No. 2885. [= "*Nonion semistriata*, d'O., 1825."]
- *calcar*, Brown. Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 1, i, 1 and 2. [= "*Crist. rotulata*."]
- *calcar*, G. B. Sowerby. Foram. Colne Tidal River, 1856, [privately printed], plate, fig. 4. [?" a *Cristellaria*.]
- *canariensis*, Reeve. Conch. system. II, 1842, 291, cexevii, 7. [*Globigerina*, d'Orb. = "*Globigerina*."]
- *complanata*, d'Orbigny. Barker-Webb & Berthelot, Hist. Nat. Iles Canaries, II, pt. 2, 1839, "Foraminifères," 129, ii, 35 and 36.
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- *crassula*, Walk., var. *scapha*. F. & M. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 114, viii, 299 and 300. [*Nautilus*, 1798.]
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- _____ v. (*Nonion*.) *stelligera* (d'O.). Parker & Jones, Phil. Trans. 1865, 404, xiv, 40 and 41.
- _____ v. *striatopunctata* (F. & M.). Parker & Jones, Phil. Trans. 1865, 402, xiv, 31-34; xvii, 60*a*, *b*. [See *P. striatopunctata*.]
- _____ v. (*Nonion*.) *turgida* (Will.). Parker & Jones, Phil. Trans. 1865, 405, xvii, 57*a*, *b*, *c*.
- _____ v. (*Nonion*.) *umbilicatula* (Mont.). Parker & Jones, Phil. Trans. 1865, 405, xiv, 42*a*, *b*; xvii, 58 and 59.
- _____ Hartwig, The Sea, ed. 3, 1866, 381, fig. c.
- _____ J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., ii, 40-43.
- _____ Greene, Man. Protozoa, 1871, 15, fig. 3*c*.
- _____ Dawson, Canad. Nat. vi, 1872, 255, iii, 2. [= *P. arctica*.]
- _____ Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 24, i, 19*a*, *b*; (and Mém. Soc. Dunkerquoise).
- _____ [Lam.]. Toula, Mitth. geogr. Ges. Wien, xviii, 1875, 165, pl., 20.
- _____ [Lam.]. Zittel, Handbuch Palaeont., Abth. 1, 1876, 101, fig. 41.
- _____ [Lam.]. Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 25, pl., 16.
- _____ Nicholson, Manual Palaeont. 1879, i, 118, fig. 18*s*.
- _____ Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 214, iv, 71 and 72.
- _____ v. *crassa*, Mübius. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 101, xi, 4-7; xii. [Structural.]
- _____ v. (*Nonion*.) *umbilicatula*, Mont. Hamilton, Trans. N. Zealand Inst. xiii, 1881, 395, xvi, 14.
- _____ v. *poeyana*, d'Orb. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 116, viii, 301 and 302. [See *P. poeyana*.]
- _____ Jones, in Microgr. Diet. ed. 4, 1883, 623, xxiii, 55; xxiv, 20*a*, *b*.
- _____ West, Journ. Postal Micros. Soc. ii, pt. 5, 1883, 41, xxi, 1-3.
- _____ Brady, Report Challenger, 1884, 736, ex, 6 and 7.

- POLYSTOMELLA** *crispa* [Linn.]. Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162 fig.
- _____ Gümberl, Geol. Bayern, Th. I, Lief. 2, 1885, fig. 266, 25.
- _____ Dawson, Handbook Zoölogy, ed. 3, 1886, 45, fig. 37.
- _____ [= *P. arctica*.]
- _____ Hogg, Microscope, 1886, 375, fig. 207³.
- _____ Anon., Sci. News, 4 May, 1888, 413, fig. 18.
- _____ Verworm, Zeitschr. Wiss. Zool. (Siebold's), XLVI, 1888, 462, xxxii, 7, 8, 9, and figs. *g*, *h*, *i*; and Ann. Mag. Nat. Hist. [6], II, 1888, 161, ix, 4, 5, and 6.
- _____ Steinmann, Elem. Paléont. I, 1888, 32, fig. 17A.
- _____ [d'Orb.] Walther, Mitth. Zool. Stat. Neapel, VIII, 1888, 382, xx, 7.
- _____ Prestwich, Geology, 1888, ii, 420, 210a.
- _____ Terrigi, Mem. R. Acc. Lincei, [4], VI, 1889, 120, x, 6.
- [_____] Targioni, Relaz. d' ale. viaggi, IV, 1770, p. viii, pl. 1, figs. 6, 7, and 8. [See *Nautilo*.]
- [_____] Soldani, Testac. I, pt. 1, 1789, p. 54, pl. 33F and pl. 34G, H = this form. See also *Nautilo striati*.
- _____ = *P. macella* (F. & M.); see *Nautilo striati communes (crispi* Linnaei).
- _____ See *Themcon*.
- _____ **cryptostoma**, Egger. Neues Jahrbuch, 1857, 301, ix, 19 and 20.
- _____ **depressura**, Brown. Illnstr. Recent Conch. Gt. Brit. ed. 2, 1844, 1, i, 3. [= *Crist. rotulata*.]
- _____ **depressula**, G. B. Sowerby. Foram. Colne Tidal River, 1856 [privately printed], plate, fig. 1. [= *P. crispa*.]
- _____ **decipiens**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 220, xix, 13A, B.
- _____ **discoidalis**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 56, vi, 23 and 24; also in Spanish, 1840, 76, same pl. and fig.
- _____ **discrepans**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 478, iv, 7a, b.
- _____ **etrusca**, DeFrance. Dict. Sci. Nat. xxxii, 1824, 183; Blainville, Malacol. 1825, 389.
- _____ **excavata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 25, ii, 2a-f; (and Mém. Soc. Dunkerquoise).
- _____ **exoleta**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, n. d., xix, 10.
- _____ **fichtelliana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 125, vi, 7 and 8.
- _____ Mackie, Recreative Science, I, 1859, 147, fig. 11.
- _____ Karrer, Novara-Exped., Geol. Theil I, 1864, 83, xvi, 15.
- [**fichteliana**] _____ Uhlig, Jahrb. k. k. geol. Reichs. xxxiii, 1883, 773, viii, 7.
- [**fichteli**] _____ Walther, Mitth. Zool. Stat. Neapel, VIII, 1888, 382, xx, 9.
- _____ **flexuosa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 127, vi, 15 and 16.
- _____ Reuss, Denkschr. k. Ak. Wiss. Wien, I, 1850, 370, xlvi, 3.
- _____ Egger. Neues Jahrbuch, 1857, 303, xv, 21 and 22.
- _____ Eichwald, Lethaea Rossica, III, 1853, 3, i, 1a, b, c.
- _____ Terquem, Mém. Soc. géol. France, [3], II, 1882, 48, ii (x), 27a, b.
- _____ Walther, Mitth. Zool. Stat. Neapel, VIII, 1888, 382, xx, 5.
- _____ **gaimardii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 284, No. 5.
- _____ **gibba**, Schultze. Organismus Polythal. 1854, 66, vi, 1-4.
- _____ **granulata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 214, xi [error for x], 7a, A, B, C.
- _____ **hauerina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 122, vi, 1 and 2.
- _____ **imperatrix**, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 66.

- POLYSTOMELLA imperatrix**, Brady. Report Challenger, 1884, 738, ex, 13-15.
- **indigena**, Eichwald. Lethaea Rossica, III, 1853, 4, i, 2a, b, c. [*Lenticulina*, 1830.]
- **inflata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 358, i, 10a, b.
- **josephina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 130, vi, 25 and 26.
- ———— Egger, Neues Jahrbuch, 1857, 303, xv, 10 and 11.
- ———— Hoernes, Elem. Palaeont. 1884, 25, fig. 11; French ed. 1886, same fig.
- **karreri**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, IX, 1875, 128, ii, 4.
- **laevigata**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 288, ii, 7.
- ———— Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, II verzam. 3 dl. 2 stk. 1847, 18, not fig'd.
- **laminata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 16, i (vi), 8a, b.
- ———— Terquem, Mém. Soc. géol. France, [3], II, 1882, 47, ii (x), 24a, b.
- **lanieri**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 54, vii, 12 and 13; also in Spanish, 1840, 74, same pl. and fig.
- ———— Quenstedt, Handbuch Petref. ed. 3, Abth. 5, (1885) 1056, lxxxvi, 42.
- **latidorsata**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxxiii, 1864, 10, i, 16.
- **lessonii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 284, No. 6.
- ———— D'Orbigny, Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 29, iii, 1 and 2.
- **listeri**, d'Orbigny. Foram. Fossiles Vienne, 1846, 128, vi, 19-22.
- **macella** (F. & M.). P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 239, xii, 154. [See *Nautilus*, 1798.]
- ———— Brady, Report Challenger, 1884, 737, ex, 8, 9, 11, and 10?
- ———— Terrigi, Mem. R. Acc. Lincei, [4], VI, 1889, 120, x, 3.
- ———— See *Ammonie*.
- ———— See *Elphidium* and *Geophonus*.
- **metensis**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 628, iv, 7a, b.
- **minima**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 333, xvii, 38, 38a.
- **minuta**, Reuss. Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 478, iv, 6a, b.
- **nobilis**, Karrer. Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 710, ii, 15.
- ? ———— **obscura**, Schwager. Palaeontographica, xxx, Pal. Theil, 1883, 138, xxvii (4), 2a-c.
- **obtusa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 124, vi, 5 and 6.
- **oceanensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 285, No. 8.
- **ornata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 215, x, 8; xix, 16A, B, C.
- **ortenburgensis**, Egger. Neues Jahrbuch, 1857, 302, xv, 7-9.
- **oweniana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 30, iii, 3 and 4.
- **planulata**, Lamarek. Hist. Anim. s. Vert. VII, 1822, 625.
- ———— Defrance, Dict. Sci. Nat. xxxii, 1824, 183; Atlas, Conch. xv, 8. [= *P. macella* (F. & M.).]
- ———— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 388, viii [error for vii], 8.
- ———— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 18, iv bis, 8.

- POLYSTOMELLA poeyana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 55, vi, 25 and 26; also in Spanish, 1840, 75, same pl. and fig.
- ? ——— **polypora**, Gumbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 231, iv, 6a, b.
- **punctata**, Terquem. Mém. Soc. géol. France, [3], i, 1878, 16, i (vi), 7a, b.
- **quaterpunctata**, Abich. Mém. Ac. Imp. Sci. [Math. Phys.] St. Pétersbourg, [6], vii, 1859, ix, 8a, b.
- **regina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 129, vi, 23 and 24.
- ———— Mackie, Recreative Science, i, 1859, 147, fig. 12.
- **rotula**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 288, ii, 8.
- **rugosa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 123, vi, 3 and 4.
- ———— Pictet, Traité de Paléont. 2 ed. iv, 1857, 505, cix, 24.
- **sagra**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 55, vi, 19 and 20; also in Spanish, 1840, 74, same pl. and fig.
- **salentina**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 218, xix, 12A, B, C.
- **savii**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 287, i, 7.
- ———— Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, II verzam. 3 dl. 2 stk. 1847, 18, not fig'd.
- **semistriata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, p. 284, No. 7.
- **spinulosa**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, n. d., xix, 14.
- **stella-borealis** (Ehr.). In Schultze, Organismus Polythal. 1854, 67, vi, 5 and 6.
- **striatopunctata** (Fichtel & Moll). J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., ii, 38, 39. [*Nautilus*, 1798.]
- ———— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 241, xii, 156. [v. *Robulina sulcata*, d'O.]
- ———— Schulze, Arch. mikrosk. Anat. xiii, 1877, 9, etc. ii, 4-6.
- [Structural.]
- ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 216, iv, 73 and 74.
- ———— Jones, in Microgr. Dict. ed. 4, 1883, 623, xxiv, 19.
- ———— Brady, Report Challenger, 1884, 733, cix, 22, 23.
- ———— B., P., & J., Trans. Zool. Soc. xii, pt. 7, 1888, 230, xliii, 17.
- ———— Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 120, x, 2.
- ———— Soldani, Testac. i, 1, 1789, 54, pl. 34ee, ff = this form.
- ———— See *P. crispera* (Linn.).
- **strigilata** (F. & M.). Schultze, Organismus Polythal. 1854, 64, iv and v. [*Nautilus*, 1798.] [Structural.]
- ———— Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 71, v, 1 and 2.
- ———— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 211, xi, 1 and 2.
- ———— Schlumberger, F. Jenn. Nat., Feb. 1882, ii, 10 (after Schultze).
- ———— = *P. crispera*; see *Nautili striati*, etc.
- ———— See *Andromedes*.
- ———— var. See *Sporilus*.
- **striolata**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, n. d., xix, 15, 18.
- **subaculeata**, Eichwald. Lethaea Rossica, iii, 1855, i, 3a, b, c.
- **subcarinata**, Egger. Neues Jahrbuch, 1857, 301, xiv, 24 and 25.
- **subnodosa** (v. M.). Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 240, iv, 51. [*Robulina*, 1838.]
- ———— Brady, Report Challenger, 1884, 734, ex, 1a, b.

- POLYSTOMELLA** *subumbilicata*, Czjzek. Haidinger's Nat. Abh. II, 1848, 143, xii, 32 and 33.
- *tenuissima*, Karrer. Novara-Exped., Geol. Theil I, 1864, 83, xvi, 17 [error for 16].
- *teretiuscula*, Terquem. Mém. Soc. géol. France, [3], I, 1878, 16, i (vi), 9a-10b.
- *umbilicata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 285, No. 9.
- *umbilicatula*, Walker & Boys. See *Nautilus*.
- Williamson, Recent British Foram. 1858, 42, iii, 81, 82, 82a (v. *incerta*). [= *P. striatopunctata*.]
- v. *incerta*, Williamson. Recent British Foram. 1858, 44, iii, 82a. [= *P. arctica*, P. & J.]
- Dawson, Canad. Nat. IV, 1859, 27, fig. 1.
- Cooke, Thousand Objects Microsc. 1869, 92, ix, 17.
- Terquem, Ess. Anim. Plage Dunkerque, pt. I, 1875, 25, ii, 3a, b; (and Mém. Soc. Dunkerquoise).
- West, Journ. Postal Micros. Soc. II, pt. 5, 1883, 42, xxi, 4 and 5.
- *ungeri*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 369, xlviii, 2.
- *venusta*, Schultze. Organismus Polythal. 1854, 67, vi, 7-9.
- Haeckel, Das Protistenreich, 1878, 36, fig. 20.
- *verriculata*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 66.
- Brady, Report Challenger, 1884, 738, ex, 12a, b.
- *vortex*, Blainville. Man. Malacol. 1825, 389. [= *Cristellaria*, q. v.]
- *vulgaris*, Reeve. Conch. system. II, 1842, 291, cexcvii, 8. [*Planorbulina*, d'O. = *Planorb.*]
- [———?] Ledermüller, Mikr. Gemüths, 1763, 16, viii, b.
- Pictet, Traité de Paléont. IV, 1846, 229, xii, 11.
- Rütimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, iv, 57.
- Carpenter, Parker, & Jones, Introd. Foram. 1862, 276, xvi. [Structural.]
- J. G. Wood, Common Objects Micro. 1867, 121, xii, 13.
- Carpenter, Ency. Brit. 9th ed. IX, 1879, Foraminifera, 374, i, 16.
- ind. Abich, Geol. Forsch. Kaukas. Ländern, 1882, 239, x, 6.
- sp. Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 230, xliii, 18.
- Neumayr, Stämme d. Thierreiches, I, 1889 (8), 185, fig. 27b.
- see *Nautila*.
- see *Nautilus*.
- “**Polythalamia**” (cretaceous), Hitchcock, Elem. Geology, 1860, 30th ed. 382, 383, figures. [*Textularia*, *Globig.*, *Planorb.*]
- POLYTREMA**, Risso, 1826. Hist. Nat. Europe Mérid. V, 1826, 340; Brady, Report Challenger, 1884, 719.
- *balaniforme*, Carter, 1876. Carter, Ann. Mag. Nat. Hist. [4], XVII, 1876, 198, xiii, 7-10. [*Carpenteria*, Gray, 1858.]
- *corallina*, Risso. Hist. Nat. Europe Mérid. V, 1826, 340, n. fig.
- *cylindricum*, Carter. Ann. Mag. Nat. Hist. [5], V, 1880, 441, xviii, 1a-g.
- *marticensis*, Sassin d'Allard. Bull. Soc. géol. France, [3], XII, 1884, 565.
- *mesentericum*, Carter. Ann. Mag. Nat. Hist. [5], V, 1880, 444, xviii, 3a-h.
- *miniacea* (Pallas). See *Millepora*, 1766.
- [Esper]. Defrance, Dict. Sci. Nat. Atlas, Zooph. 1816-30, XLIV, 4, 4a.
- Blainville, Actinologie, 1834, 410, lxix, 4, 4a.
- [*miniaceum*] Schultze, Arch. für Naturgesch. (Wiegmann's), 1863 (29th Jahrg.), I, 81-102, pl. viii; and Ann. Mag. Nat. Hist. [3], XII, 1863, 408, vii.
- [*miniaceum*], [Blainv. (1834)]. Carter, Ann. Mag. Nat. Hist. [4], XVII, 1876, 185, xiii, 1-6.

- POLYTRÉMA** [*miniaceum*], v. *album*, Carter. Ann. Mag. Nat. Hist. [4], XIX, 1877, 213, xiii, 14.
 ——— [*miniaceum*], v. *cinnamomum*, Carter. Ann. Mag. Nat. Hist. [4], XIX, 1877, xiii, 15.
 ——— [*miniaceum*] ——— Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 85, vii, 1-17. [Structural.]
 ——— [*miniaceum*] ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 208, ix, 11.
 ——— [*miniaceum*] [(Linn.)]. Brady, Report Challenger, 1884, 721c, 5-9; cl, 1.
 ——— [*miniaceum*] ——— v. *alba*, Carter. Brady, Report Challenger, 1884, 721, cl, 2 and 3.
 ——— [*miniaceum*] ——— Agassiz, Three Cruises "Blake," II, 1888, 169, fig. 519.
 ——— *planum*, Carter. Ann. Mag. Nat. Hist. [4], XVII, 1876, 211, xiii, 18 and 19. [In *ibidem*, [5], v, 1880, 445, Carter refers this to *Gypsina melobesoides*.]
 ——— *rubra*, Lamarek. See *Millepora*.
 ——— ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 235, xiii, 18-20. [= *miniaceum*.] [Structural.]
 ——— ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 72.
 ——— *utriculare*, Carter. Ann. Mag. Nat. Hist. [4], XVII, 1876, 210, xiii, 11-16. [v. *Carpenteria*.]
- POLYTRYPA** *elongata*, DeFrance. Diet. Sci. Nat. XLII, 1826, 453; Atlas, Zooph. XLVIII, 1.
 ——— ——— Blainville, Actinologie, 1834, lxxiii, 1.
 ——— = *Larvaria* = *Dactylopora* = Calcareous Alga.
- Polytrypes**, see *Polytrypa*.
- POLYXENES** *cribratus*, Montfort. Conch. syst. I, 1808, 139, 35th genre. [= *Planorb. farcta*.]
- POROSPHÆRA** *globularis* (Phillips). Steinmann, Palaeontographica, XXV, 1878, 120, xiii, 8-12. [*Millepora*, 1829; *Tragos*, 1845; *Coscinopora*, 1852; ?*Bradya*, 1877.]
- POROSPIRA**, Ehrenberg, 1844. Ber. k. pr. Ak. Wiss. Berlin, 1844, 75.
 ——— *comes*, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1844, 67 and 95; and Mikrogeologie, 1854, xxi, 93. [= *Planorb. ammonoides*, v.]
 ——— *forbesii*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1858, 26.
 ——— *indica*, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1845, 373.
 ——— *leptomphala*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1872, 291.
 ——— *lingua*, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1844, p. 95.
 ——— *naxi*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1858, 27.
 ——— *osculata*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1858, 27.
 ——— *princeps*, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1844, 67 and 95; and Mikrogeologie, 1854, xxi, 92. [= *Planulina turgida*, young = *Planorb. ammonoides*.]
 ——— ——— Ehr. Mikrogeologie, 1854, xxiv, 53. [= *Planulina ariminensis*, d'O.]
 ——— *planulina*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1872, 291.
 ——— ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 11.
 ——— *quaternata*, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1845, 373.
 ——— *septenaria*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1872, 291.
 ——— ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 10.
 ——— *sphærotheca*, Ehr. Monatsber. k. pr. Ak. Wiss. Berlin, 1872, 292.
 ——— *stichopora*, Ehrenberg. [v. *Aristerospira*.]
- Porpitæ** *nummulares*, Stobæus. Dis. epist. ad W. Grotthaus, de Numm. Bratt. 1732. [= *Orbitolites*.]
- Porpitæ** *soluti*, Soldani. Testac. II, App. 1798, p. 140, pl. 4, 34g, G, h, H. [*Soldania spirorbis*, d'O. Ann. Sci. Nat. VII, 1826, p. 281, 2.]

- Porpitiæ soluti, rotundi, numismatis**, figura, Soldani. Sagg. Oritt. 1780, 106, iv, 34*G*, *H*. [= *Assilina*.]
- Porpitiæ**, Guettard, Mém. diff. parties Science, etc. III, 1770, 431, xii, 15 and 17. [= ? *Alveolina*.]
- Porpiten**, Fortis, Beschreib. Thales Ronca, 1779, 14, i, 1. [Also called "pietra da soldo."] [= *Nummulites*.]
- Porpites**, Deluc, Journ. Physique, LVI, 1802, 325, etc. plate, fig. 7-12. [*Orbitolites*.]
- PREMNAMMINA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 136, n. d. (2 species proposed under generic name of *Psammecchinus*); and Congrès Scient. Dax, 1882 (1883), 327.
- PROBLEMATINA**, Bornemann, 1874. Zeitschr. deutsch. geol. Ges. xxvi, 1874, 733.
- **deslongchampsii** (Terq.). Idem, 733. [*Involutina*, 1863.]
- **nodosa** (Terq.). Idem, 735. [*Involutina*, 1866.]
- **petræa** (Terq.). Idem, 734. [*Involutina*, 1866.]
- PROTOPORUS**, Ehrenberg, 1844. Ber. k. pr. Ak. Wiss. Berlin, 1844, 75.
- **argus**, Ehr. Mikrogeologie, 1854, xx, ii, 8. [= *Boliv. punctata*.]
- ? —— **clavulina**, Ehr. Mikrogeologie, 1854, xxx, 15. [= *Boliv. dilatata* = *B. incrassata*, Reuss.]
- **complanatus**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 231, xii, 5*a*, *b*.
- ——— Reuss' Models, No. 41, 1865 (Catal., No. 76, 1861). [= 1st stage of a *Bigenerina*.]
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 33.
- **cretæ**, Ehr. Mikrogeologie, 1854, xxvii, 29, and xxviii, 20. [= *Polym. thouini*.]
- ? Ehr. Mikrogeologie, 1854, xxxvii, vi, 2. [= ? *Polymorphina*.]
- **cylindroides**, Roemer. Reuss, in Geinitz, Grundr. Verstein, 1845-46, 678, xxiv, 80. [*Polymorphina*, 1838.]
- ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 234, xxxv², 31*a*, *b*.
- ? —— **denticulatus**, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1845, 374.
- **lingua**, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1844, 67 and 95; and Mikrogeologie, 1854, xxi, 83. [= *Boliv. punctata*, ribbed v.]
- **obtusus**, Ehr. Mikrogeologie, 1854, xxxii, ii, 23. [= *Polym. compressa*.]
- ? —— Ehr., Mikrogeologie, 1854, xxxii, II, 24. [= *Bigen. digitata*, d'O.]
- **ombonii**, Hantken. Ertek. Termesz. köreböl, XIII, No. 1, 1883, 10, i, 3; and Math. Nat. Ber. Ungarn, II, 1884, 131.
- ? —— (**Gramm.**?) **pachyderma**, Ehr. Mikrogeologie, 1854, xxxiii, 25. [= *Text. agglutinans*.]
- **schultzei**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 80, ix, 10*a*, *b*.
- **siculus**, Ehr. Mikrogeologie, 1854, xxvi, 18. [= probably *Polym. thouini*.]
- **subdepressus**, Münster. Reuss, in Geinitz, Grundr. Verstein. 1845-46, 679, xxiv, 81. [*Polymorphina*, 1838.]
- **verrucosus**, Ehr. Mikrogeologie, 1854, xxix, 29. [= *Polym. tuberculata*, (d'O.).]
- Schwager, Jahresh. Ver. vat. Nat. Württ. XXI, 1865, vii, 19.
- PROTEONINA**, Williamson, 1858. Recent British Foram. 1858, 1.
- **fusiformis**, Williamson. Recent British Foram. 1858, 1, i, 1. [v. also *Reophax*.]
- **lævigata**, Terquem. Ess. Anim. Plage Dunkerque, pt. I, 1875, 20, i, 2*a*, *b*; (and Mém. Soc. Dunkerquoise). [= ?.]
- **pseudospirale**, Williamson. Recent British Foram. 1858, 2, i, 2 and 3. [v. also *Haplophragmium*.]

- PROTEONINA rugosa**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 20, i, 1a, b; (and Mém. Soc. Dunkerquoise).
 — sp. Carpenter, Proc. Roy. Soc. xviii, 1869, 60; The Microscope, ed. 5, 1875, 533, figs. d, e, f. [= *Marsipella elongata*, Norman.]
- PSAMMATODENDRON**, Norman, MS., 1881. Brady, Denkschr. k. Ak. Wiss. Wien, XLIII, 1881, 98, No. 13; Ann. Mag. Nat. Hist. [5], VIII, 1881, 404.
 — *arborescens*, Norman, MS. Idem. [v. *Hyperammima*.]
- PSAMMECHINUS**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv. [v. *Premnammina*.]
- PSAMMOLYCHNA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 136, n. d.; 5 species proposed!
- PSAMMOPERIDIA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 135, n. d.; 2 species proposed.
- PSAMMOSIPHON**, G. R. Vine. Quart. Journ. Geol. Soc. xxxviii, 1882, 390. [This form, of which the type is *P. amplexus*, was considered by Vine to be an annelid; F. Chapman, in Quart. Journ. Geol. Soc. 1895, shows it to be a Foraminifer.]
- PSAMMOSPHERA**, F. E. Schulze, 1875. II. Jahresb. Comm. Wiss. Untersuch. deutsch. Meer in Kiel, 1875, 113; Brady, Report Challenger, 1884, 249.
 — *fusca*, Schulze. II. Jahresb. Comm. Wiss. Untersuch. deutsch. Meer in Kiel, 1875, 113, ii, 8a-f.
 — ——— Brady, Q. Journ. Micr. Sci. xix, 1879, 27, iv, 1 and 2.
 — ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 202, v, 6.
 — ——— Haeusler, Neues Jahrbuch, 1883, i, 57, iii, 1.
 — ——— Haeusler, Quart. Journ. Geol. Soc. xxxix, 1883, 26, ii, 1.
 — ——— Brady, Report Challenger, 1884, 249, xviii, 1-8.
 — ——— De Folin, Le Naturaliste, Ann. 10, 1888, 110, figs. 4 and 5.
 — de Folin, Le Naturaliste, Ann. 9, 1887, 127, fig. 13.
- PSAMMOZOTIKA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 138, n. d.; 1 sp. proposed.
- PSECADIUM**, Reuss, MS. [before 1856]. Reuss, Sitz. k. Ak. Wiss. Wien, XLIV (1), 1861, 383. [Although this genus was used by Neugeboren in 1856, Reuss does not appear to have described it before 1861.] [= *Glandulina*.]
 — *acuminatum*, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, Abth. 1, 1870, 478; v. Schlicht. Foram. Septar. Pietzpuhl, 1870, xxv, 1-10.
 — *ellipticum*, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, 2, 1856, 99, v, 14.
 — ——— Reuss' Models, No. 29, 1865 (Catal., No. 55, 1861).
 — *elongatum*, Reuss. Zeitschr. deutsch. geol. Ges. x. 1858, 437, No. 1.
 — *nussdorfense*, Karrer. Abh. k. k. geol. Reichs. ix. 1877, 379, xvi b, 23.
 — *ovatum*, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 139, xiii, 8.
 — *simplex*, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, 2, 1856, 99, v, 13.
 — *subovatum*, Karrer. Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 706, i, 7.
- PSEUDOTEXTULARIA**, Rzehak, 1886. Verh. Nat. Ver. Brunn, xxiv, Heft 1, 1885 (1886), Sitzungsber. 8.
- PSEUDOTRUNCATULINA**, Andreae, 1884.
 — *dutemplei* (d'Orb.). Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 213, viii, 10. [*Rotalina*, 1846.]
 — Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 214, fig. 9.
- PTYGOSTOMUM**, Ehrenberg, 1841. Abh. k. Ak. Wiss. Berlin, 1841, 409.
 — *oligoporum*, Ehr. Abh. k. Ak. Wiss. Berlin, III, vii, 51, 1841, 427. [= *Planorbulina*?]

- PTYGOSTOMUM orphei**, Ehr. Ber. k. pr. Ak. Wiss. Berlin, 1854, 248.
 ——— Ehr., Mikrogeologie, 1854, xxxv, B, iv, 1 and 2. [= *Globig. bulloides.*]
 ——— **quinarium**, Ehr. Mikrogeologie, 1854, xxxii, i, 28. [= *Globig. hirsuta*, d'O.]
 ——— Ehr., Mikrogeologie, 1854, xxv, i, A, 43. [= *Planorb. vulgaris.*]
 ——— **senarium**, Ehr. Mikrogeologie, 1854, xxxii, i, 27. [= *Globig. hirsuta*, d'O.]
 ——— Ehr., Mikrogeologie, 1854, xxv, i, A, 42. [= *Planorb. vulgaris.*]
 ——— sp., Harting, Verh. Kon. Ak. Wetensch. x, 1864, 9, i, 6 and 7.
- PTYKA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 139, n. d.; 1 sp. proposed.
- PULLENIA**, Parker & Jones, 1862. C., P., & J., Introd. Foram. 1862, 184; Brady, Report Challenger, 1884, 614.
 ——— **bulloides** (d'Orbigny). C., P., & J., Introd. Foram. 1862, 184, xii, 12. [*Nonionina*, 1826.]
 ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 50, x, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 59, same pl. and fig.
 ——— Zittel, Handbuch Palaeont., Abth. I, 1876, 88, fig. 25².
 ——— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 25, pl., 14.
 ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 211, ix, 14.
 ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 206, ix, 23.
 ——— Steimmann, Elem. Paléont. I, 1888, 32, fig. 16.
- communis** (d'Orb.). Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 50, x, 10; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 59, same pl. and fig. [*P. elongata*, Hantk., on plate.] [See *Nonionina*.]
 ——— **compressa**, Segnenza. Atti R. Acc. Lineei, [3], VI, 1880, 221, xvii, 14, 14a.
 ——— **compressiuscula**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1866, 150.
 ——— v. **quadriloba**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 87, iii, 8a, b.
 ——— v. **quinqueloba**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 87.
 ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 206, ix, 22.
- elongata**, Hantken. See *P. communis*, d'Orb.; = *Nonionina*.
falx (Czjzek). Terrigi, Atti Acc. Pont. Nuovi Lineei, xxxiii, 1880, 190, i, 22. [*Nonionina*, 1843.]
 ——— **obliquiloculata**, Parker & Jones. Phil. Trans. 1865, 368, xix, 4a, b.
 ——— Brady, Report Challenger, 1884, 618, lxxxiv, 16-20.
 ——— **quinqueloba**, Reuss. Brady, Report Challenger, 1884, 617, lxxxiv, 14 and 15. [*Nonionina*, 1851.]
 ——— Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 348, xii, 29a, 29b.
 ——— Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 226, xliii, 22 and 23.
 ——— Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 487, xi, 29.
- sphaeroides**, d'Orbigny. Parker & Jones, Phil. Trans. 1865, 368, xiv, 43a, b; xvii, 53. [*Nonionina*, 1826.]
 ——— J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., ii, 31 and 32.

- PULLENIA sphaeroides**, d'Orbigny. Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 18, i, 21.
 ———— Hamilton, Trans. N. Zealand Inst. xiii, 1881, 396, xvi, 15.
 ———— Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 104, viii, 248-250.
 ———— Brady, Report Challenger, 1884, 615, lxxxiv, 12 and 13; and cut, fig. 18, 616.
 ———— Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 348, xii, 28a, 28b.
 ———— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 756, xvi, 10a, b.
 ———— Brady, Parker, & Jones, Trans. Zool. Soc. xii, pt. 7, 1888, 226, xliii, 21 and 24.
- PULVINULINA**, Parker & Jones, 1862. Carpenter, Parker, & Jones, Introd. Foram. 1862, 201; Brady, Report Challenger, 1884, 681.
 ———— **affinis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 68, x, 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 78, same pl. and fig.
 ———— **auricula** (Fichtel & Moll). J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., ii, 33-35. [*Nautilus*, 1798.]
 ———— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 173, xii, 143. [See *Rotalia brogniarti*, d'O.]
 ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 206, iii, 58.
 ———— Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 109, viii, 273-275.
 ———— Brady, Report Challenger, 1884, 688, cvi, 5a, b, c.
 ———— Malagoli, Atti Soc. Nat. Modena, (Rend.) 3, iii, 1887, 110, i, 16.
 ———— Agassiz, Three Cruises "Blake," ii, 1888, 169, fig. 515.
 ———— Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 119, ix, 2.
 ———— Soldani, Testac. 1, 1, 1789, 56, pl. 37E = this form.
 ———— see *Cancris*.
- **badensis** (Czjzek). Carpenter, Parker, & Jones, Introd. Foram. 1862, 201, fig. xxxii, A. [*Rotalina*, 1848.]
 ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 199, iii, 43.
- **berthelotiana** (d'Orbigny). Brady, Report Challenger, 1884, 701, evi, 1a, b, c. [See *Rotalina*, 1839.]
- **bimammata** (Gümb.). Ublig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 192, iii, 7 and 8; v, 4, 5, and 8. [*Rotalia*, 1868.]
- **brœckiana**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 140, vi, 12.
- **brogniarti** [brogniarti], d'Orb. Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 68, ix, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 78, same pl. and fig. [Given as *Pulv. budensis* in deser. of plate.]
- **boucana** (d'Orbigny). Reuss, Denksehr. k. Ak. Wiss. Wien, xxv, 1865, 161, iv, 14. [*Rotalina*, 1846.]
 ———— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 758, xvi, 20a-c.
- **budensis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), not deser., ix, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), same pl. and fig. [See *P. brogniarti*.]
- cf. **campanella**, Gümbel. Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 131, xxviii (5), 3a-d. [*Rotalia*, 1868.]
- **canariensis** (d'Orb.). S. R. J. Owen, Journ. Linnean Soc. (Zool.) ix, 1867, 148, v, 20 and 21. [*Rotalina*, 1839.]
 ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 207, iii, 59, 60.

- PULVINULINA canariensis** (d'Orb.). Brady, Report Challenger, 1884, 692, ciii, 8-10.
- Hogg, *Microscope*, 1886, xviii, iii, 84.
See *P. repanda* (F. & M.).
- **candidula**, Schwager. *Palaeontographica*, xxx, 1883, Pal. Theil, 133, xxviii (5), 10a-d.
- **caracolla** (Roemer). See *Gyroidina*.
Soldani, *Testac.* 1, 1, 1789, 56, pl. 38G = var. of this form.
- **communis** (d'Orbigny). P., J., & B. [Soldani], *Ann. Mag. Nat. Hist.* [4], viii, 1871, 173, xii, 145. [*Rotalia*, 1826.]
- **concentrica**, Parker & Jones, MS. Brady, *Trans. Linnean Soc.* xxiv, 1864, 470, xlvi, 14.
Brady, Report Challenger, 1884, 686, ev, 1a, b, c.
Uhlig, *Jahrb. k. k. geol. Reichsanstalt*, xxxvi, 1886, 190, iii, 3 and 4.
Soldani, *Testac.* 1, 1, 1789, 56, pl. 37B = this form.
- **contraria**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LXII, 1870, 490, No. 3; v. Schlicht, *Foram. Pietzpuhl*, 1870, xxii, 10-13.
- **cordieriana** (d'Orb.). Jones, *Cat. Foss. Foram. Brit. Mus.* 1882, 88. [*Rotalina*, 1840.]
- **cordiformis** (Costa). Reuss, *Sitz. k. Ak. Wiss. Wien*, LV, Abth. 1, 1867, 103, v, 3a, b. [*Valulina*, 1856.]
- **crassa** (d'Orbigny). S. R. J. Owen, *Journ. Linn. Soc. (Zool.)* ix, 1867, 148, v, 18 and 19. [*Rotalina*, 1840.]
Brady, Report Challenger, 1884, 694, ciii, 11 and 12.
- **deludens**, Schwager. *Palaeontographica*, xxx, 1883, Pal. Theil, 135, no figure.
- **dispansa**, Brady. Report Challenger, 1884, 687, ev, 3a, b.
- **elegans** (d'Orbigny). P., J., & B. [Soldani], *Ann. Mag. Nat. Hist.* [4], viii, 1871, 174, xii, 142. [*Rotalia*, 1826.]
- Tate & Blake, *Yorkshire Lias*, 1876, 472, xvii, 38, 38a.
Goës, *K. Svenska Vet.-Akad. Handl.* XIX, No. 4, 1882, 111, viii, 283-285.
- v. **trochus**, Roemer. Goës, *K. Svenska Vet.-Akad. Handl.* XIX, No. 4, 1882, 112, viii, 286-288. [*Rotalia*, 1838.]
- v. **tenella**, Jones. *Quart. Journ. Geol. Soc.* XL, 1884, 771, xxxiv, 17a, b.
Brady, Report Challenger, 1884, 699, ev, 4, 5, and 6.
[Brady]. *Walther, Mitth. Zool. Stat. Neapel*, viii, 1888, 382, xx, 6.
B., P., & J., *Trans. Zool. Soc.* XII, pt. 7, 1888, 228, xlvi, 2.
Sherborn & Chapman, *Journ. R. Micr. Soc.* 1889, 487, xi, 30-32.
See *P. repanda* (F. & M.).
- **erinacea**, Karrer. *Sitz. k. Ak. Wiss. Wien*, LVIII, Abth. 1, 1868, 187, v, 6.
- **exigua**, Brady. Report Challenger, 1884, 696, ciii, 13 and 14.
- **eximia**, Rzehak. *Ann. k. k. Nat. Hofmuseums*, III, Heft 3, 1888, 263, xi, 7a, b, c.
- **favus**, Brady. *Geol. Mag.* [2], iv, 1877, 535 [not figured].
Brady, Report Challenger, 1884, 701, civ, 12-16.
- **formosa**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LIX, Abth. 1, 1869, 464, iii, 1a-c.
- **haidingeri** (d'Orb.). Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 67, xv, 10; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 77, same pl. and fig. [*Rotalina*, 1846.]
- **hauerii** (d'Orbigny). Brady, Report Challenger, 1884, 690, evi, 6 and 7. [*Rotalina*, 1846.]
- **karsteni** (Reuss). Brady, *Trans. Linnean Soc.* xxiv, 1864, 470, xlvi, 15. [See *Rotalia*, 1855.]

- PULVINULINA karsteni** (Reuss). J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., ii, 28-30.
- Anon., Science Gossip, 1870, 11, fig. 25.
- Brady, Ann. Mag. Nat. Hist. [5], 1, 1878, 436, xxi, 11a-c.
- Brady, Report Challenger, 1884, 698, cv, 8 and 9.
- Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 758, xvi, 21a-c.
- See *P. repanda* (F. & M.).
- **kiliani**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 255, xi, 1.
- **kovacsiensis**, Hantken. Math. Nat. Ber. Ungarn, III, 1885, 177.
- **lateralis** (Terq.). Brady, Report Challenger, 1884, 689, cvi, 2, 3. [*Rosalina*, 1878.]
- **lobata**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 67, x, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 77, same pl. and fig. [Given as *Truncatulina* in Magyar descr. of plate.]
- **lobsannensis**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 218, viii, 16.
- **lotus**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 132, xxviii (5), 9a-d.
- **mediterraneanensis** (d'O.). P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 172, xii, 141. [*Rosalina*, 1826.]
- **menardii** (d'Orbigny). S. R. J. Owen, Journ. Linn. Soc. (Zool.) ix, 1867, 148, v, 16. [*Rotalia*, 1826.]
- Thomson, Proc. Roy. Soc. xxiii, 1875, 37, iii, 1 and 2.
- v. **cultrata**, d'Orb. Vanden Broeck, Ann. Soc. Belge Micros. II, 1876, 141, iii, 13 and 15; and Fonds de la Mer, III, (1876). [= *Cristellaria*.]
- v. **tumida**, Brady. Geol. Mag. [2], iv, 1877, 535 [not figured]. [See *P. tumida*.]
- Wy. Thomson, Voyage Challenger, 1877, ii, 218, fig. 48a, b.
- Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 112, viii, 289-295.
- Brady, Report Challenger, 1884, 690, ciii, 1 and 2.
- v. **fimbriata**, Brady. Report Challenger, 1884, 691, ciii, 3a, b.
- Hogg, Microscope, 1886, xviii, iii, 85.
- Malagoli, Boll. Soc. geol. Ital. vi, 1887, 523, xiii, 10.
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 228, xlvi, 3.
- Agassiz, Three Cruises "Blake," II, 1888, 169, figs. 516, 517.
- See *P. repanda* (F. & M.).
- **meneghinii**, Hantken. Ertek. Termesz. köreböl, XIII, No. 1, 1883, 31, iii, 2a, b, c; and Math. Nat. Ber. Ungarn, II, 1884, p. 151.
- **melcheliniana** (d'Orbigny). S. R. J. Owen, Journ. Linn. Soc. (Zool.) ix, 1867, 148, v, 17. [*Rotalina*, 1840.]
- Vine, Science Gossip, 1878, 52, figs. 28-30.
- Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 114, viii, 296-298.
- Brady, Report Challenger, 1884, 694, civ, 1 and 2.
- Hogg, Microscope, 1886, xviii, iii, 83.
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 229, xlvi, 9 and 10.
- See *P. repanda* (F. & M.).
- **moelleri**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 130, xxvii (4), 15a-d.
- **mokattamensis** (var.), Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 134, xxviii (5), 11a-d.

- PULVINULINA nonioninoides**, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 256, xi, 2.
- **normanni**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 97, v, 24; and Bol. Com. Map. Geol. Españ. VII, 1880, 280, F, 10.
- **oblonga** (Will.). Brady, Report Challenger, 1884, 688, cvi, 4a, b, c. [*Rotalina*, 1858.]
- v. **scabra**, Brady. Report Challenger, 1884, 689, cvi, 8a, b, c.
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 229, xlv, 5.
- **partschiana** (d'Orbigny). See *Rotalina*, 1846.
- Reuss, Sitz. k. Ak. Wiss. Wien, LXII, 1870, 36; v. Schlicht, Foram. Septar. Pietzpuhl, 1870, xx, 23-25, 29-31.
- [**partschii**] Zittel, Handb. Pal., Abth. I, 1876, 94, fig. 32¹.
- [**partschii**] Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 42.
- Brady, Report Challenger, 1884, 699, cv, 3a, b, c; and 700, cut 21.
- **patagonica** (d'O.). Brady, Report Challenger, 1884, 693, cviii, 7a, b, c. [*Rotalina*, 1839.]
- **pauperata**, Parker & Jones. Phil. Trans. 1865, 395, xvi, 50, 51a, 51b. [See *P. repanda* (F. & M.).]
- Brady, Report Challenger, 1884, 696, civ, 3-11.
- **perlata**, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 216, viii, 12.
- **petrolei**, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 217, viii, 15.
- **procera**, Brady. Quart. Journ. Mier. Sci. XXI, 1881, 66.
- Brady, Report Challenger, 1884, 698, cv, 7a, b, c.
- **prominens**, Reuss. Sitz. k. Ak. Wiss. Wien; LIX, Abth. 1, 1869, 463, iii, 2a-c.
- **punctulata** (d'Orb.). Brady, Report Challenger, 1884, 685, civ, 17a, b, c. [*Rotalia*, 1826.]
- varr. Sherborn & Chapman, Journ. R. Mier. Soc. [2], VI, 1886, 758, xvi, 22a-c, 23a-c.
- See *P. repanda* (F. & M.).
- **pulchella** (d'Orbigny). J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., ii, 25-27. [*Rotalia*, 1826.]
- Soldani, Testac. I, 1, 1789, 56, pl. 35R = this form.
- See *Cidarollus*.
- **pygmea**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 67, x, 8; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 78, same pl. and fig. [Given as *Truncatulina* in descr. of plate.]
- [**pygmæa**, Hantk.]. Andreae, Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 216, viii, 13.
- **repanda** (Fichtel & Moll), (varr.). Parker & Jones, Phil. Trans. 1865, 390, xiv, 12-17, xvi, 35-51. [*Nautilus*, 1798.]
- v. **elegans** (d'O.). Parker & Jones, Phil. Trans. 1865, 397, xvi, 44-46. [*Rotalia*, 1826.]
- v. **karsteni** (Rss.). Parker & Jones, Phil. Trans. 1865, 396, xiv, 14, 15, and 17, xv, 38-40. [*Rotalia*, 1855.]
- v. **menardii** (d'O.). Parker & Jones, Phil. Trans. 1865, 394, xvi, 35-37. [*Rotalia*, 1826.]
- v. **menardii** (d'O.), subv. **canariensis** (d'O.). Parker & Jones, Phil. Trans. 1865, 395, xvi, 47-49. [*Rotalina*, 1839.]
- v. **menardii** (d'O.), subv. **miceliniana** (d'O.). Parker & Jones, Phil. Trans. 1865, 396, xiv, 16, xvi, 41-43. [*Rotalina*, 1840.]
- v. **menardii** (d'O.), subv. **pauperata**, Parker & Jones. Phil. Trans. 1865, 395, xvi, 50, 51a, 51b. [See *P. pauperata*.]

- PULVINULINA repanda** (Fichtel & Moll), v. **punctatula** (d'O.). Parker & Jones, Phil. Trans. 1865, 394, xiv, 12 and 13. [*Rotalia*, 1826.]
- J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., ii, 22, 24.
- Anon., Science Gossip, 1870, 11, fig. 24. [= *Rosalina concamerata*, Will.]
- P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 172, xii, 140. [See *Rosalina mediterraneensis*, d'O.]
- Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 206, iii, 61.
- Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 110, viii, 276-282.
- Jones, in Microgr. Diet. ed. 4, 1883, 648, xxiv, 16a, b, c.
- Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 198, iii, 42.
- Brady, Report Challenger, 1884, 684, civ, 18a, b, c.
- v. **concamerata**, Montagu var. Brady, Report Challenger, 1884, 685, civ, 19a, b, c. [*Serpula*, 1808; fide Williamson. See also *Rotalina* and notes in Report Challenger, 685.]
- Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 757, xvi, 18a-c.
- v. **concamerata**, Will. Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 758, xvi, 19a-c. [*Serpula*, 1808.]
- Soldani, Testac. i, 1, 1789, 56, pl. 37C, D, F = var. of this form.
- v. **pulchella**, d'O. Soldani, Testac. i, 1, 1789, 56, pl. 36S, V, X = var. of this form. [*X* = *P. boueana* (d'O.).] [See *Rotalia*.]
- vermicular var. See *Fruventaria 7 speciei*.
- **rjäsanensis**, Uhlig. Jahrb. k. k. geol. Reichs. xxxiii, 1883, 772, viii, 4-6.
- **rotula** (Kaufmann). Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 193, iii, 5, 6; v, 6, 7. [*Hemistegina*, 1867.]
- **sacculata**, Jones & Parker. Ann. Mag. Nat. Hist. [4], xvii, 1876, 284, cuts, 1, 2, and 3.
- **schreibersii** (d'Orbigny). Brady, Report Challenger, 1884, 697, cxv, 1a, b, c. [*Rotalina*, 1846.]
- Brady, Parker, & Jones, Trans. Zool. Soc. xii, pt. 7, 1888, 228, xvi, 4.
- **scitula**, Brady. Proc. Roy. Soc. Edinburgh, xi, 1882, 716, not figured.
- Balkwill & Millett, Journ. Micr. iii, 1884, 85, iv, 12.
- **semiorната**, Howchin. Trans. R. Soc. S. Austr. xii, 1889, 14, i, 12.
- **semiplecta**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 130, xxvii (4), 16a-d.
- **similis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 68, x, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 78, same pl. and fig.
- **soldanii** (d'O.). P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 172, xii, 144. [*Rosalina*, 1826.]
- Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 199, iii, 44.
- Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 119, ix, 3.
- **spinulifera** (Reuss). Steinmann, Elem. Paléont. i, 1888, 20 and 30, figs. 3Ba and 13. [*Rotalia*, 1862.]
- Prestwich, Geology, 1888, ii, 278, 144b.
- **sanctæ-odiliæ**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. ii, Heft 3, 1884, 224, viii, 17.
- **subinflata** (var.), Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 131, xxvii (4), 11a-d.

- PULVINULINA** *terquemi*, Schwager. *Palaeontographica*, xxx, 1883, Pal. Theil, 134, xxviii (5), 3a-d.
- *trochiformis*, Andreae. *Abh. geol. Specialkarte Elsass-Lothr.* II, Heft 3, 1884, 216, viii, 14.
- *truncatulinoides* (d'Orbigny). Parker & Jones, *Phil. Trans.* 1865, 398, xvi, 41-43. [*Rotalina*, 1839.]
- *tumida*, Brady. *Report Challenger*, 1884, 692, ciii, 4-6. [*P. menardii*, var. 1877.]
- *umbilicata* (d'Orb.). Jones, *Geologist*, vi, 1863, 294 and 432, xv, 9-11. [*Rotalina*, 1840.]
- *umbilicata*, Hantken. *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), not descr., xv, 9; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), same pl. and fig. [Given as *Discorb. disca* in German text, 76.]
- *umbonata*, Reuss. Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 67, ix, 8; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 77, same pl. and fig. [*Rotalina*, 1851.]
- ——— Terrigi, *Atti Acc. Pont. Nuovi Lineei*, xxxv, 1883, 200, iv, 45, 46.
- ——— Brady, *Report Challenger*, 1884, 695, cv, 2a, b, c.
- *vermiculata* (d'Orbigny). Carpenter, Parker, & Jones, *Introd. Foram.* 1862, 211, xiii, 4-6. [*Planorbulina*, 1826.] [Structural.]
- ——— P., J., & B. [Soldani], *Ann. Mag. Nat. Hist.* [4], viii, 1871, 178, xii, 146.
- ——— Bütschli, in Bronn, *Klassen*, etc. *Thier-Reichs*, 1880, 207, ix, 5.
- [*vermicularis*] ——— Jones, in *Microgr. Dict.* ed. 4, 1883, 648, xxiv, 11.
- ——— Brady, *Report Challenger*, 1884, 687, cxv, 2a, b.
- see *Eponides*.
- ? see *Jesites*.
- see *Nautilus*.
- PULVINULUS**, Lamarek, 1816.
- *asterisans* [F. & M.]. Lamarek, *Ency. Method.*, "Vers," (1830), n. d., 466, f. 10 (pls. 1827), (P. & J. quote pt. 23, 1816).
- *repandus* [F. & M.]. Lamarek, *Ency. Method.*, "Vers," (1830), n. d., 466, f. 9 (pls. 1827), (P. & J. quote pt. 23, 1816).
- Pulvis ut supra, sed ex microscopicis prorsus Testis, etc.** Soldani, *Sagg. Oritt.* 1780, 110, viii, 46AA, BB. [= *Gyroidina orbicularis*.]
- Pulvis ut supra, sed ex microscopicis prorsus Testis, etc.** Soldani, *Sagg. Oritt.* 1780, 110, viii, 46CC. [= *Nodos. scalaris*, Batsch.]
- Pulvis ut supra, sed ex microscopicis prorsus Testis, etc.** Soldani, *Sagg. Oritt.* 1780, 110, viii, 46DD. [= *Gyroidina soldanii*.]
- Pulvis ut supra, sed ex microscopicis prorsus Testis, etc.** Soldani, *Sagg. Oritt.* 1780, 110, viii, 46EE. [= *Pulvinulina auricula*.]
- Pulvis ut supra, sed ex microscopicis prorsus Testis, etc.** Soldani, *Sagg. Oritt.* 1780, 110, vii, 46XX, YY. [= *Rotalia soldanii*, var.]
- Pulvis ut supra, sed ex microscopicis prorsus Testis, etc.** Soldani, *Sagg. Oritt.* 1780, 110, vii, 46ZZ. [= *Amphistegina lessoni*.]
- PUPINA**, d'Orbigny. Reuss, in Geinitz, *Grundriss Verstein.* 1845-1846, 646. [D'Orbigny, in De la Sagra's *Hist. phys. Ile Cuba*, 1839, "Foraminifères," 109, describes the genus *Chrysalidina*; as the locality for his species is the same as that quoted by Reuss, and as only one species was known to d'Orbigny, it is fair to assume that *Pupina* was a misquotation.]
- PUSTULARIA**, Gray, 1858. *Proc. Zool. Soc. London*, xxvi, 1858, 271. [= *Polytrema*.]
- *rosa*, Gray. *Proc. Zool. Soc. London*, xxvi, 1858, 271, not fig'd. [= *Polytrema miniaceum*.]

- PYLODEXIA**, Ehrenberg, 1858. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 27.
- *atlantica*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 292.
 - ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 2.
 - *globigerina*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 292.
 - *glomerulus*, Ehr. Monatsber. k. preuss. Ak. Wiss. Berlin, 1861, 308.
 - ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 23.
 - *heteropora*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 292.
 - *megastoma*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 292.
 - *platytetras*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
 - ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 14.
 - *pusilla*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 27. [= *Globig. pusilla*.]
 - *rubra*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
 - *tetratrias*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 27. [= "*Globigerina*."]
 - ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 8.
 - *uvula*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
 - ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), ii, 24 and 25.
- PYRGO**, DeFrance, 1824.
- *lævis*, DeFrance. Dict. Sci. Nat. xxxii, 1824, 273; Atlas, Conch. lxxxviii, 2. [= *Biloc. bulloides*, d'O.]
 - ———— Blainville, Malacologie, 1825 (pls. 1827), 482, lxii bis, 2.
 - ———— Cuvier, Animal Kingdom, Henderson's ed. iii, 1834 (pls. 1837), 22, vii, 13; and Griffith ed. xii (1834), 21, iii, 13.
 - ———— [Blainv.] Cuvier, Règne Animal, 1836-46, ix (plates, x), 37, xviii, 2.
 - *mediterranea*, Risso. Hist. Nat. Europe, iv, 1826, 25.
- PYRULINA**,* d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 267.
- *acuminata*, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 43, iv, 18 and 19; facsimile in Science Gossip, 1870, 157, fig. 150. [See *Poly-morphina*.]
 - ———— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 670, xxiv, 64.
 - ———— Bronn, Lethaea Geognostica, ed. 3, ii, 1851-52, 88, xxix¹, 16a, b
 - ———— Bendant, Géologie, ed. 8, 1858, 117, fig. 97; later eds. same fig.
 - *gutta*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 267, No. 28. [See *Poly-morphina*.]
 - ———— Reuss' Models, No. 96, 1865 (Catal., No. 68, 1861).
 - *obtusa*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 79, ix, 9.
 - *ovulum*, Ehrenberg. Mikrogeologie, 1854, xxxi, 35 and 36. [= *Polym. lactea*, W. & J.]
 - von Schlicht, Foram. Septar. Pietzpuhl, 1870, plates xxv and xxvii.
- "**Quadriloculaires**," Terquem, Mém. Soc. géol. France, [3], iv, 1886, 72-75, viii, 21-43. [Merely a classificatory term for some *Miliolina*.]
- QUINQUELOCULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 301.
- *abnormis*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 178, xix (xxvii), 13a-d.
 - *affinis*, Costa. Atti Accad. Pont. vii, fas. 2, 1856, 329, xxv, 13A, B, C.
 - *affinis*, Eichwald. Lethaea Rossica, iii, 1853, 13, i, 15a-d. [*Miliola*, 1830.]
 - *affinis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 302, No. 41.
 - *agglutinans*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 195, xii, 11-13; also in Spanish, 1840, 168, same pl. and fig. [See *Miliola* and *Miliolina*.]

* Given by d'Orbigny as a subgenus of *Poly-morphina*.

- QUINQUELOCULINA akneriana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 290, xviii, 16-21. [See *Miliolina*.]
 ————— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 85, xii, 5a, b, c; (and Mém. Soc. Dunkerquoise).
 ————— **alata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 38, vi, 2a, b, c; (and Mém. Soc. Dunkerquoise).
 ————— **anguina**, Terq. Mém. Soc. géol. France, [3], I, 1878, 78, ix (xiv), 20a-c.
 ————— Terquem, Mém. Soc. géol. France, [3], II, 1882, 180, xix (xxvii), 20a-c.
 ————— **angularis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 23.
 ————— **angulata**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 334, xxxvii, 13-18.
 ————— **angulata** (Will.). Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 40, vi, 13a, b, c; (and Mém. Soc. Dunkerquoise). [See *Miliolina bicornis*, var.]
 ————— **angusta** (Phil.). Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 253, ix, 90. [*Triloculina*, 1843.]
 ————— **angustidentata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 175, xviii (xxvi), 26-28.
 ————— **angustissima**, Rss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 384, xlix, 18.
 ————— **annularis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 180, xix (xxvii), 17a-c.
 ————— **antillarum**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 194, xii, 4-7 [error for 4-6]; also in Spanish, 1840, 167, same pl. and fig.
 ————— **araucana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 76, ix, 13-15.
 ————— **arenosa**, Terquem. Mém. Soc. géol. France, [3], IV, 1886, 87, x, 19-41.
 ————— **argus**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 374.
 ————— **ariminensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 16.
 ————— **aspera**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 11.
 ————— Terquem, Mém. Soc. géol. France, [3], I, 1878, 65, vi (xi), 11a-c.
 ————— = *Q. seminulum* (Linn.); see *Frumentaria seminula*.
 ————— **asperula**, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 120, ii, 6, 6a and 6b.
 ————— Schwager, Novara-Exped., Geol. Theil II, 1866, 203, iv, 16a, b, c.
 ————— **atropos**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 152, iii, 6.
 ————— **auberiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 193, xii, 1-3; also in Spanish, 1840, 167, same pl. and fig. [See *Miliolina*.]
 ————— **badenensis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 299, xx, 10-12.
 ————— **bajociana**, Terquem. Bull. Soc. géol. France, [3], IV, 1876, 499, xvii, 24.
 ————— **berthelotiana**, d'Orbigny. Barker, Webb, & Berthelot, Hist. Nat. Iles Canaries, 1839, ii, pt. 2, "Foraminifères," 142, iii, 25-27.
 ————— **bicarinata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 35.
 ————— Terquem, Mém. Soc. géol. France, [3], I, 1878, 68, vii (xii), 10a-c.
 ————— **bicarinella**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 456, i, 6a-c.
 ————— **bicornis** (Walk.). Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 39, vi, 6a, b, c; (and Mém. Soc. Dunkerquoise). [*Serpula*, 1798.]
 ————— v. **elegans**, Will. Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 39, vi, 7a, b; (and Mém. Soc. Dunkerquoise). [See *Miliolina bicornis*, var.]

- QUINQUELOCULINA bicostata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 195, xii, 8-10; also in Spanish, 1840, 168, same pl. and fig.
- **bidentata**, d'Orb. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 197, xii, 18-20; also in Spanish, 1840, 169, same pl. and fig.
- **biondi**, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 119, ii, 7, 7a and 7b.
- **birostris** (Lam.). Terquem, Mém. Soc. géol. France, [3], II, 1882, 181, xix (xxvii), 23a, b. [*Miliolites*, 1804.]
- **bistorta**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 78, ix (xiv), 21a-c.
- **bosciana**, d'Orb. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 191, xi, 22-24; also in Spanish, 1840, 165, same pl. and fig.
- **boueana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 293, xix, 7-9. [See *Miliolina*.]
- **Costa**, Atti Accad. Pontaniana, VII, fas. 2, 1856, 329, xxv, 15A, B, C.
- **Terquem**, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 84, xii, 1a, b, c; (and Mém. Soc. Dunkerquoise).
- **brauni**, Reuss. Neues Jahrbuch, 1853, 674, ix, 4.
- **brongniartii**, d'Orb. J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, 14, iii, 41 and 42, iv, 2. [*Triloculina*, 1826.]
- **Jones**, in Microgr. Dict. ed. 4, 1883, 651, xxiii, 6a, b.
- **bronniana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 287, xviii, 4-6.
- **buchiana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 289, xviii, 10-12.
- **Costa**, Atti Accad. Pontaniana, VII, fas. 2, 1856, 327, xxvi, 7A, B, C.
- **bulloides**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 9.
- **Terquem**, Mém. Soc. géol. France, [3], I, 1878, 66, vi (xi), 17a-19c.
- **canaliculata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 74, viii (xiii), 23a-c.
- **candeiana**, d'Orb. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 199, xii, 24-26; also in Spanish, 1840, 170, same pl. and fig.
- **Brady**, Ann. Mag. Nat. Hist. [4], VI, 1870, 286, xi, 1a, b.
- **carinata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 28.
- **Terquem**, Mém. Soc. géol. France, [3], II, 1882, viii (xxvi), 16 and 17.
- ? —— **caudata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 374 and 376. [See *Spiroloc. caudata*.]
- ? —— ? Ehr., Mikrogeologie, 1854, xxiii, 52. [= ?]
- **centrata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 177, xix (xxvii), 3-5.
- **clotho**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 146, ii, 5.
- **cognata**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 350, xix, 7.
- **compressa**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 85, vii (xvii), 11a, b.
- **concava**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 386, li, 2.
- **concinna**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 384, I, 2.
- **confusa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 42, ii, 8a-c.
- **conica**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 187, xx (xxviii), 22a-c.
- **contorta**, d'Orbigny. Foram. Fossiles Vienne, 1846, 298, xx, 4-6.
- **Terquem**, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 81, xi, 4a, b, c; (and Mém. Soc. Dunkerquoise).
- [**contortus** ?], d'Orb. Balkwill & Millett, Journ. Micr. III, 1884, 24, i, 2.

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 ——— **dimidiata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 81, xi, 5*a*, *b*, *c*; (and Mém. Soc. Dunkerquoise).
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 _____ **gracilis**, Karrer. Sitz. k. Ak. Wiss. Wien, IV, Abth. 1, 1867, 361, iii, 2.
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- **pauperata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 286, xvii, 22-24.
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- **philippii**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 252, ix, 87.
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- **planciana**, d'Orbigny. De la Sagra, Hist. Phisq. etc. Cuba, 1839, "Foraminifères," 186, x, 24 and 25, xi, 4-6; also in Spanish, 1840, 162, same pl. and figs.
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- RENULINA**, Lamarek, 1822. Hist. Anim. s. Vert. VII, 1822, 605.
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——— ——— Brady, Report Challenger, 1884, 293, xxx, 23 and 24.

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——— ——— Brady, Report Challenger, 1884, 293, xxx, 21 and 22.

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v, 8.

——— ——— Brady, Report Challenger, 1884, 289, xxx, 1-5.

——— ——— Haeusler, Neues Jahrbuch, Beil. iv, Heft 1, 1885, 9, i, 1.

——— ——— Neumayr, Stämme d. Thierreiches, I, 1880 (8), 173, fig. 17b.

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——— ——— Brady, Report Challenger, 1884, 296, xxxi, 18-22.

——— *findens* (Parker). Brady, Report Challenger, 1884, 299, xxxii, 10 and 11. [*Lituola*, 1870.]

——— *fusiformis* (Will.). Brady, Report Challenger, 1884, 290, xxx, 7-11. [*Proteonina*, 1858.]

——— ——— Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 217, xli, 18.

——— *guttifera*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 49.

——— ——— Brady, Report Challenger, 1884, 295, xxxi, 10-15.

——— *helvetica*, Haeusler. Neues Jahrbuch, 1883, i, 59, iii, 11.

——— ——— Haeusler, Quart. Journ. Geol. Soc. XXXIX, 1883, 27, ii, 8-10.

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——— ——— Brady, Report Challenger, 1884, 297, xxxii, 1-4.

——— *moniliforme*, Siddall. Proc. Lit. Phil. Soc. Liverpool, XL, 1886, Appendix, Fauna Liverpool Bay, 54, i, 2.

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——— ——— var. Haeusler, Neues Jahrbuch, Beil. iv, Heft 1, 1885, 10, i, 6 and 7.

——— *nodulosa*, Brady. Quart. Journ. Micr. Sci. XIX, 1879, 52, iv, 7 and 8.

——— ——— Brady, Report Challenger, 1884, 294, xxxi, 1-9.

- REOPHAX** *nodulosa*, Brady. Toutkowskii, Zap. Kievsk. Obsheh. Est. ix, 1888, 5, ii, 2a, b.
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- ———— Brady, Parker, & Jones, Trans. Zool. Soc. xii, pt. 7, 1888, 217, xli, 5-8.
- *polyeides*, Deecke. Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 19, i, 2-2c.
- [**RHEOPHAX**] ———— Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886, [14], ii, 20, 20a, and 29.
- *rudis*, Brady. Quart. Journ. Micr. Soc. xxi, 1881, 49. [This is the same as *R. sabulosa*.]
- ———— Carpenter, The Microscope, ed. 6, 1881, 564, fig. 321a, b.
- *sabulosa*, Brady. Proc. Roy. Soc. Edinburgh, xi, 1882, 715.
- ———— Brady, Report Challenger, 1884, 298, xxxii, 5 and 6.
- *scorpiurus*, Montfort. Conch. Syst. i, 1808, 331, 83d genre. [v. *Nodosaria*; *Lituola*; *L. nautiloidea*, var.; *Lituolina*.]
- ———— Carpenter, The Microscope, ed. 6, 1881, 564, fig. 321e.
- ———— Haensler, Quart. Journ. Geol. Soc. xxxix, 1883, 27, ii, 7.
- ———— Brady, Report Challenger, 1884, 291, xxx, 12-17.
- ———— Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 328, xiii, 5a and 5b.
- ———— Haensler, Neues Jahrbuch, Beil. iv, Heft 1, 1885, 9, i, 9-16.
- ———— Anon., Sci. News, 4 May, 1888, 413, fig. 9.
- ———— Agassiz, Three Cruises "Blake," ii, 1888, 163, fig. 495.
- ———— Brady, Parker, & Jones, Trans. Zool. Soc. xii, pt. 7, 1888, 217, xli, 10.
- *soldanii*, Parker & Jones. [*Lituola*, 1860.]
- (Lit.) *soldanii* [d'Orb.]. Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 199, v, 14.
- *spiculifera*, Brady. Quart. Journ. Micr. Sci. xix, 1879, 54, iv, 10-11.
- ———— Brady, Report Challenger, 1884, 295, xxxi, 16 and 17.
- *variabilis*, Haensler. Neues Jahrbuch, Beil. iv, Heft 1, 1885, 10, i, 8.
- sp. ind. Haensler, Neues Jahrbuch, 1883, i, 61, iv, 15.
- sp. ind. Haensler, Neues Jahrbuch, Beil. iv, Heft 1, 1885, 10, i, 2-4.
- (?) sp. Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 328, xiii, 9, and 22-24.
- (**Haplostiche**). Neumayr, Stämme d. Thierreiches, 1889, i, 172, fig. 16.
- ? ——— Wisnioski, Jahrbuch k. k. Geol. Reichs. xxxviii (1889), 695, xiii, 65, 66.
- De Folin, Bull. Soc. N. H. Toulouse, xv, 1881, 137; 9 new species proposed but not described!
- REOPHAXOPSIS** *elegans*, de Folin. Le Naturaliste, ix, 1887, 128, fig. 14.
- Retolia**, Haensler, misprint in quoting Williamson, Neues Jahrbuch, Beil. iv, Heft 1, 1885, 28. [v. *Rotalina*.]
- RETORTA**, Walker & Boys, 1784. Test. Min. rar. 1784, 3. [= *Adelosina*; see *Serpula* (*Retorta*).]
- REUSSIA** (*Verneuilina* aut.) *spinulosa* (Reuss). Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 66.
- RHABDAMMINA**, M. Sars, 1868. Forh. Vidensk.-Selsk. Christiania, 1868 (1869), 248; Brady, Report Challenger, 1884, 266. [See Haeckel's remarks under *Astrorhizidae*.]
- *abyssorum*, M. Sars. Forh. Vidensk.-Selsk. Christiania, 1868 (1869), 248.
- ———— Carpenter, The Microscope, ed. 6, 1881, 562, fig. 321c, d.
- ———— v. *robusta*, Goës. K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 143, xii, 430 and 431.
- ———— Brady, Report Challenger, 1884, 266, xxi, 1-13.

- RHABDAMMINA abyssorum**, M. Sars. De Folin, *Le Naturaliste*, ix, 1887, 127, fig. 12a.
 ———— Agassiz, *Three Cruises "Blake,"* II, 1888, 162, fig. 492, 163, fig. 493.
 ———— Neumayr, *Stämme d. Thierreiches*, I, 1889 (8), 173, fig. 17a.
 ———— **cornuta**, Brady. Proc. Roy. Soc. Edinburgh, xi, 1882, 714. [*Astrophiza*, 1879.]
 ———— Haeussler, *Neues Jahrbuch*, 1883, i, 57, iii, 2-3.
 ———— Brady, *Report Challenger*, 1884, 270, xxii, 11-13.
 ———— **discreta**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 48. [*Rhabdopleura*, sp. G. M. Dawson, 1870.]
 ———— Brady, *Report Challenger*, 1884, 268, xxii, 7-10.
 ———— **elliptica**, Deecke. Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 23, i, 1, 1a, b.
 ———— **hirsuta**, de Folin. *Le Naturaliste*, x, 1888, 122, figs. 6 and 7.
 ———— **linearis**, Brady. Quart. Journ. Micr. Sci. xix, 1879, 37, iii, 10 and 11.
 ———— Bütschli, in *Bronn, Klassen, etc. Thier-Reichs*, 1880, 194, v, 10.
 ———— Brady, *Report Challenger*, 1884, 269, xxii, 1-6.
 ———— Agassiz, *Three Cruises "Blake,"* II, 1888, 163, fig. 494.
 ———— **major**, de Folin. *Le Naturaliste*, ix, 1887, 127, fig. 12b.
 ———— **simplex**, M. Sars. Forh. Vidensk.-Selsk. Christiania, 1871 (1872), 252, [not described].
 ———— sp. ind. Haeussler, *Neues Jahrbuch*, 1883, i, 58, iii, 4 and 5.
 ———— De Folin, *Bull. Soc. N. H. Toulouse*, xv, 1881, 133; 43 new species proposed but not described !!
- RHABDAMINELLA**, de Folin, 1881. *Bull. Soc. N. H. Toulouse*, xv, 1881, 140, not described, 5 sp. proposed.
 ———— **prismoeginosa**, de Folin. *Le Naturaliste*, ix, 1887, 115, fig. 10.
- RHABDAMMINOPSIS**, de Folin, 1882. *Congrès Scient. Dax*, 1882 (1883), 323.
- RHABDELLA**, d'Archiac & Haime, 1854. *Deser. Anim. Foss. groupe nummulitique Inde*, II, 1854, 351. ["Petits cylindres simples, droits, très-lisses extérieurement, longs d'un millimètre et demi environ et larges d'un quart de millimètre."]
 ———— **malcolmi**, d'Arch. & Haime. *Deser. Anim. Foss. groupe nummulitique Inde*, II, 1854, 351, xxxvi, 18a, b.
 ? ———— sp. ind. Meneghini, *Paléont. Ile Sardaigne*, 1857, 330F, 11a, 11a'.
- RHABDOGONIUM**, Reuss, 1860. *Sitz. k. Ak. Wiss. Wien*, xl, 1860, 198; Brady, *Report Challenger*, 1884, 524.
 ———— **acutangulum**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVI, Abth. 1, 1862 (1863), 55, iv, 14a, b.
 ———— Reuss' *Models*, No. 26, 1865 (Catal., No. 49, 1861).
 ———— **anomalum**, Reuss. *Sitz. k. Ak. Wiss. Wien*, xl, 1860, 201, vii, 1.
 ———— **articulatum**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVI, Abth. 1, 1862 (1863), 55, v, 1a, b.
 ———— **budensis**, Hantken. *Magyar. földt. társ. Munkálatai*, iv, 1868, 90, i, 19a, b.
 ———— Hantken, *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 36, xiii, 12a, b; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 42, same pl. and fig.
 ———— **debile**, Gümbel. *Sitz. k.-bayer. Ak. Wiss.* I, 1871, 65, i, 8.
 ———— **excavatum**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVI, Abth. 1, 1862 (1863), 91, xii, 8a-c.
 ———— **globiferum**, Reuss. *Sitz. k. Ak. Wiss. Wien*, xl, 1860, 201, vii, 6.
 ———— **hæringense**, Gümbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 631, i, 55a, b.
 ———— **insigna**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVI, Abth. 1, 1862 (1863), 56, v, 2a, b.

- RHABDOGONIUM liasinum**, Berthelin. *Revue et Mag. zool.* 1879, 35, i, 18 and 19.
- **martensi**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVI, Abth. 1, 1862 (1863), 56, v, 4a, b.
- ———— Reuss' Models, No. 50, 1865 (Catal., No. 50, 1861).
- ———— Quenstedt, *Handbuch Petref. ed. 3*, Abth. 5 (1885), 1050, lxxxvi, 10.
- **minutum**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LV, Abth. 1, 1867, 84, v, 4a-c, 5a, b.
- ———— Brady, *Report Challenger*, 1884, 526, lxxvii, 4-6.
- **pygmæum**, Reuss. *Denkschr. k. Ak. Wiss. Wien*, xxv, 1865, 138, ii, 32.
- ———— Terquem, *Ess. Anim. Plage Dunkerque*, pt. 1, 1875, 22, i, 8; (and *Mém. Soc. Dunkerquoise*).
- **pyramidale**, Karrer. *Sitz. k. Ak. Wiss. Wien*, XLIV, Abth. 1, 1861 (1862), 441, i, 5.
- ———— Schwager, *Boll. R. Com. Geol. Ital.* VIII, 1877, 25, pl., 5.
- **roemeri**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XL, 1860, 201, vi, 7.
- **strombecki**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVI, Abth. 1, 1862 (1863), 56, v, 3a, b.
- **szaboi**, Hautken. *Magyar. földt. társ. Munkálatai*, IV, 1868, 90, i, 18a, b, c.
- **tricarinum** (d'Orbigny). Brady, *Report Challenger*, 1884, 525, lxxvii, 1-3. [*v. Vaginulina*, 1826.]
- ? ———— Balkwill & Wright, *Trans. R. Irish Ac.* xxviii (Sci.), 1885, 344, xii, 17 and 18.
- ———— Sherborn & Chapman, *Journ. R. Micr. Soc.* [2], VI, 1886, 752, xv, 16a, b.
- ———— Brady, Parker, & Jones, *Trans. Zool. Soc.* XII, pt. 7, 1888, 223, xiv, 3.
- RHABDOPLEURA**. A genus of polyzoan molluscs [Ray Lankester, *Nature*, Sept. 14, 1882, 478]. Dawson's sp. is considered by Brady to belong to the Foraminifer *Rhabdammina*.
- ? ———— G. M. Dawson, *Canad. Nat.*, n. s., v, 1870, 177, fig. 7. [= *Rhabdammina discreta*, Brady, 1884.]
- **abyssorum**, G. M. Dawson. *Amer. Journ. Sci.* [3], I, 1871, 206, fig. 7; and *Ann. Mag. Nat. Hist.* [4], VII, 1871, 86, fig. 7. [= *Rhabdammina discreta*, Brady.]
- RHAPHIDODENDRON**, Möbius, 1876. *Beilage Tagebl. 49 Vers. deutsch. Naturfor. Hamburg*, 1876, 115.
- **album**, Möbius. *Beilage Tagebl. 49 Vers. deutsch. Naturfor. Hamburg*, 1876, 115, no fig.
- RHAPHIDOHELIX**, Möbius, 1880. *Beitr. Meeresfauna Insel Mauritius, etc.* 1880, 76.
- **elegans**, Möbius. *Beitr. Meeresfauna Insel Mauritius, etc.* 1880, 76, ii, 2.
- RHEOPHAX**, see *Reophax*.
- RHINOCURUS**, Montfort, 1808. *Conch. Syst.* I, 1808, 235.
- **araneosus**, Montfort. *Conch. Syst.* I, 1808, 235, 59th genre. [= *Crist. calcar.*]
- RHIPIDOCYCLINA**, Gümbel, 1868. *Abh. k.-bayer. Ak. Wiss.* x, Abth. 2, 1868 (1870), 688. This subgenus of *Orbitoides* was proposed by Gümbel for the following forms: *O. nummulitica*, Gümbel; *O. multiplicata*, Gümbel; *O. strophiolata*, Gümbel; *O. karakaiensis* (d'Archiac).
- RHIZAMMINA**, Brady, 1879. *Quart. Journ. Micr. Sci.* XIX, 1879, 39; Brady, *Report Challenger*, 1884, 274. [See Haeckel's remarks under *Astro-rhiza*.]
- **algiformis**, Brady. *Quart. Journ. Micr. Sci.* XIX, 1879, 39, iv, 16 and 17.
- ———— Brady, *Report Challenger*, 1884, 274, xxviii, 1-11.

- RHIZAMMINA indivisa**, Brady. Report Challenger, 1884, 277, xxix, 5-7.
- RHIZOPELA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 1881, 140, not described, 1 sp. proposed.
- RHYNCHOSPIRA**, Ehrenberg, 1845. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 358. [See Brady, Report Challenger, 1884, 383 and 589.]
- **abnormis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 60, vii, 17-19; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 69, same pl. and fig.
- **glomerata** (Rss.). See *Globigerina*.
- **indica**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 376.
- RIMULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 257.
- **bicaudata**, Costa. Mem. Acc. Sci. Napoli, ii, 1855 (1857), 119, i, 11A, B, C. [?]
- **glabra**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 257, No. 1.
- ———— D'Orbigny, Modèles, No. 53, 1826.
- ———— D'Orbigny, Foraminif. Fossiles Vienne, 1846, 63, xxi, 5 and 6.
- ———— Carpenter, Parker, & Jones, Introd. Foram. 1862, 160, xii, 4.
- ———— Reuss' Models, No. 51, 1865 (Catal., No. 45, 1861).
- ———— P., J., & B. [d'O., Modèles, No. 53], Ann. Mag. Nat. Hist. [3], xvi, 1865, 27, i, 37.
- ———— Bütschli, in Brom, Klassen, etc. Thier-Reichs, 1880, 198, vii, 24.
- ———— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig. 11a, A.
- **ventricosa**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 177, xiii, 11a, A.
- ROBERTINA**, d'Orbigny, 1846. Foram. Fossiles Vienne, 1846, 202.
- **arctica**, d'Orbigny. Foram. Fossiles Vienne, 1846, 203, xxi, 37 and 38.
- ———— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 26, pl., 69.
- ———— Schlumberger, F. Jenn. Nat., Feb. 1882, ii, 2.
- **austriaca**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 375, xlvii, 15.
- ROBULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 287.
- **acknerana**, Nengeboren. Arch. Ver. siebenburg. Landesknude, N. F. x, Heft 2, 1872, 288, iii, 17 and 18.
- **aculeata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 289, No. 14.
- ———— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 664, xxiv, 36.
- ———— = *Crist. calcar* (Linn.). See *Nautili carinati*, etc.
- **acutiangulata**, Terquem. Mém. Ae. Imp. Metz, XLIV, 1863, 430, x, 19 [20] a, b.
- ———— var. **alta**, Deeeke. Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 50, ii, 17, 17a.
- **acutimargo**, Reuss. Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 640, ii, 76bis, a, b [76a and b, by error in descr. to plate]. [Reuss' sp. is *angustimargo*, q. v.]
- **alato-limbata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 641, ii, 70a, b.
- **ambigua**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, not deser., xx, 17.
- **angulata**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 154, viii, 6. [v. *Cristellaria*.]
- **angustimargo**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 67, iv, 22.
- ———— Bornemann, Zeitschr. deutsch. geol. Ges. vii, 1855, 332, xiv, 6 and 7 [and 10? young form].
- **antigua**, Michelotti. Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, [2], iii, (2), 1847, 14, i, 2.
- **arcuata**, Karrer. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 446, ii, 1.

- ROBULINA arcuato-striata**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 48, vii, 2; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 56, same pl. and fig.
- **ariminensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 289, No. 15. [v. *Cristellaria*.]
 ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 95, iv, 8 and 9.
 ——— Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 70, vi, 10a, b.
 ——— Mackie, Science Gossip, 1867, 130, fig. 125.
 ——— Jones, M. Micr. Journ. xv, 1876, cxxix, 10a, b. [= *Crist. costata*, F. & M., var.]
- **armata**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 282, ii, 6 and 7.
- **articulata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 53, v, 62a, b, vi, 63a, b. [v. *Cristellaria*.]
- **austriaca**, d'Orbigny. Foram. Fossiles Vienne, 1846, 103, v, 1 and 2.
 ——— Costa, Mem. Acc. Sci. Napoli, II, 1855 (1857), 122, i, 10A, B, C.
 ——— Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 286, iii, 7 and 8.
 ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 70, vii, 20a, b; (and Mém. Soc. Dunkerquoise).
- **baconica**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 49, xiv, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 58, same pl. and fig.
 ——— Jones, M. Micr. Journ. xv, 1876, cxxviii, 17.
- **badensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 37, iv, Geissberger Schicht, 2.
- **beyrichi**, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 332, xiv, 8 and 9 [? young form]. [v. *Cristellaria*.]
- **budensis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 49, vii, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 58, same pl. and fig.
 ——— Jones, M. Micr. Journ. xv, 1876, cxxviii, 5.
- **bullata**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 49, xiv, 13; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 58, same pl. and fig.
- **calcar** (Linné). v. *Nautilus*, 1758; and *Cristellaria*.
 ——— D'Orbigny, Ann. Sci. Nat. vii, 1826, 289, No. 12.
 ——— Michelotti, Mem. Soc. Ital. Sci. xxii, 1841, 292, ii, 6.
 ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 99, iv, 18–20.
 ——— Costa, Atti Accad. Pontaniana, vii, fas. 2, 1856, 195, x, 12a, A, C, xvii, 2a, A.
 ——— [d'Orb.]. Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 282, ii, 5.
 ——— Jones, M. Micr. Journ. xv, 1876, cxxviii, 16.
 ——— [d'Orb.]. Schlumberger, F. Jeun. Nat., Jan. 1882, i, 9.
 ——— [d'Orb.]. Hoernes, Elem. Palaeont. 1884, 28, fig. 19; French ed. 1886, same fig.
 ——— = *Crist. rostrata* (Montf.); see *Nautilus papillosus*.
- **canariensis**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 127, iii, 3 and 4.
 ——— Mackie, Science Gossip, 1867, 130, fig. 123.
- **cancellata**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 230, xix, 5A, B.
- **carinata**, Dunikowski. Kosmos [Lemberg], iv, 1879, 128, plate, 21.
- ? —— **caspia**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xii, 6.
- **centrata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 70, vii, 19; (and Mém. Soc. Dunkerquoise).

- ROBULINA clypeiformis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 101, iv, 23 and 24.
- var. *festonata*, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 196, x, 37A, B, C [error for 11], xix, 1.
- *compressa*, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 338, xv, 17.
- *compressa*, Egger. Neues Jahrbuch, 1857, 297, xiv, 12 and 13.
- *compressa*, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 280, ii, 1-4.
- *comptoni* (Sowerby). Roemer, Verst. norddeutsch. Kreide, 1840-41, 99, xv, 34. [v. *Nautilus*.]
- *concinna*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 52, v, 58a, b.
- *confusa*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 142, xiii, 21, 21a.
- *corona-lunæ*, Stache. Novara-Exped., Geol. Theil I, 1864, 250, xxiii, 29a, b.
- *crassa*, Roemer. Verst. norddeutsch. Kreide, 1840-41, 98, xv, 32.
- *crenata*, Hagenow. Neues Jahrb. f. Min. 1842, 572.
- *crstellina*, Ehrenberg. Mikrogeologie, 1854, xx, ii, 24. [= *C. rotulata*.]
- *cultrata*, de Montfort. D'Orbigny, Ann. Sci. Nat. vii, 1826, 287, No. 1; and d'Orbigny, Modèles, No. 82, 1826. [*Robulus*, 1808.]
- Michelotti, Mem. Soc. Ital. Sci. xxii, 1841, 291, ii, 5.
- ? Pilla, Distinz. terr. Etrurio, 1846, 104, i, 9.
- D'Orbigny, Foram. Fossiles Vienne, 1846, 96, iv, 10-13.
- Broun, Lethæa Geognostica, ed. 3, iii, 1853-56, 207, xxxv², 9a, b.
- [d'Orb.] var. *antipodum*, Stache. Novara-Exped., Geol. Theil I, 1864, 251, xxiii, 30a, b.
- P., J., & B. [d'O., Modèles, No. 82], Ann. Mag. Nat. Hist. [3], xvi, 1865, 32, i, 39.
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, fig. = *Crist.*, see *Nautili* (*Lenticulæ marginatæ*); and *Nautilus circumalati*, etc.; and *Naut. levi-lucido*, etc.
- *cunningii*, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 292, ii, 4.
- Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, [2], iii, (2), 1847, 14, i, 3.
- Bornemann, Zeitschr. deutsch. geol. Ges. xii, 1860, 156, vi, 1a, b.
- *curvicosta*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 144, xiii, 31 and 31a.
- *curvisepta*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 142, xiii, 20, 20a.
- *curvispira*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 144, xiii, 28a-c.
- *declivis*, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 333, xv, 11.
- Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 640, ii, 76a, b [76 bis, a and b by error in descr. to plate].
- *deformis*, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 70, iv, 30. [v. *Cristellaria*.]
- Bornemann, Zeitschr. deutsch. geol. Ges. vii, 1855, 337, xiv, 1-3.
- Reuss' Models, No. 33, 1865 (Catal., No. 63, 1861). [= 1st stage of *C. rotulata*.]
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 53, v, 60a, b, 61a, b.
- ? —— *denaria*, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 39. [= *Crist. rotulata*.]
- *depauperata*, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 70, iv, 29.

- ROBULINA depauperata**, Reuss. Bornemann, Zeitschr. deutsch. geol. Ges. vii, 1855, 337, xiv, 11.
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 54, vi, 67*a*, *b*, 68*a*, *b*.
- Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 287, iii, 9 and 10.
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 47, vi, 5 and 6, xiv, 16; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 55, same pl. and fig.
- **depressa**, Michelotti. Mem. Soc. Ital. Sci. XXII, 1841, 291, ii, 3.
- Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, [2], iii, (2), 1847, 15, i, 1.
- Abich, Mém. Ac. Imp. Sci. [Math. Phys.] St. Pétersbourg, [6], vii, 1859, 104, ix, 4.
- **dilecta**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 145, xiii, 33 and 33*a*.
- **dimorpha**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 67, iv, 23.
- **discoides**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 18.
- **discrepans**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 78, ix, 7*a*, *b*.
- **d'orbignii**, Bailey. Smithsonian Contrib. II, 1851, 10, pl., 9 and 10.
- **dubia**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 144, xiii, 30 and 30*a*.
- **echinata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 100, iv, 21 and 22. [v. *Cristellaria*.]
- Czjzek, Haidinger's Naturw. Abh. II, 1848, 141, xii, 24 and 25.
- D'Orbigny, Cours élém. Paléont. etc. I, 1849, 196, fig. 320; II, fas. 2, 1852, 818, fig. 623.
- Mackie, Science Gossip, 1867, 130, fig. 126.
- **ehrenbergii**, Roemer. Verst. norddeutsch. Kreide, 1840–41, 98, xv, 31.
- **eichbergensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 29, iii, 38.
- **elegantissima**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 198, xix, 4.
- **ferruginea**, Terquem. Bull. Soc. géol. France, [3], iv, 1876, 496, xvii, 11*a*, *b*, *c*.
- **florigemma**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 644, i, 75.
- **foliata**, Stache. Novara-Exped., Geol. Theil I, 1864, 245, xxiii, 24*a*, *b*.
- **formosissima**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 145, xiii, 32, 32*a*.
- **galeata**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 67, iv, 21.
- **gibba**, Roemer. Verstein. norddeutsch. Oolith., Nachtrag, 1839, 47, xx, 30.
- **glaucia**, Coppi. Boll. R. Com. geol. Ital. vii, 1876, 208, no fig.
- **glaucia**, Doderlein MS. Malagoli, Atti Sci. Nat. Modena, Mem. [3], vii, 1888, 4, i, 3, 4, and 5.
- **granulata**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 49, xiv, 15; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 57, same pl. and fig.
- Jones, M. Micr. Journ. xv, 1876, cxxix, 7.
- **gravidata**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 142, xiii, 23*a*–*f*.
- **goniaphora**, Neugeboren. See *R. goniaphora*.
- **goniaphora**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 289, iii, 19 and 20. [*goniaphora*, on plate.]
- **gottingensis**, Bornemann. Lias von Göttingen, 1854, 43, iv, 40, 41*a*, *b*.
- **gutticostata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 643, i, 74.

- ROBULINA gutticostata**, Gümbel. Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 48, vi, 10; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 57, same pl. and fig.
- Jones, M. Micr. Journ. xv, 1876, cxxix, 6a, b. [= *Crist. papillosa*, F. & M.]
- **halophora**, Stache. Novara-Exped., Geol. Theil I, 1864, 248, xxiii, 28a, b, c.
- **haueri**, Michelotti. Nat. Verh. Holland. Maatsch. Wetensch. Haarlem, [2], III, (2), 1847, 13, not fig'd.
- **imperatoria**, d'Orbigny. Foram. Fossiles Vienne, 1846, 104, v, 5 and 6.
- Jones, M. Micr. Journ. xv, 1876, cxxix, 19. [= *Crist. vortex*, F. & M., keeled.]
- See *Nautilus vortex*, F. & M.
- **inæqualis**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, ivi; and 229, xix, 3A, B.
- **incompta**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 70, iv, 28.
- Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 336, xiv, 12.
- **incrustedata**, Stache. Novara-Exped., Geol. Theil I, 1864, 254, xxiii, 33a, b.
- **inflata**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 288, iii, 11-16.
- **inornata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 102, iv, 25 and 26. [v. *Cristellaria*.]
- Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 335, xv, 2 and 3.
- Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, 229, xix, 6A, B.
- Egger, Neues Jahrbuch, 1857, 297, xiv, 14-16.
- Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 284, ii, 20 and 21.
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 47, vi, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 55, same pl. and fig.
- Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 70, vii, 18a, b; (and Mém. Soc. Dunkerquoise).
- Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 25, pl., 28.
- **insignis**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 466, v, 4a, b.
- **integra**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 334, xv, 12 and 13 [14, 15, and 16, "? young forms"].
- **intermedia**, d'Orbigny. Foram. Fossiles Vienne, 1846, 104, v, 3 and 4.
- **jurassofranconica**, Gümbel. Jahresh. Ver. vat. Nat. Württ. XVIII, 1862, 227, iv, 3a, b.
- **kressenbergensis**, Gümbel, Abh. m-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 641, i, 71a, b.
- **kubinyii**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875, (1876), 47, vi, 7; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 56, same pl. and fig.
- Jones, M. Micr. Journ. xv, 1876, cxxviii, 12a, b.
- Hantken, Kohlenflötze, etc. ungar. Krone, 1878 (transl. from Magyar), 232, fig. 51.
- **labiata**, Terquem. Mém. Soc. géol. France, [3], IV, 1886, 46, v, 1a, b.
- **lævigata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 288 and 289, Nos. 9 and 16.
- = *Crist. calcar* (Linn.); see *Nautilus*.
- **lata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 52, v, 57a, b.
- **lenticula**, Stache. Novara-Exped., Geol. Theil I, 1864, 246, xxiii, 25a, b.

- ROBULINA lepida**, Reuss. Verstein. böhm. Kreide, 1845–46, ii, 109, xxiv, 46.
[v. *Cristellaria*.]
- **lepsii**, Schopp. Abh. Hess. geol. Landes. Darmstadt, i, (3), 1889, 380, i, 1.
- **liasina**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 449, vi, 9a, b.
- **limbata**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 335, xv, 4, 5, and 6.
- cfr. ——— Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 336, xv, 7.
- **limbosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. I, 1863 (1864), 55, vi, 69a, b.
- ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 48, vi, 11; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 57, same pl. and fig.
- ——— Jones, M. Micr. Journ. xv, 1876, cxxviii, 14a, b. [= *Crist. cultrata*, Montf.]
- **lobata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not deser., xx, 14.
- **loculosa**, Stache. Novara-Exped., Geol. Theil I, 1864, 244, xxii [error for xxiii], 23a, b.
- **lucida**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 142, xiii, 19 and 19a.
- **magdeburgica** (Phil.). Bornemann, Zeitschr. deutsch. geol. Ges. XII, 1860, 157, vi, 2a, b. [*Nonionina*, 1851.]
- **marginata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 288 and 290, Nos. 6 and 19. [v. *Cristellaria*.]
- ——— = *Crist. cassis*; see *Nautili* (*Lenticule marginatæ*) [No. 6 of d'Orbigny] and *N. leves*, etc.
- **megalopolitana**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 272, ix, 5. [v. *Cristellaria*.]
- **metensis**, Terquem. Mem. Ac. Imp. Metz, XXXIX, 1858, 627, iv, 6a, b.
- **munsteri**, Roemer. Verstein. norddeutsch. Oolith., Nachtrag, 1839, 48, xx, 29.
- ——— Roemer, Verst. norddeutsch. Kreide, 1840–41, 98, xv, 30.
- **nautiloides**, Bornemann. Lias von Göttingen, 1854, 43, iv, 42a, b.
- **navis**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 338, xiv, 4 and 5.
- **neglecta**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 69, iv, 27.
- ——— Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 284, ii, 8–19.
- **nitida**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 290, No. 22. This name was given by d'Orbigny to Soldani, Testac. II, App. 1798, 141, pl. 7zz, ZZ. [Soldani does not appear to have described it; it is probably an *Amphistegina*.]
- **nitida**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 54, vi, 66a, b.
- **nitidissima**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 68, iv, 25.
- **nodosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 78, ix, 6a, b.
- **notabilis**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 285, iii, 1 and 2.
- **nuda**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 14, i (vi), 6a, b.
- **obtusa**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 369, xlv, 18.
- **obtusimargo**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 142, xiii, 22, 22a.
- **ocellus**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 47. [= *Crist. cultrata*.]
- **oculus**, Stache. Novara-Exped., Geol. Theil I, 1864, 247, xxii [error for xxiii], 27a, b.

- ROBULINA oolithica**, Terquem. Bull. Soc. géol. France, [3], iv, 1876, 496, xvii, 10a, b.
 ————— Terquem, Cinq. Mém. Foram. Oolithique, 1883, 366, xli, 12a, b.
 ————— Terquem, Mém. Soc. géol. France, [3], iv, 1886, 46, v; 2a, b.
 ————— **orbicularis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 288, xv [vi in text, by error], 8 and 9. [= *Crist. vortex* (F. & M.); v. *Cristellaria*.]
 ————— Reuss, in Geinitz, Grundr. Verstein., 1845-46, 664, xxiv, 35.
 ————— = *Crist. vortex* (F. & M.); see *Nuclei conico-rotundati*.
 ————— See *Nautilus vortex*, F. & M.
 ————— **ornata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 98, iv, 16 and 17.
 ————— Pietet, Traité de Paléont., 2 ed. iv, 1857, 497, eix, 15.
 ————— **planciana**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 20.
 ————— = *Nonion. umbilicatulæ* (Mont.); see *Lenticulæ*.
 ————— **plicata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 23.
 ————— = *Crist. rotulata*, Lam.; see *Hammonia subrotundæ*.
 ————— **polistegia**, Dunikowski. Kosmos [Lemberg], iv, 1879, 128, plate, 20.
 ————— **polyphragma**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865) 465, iv, 5a, b.
 ————— **porvænsis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 50, xiv, 11; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 58, same pl. and fig.
 ————— **princeps**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 466, v, 3a, b.
 ————— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 48, vi, 8; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 56, same pl. and fig.
 ————— Deecke, Mém. Soc. Emnl. Montbéliard, xvi, 1886 [35], ii, 17, 17a.
 ————— **pseudo-calcarata**, Stache. Novara-Exped., Geol. Theil I, 1864, 252, xxiii, 31.
 ————— **pterodiscoidea**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 642, i, 72a, b.
 ————— **pulchella**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 288, No. 8.
 ————— = *Crist. calcar*; see *Nautili (Lenticulæ radiatæ)*.
 ————— **pusilla**, Stache. Novara-Exped., Geol. Theil I, 1864, 247, xxiii, 26a, b.
 ————— **radiata**, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 334, xv, 1. [v. *Cristellaria*.]
 ————— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 54, vi, 65a, b.
 ————— **radiata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 288, No. 7.
 ————— = *Crist. calcar*; see *Nautili (Lenticulæ radiatæ)*.
 ————— **radiifera**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 643, ii, 76, 4a, b [76aa, bb].
 ————— **regina**, Karrer. Novara-Exped., Geol. Theil I, 1864, 76, xvi, 6.
 ————— **rhenana**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 300, vi, 10.
 ————— **rosacea**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 289, No. 11. [v. *Cristellaria*.]
 ————— = *Crist.*; see *Nautili læves (Lenticulæ)*.
 ————— **rosetta**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 642, i, 73a, b.
 ————— **rostrata**, Seggenza. Atti R. Acc. Lincei, [3], vi, 1880, 143, xiii, 24, 24a.
 ————— **rotunda**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 24.
 ————— = *Crist. calcar*; see *Nautilus lenticulæ*.
 ————— **rugosa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 21.
 ————— = *Lituola*; see *Lenticulæ*.

- ROBULINA seminuda**, Terquem. Cinq. Mém. Foram. Oolithique, 1883, 366, xli, 13a, b.
- Terquem, Mém. Soc. géol. France, [3], IV, 1886, 47, v, 3a, b.
- **semistriata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xix, 7.
- **serpens**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 143, xiii, 25 and 25a.
- **signata**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 272, ix, 4.
- **similis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 98, iv, 14 and 15.
- **simplex**, d'Orbigny. Foram. Fossiles Vienne, 1846, 103, iv, 27 and 28.
- Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F. x, Heft 2, 1872, 286, iii, 3-6.
- Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 70, vii, 21a, b; (and Mém. Soc. Dunkerquoise).
- Jones, M. Mier. Journ. xv, 1876, cxxviii, 13. [= *Crist. rotulata*, Lam.]
- **simplicissima**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 141, xiii, 18, 18a.
- **sogamozæ**, Karsten. Amtlicher Ber. 32 Vers. deutscher Nat. Aerzte, 1856, 1858, 114, vi, 5a, b; and Géol. Colomb. bolivarienne, 1886, 62, vi, 5a, b.
- **soldanii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 288, No. 5. [v. *Cristellararia*.]
- = *Crist.*; see *Nautili globuli*.
- **spirata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 23, i, 15a, b; (and Mém. Soc. Dunkerquoise).
- **stellata**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 144, xiii, 29.
- **stellifera**, Czjzek. Haidinger's Nat. Abh. II, 1848, 142, xii, 26 and 27.
- **striolata**, Czjzek. Haidinger's Nat. Abh. II, 1848, 142, xii, 28 and 29.
- **subangulata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 53, vi, 64a, b.
- **subangulosa**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xiv, 2.
- **subcultrata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 26, v, 19 and 20. [*R. cultrata* on plate.]
- **sublævis**, v. Hagenow. Neues Jahrbuch, 1842, 572.
- **subnodosa**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 391, iii, 61. [v. *Polystomella*.]
- **sulcata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 289, No. 10.
- = *Polystom. striato-punctata*; see *Nautili striati*.
- **taetowata**, Stache. Novara-Exped., Geol. Theil I, 1864, 252, xxiii, 32a, b. [*taetowata* in explan. of plate.]
- **tenuis**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 143, xiii, 26 and 26a.
- **torosa**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 465, iii, 2a, b.
- **trachyomphala**, Reuss. Haidinger's Naturw. Abb. IV, Abth. 1, 1851, 34, ii, 12.
- **trigonostoma**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 69, iv, 26.
- ? Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 336, xv, 9 and 10. ("Young forms.")
- **umbonata**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 68, iv, 24.
- **vaticana**, Costa. Mem. Acc. Sci. Napoli, II, 1855 (1857), 122, i, 17A, B.
- **virgata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 290, No. 17.
- D'Orbigny, Modèles, No. 14, 1826.
- P., J., & B. [d'O., Modèles, No. 14], Ann. Mag. Nat. Hist. [3], XVI, 1865, 20, i, 40.
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, fig.

- ROBULINA** *virgata*, D'Orbigny. Gümbel, Geol. Bayern, Th. I, Lief. 2, 1885, fig. 266, 16.
- *vitrea*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 144, xiii, 27 and 27a.
- *vortex* (F. & M.). = *Crist.*, v. *Nautilus*, 1798; *Nautili globuli*, and *Naut. conico-rotundati*.
- *vulgaris* (Schwager). Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886 [35], ii, 3, 3a. [*Cristellaria*, 1868.]
- spp. Bornemann, Zeitschr. deutsch. geol. Ges. vii, 1855, 333, xiv, 9 and 10, xv, 8. ("Young forms.")
- von Schlicht, Foram. Septar. Pietzpuhl, 1870, plates, xvi-xix.
- ROBULUS** *cultratus*, Montfort. Conch. Syst. I, 1808, 215, 54th genre. [= *Crist.*] [v. *Robulina*; *Cristellaria*.]
- ROPALOZOTIKA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 1881, 141, not described, 1 sp. proposed.
- ROSALIA**. D'Orbigny in his Prodrôme quotes this genus several times with the date of 1825. It may be that this was the original MS. name he gave to *Rosalina*.
- ROSALINA**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 271.
- *afinis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 271, No. 8.
- *amaliæ*, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 254, xxi, 12A, B, C.
- *ambigua*, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 35, v, 5a, b; (and Mém. Soc. Dunkerquoise).
- *ammoniformis*, d'Orb., 1847. D'Orbigny, Prodrôme de Paléont. iii, 1852, 194, No. 547. [*Rotalia*, 1825.]
- *ammonoides*, Reuss. Geogn. Skizze Böhmen, ii, 1844, pt. 1, 214. [v. *Anomalina*; *Planorbulina*.]
- Reuss, Verstein. böhm. Kreide, 1845-46, I, 36, viii, 53, xiii, 66.
- Reuss, Haidinger's Naturw. Abh. iv, Abth. 1, 1851, 36, iii, 2.
- Jones, Lecture Geol. Hist. Newbury, 1854, 48, ii, 2a, b, c.
- Eley, Geol. in the Garden, 1859, 202, viii, 3c, 4c, Ac.
- Eley, Geol. in the Garden, 1859, 193, ii, 3, 4, iii, 17.
- [Flint cast.]
- Kübler & Zwingli, Neujahrsblatt Bürgersbibl. Winterthur, 1866, 22, iii, 27.
- *anomala*, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 34, v, 1a, b; (and Mém. Soc. Dunkerquoise).
- *araucana*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 44, vi, 16-18. [v. *Discorbina*.]
- *arcuata*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 372, xlvii, 4. [v. *Discorbina*.]
- *aspera*, Gümbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 230, iv, 8a, b.
- *asterites*, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 658, ii, 101a, b, c.
- *auberii*, d'Orbigny. De la Sagra, Hist. Phisq. etc. Cuba, 1839, "Foraminifères," 94, iv, 5-8; also in Spanish, 1840, 102, same pl. and fig.
- *beccarii* (Linné). See *Nautilus*, 1758.
- [Park.]. Reuss, in Geinitz, Grundr. Verstein. 1845-46, 676, xxiv, 56.
- Eley, Geol. in the Garden, 1859, 203, x, 41-44.
- Kölliker, Icones Histiologicae, 1864, 31. [Structural.]
- Hopkins, Execut. Doc., 45 Congress, Sess. 3, iv, Rpt. Chief Engineers, pt. 2, App. W, 1878-79, 885, i, 64.
- *bertheloti*, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 135, i, 28-30. [*R. berthelotiana* on plate.] [v. *Discorbina*.]

- ROSALINA** *binkhorsti*, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 317, ii, 3a-c.
- *biseriata*, Terquem. Mém. Soc. géol. France, [3], I, 1878, 26, ii (vii), 14a-c.
- *bosqueti*, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 316, iii, 1a, b.
- *bulloides*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 98, iii, 2-5; also in Spanish, 1840, 104, same pl. and fig. [v. *Discorbina*; *Cymbalopora*; *Tretomphalus*.]
- *calabra*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xiv, 6.
- *calymene*, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 658, ii, 100a, b, c.
- *canaliculata*, Reuss. Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 70, xxvi, 4.
- *candeiana*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 97, iv, 2-4; also in Spanish, 1840, 103, same pl. and fig.
- *catesbyana*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 99, iv, 22-24; also in Spanish, 1840, 105, same pl. and fig. [*R. catesbyana* on plate.]
- *clementiana*, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 37, iii, 23-25; facsimile in Science Gossip, 1870, 155, fig. 140.
- ———— Mangin, Mystères Océan, 1864, 177, fig. 9.
- *complanata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 175, x, 13-15.
- ———— var. Reuss, Denkschr. k. Ak. Wiss. Wien, I, 1850, 373, xlvii, 5.
- ———— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 229, xxxv², 20a, b, c.
- *complanata*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 86, xi, 3a-c.
- *concava*, Reuss. Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 70, xxvi, 3.
- *conica*, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 632, iv, 11a, b.
- ———— Terquem, Mém. Soc. géol. France, [3], II, 1882, 97, x (xviii), 9a-c.
- *consobrina*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 46, vii, 4-6.
- *cora*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 45, vi, 19-21.
- *crenata*, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 243, v, 57.
- *depressa*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 271, No. 6.
- *discoïdes* (d'Orbigny). Terquem, Mém. Soc. géol. France, [3], I, 1878, 24, ii (vii), 9a-c. [*Rotalia*, 1826.]
- *dubia*, d'Orbigny. Foram. Fossiles Vienne, 1846, 177, x, 19-21.
- *dubia*, Terq. Mém. Soc. géol. France, [3], II, 1882, 100, xi (xix), 2a, b.
- *edwardsiana*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 101, vi, 8-10; also in Spanish, 1840, 106, same pl. and fig.
- *elliptica*, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 15, iii, 2. [? a *Planorbulina*.]
- *excavata*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 98, x (xviii), 11a-c.
- *fasciata*, Stache. Novara-Exped., Geol. Theil I, 1864, 281, xxiv, 31a, b, c.
- *foveolata*, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 133, iv, iv, μ .
- *galiciana*, Alth. Haidinger's Naturw. Abb. III, Abth. 2, 1850, 265, xiii, 20. [v. *Planorbulina*.]

- ROSALINA globigera**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
 ——— **globularis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 271, No. 1, xiii, 1-4 ;
 and Modèles, 1826, No. 69. [v. also *Discorbina*.]
 ——— Smedley, Ency. Metrop. 1845, undescr. pl. "Mollusca ?"
 30 and 31.
 ——— Williamson, Mem. Lit. Phil. Soc. Manchester, [2], viii,
 1848, 36, pl., 27, 28, 29. [28 = *Planorb. mediterraneensis* ?]
 ——— P., J., & B. [d'O., Modèles, No. 69], Ann. Mag. Nat. Hist.
 [3], xvi, 1865, 30, ii, 69.
 ——— Terquem, Mém. Soc. géol. France, [3], i, 1878, 25, ii
 (vii), 10a-c.
 ——— **granulosa**, Karrer. Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865),
 710, ii, 14.
 ? ——— **hexas**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
 ——— Ehrenberg, Abl. k. Ak. Wiss. Berlin, 1872 (1873), i, 19.
 ("cfr. *Planulina*, 1854.")
 ——— **horrida**, Egger. Neues Jahrbuch, 1857, 278, viii, 14-16.
 ——— **imperatoria**, d'Orbigny. Foram. Fossiles Vienne, 1846, 176, x, 16-18.
 ——— **inæqualis**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, not descr.,
 xiv, 8.
 ——— **inca**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères,"
 45, vii, 1-3.
 ——— **inflata**, Seguenza. Atti Accad. Gioenia Sci. Nat. 2, xviii, 1862, 106, i,
 6, 6a, b, c. [= *Rotalia beccarii*, var.]
 ——— **inflata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 87,
 xi, 6a-c.
 ——— **inflata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 76, ix, 8a,
 b ; (and Mém. Soc. Dunkerquoise).
 ——— **isabelleana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Fora-
 minifères," 43, vi, 10-12. [v. *Discorbina*.]
 ——— **italica**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. iii, 1852, 194,
 No. 545. [*Turbidulina*, 1826.]
 ——— Terquem, Mém. Soc. géol. France, [3], i, 1878, 27, ii
 (vii), 16a-c.
 ——— **kochi**, Reuss. Zeitschr. deutsch. geol. Ges. vii, 1855, 274, ix, 8.
 ——— **lævigata**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 133, iv, vi, v.
 ——— **lævigata**, Eichwald. Lethæa Rossica, iii, 1853, 6, i, 9a-d.
 ——— **lateralis**, Terquem. Mém. Soc. géol. France, [3], i, 1878, 25, ii (vii),
 11a-c. [v. *Pulvinulina*.]
 ——— **latifrons**, Stache. Novara-Exped., Geol. Theil I, 1864, 284, xxiv, 33a,
 b, c.
 ——— **lenticularis**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 631, iv,
 10a-c.
 ——— **linneiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Fora-
 minifères," 101, v, 10-12 ; also in Spanish, 1840, 106, same pl. and fig.
 [*R. linnei* on plate ; *R. linneana* in Index.] [v. *Globigerina*.]
 ——— **lorneiana**, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 36, iii,
 20-22 ; facsimile in Science Gossip, 1870, 155, fig. 139. [v. *Rotalia*.]
 ——— Mantell, Medals Creation, ed. 2, 1854, 342, fig. 109, 5.
 ——— **mackayi**, Karrer. Novara-Exped., Geol. Theil I, 1864, 82, xvi, 14.
 [*makeyi*, in explan. to plate.]
 ——— **maurica**, Stache. Novara-Exped., Geol. Theil I, 1864, 282, xxiv, 32a,
 b, c.
 ——— **maremii**, d'Orb., MS. Terq., Mém. Soc. géol. France, [3], i, 1878, 27,
 ii (vii), 15a-c. [D'Orbigny, Planches inédites, viii, f. 2.]
 ——— **marginata**, Reuss. Verstein. böhm. Kreide, 1845-46, i, 36, viii, 54, 74,
 xiii, 68. [v. *Globigerina*.]
 ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 676, xxiv,

- ROSALINA marginata**, Reuss. Bronn, Ann. Mag. Nat. Hist. [2], xii, 1853, 241, ix, 7.
- Reuss, Denkschr. k. Ak. Wiss. Wien, vii, Abth. 1, 1854, 69, xxvi, 1.
- Eley, Geol. in the Garden, 1859, 202, ix, 16C.
- Eley, Geol. in the Garden, 1859, 196, iii, 16. [Flint cast.]
- **mariae**, Jones. In Prestwich, Quart. Journ. Geol. Soc. viii, 1852, 267, xvi, 13. [= *Planorbulina*.]
- **mediterranensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 271, No. 2. [v. *Pulvinulina*.]
- = *Pulvin. mediterr.* (d'O.); see *Hammonia subconica*.
- **megastoma**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 75, ix, 6a, b [var. 7?]; (and Mém. Soc. Dunkerquoise).
- **micropora**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- **moniliformis**, Reuss. Geogn. Skizze Böhmen, ii, 1844, pt. 1, 214.
- Reuss, Verstein. böhm. Kreide, 1845-46, i, 36, xii, 30, xiii, 67. [Corrected in Part ii, p. 109, to *Anomalina*.]
- **nitens**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 86, xi, 4a, b.
- **obtusa**, d'Orbigny. Foram. Fossiles Vienne, 1846, 179, xi, 4-6. [v. *Discorbina*.]
- Costa, Atti Accad. Pontaniana, vii, fas. 2, 1856, 258, xxii, 14A, B, C [error for xxi, 14, 15, and 16].
- **ocellata**, Ehrenberg, 1838. [v. *Planulina*.]
- **opercularis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 271, No. 7. [v. *Discorbina*.]
- D'Orbigny, De la Sagra, Hist. Phisq. etc. Cuba, 1839, "Foraminifères," 93, iii, 24 and 25, iv, 1; also in Spanish, 1840, 101, same pl. and fig.
- **orbicularis**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. ii, 1850, 407, No. 1328. [*Rosalina*, 1825.]
- **orbicularis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 75, ix, 4a, b; (and Mém. Soc. Dunkerquoise). [v. *Discorbis*, and *Discorbina*.]
- **orbiculus**, Stache. Novara-Exped., Geol. Theil I, 1864, 285, xxiv, 34a, b, c.
- **d'orbigny**, Soldani. Walther, Mitth. Zool. Stat. Neapel, viii, 1888, 382, xx¹².
- **ornata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 42, i, 18-20.
- Hogg, Microscope, 1886, 380, fig. 208².
- **osnabrugensis** (v. Muenster). Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 243, v, 58. [v. *Planulina*.]
- **parapsis**, Schwager. Benecke's Geogn. Pal. Beiträge, i, 1866, 310, fig. 16.
- **parisiensis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 271, No. 5. [v. also *Discorbis* and *Discorbina*.]
- D'Orbigny, Modèles, No. 38, 1826.
- P., J., & B. [d'O., Modèles, No. 38], Ann. Mag. Nat. Hist. [3], xvi, 1865, 25, ii, 70.
- Terq., Mém. Soc. géol. France, [3], ii, 1882, 99, x (xviii), 15-17.
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **parkinsoniana**, d'Orbigny. De la Sagra, Hist. Phisq. etc. Cuba, 1839, "Foraminifères," 99, iv, 25-27; also in Spanish, 1840, 105, same pl. and fig. ["*Rotalia beccarii*, d'Orb., 1825."]
- **patella**, Egger. Nenes Jahrbuch, 1857, 278, x, 12-14.
- **pertusa**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 133, iv, viii, 5.
- **peruviana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 41, i, 12-14.

- ROSALINA poeyi**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 92, iii, 18-20; also in Spanish, 1840, 100, same pl. and fig. [v. *Discorbina* and *Cymbalopora*.]
- **polygona**, Terquem. Mém. Ac. Imp. Metz, XLII, 1862, 450, vi, 10a, b.
- **polystoma**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 26, ii (vii), 13a-c.
- **propinqua**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 99, x (xviii), 14a-c.
- **punctulata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 34, v, 2a, b; (and Mém. Soc. Dunkerquoise).
- **quadrata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 98, x (xviii), 12a-c.
- **radiata**, Costa. Atti Accad. Pont. VII, fas. 2, 1856, 255, xxi, 13A, B, C.
- **rotata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 100, xi (xix), 1a-c.
- **rudis**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 87, xi, 7a-c. [v. *Anomalina*.]
- ——— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 657, ii, 99a, b, c.
- **rugata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 27, ii (vii), 17a-c.
- **rugosa**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 42, ii, 12-14. [v. *Discorbina*.]
- **sauleyi**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 42, ii, 9-11. [*R. sauleyi* on plate.] [v. *Discorbina*.]
- **scalaris**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 101, xi (xix), 3a-c.
- **schloenbachi**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 87, xi, 5a-c.
- **semipunctata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 26, ii (vii), 12a-c.
- ——— Terquem, Mém. Soc. géol. France, [3], II, 1882, 98, x (xviii), 13a-c.
- **semistriata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 271, No. 3.
- ——— De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 95, iii, 15-17; also in Spanish, 1840, 102, same pl. and fig.
- **siennensis**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. III, 1852, 194, No. 546. [*Turbinulina*, 1826.]
- **simplex**, d'Orbigny. Foram. Fossiles Vienne, 1846, 178, x, 25-27.
- ——— Egger, Neues Jahrbuch, 1857, 278, x, 4-6.
- ——— Abich, Mém. Ac. Imp. Sci. (Math.-Phys.) St. Pétersbourg, [6], VII, 1859, 56, ii, 1b, c [and 1a].
- **soldanii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 271, No. 9. [v. *Pulvinulina*.]
- ——— = *Rotalia beccarii* (?); see *Hammonia trochi*.
- ——— = *Pulvin.*; see *Hammonia trochi*.
- **spinigera**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 97, x (xviii), 10a-c.
- **squamiformis**, Reuss. Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 69, xxvi, 2.
- **squammosa**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 91, iii, 12-14; also in Spanish, 1840, 100, same pl. and fig. [*Rotalia*, 1826.]
- **subradiata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 256, xiv, 5a, B, C.
- **subrotunda**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. III, 1852, 194, No. 544. [*Rotalia*, 1826.]
- **subumbonata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 657, ii, 98a, b, c.

- ROSALINA tenerrima**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
 ——— **thiara**, Stache. Novara-Exped., Geol. Theil I, 1864, 279, xxiv, 29a, b, c.
 ——— var. **elatio**r, Stache. Novara-Exped., Geol. Theil I, 1864, 280, xxiv, 30a, b, c.
 ——— **trifida**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 35, v, 4a, b; (and Mém. Soc. Dunkerquoise).
 ——— **trocheata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 28 ii (vii), 18a-c.
 ——— **truncata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 35, v, 3a, b; (and Mém. Soc. Dunkerquoise).
 ——— **valvulata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 271, No. 4.
 ——— Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 136, ii, 19-21. [v. *Discorbina*.]
 ——— De la Sagra, Hist. Plisiq. etc. Cuba, 1839, "Foraminifères," 96, iii, 21 and 32 [error for -23]; also in Spanish, 1840, 103, same pl. and fig.
 ——— **varians**, Schultze. Organismus Polythal. 1854, 60, iii, 8-13. [= *Discorb. globularis*.]
 ——— **vesicularis**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 407, No. 1329. [*Rosalia*, 1825.]
 ——— (Lam.). Parker & Jones, Ann. Mag. Nat. Hist. [2], XIX, 1857, 292, x, 22-24, xi, 13 and 14. [*Discorbites*, 1804.]
 ——— **viennensis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 177, x, 22-24.
 ——— Egger, Neues Jahrbuch, 1857, 277, viii, 11-13.
 ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 75, ix, 5a, b; (and Mém. Soc. Dunkerquoise).
 ——— **vilardeboana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 44, vi, 13-15. [v. *Discorbina*.]
 ——— **vitrea**, Terquem. Bull. Soc. zool. France, x, 1885, 549, figs. A, B, C.
 ——— **weinkauffi**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863, 68, viii, 97. [v. *Truncatulina*.]
 ——— Pietet, Traité de Paléont. IV, 1846, 234, xii, 18.
 ——— Ansted, Ancient World, 1847, 237, fig. 90; ed. 2, 1848, 221, fig. 86.
 ——— Mantell, Medals Creation, ed. 2, 1854, 361, fig. 119, 1. [*Sarcode*.]
 ? ——— Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xvii, 7 and 8.
 ——— Dawson, Canad. Nat. II, 1857, 422, vii, 17. [= *Polystom. umbilicatulina*.]
 ——— Mantell, Wonders Geol. 1857, 7th ed., 310, fig. 56.
 ? ——— Karrer, Sitz. k. Ak. Wiss. Wien, LII, Abth. 1, 1865 (1866), 497, pl., 13.
 ——— v. Schlicht, Foram. Septar. Pietzpuhl, 1870, plates xxi and xxii.
 ——— Terquem, Cinq. Mém. Foram. Oolithique, 1883, 373, xlii, 8 and 9.
 ——— Terquem, Mém. Soc. géol. France, [3], IV, 1886, 58, vi, 28 and 29, vii, 1a, b.
- ROSTROLINA**, v. Schlicht, 1870. Foram. Septar. Pietzpuhl, 1870, plates xxv, xxvi. [= *Polymorphina*.]
- ROTALIA**, Lamarek, 1804. Ann. Mus. v, 1804, 184; Brady, Report Challenger, 1884, 702.
 ——— **abstrusa**, Franzenau. Math. termész. értesítő, VII, 1889, 268, v, 6.
 ——— **abyssorum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 28.
 ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 15.
 ——— **akneriana**. See *Ammon. univolute*.
 ——— **ammoniformis**, d'O. P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 174, xii, 149. [*Turbinulina*, 1826.]
 ——— (*Turbinula*) ——— See *Hammonia beccarii*, etc.
 ——— **ammonis**, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 45. [= *Planorb. ariminensis*.]
 ——— **ammonoides**, Gümbel. Sitz. k.-bay. Ak. Wiss. 1870, 283. [= *Anomalina*.]
 ——— **ammonoides**. See *Ammon. concavo-umbilicatæ*.

- ROTALIA ammophila**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 652, ii, 90a, b.
- **ampla**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 374.
- **annectens**, Parker & Jones. Phil. Trans. 1865, 387 and 422, xix, 11a, b, c.
- **antarctica**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 207.
- **antiilarum**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- **antiqua**, Ehrenberg. Mikrogeologie, 1854, xxxvii, xi, A-D, 11. [= *Endothyra*, near *bowmani*.]
- **arenacea**, Carter. Ann. Mag. Nat. Hist. [5], vii, 1881, 363, xviii, 10.
- **areolata**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 167.
- ? —— **argus**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- **armata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 273, No. 22. [v. *Rotalina*.] [v. also *Calcarina*.]
- —— D'Orbigny, Modèles, No. 70, 1826.
- —— P., J., & B. [d'O., Modèles, No. 70], Ann. Mag. Nat. Hist. [3], xvi, 1865, 30, iii, 88.
- —— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **articulata**, Dunikowski. Kosmos [Lemberg], iv, 1879, 133, plate, 28.
- **aspera**, Ehrenberg. Mikrogeologie, 1854, xxvii, 57 and 58; xxviii, 42; xxxi, 44. [= *Globig. cretacea*.]
- —— Ehr., Mikrogeologie, 1854, xxiii, 28. [= *Planorb. haidingeri*?]
- **audouini**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 273, No. 19. [v. *Rotalina*.]
- **auricula**, Ehrenberg. Mikrogeologie, 1854, xxiii, 51. [= *Cristellaria*.]
- **badensis**, Czj., var. **schreibersii**, Brady. Walther, Mitth. Zool. Stat. Neapel, viii, 1888, 382, xx, 2. [*Rotalina badenensis*, 1848; v. *Pulvulinina*.]
- **baileyi**, Hall. Trans. Albany Institute, iv, 1858-1864 (Read Nov. 27, 1856), 34. [v. also *Endothyra*.]
- **barbadensis**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1875 (1876), 158, i, 2.
- **beccarii**, (Linné). See *Nautilus*, 1758.
- [——] [——] —— D'Orbigny, Ann. Sci. Nat. vii, 1826, 275, No. 40; and Modèles, No. 74*, 1826.
- —— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1838, 133, i, 1. [= *R. beccarii*, var. *ammoniformis* (Linn. and Lam.).]
- [**becarii**] —— Brown, Illustr. Recent Conch. Gt. Brit., ed. 2, 1844, 1, i, 11.
- [**becarii**] —— var. **perversus**. Brown, Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 1, i, 12.
- —— Harvey, Sea-side Book, 1849, 181, figure.
- —— Mantell, Pictorial Atlas Foss. Rem. 1850, 143, lxii, 3, 27 and 28.
- —— G. B. Sowerby, Foram. Colne Tidal River, 1856 [privately printed], plate, figs. 2 and 3.
- —— Mackie, Recreative Science, i, 1859, 145, fig. 7. [= *Discorbina globularis*.]
- —— Parker & Jones, Phil. Trans. 1865, 388, xvi, 29 and 30.
- (Turbinulina) —— —— P., J., & B. [d'O., Modèles, No. 74], Ann. Mag. Nat. Hist. [3], xvi, 1865, 30, iii, 83.
- —— v. **orbicularis** (d'O.). Parker & Jones, Phil. Trans. 1865, 389, xvi, 34. [*Discorbis*, 1826.]
- —— v. **soldanii** (d'O.). Parker & Jones, Phil. Trans. 1865, 389, xvi, 31-33. [*Rosalina*, 1826.]

* [D'Orbigny was mistaken as to this species: *Strebilus beccarii* and *Strebilus tortuosus* are both *Nautilus beccarii*, of Linnæus; d'Orbigny gives *Rotalia (Turbinulina) tortuosa*, Fischer, in Ann. Sci. Nat. vii, 1826, 275, No. 40, as the name of Modèle No. 74.]

- ROTALIA beccarii**, (Linné), (varieties). Parker & Jones, Phil. Trans. 1865, 387, xvi, 29-34.
- _____ J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., ii, 19-21.
- _____ [_____] _____ Harting, Magt van het Kleine, 1866, 101, fig. 40.
- _____ _____ Brady, Ann. Mag. Nat. Hist. [4], vi, 1870, 303, xii, 8a-c.
- _____ _____ Anon., Science Gossip, 1870, 11, fig. 26.
- _____ _____ P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 173, xii, 147. [v. *R. (Turbin.) italica*, d'O.]
- _____ _____ Idem, 172, xii, 148. [v. *Rosalina soldanii*, d'O.]
- _____ _____ Morris, Lecture Geol. Croydon, [1876], 8, fig. 24.
- _____ _____ Zittel, Handbuch Palaeont. Abth. I, 1876, 94, fig. 322.
- _____ _____ Schwager, Boll. R. Com. geol. Ital. viii, 1877, 26, pl., 43.
- _____ _____ Carpenter, Ency. Brit., 9th ed., ix, 1879, Foraminifera, 380, fig. 18. [Structure.]
- _____ _____ Nicholson, Manual Palaeont. 1879, i, 116, fig. 180.
- _____ _____ Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 208, iii, 62, iv, 63-66.
- _____ _____ var. **inflata**, Segnenza. Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 210, iv, 67. [*Rosalina*, 1862.]
- _____ _____ v. **craticulata**, P. & J. Hamilton, Trans. N. Zealand Inst. xiii, 1881, 395, xvi, 12. [v. *R. craticulata*.]
- _____ _____ Jones, in Microgr. Dict., ed. 4, 1883, 668, xxiv, 13a, b, and 14.
- _____ [**beccarii**] _____ Uhlig, Jahrb. k. k. geol. Reichs. xxxiii, 1883, 773, viii, 8.
- _____ _____ Brady, Report Challenger, 1884, 704, cvii, 2 and 3.
- _____ _____ Wright, Proc. Belfast Nat. Field Club, 1884-85, App. ix, 1886, 332, xxvii, 15.
- _____ _____ Gumbel, Geol. Bayern, Th. I, Lief. 2, 1885, fig. 266, 23.
- _____ [**beccarii**] _____ Malagoli, Boll. Soc. geol. Ital. vi, 1887, 523, xiii, 11.
- _____ [**beccarii**] _____ v. **ammoniformis** (d'O.). Malagoli, Boll. Soc. geol. Ital. vi, 1887, 523, xiii, 12.
- _____ _____ Anon., Sci. News, 4 May, 1888, 413, fig. 17.
- _____ _____ v. **ammoniformis**, d'O. Malagoli, Atti Soc. Nat. Modena, 3, vii, 1888, 113, iii, 10.
- _____ _____ Prestwich, Geology, 1888, II, 420, 210b, c.
- _____ _____ Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 119, ix, 4, 5.
- _____ _____ See *Hammonis beccarii*, and *Ammon. cochleata*, etc.
- _____ _____ v. **ammoniformis**. Soldani, Testae. I, 1, 1789, 56, pl. 35T = this form.
- [_____?] _____ Targioni, Relaz. d'alc. viaggi, iv, 1770, xiii, etc. pl. 1, figs. 17, 18, 19, 21, 22?, 26-36.
- [_____] _____ Ledermüller, Mikr. Gemüths, 1763, 16, viii, a and b.
- [_____] _____ Seelheim, Nat. Verh. Koninkl. Ak. Wet. xix, 1879, No. 4, 8 pl. [3 figures]. [Glauc.]
- _____ **berchtoldsdorfensis**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 387, xvi, b, 57.
- _____ **bimammata**, Gumbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 649, ii, 85a-c. [v. *Pulvinulina*; and *Rotalina*.]
- _____ **bisaculeata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 273, No. 20. [v. *Calcarina*.]
- _____ _____ D'Orbigny, Modèles, No. 15, 1826.
- _____ _____ P., J., & B. [d'O., Modèles, No. 15], Ann. Mag. Nat. Hist. [3], xvi, 1865, 21, iii, 89. [= *Calcarina*.]
- _____ _____ Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- _____ **borealis**, Ehr. Abhandl. k. preuss. Ak. Wiss. Berlin, 1841, 428.
- _____ **bosniaskii**, Hantken. Ertek. termes. köreböl, xiii, No. 1, 1883, 31, iii, 1a, b, c; and Math. Nat. Ber. Ungarn, II, 1884, 152.

- ROTALIA bosqueti** (Reuss). Marsson, Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 169, iv, 36a-e. [*Rosalina*, 1861.]
- **boueana**, d'Orbigny. Cours élém. Paléont. etc. I, 1849, 199, fig. 325 ; II, fas. 2, 1852, 818, fig. 624.
- ———— Nicholson, Manual Palaeont. 1879, I, 102, fig. 16.
- [**boucana**] ———— American Cyclopaedia, VII, (1883), 311, fig. 21.
- ———— = *Pulvinulina*, see *Hammonia*.
- **bractea**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 28.
- ———— Ehrenberg, Abh. k. preuss. Ak. Wiss. Berlin, 1872 (1873), xi, 16.
- **broeckhiana**, Karr. In v. Dräsche, Frag. Geol. Luzon, 1878, 98, v, 26 ; and Bol. Com. Map. geol. Españ. VII, 1880, 281F, 12.
- ———— Brady, Report Challenger, 1884, 705, cviii, 4a, b, c.
- **brongniartii**, d'Orbigny. [*v. Rotalina*.]
- [**brongniartii**] ———— D'Orbigny, Ann. Sci. Nat. VII, 1826, 273, No. 27.
- ———— Reuss' Models, No. 78, 1865 (Catal., No. 83, 1861). [= *Pulvin. auricula*, F. & M.]
- ———— = *Pulv. auricula* (F. & M.) ; see *Hammonia subconica*.
- **brueckneri**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 273, ix, 7.
- **budakesziensis**, Hantken. Math. Nat. Ber. Ungarn, III, 1885, 176.
- **bulimoides**, Reuss. Models, No. 45, 1865 (Catal., No. 85, 1861). [= *Bulimina elegantissima*, Will.]
- **burdigalensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 21.
- **calcar** (d'O.). Brady, Report Challenger, 1884, 709, cviii, 3 and 4 ? [*Calcarina*, 1826.]
- **calcipara**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 33. [= *Pulvin. menardii*, d'O.]
- **calembergensis**, d'Orb. Pietet, Traité de Paléont. 2 ed. IV, 1857, 508, cix, 28. [*v. Rotalina kalembergensis*.]
- **campanella**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 650, ii, 86a-e. [*v. Rotalina*.]
- **capitata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 653, ii, 92a, b. [*v. Rotalina*.]
- **caracolla** (v. Roemer). Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 84, x, 6a-c. [*Gyroidina*, 1840.]
- **carinata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 24.
- **carpenteri**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 94, xiii, 6a-c.
- **cassiana**, Gümbel. Jahrb. k. k. geol. Reichsanstalt, XIX, 1869, 178, iv [v], 4-6.
- **centralis**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- ———— Ehrenberg, Mikrogeologie, 1854, xxviii, 39. [= *Globig. cretacea*.]
- **clathrata**, Brady. Report Challenger, 1884, 709, cvii, 8 and 9.
- **cochlea**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428, ii, vi, 42. [= *Pulv. cultrata*, ? d'O.]
- **cochleata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 654, ii, 94a-c.
- **communis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 29. [Misprinted *gommunis*.] [*v. Pulvinulina* ; and *Rotalina*.]
- ———— = *Pulvin.* ; see *Hammonia subconica*.
- **conica**, Roemer. Neues Jahrbuch, 1838, 388, iii, 51.
- ———— Roemer, Verst. norddeutsch. Kreide, 1840-41, 97, xv, 21.
- **consobrina**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 337, No. 693.
- **constricta**, v. Hagenow. Neues Jahrbuch, 1842, 571. [*v. Planorbulina*.]
- ———— Reuss, Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 329, vi, 7.

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- D'Orbigny, Modèles, No. 75, 1826.
- (**Turbinulina**) ——— P., J., & B. [d'O., Modèles, No. 75], Ann. Mag. Nat. Hist. [3], XVI, 1865, 31, iii, 84. [= *R. beccarii*.]
- (**Turbinulina**) ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **cordieriana** (d'Orb.). Cooke, Thousand Objects Microsc. 1869, 90, ix, 9. [*Rotalina*, 1840.]
- **crassula**, Brown. Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 1, i, 5. [= *Nonionina*.]
- **craticulata**, Parker & Jones. Phil. Trans. 1865, 387, xix, 12a, b, c.
- **cretæ**, Ehrenberg. Mikogeologie, 1854, xxix, 9. [= *Planorb. ammonoides*.]
- ——— Ehr., Mikogeologie, 1854, xxvii, 64. [= *Planorb. farcta*.]
- **cretica**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 28.
- **crstellarioides**, Reuss. Bull. Ac. Roy. Belg. [2], xv, 1863, 154, iii, 44.
- **deformis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 274, No. 33.
- **defrancei** (d'Orb.). Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 104, xiv, 1-7. [*Calcarina*, 1826.] [Structural.]
- **denaria**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- **densa**, Ehrenberg. Mikogeologie, 1854, xxix, 3a, b, c. [= *Planorb. globulosa* (Ehr.).]
- ——— Ehr., Mikogeologie, 1854, xxvii, 62. [= *Planorb. farcta*.]
- **dentata**, Parker & Jones. Phil. Trans. 1865, 387, xix, 13a, b, c.
- **deplanata**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 288, xi, 3.
- **depressa**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 388, iii, 46.
- **depressa**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- ——— Ehr., Mikogeologie, 1854, xxv, i, A, 48. [= *Planorb. ariminensis*.]
- **discifera**, Philippi. Tertiär. nordwest. Deutsch. 1843, 42, i, 26.
- **discoides**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 5. [v. *Rosalina* and *Rotalina*.]
- **discus**, Roemer. Neues Jahrbuch, 1838, 388, iii, 52.
- **dorsalis**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 167.
- **dubia**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 274, No. 34.
- **dufresnii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 12. [v. *Rotalina*.]
- **egena**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428, ii, vi, 43. [= *Pulv. cultrata*? d'O.]
- ——— var. β . Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- **elegans**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 6. [v. *Pulvinulina*; *P. repanda*, var.; and *Rotalina*.]
- ——— Jones & Parker, Quart. Journ. Geol. Soc. XVI, 1860, xx, 46.
- ——— = *Pulvin.*; see *Nautili ammoniformes*, etc.
- **elliptica**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 28.
- **eoæna**, Gumbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 650, ii, 87a, b.
- **erebi**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 207.
- **exsculpta**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 222, xi, 4a-c.
- ? **fasciata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- **foculiformis**, Schwager. Novara-Exped., Geol. Theil II, 1866, 262, vii, 109.
- **fontana**, Karrer. Jahrb. k. k. geol. Reichsanstalt, xx, 1870, 184, ii, 16.
- **formosa**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxiii, 1864, 9, i, 14.

- RODALIA freyeri**, Schultze. Organismus Polythal. 1854, 59, iii, 6 and 7. [= *R. beccarii*.]
- (**Discorbis**) **gervillii**, d'Orbigny. Modèles, No. 72, 1826; Ann. Sci. Nat. vii, 1826, 274, No. 36.
- (**Discorbis**) ——— P., J., & B. [d'O., Modèles, No. 72], Ann. Mag. Nat. Hist. [3], xvi, 1865, 30, ii, 72. [= *Discorb. vesicularis*, Lam.]
- (**Discorbe**) [**gervilei**] ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **gibbosa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 272, No. 3.
- **girardana**, Reuss. Models, No. 46, 1865 (Catal., No. 84, 1861). [= *R. soldanii*, d'O.]
- var. **mamillata**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 234, ix, 4.
- var. **Andreae**. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 224, ix, 5.
- **glaucopis**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- **globosa** (v. Hagenow). Reuss, Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 330, vii, 2a, b. [*Nonionina*, 1842.]
- **globoso-ampliata**, Ehrenberg. Mikrogeologie, 1854, xxvii, 56. [= *Globig. cretacea*.]
- **globularis**, d'Orbigny. Modèles, No. 69, 1826. [See *Rosalina*, 1826 = *Discorbina*.]
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **globulosa**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 134, iv, fig. variae i; Bericht, 1844, 67; and Mikrogeologie, 1854, xxii, 78. [= *Globigerina*.]
- Ehr., Abhandl. k. Ak. Wiss. Berlin, 1839, 134 and 168, ii, iii; Transl., Taylor's Scientific Memoirs, III, 1843, 357, vi, 3. [= *Planorbulina*?]
- Bailey, in Hitchcock, Report 1, 2, and 3, Meeting Assoc. Amer. Geol. and Nat. 1843, 357, xiii [error for xv], 2, 4, 5, 6, and 7. [= *Globig. cretacea*.]
- Ehr., Abhandl. k. Ak. Wiss. Berlin, 1847, 446, i, 97; ii, 84; ? , v, ii, 112, 113.
- Williamson, Mem. Lit. Phil. Soc. Manchester, [2], viii, 1848, 76, pl., 60.
- Harting, Magt van het Kleine, 1849, 119, figs. 6 and 7; German by Dr. A. Schwartzkopf, 1851, 87, fig. 39, 6, 7.
- Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 225, xxxv², 18a, b.
- Ehr., Mikrogeologie, 1854, xix, 89; and xxiv, 37 and 38; and xxxviii, xxi, 22. [= *Globigerina*.]
- Ehr., Mikrogeologie, 1854, xxi, 90a, b. [= *Globig. bulloides*.]
- Ehr., Mikrogeologie, 1854, xxviii, 40 and 41; and xxxi, 40, 41, and 43. [= *Globig. cretacea*.]
- Ehr., Mikrogeologie, 1854, xxx, 23a, b. [= young *Globig. vel Planorb.*]
- (**senaria**?) ——— Ehr., Mikrogeologie, 1854, xxxix, iii, e. [Probably *Globigerina*; perhaps *Planorb. globulosa*.]
- Ehr., Bericht k. pr. Ak. Wiss. Berlin, 1844, 67; and Mikrogeologie, 1854, xx, ii, 12a, b, 14a: xxi, i, 54; and xxxviii, xxiii, 1. [= *Planorbulinae*.]
- Ehr., Mikrogeologie, 1854, xxvi, 35. [= *Planorb. farcta*.]
- Ehr., Mikrogeologie, 1854, xxix, 6; and xxxiv, x, B, 1. [= *Planorb. globulosa*.]
- Ehr., Mikrogeologie, 1854, xxxv, A; xix, A, 6. [= *Planorb. vel Globigerina*?]
- **globulosa-protoplepta**, Ehr. Mikrogeologie, 1854, xxxii, ii, 45. [= *Globig. cretacea*.]

- ROTALIA globulosa-prototepta**, Ehr. Ehr., Mikrogeologie, 1854, xxxii, i, 21. [= *Planorb. globulosa*.]
 _____ Ehr., Mikrogeologie, 1854, xxxii, ii, 31. [= *Pulvin. canariensis*, d'O.]
 _____ **globulosa-tenuior**, Ehr. Mikrogeologie, 1854, xxxvii, vi, 3 and 4. [= *Globigerina*.]
 _____ Ehr., Mikrogeologie, 1854, xxvii, 60. ["= *R. glob.* 1838." [= *Planorb. farcta*.]
 _____ Kübler & Zwingli, Neujahrsblatt Bürgersbibl. Winterthur, 1866, 18, iii, 23. [= *Planorbulina*.]
 _____ Cooke, Thousand Objects Microsc. 1869, 90, ix, 7.
 _____ Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 22. American Cyclopaedia, vii (1883), 311, fig. 2.
 _____ **glomerata**, Ehr. Mikrogeologie, 1854, xxxi, 48. [= *Globig. cretacea*.] [v. *Aristerospira*.]
 _____ Ehr., Mikrogeologie, 1854, xxvii, 63. ["= *R. senaria* ?"] [= *Planorb. farcta*.]
 _____ **grata**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 163, iv, 17.
 _____ **gommunis**. [v. *R. communis*.]
 _____ **grateloupi**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 272, No. 10.
 _____ **grœnlandica**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
 _____ Ehrenberg, in Koldewey, Zweite deutsche Nordpolarfahrt, 1874, II, n. d., i, 15.
 _____ **guerinii**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 273, No. 18. [v. *Rotalina*.]
 _____ **haliotina**, Ehr. Monatsber. k. preuss. Ak. Wiss. Berlin, 1872, 293.
 _____ **haliotis**, Ehr. Mikrogeologie, 1854, xxv, i, A, 27 and 28. [= *Planorb. farcta*.]
 _____ **hegemanni**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
 _____ Ehrenberg, in Koldewey, Zweite deutsche Nordpolarfahrt, 1874, II, n. d., i, 2.
 _____ **helvetica**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 18, iii, 8. [= *Planorbulina*.]
 _____ **hemprichii**, Ehr. Mikrogeologie, 1854, xxiv, 62. [= *Planorb. ammonoides*.]
 _____ **hemisphaerica**, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 314, ii, 5a-c.
 _____ **heptas**, Ehr. Mikrogeologie, 1854, xxxii, ii, 40. [= ? *Crist. rotulata*.]
 _____ **ibex**, Ehr. Mikrogeologie, 1854, xxv, ii, B, 5. [= *Planorb. ariminensis*.]
 _____ Ehrenberg, in Koldewey, Zweite deutsche Nordpolarfahrt, 1874, II, n. d., i, 3.
 _____ **impressa**, Roemer. Neues Jahrbuch, 1838, 388, iii, 49.
 _____ **incerta**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 28.
 _____ Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 17.
 _____ **incrassata**, Ehr. Mikrogeologie, 1854, xxxiii, 40. [= *Crist. cultrata*.]
 _____ **increscens**, Ehr. Mikrogeologie, 1854, xxiii, 30. [= ? *Globigerina*.]
 _____ **infernalis**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 29.
 _____ Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 14.
 _____ **inflata** (Mont.). Brown, Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 1, i, 4. [*Nautilus*, 1808.]
 _____ **intermedia**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 388, iii, 50. [Roem.]. Michelotti, Mem. Soc. Ital. Sci. xxii, 1841, 285, ii, 10.
 _____ **intermedia**, Harting. Verh. Kon. Ak. Wetensch. x, 1864, 9, i, 5.
 _____ (*Turbinulina*) **italica**, d'O. = *R. beccarii* (Linn.); see *Hammonia conico-tuberculata* and *H. globoso-rotundata*.
 _____ **involuta**, Reuss, var. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 313, ii, 4a, b.

- ROTALIA jurensis**, d'Orbigny. In d'Archiac, Mém. Soc. géol. France, v, pt. 2, 1843, 369, xxv, 3, 3', 3".
- **kalenbergensis**, d'Orb. Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 225, xxxv², 17. [*Rotalina kalenbergensis*, 1846.]
- **karsteni**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 273, ix, 6. [v. *Pulvinulina*; and *P. repanda*, var.]
- **lævigatulus** (Mont.). Brown, Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 1, i, 9 and 10. [*Nautilus*, 1808.]
- **lævis**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. III, 1852, 193, No. 537. [*Gyroidina*, 1826.]
- **laxa**, Ehr. Mikrogeologie, 1854, xxviii, 38; xxix, 1a, b, c; and xxxi, 42. [= *Globig. cretacea*.]
- Ehr., Mikrogeologie, 1854, xxv, i, A, 34. [= *Planorb. farcta*.]
- Ehr. Mikrogeologie, 1854, xxv, ii, B, 7. [= *Planorb. vulgaris*, young.]
- **lenticula**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 82, x, 2a, b, c.
- **lenticulina**, Ehr. Mikrogeologie, 1854, xxviii, 50. [= *Planorb. ammonoides*.]
- Ehr., Mikrogeologie, 1854, xxxii, i, 32. [Doubtful; ? *Crist. vel Nonion*.?]
- **lepida**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 95; and Mikrogeologie, 1854, xix, 91. [= *Planulina ariminensis*?]
- Ehr., Mikrogeologie, 1854, xxviii, 52. [= *Planorb. ammonoides*.]
- ? —— **leptodiscus**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- **leptospira**, Ehr. Mikrogeologie, 1854, xxiv, 39. [= *Globigerina*.]
- Ehr., Mikrogeologie, 1854, xxxi, 45 and 49. [= *Globig. cretacea*.]
- Ehr., Mikrogeologie, 1854, xxx, 24a, b. [= young *Globig. vel Planorb.*]
- Ehr., Mikrogeologie, 1854, xxix, 7. [= *Planorb. globulosa* (Ehr.).]
- Ehr., Mikrogeologie, 1854, xxxii, ii, 32. [= *Pulvin. canariensis*, d'O.]
- Ehr., Mikrogeologie, 1854, xxvi, 38. [= ? *Pulvin. canariensis* (d'O.) vel *Planorbulina*.]
- **leubeana**, Gümbel. Sitz. k.-bayer. Ak. Wiss. I, 1871, 69, i, 19.
- **limbata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 274, No. 30.
- **lithographica**, Gümbel. Sitz. k.-bayer. Ak. Wiss. I, 1871, 69, i, 18.
- **lithothamnica**, Uhlig. Jahrb. k. k. geol. Reichsanstalt, XXXVI, 1886, 195, fig. 6, v, 9-11.
- **lobata**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 148, xiii, 38a, b.
- **londonensis**, Ehr. Mikrogeologie, 1854, xxviii, 51. [= *Planorb. ammonoides*.]
- **lorneriana**, Cooke. Thousand Objects Microsc. 1869, 91, ix, 10. [*Rosalina lorneriana*, 1840.]
- **macrocephala**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 652, ii, 91a, b.
- **maculata**, Stache. Novara-Exped., Geol. Theil I, 1864, 278, xxiv, 28a, b, c.
- **mammillata**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 388, iii, 48.
- **manilana**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 98, v, 27; and Bol. Com. Map. geol. Españ. VII, 1880, 281F, 13.
- **marginata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 9. [v. *Rotalina*.]
- **menardii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 26.
- D'Orbigny, Modèles, No. 10, 1826. [v. *Pulvinulina*; *P. repanda*, var.; and *Rotalina*.]

- ROTALIA menardii**, d'Orbigny. P., J., & B. [d'O., Modèles, No. 10], Ann. Mag. Nat. Hist. [3], xvi, 1865, 20, iii, 81. [= *Pulvinulina*.]
 ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **micHELIANA** [**micHELINIANA**] (d'Orb.). Eley, Geol. in the Garden, 1859, 198, v, 27. [*Rotalina*, 1846.] [Flint cast.]
- **microtis**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
 ——— Ehrenberg, in Koldey, Zweite deutsche Nordpolarfahrt, 1874, II, n. d., i, 5.
- **millepora**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 167.
- ? (**Planulina**?) **monospira**, Ehr. Mikrogeologie, 1854, xxix, 8. [= *Pulvinulina*; see Parker & Jones, Annals, IX, 1872, 184.]
- **mortoni**, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 337, viii, 1a-c.
- **naticoides**, Stache. Novara-Exped., Geol. Theil I, 1864, 276, xxiv, 26a, b, c, d.
- **newboldi**, d'Archae & Haime. Descr. Anim. Foss. groupe nummulitique Inde, [2], 1854, 347, xxxvi, 17a-d.
- **nitida**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 274, No. 31.
 ——— (**umbilicata**?) ——— Eley, Geol. in the Garden, 1859, 198, v, 24-26. [Flint cast.]
- **nitidula**, Schwager. Novara-Exped., Geol. Theil II, 1866, 263, vii, 110.
- **nivea**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134.
- **nonas**?, Ehr. Mikrogeologie, 1854, xxxii, ii, 36. [= *Crist. rotulata*?]
- **nonionina**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 81, x, 2a, b.
- **northamptonii**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 283, i, 6.
- **novo-zelandica**, Karrer. Novara-Exped., Geol. Theil I, 1864, 80, xvi, 12.
- **obscura**, Ehr. Mikrogeologie, 1854, xxx, 27. [Near *Crist. producta*, v. Hagenow.]
- **obscura**, Sowerby. Dixon, Geol. etc. Sussex, 1850, 85, and 162, ix, 6; and 2d ed. 1878, 172, same pl. and fig. [= *Discorb. trochidiformis*.]
- **ocellata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134; *Colpopleura*, Bericht, 1844, 67 and 92; and Mikrogeologie, 1854, xxii, 76. [= *Planorb. near haudingeri*.]
- **orbicularis**, d'Orb. Brady, Trans. Linnean Soc. xxiv, 1864, 470, xviii, 16. [*Gyroidina*, 1826.]
 ——— Anon., Science Gossip, 1870, 11, fig. 27.
 ——— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 175, xii, 150.
 ——— Vine, Science Gossip, 1878, 52, fig. 35.
 ——— Brady, Report Challenger, 1884, 706, cvii, 5; cxv, 6.
 ——— See *R. beccarii* (Linn.).
- **ornata**, Ehr. Abhandl. k. preuss. Ak. Wiss. Berlin, 1838, 134.
- **ornata**, Carpenter. The Microscope, ed. 6, 1881, 546, fig. 314. [= *Rotalia veneta*, Schultze.]
- **pachyomphala**, Ehr. Mikrogeologie, 1854, xxvii, 55. [= *Globig. cretacea*.]
- **pachyphysa**, Ehr. Mikrogeologie, 1854, xxiv, 42. [Near *Trunc. lobatula*.]
 ——— Hopkins, Execent. Doc. 45 Congress, Sess. 3, iv, Rpt. Chief Engineers, pt. 2, App. W, 1878-79, 885, i, 61.
- ? —— **palæoceros**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 309, and 337, i, f. ix. [Glauconite.] ["May be *Nonionina*," P. & J.]
- **palæotetras**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 308 and 337, i, f. viii. [Glauconite.] ["May be *Globigerina*," P. & J.]
- **palæotrias**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 308 and 339, i, f. vii. [Glauconite.] ["May be *Globigerina*," P. & J.]
- **pandoræ**?, Ehr. Bericht k. pr. Ak. Wiss. Berlin, 1844, 67; and Mikrogeologie, 1854, xx, ii, 11. [= *Planorbulina*?]

- ROTALIA pandoræ**?, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 95; and Mikrogeologie, 1854, xix, 87. [= *Planorbulina*?]
- **papillosa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 273, No. 16.
- **papillosa**, Brady. Report Challenger, 1884, 708, cvi, 9a, b, c.
- v. **compressiuscula**, Brady. Report Challenger, 1884, 708, cvii, 1a, b, c; young, cviii, 1a, b, c.
- **partschiana**, d'Orbigny. Cours élém. Paléont. etc. i, 1849, 199, fig. 326; ii, fas. 2, 1852, 818, fig. 625.
- See *Naut. ammoniformis*.
- **parvispira**, Roemer. Neues Jahrbuch, 1838, 388, iii, 53.
- **paupercula**, Stache. Novara-Exped., Geol. Theil i, 1864, 277, xxiv, 27a, b.
- **pelagica**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- **perforata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134, iv, ii, iv, xi, x.
- Ehr., Abhandl. k. Ak. Wiss. Berlin, 1841, 441, ii, vi, 41.
- [= *Planorb.*? vel *Discorb.*? *globularis*?]
- Harting, Magt van het Kleine, 1849, 119, fig. 9; and 1866, 113, fig. 48, 4; German by Dr. A. Schwartzkopf, 1851, 87, fig. 39, 9.
- Ehr., Mikrogeologie, 1854, xxix, 2; xxxi, 38; xxxviii, 36.
- [= *Globig. cretacea*.]
- **perforata**, Karrer. Novara-Exped., Geol. Theil i, 1864, 81, xvi, 13.
- ? —— **pertusa**, Ehr. Mikrogeologie, 1854, xxiv, 41. [*Rosalina*, 1838, in part.]
- [= *Globigerina*.]
- ? —— Ehr., Mikrogeologie, 1854, xxxvii, vi, 5. [= *Globigerina*.]
- Ehr., Mikrogeologie, 1854, xxx, 25. [= young *Globig. vel Planorb.*]
- **peruviana**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 428. [= *Pulvinulina*?]
- **phænostigma**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- **phanerostigma**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- **phanerostomum**, Ehr. Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 11.
- **picta**?, Ehr. Mikrogeologie, 1854, xxviii, 53. [= *Pulvinulina micheliniana*.]
- **pileus**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 272, No. 11.
- **pisana**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 284, i, 5.
- **planulina**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- **polygonata**, Gümbel. Abh. m-ph. Cl. k-bayer. Ak. Wiss. x, 1868 (1870), 651, ii, 89a, b, c.
- **præcincta**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 189, v, 7. [v. *Truncatulinae*.]
- **prætexta**, Ehr. Mikrogeologie, 1854, xxviii, 47. [= *Crist. cultrata*.]
- ? —— **profunda**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
- Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 21.
- **prolepta**, Ehr. Mikrogeologie, 1854, xxv, i, A, 35. [= *Planorbulina*.]
- **propingua**, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 241, iv, 53. [v. *Truncatulina* and *Rotalina*.]
- **propinqua**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 389, iii, 54.
- **protacmæa**, Ehr. Mikrogeologie, 1854, xxviii, 37. [= *Globig. cretacea*.]
- Ehr., Mikrogeologie, 1854, xxvi, 34. [= *Planorb. farcta*.]
- **protolepta**, Ehr. Mikrogeologie, 1854, xxvi, 33. [= *Planorb. farcta*.]
- **pteromphalia**, Gümbel. Abh. m-ph. Cl. k-bayer. Ak. Wiss. x, 1868 (1870), 651, ii, 88a, b, c.
- **pulchella**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 274, No. 32. [= *Pulvinulina*, q. v., and *P. repanda*, var.]
- D'Orbigny, Modèles, No. 71, 1826.
- P., J., & B. [d'O., Modèles, No. 71], Ann. Mag. Nat. Hist. [3], xvi, 1865, 30, iii, 80.

- ROTALIA pulchella** (d'O.). Brady, Report Challenger, 1884, 710, cxv, 8a, b. [*Calcarina*, 1839.]
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **punctata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 13.
- **punctato-granosa**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 147, xiii, 37a, b.
- **punctatula**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 25. [v. *Pulvinulina*; and *P. repanda*, var.]
- D'Orbigny, Modèles, No. 12, 1826.
- P., J., & B. [d'O., Modèles, No. 12], Ann. Mag. Nat. Hist. [3], XVI, 1865, 20, iii, 82. [= *Pulvinulina*.]
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **pusilla**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 141, VII, 20.
- **quaterna**, Ehr. Mikrogeologie, 1854, xxvii, 53; xxviii, 34; and xxxi, 39. [= *Globig. cretacea*.]
- Ehr., Mikrogeologie, 1854, xxvi, 36. [= *Planorb. farcta*.]
- Ehr., Mikrogeologie, 1854, xxix, 5. [= *Planorb. globulosa* (Ehr.).]
- **β. floscularis**, Ehr. Mikrogeologie, 1854, xxiv, 43. [= *Planorb. haidingeri*.]
- Ehr., Mikrogeologie, 1854, xxv, ii, B, 9. [Compare "*Planulina flos*."] [= *Planorb. farcta*.]
- **quaternaria**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 257.
- **remora**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- **repanda**, Parker & Jones. Ann. Mag. Nat. Hist. [3], V, 1860, 175, No. 25. [= *Pulvinulina*.]
- **reticulata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 83, x, 4a-c. [v. *Epistomina*.]
- **rimosa**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 464, ii, 5a-c.
- **roemeri**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 240, iv, 52.
- **rosa**, Ehr. Mikrogeologie, 1854, xxvii, 54. [= *Globig. cretacea*.]
- **rosacea**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 15.
- D'Orbigny, Modèles, No. 39, 1826.
- P., J., & B. [d'O., Modèles, No. 39], Ann. Mag. Nat. Hist. [3], XVI, 1865, 25, ii, 71. [= *Discorbina*.]
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **rosea**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 7. [v. *Truncatolina*.]
- D'Orbigny, Modèles, No. 35, 1826.
- Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 9, ii, 13.
- Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 18, iii, 13.
- P., J., & B. [d'O., Modèles, No. 35], Ann. Mag. Nat. Hist. [3], XVI, 1865, 24, iii, 79. [= *Planorbulina*.]
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **rudis**, Ehr. Mikrogeologie, 1854, xxiv, 35 and 36. [= *Globigerina*.]
- Ehr., Mikrogeologie, 1854, xxxvii, iv, 4. [= ? *Globigerina*.]
- **saxorum**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 2. [v. *Rotalina*.]
- **scabra**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134; Bericht, 1844, 67; and Mikrogeologie, 1854, xxii, 79. [= *Planorb. farcta*.]
- **schloenbachi**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 84, x, 5a-c.
- **schreibersii** (d'Orb.). See *Nautili cum Ammonüs admixti*, and *Ammon. planorbis*. [*Rotalina*, 1846.]

- ROTALIA schroedteri**, d'Orb. Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 215, fig. 11. [Probably intended for *schroeteriana*, P. & J.]
- **schroeteriana**, Parker & Jones, MS. Carpenter, Parker, & Jones, Introd. Foram. 1862, 212, iv, 3; xiii, 7-9. [Structural.] [v. *Faujasina*, sp., Williamson, 1853.]
- ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 207, ix, 3.
- [**schroetteriana**] ——— Carpenter, The Microscope, ed. 6, 1881, 575, fig. 330. [Structural.]
- ——— Brady, Report Challenger, 1884, 707, cxv, 7a, b, c.
- ——— [Carp. ?]. Malagoli, Atti Soc. Nat. Modena, [3] VII, 1888, 113, iii, 9.
- **scutellaris**, Karrer. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 709, ii, 13.
- **semiglobosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 85, x, 7a, b; xi, 1. [On the plates this variety is called *R. hemisphaerica* by mistake; Reuss, on p. 85, points out the distinguishing features which separate it from that variety.]
- **semiornata**, Schwager. Benecke's Geogn. Pal. Beiträge, I, 1868, 661, xxxiv, 20.
- **senaria** ? Ehr. Abhandl. k. Ak. Wiss. Berlin, 1847, 446, i, 98; ii, 85.
- ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1842; and Mikrogeologie, 1854, xix, 90. [? *Globigerina*.]
- ——— Ehr., Mikrogeologie, 1854, xxiv, 40. [= *Globigerina*.]
- ——— Ehr., Mikrogeologie, 1854, xxxi, 46 and 47. [= *Globig. cretacea*.]
- ——— Ehr., Bericht k. pr. Ak. Wiss. Berlin, 1844, 68; and Mikrogeologie, 1854, xx, ii, 14b; xxv, ii, B, 6. [= *Planorbulina*.]
- ——— Ehr., Mikrogeologie, 1854, xx, i, 55. [= ? *Planorb.*]
- ——— Ehr., Mikrogeologie, 1854, xxvii, 61. [= *Planorb. farcta*.]
- ——— Ehr., Mikrogeologie, 1854, xxix, 4. [= *Planorb. globulosa* (Ehr.).]
- ——— Ehr., Mikrogeologie, 1854, xxxii, ii, 30. [= *Pulvin. canariensis*, d'O.]
- [**Rotalina** in index] **siblingensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 35, iv, Impressathou, 15. [= a *Planorbulina*.]
- (**Turbin.**) **siennensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 275, No. 50.
- (**Turbin.**) ——— = *Planorb. ungeriana* (d'O.); see *Hammonia univolute*.
- **soldanii**, d'Orb. var. Stache, Novara-Exped., Geol. Theil I, 1864, 273, xxiv, 23a, b, c. [*Gyroldina*, 1826.]
- ——— var. **prominula**, Stache. Novara-Exped., Geol. Theil I, 1864, 273, xxiv, 24a, b, c.
- ——— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 176, xii, 151.
- ——— Toula, Mitth. geogr. Ges. Wien, XVIII, 1875, 165, pl., 18.
- ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 69, ix, 7; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 80, same pl. and fig.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, XXXIII, 1880, 211, iv, 68.
- ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 155, ix, 3.
- ——— Brady, Report Challenger, 1884, 706, cvii, 6 and 7.
- ——— See *R. beccarii* (Linn.).
- **speciosa**, Karrer. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 709, ii, 12.

- ROTALIA sphaerophora**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- **spiculotesta**, Carter. Ann. Mag. Nat. Hist. [4], xx, 1877, 470, xvi, 1-3. [v. also *Carterina*.]
- **spinulifera**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 93, xiii, 3a, b, 4a-c, 5a-c. [v. *Epistomina*.]
- **squammosa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 8. [v. *Rosalina*.]
- **stellata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134.
- **stellata**, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 242, v, 54.
- **stigma**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134, iv, xi, x.
- Abhandl. k. Ak. Wiss. Berlin, 1839, 134, ii, ii; Transl., Taylor's Scientific Memoirs, III, 1843, 357, vi, 2. [Not *R. perforata* as stated on plate.] [= *Planorbulina*.]
- **subcarinata**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 427, No. 1675. [*Gyroidina carinata*, 1826.]
- **subrotunda**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 14. [v. *Rosalina*.]
- **subtortuosa**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 388, iii, 45.
- [Roem.]. Michelotti, Mem. Soc. Ital. Sci. XXII, 1841, 284, ii, 9.
- **suessionensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 23. [v. *Rotalina*.]
- **sulcata**, Roem. Verst. norddeutsch. Kreide, 1840-41, 97, xv, 50.
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 85, xi, 2a-c.
- **sulcigera**, Stache. Novara-Exped., Geol. Theil I, 1864, 275, xxiv, 25a, b, c, d.
- **tenuimargo**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 359, i, 11a-c.
- **terquemi**, d'Orb., 1849. D'Orbigny, Prodrome de Paléont. I, 1849, 242, No. 270. [v. *Rotalina*.]
- **thouini**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 273, No. 17.
- (*Turbinulina*) **tortuosa**, Fischer. Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **tracheotetras**, Ehr. Mikrogeologie, 1854, xxviii, 35. [= *Globig. cretacea*.]
- **trochidiformis**, Lamarck. Bronn, Syst. urweltl. Conchyl. 1824, 7, i, 7a, b. [*Rotalites*, 1804.]
- Brown, Elem. Foss. Conch. 1843, 23, ii, 16.
- [**trochiliformis**] —— Mantell, Pictorial Atlas Foss. Rem. 1850, 143, lxii, 1 and 2.
- Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 136, xxviii (v), 12a-d.
- Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1057, lxxxvi, 48.
- **trochus**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 272, No. 4.
- **trochus**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 388, iii, 47. [v. *Pulvinulina elegans*, var.]
- Reuss, Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 242, v, 55.
- **truncana**, Gümbel. Abh. m-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 653, ii, 93a, b, c.
- **tuberculifera**, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 313, ii, 2a-c.
- **tuberosa**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 349, i, 4.
- (*Trochulina*) **turbo**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 274, No. 39. [v. also *Rotalina* and *Discorbina*.]
- D'Orbigny, Modèles, No. 73, 1826.
- v. **vesicularis**. Parker & Jones, Ann. Mag. Nat. Hist. [3], v, 1860, 293, No. 6. [= *Discorbina vesicularis*.]

- ROTALIA turbo**, d'Orbigny. Kölliker, *Icones Histiologicae*, 1864, 31. [Structural.]
- (**Trochulina**) ——— P., J., & B. [d'O., *Modèles*, No. 73], *Ann. Mag. Nat. Hist.* [3], xvi, 1865, 30, ii, 68. [= *Discorbina*.]
- (**Trochulina**) ——— Basset, *Ann. Soc. Sci. Charente-Inf.* 1884 (1885), 162, fig.
- **turgida**, Ehr. *Abhandl. k. Ak. Wiss. Berlin*, 1839, 135, ii, iv; *Transl., Taylor's Scientific Memoirs*, iii, 1843, 358, vi, 4. [*Planulina turgida*, *Abhandl.* 1838.] [= *Crist. rotulata*, Lam.]
- ——— Williamson, *Mem. Lit. Phil. Soc. Manchester*, [2], viii, 1848, 75, pl., 58.
- **turgida**, v. Hagenow. *Neues Jahrbuch*, 1842, 570, ix, 22.
- **tympaniformis**, Schwager. *Benecke's Geogn. Pal. Beiträge*, i, 1866, 310, fig. 15.
- **umbilicata**?, Ehr. *Abhandl. k. Ak. Wiss. Berlin*, 1855, 161, ii, vii. [? *Rotalina*; ? *Operculina*.] [Glauc.]
- **umbilicata**, d'Orb., v. **nitida**, Reuss. In Geinitz, *Palaeontographica*, xx, Th. 2, 1874, 116, xxiii, 12. [*Rotalina*, 1840.]
- **umbilicatula** (W. & J.). Brown, *Illustr. Recent Conch. Gt. Brit.*, ed. 2, 1844, 1, i, 8. [*Nautilus*, 1798.]
- **umbilicus**, Ehr. *Bericht k. pr. Ak. Wiss. Berlin*, 1844, 68; and *Mikrogeologie*, 1854, xx, ii, 13a, b. [= *Planorbulinae*.]
- ——— Ehr., *Bericht k. preuss. Ak. Wiss. Berlin*, 1844, 95; and *Mikrogeologie*, 1854, xix, 88. [= ? *Planorbulina*.]
- **umbonella**, Reuss. *Sitz. k. Ak. Wiss. Wien*, xl, 1860, 221, xi, 5a-c.
- **veneta**, Schultze. *Organismus Polythal.* 1854, 59, iii, 1-5; vii, 22-24, 29. [= *Planorbulina*; vii, 22-24, 29 = ? *Globigerinae*.]
- ——— Harting, *Magt van het Kleine*, 1866, 102, fig. 42.
- ——— Claus, *Lehrbuch d. Zool.* 1885, 153, f. 135.
- **venusta**, Brady. *Report Challenger*, 1884, 708, cviii, 2a, b, c.
- **vermiculata**, Jones & Parker. *Quart. Journ. Geol. Soc.* xvi, 1860, 305, No. 116. [= *Pulvinulina*.]
- **weinkauffi**, Reuss. *Sitz. k. Ak. Wiss. Wien*, XLVIII, Abth. 1, 1863 (1864), 68, viii, 97a-c.
- **wolgensis**, Ehr. *Mikrogeologie*, 1854, xxxi, 50 and 51. [= *Globig. cretacea*.]
- see Schroeter, *Neue Litt. u. Beytr.* iii, 1786, iii, f. 22.
- Soldani, *Testac.* i, 1, 1789, 54, pl. 34K, L, = this genus.
- [———] Deshayes, *Coq. Foss. Paris*, 1824-1837, not descr., cvi, 4-27.
- Wetherell, *Trans. Geol. Soc. Lond.* [2], v, 1834 (1840), 135, ix, 13-18. [13 = *C. cultrata*; 14, 15, 18 = *Planorb. haidingeri*, varr.; 16, 17 = *Pulv. boueana*.]
- Wetherell, *Mag. Nat. Hist.* [2], iii, 1839, 162, f. 27. [= *Truncat. lobatula*.]
- Phillips, *Rept. Proc. Geol. Poly. Soc. W. R. Yorkshire*, 1844-45 (1846), 279, vii, 7.
- Mantell, *Phil. Trans.* 1846, 467, xxi, 2-4, 7-10, 13 and 14. [Showing sarcode body.]
- Mantell, *Phil. Trans.* 1846, 466, xxi, 6, 15. [6 = ?; 15 = *Pulvin.*]
- Mantell, *Phil. Trans.* 1846, 468, xxi, 5, and 11. [Sarcode showing ova?]
- Pilla, *Distinz. terr. Etruria*, 1846, 104, i, 6.
- Mantell, *Wonders Geol.* 1848, 6th ed., 303, fig. 51. [= *Rosalina*, q. v.]
- ? Ehrenberg, *Abhandl. k. Ak. Wiss. Berlin*, 1847, 446, ii, 83.
- Williamson, *Mem. Lit. Phil. Soc. Manchester*, [2], viii, 1848, 75, pl., 56 and 57. [= *Planorb. ammonoides*.]
- Mantell, *Amer. Journ. Sci.* v, 1848, 70, etc., figs. 1, 2, and 3. [Soft parts, etc.]
- Mantell, *Wonders Geol.* 1848, 6th ed., 250, fig. 42. [= *Truncat. lobatula*.]

- ? **ROTALIA**. Dixon, Geol. etc. Sussex, 1850, 352, xxvii, 14. [= *Planorb. ammonoides*.]
 ——— Brocklesby, Views Microscop. World, 1851, 51, figs. 82 and 83.
 ——— Mantell, Medals Creation, ed. 2, 1854, 351, fig. 114, 1, 2, 3, 6; 356, fig. 116; 358, fig. 117.
 ——— Mantell, Medals Creation, ed. 2, 1854, 351, fig. 114, 5; 359, fig. 118, 1 and 2; 361, fig. 119, 4. [Sarcod.]
 ? ——— Ehrenberg, Mikrogeologie, 1854, xxxvi, 68. [= *Planorb. ammonoides*.]
 ——— sp. ? Ehrenberg, Mikrogeologie, 1854, xxxv, B, iv, A, n. [= *Crist. vel Nonion. ?*]
 ——— Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 173, vi, i, c; and 176, vii, 13 (?). [vii, 13 (?), is *Planorbulina*.] [Glauc.]
 ——— Ehrenberg, Abhandl. k. preuss. Ak. Wiss. Berlin, 1855, 164, iii, v. [= *Operculina vel Nummulina*.] [Glauc.]
 ——— Wallich, North Atlantic Sea-bed, pt. 1, 1862, no descr., vi, 21. [Structural.]
 ——— Chinmo, Bed of Atlantic [1870], 25, ix, 1. [? *Pulvinulina*.]
 ? ——— Wright, Rept. Proc. Belfast Nat. F. C. App. iii, 1875, 87 [89], iii, 18.
 ——— Hertwig, Jenaische Zeitschrift für Naturwiss. x, 1876, 41, etc. ii, 5-11.
 ——— sp. ind. Hopkins, Execut. Doc., 45 Congress, Sess. 3, iv, Rpt. Chief Engineers, pt. 2, App. W, 1878-79, 885, i, 62 and 63.
 ——— Carpenter, Ency. Brit., 9th ed., ix, 1879, Foraminifera, 374, i, 18; fig. 4; fig. 17.
 ——— Carpenter, The Microscope, ed. 6, 1881, 573, fig. 328B. [Glauconic cast.]
 ? ——— east ? v. Dunikowski, Denkschr. k. Ak. Wiss. Wien, XLV, Abth. 2, 1882, 194, vi, 80.
 ? ——— Keeping, Geol. Mag. dec. II, IX, 1882, 490, xi, 15.
 ——— Steinmann, Elem. Paléont. I, 1888, 30, fig. 3B.
 ——— Neumayr, Stämme d. Thierreiches, I, 1889 (8), 188, fig. 29.
 ——— see *Ammonshorn*.
 ——— see *Nautila*.
 ——— see *Nautilus*.
- ROTALINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. 1. [A family group name.]
- ROTALINA**, d'Orbigny, 1839. In de la Sagra, Hist. Phisique, etc. Cuba, 1839, "Foraminifères;" in Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, vol. II, pt. 2, "Foraminifères;" and in Voyage Amér. Mérid. 1839, vol. v, pt. 5, "Foraminifères."
- *aculeata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 159, viii, 25-27.
 ——— Egger, Neues Jahrbuch, 1857, 274, vii, 1-4.
 ——— *æquabilis*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 64, v (xiii), 1a, b, c.
 ——— *affinis*, Czjzek. Haidinger's Nat. Abh. II, 1848, 144, xii, 36-38.
 ——— *affinis*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 236, xvii, 6A, B, C.
 ——— *akneriana*, d'Orbigny. Foram. Fossiles Vienne, 1846, 156, viii, 13-15. [v. *Truncatulina*.]
 ——— var. Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 340, xvi, 7.
 ——— *alvarezii*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 35, i, 21; ii, 1 and 2.
 ——— *ambigua*, Terquem. Mém. Soc. géol. France, [3], I, 1878, 19, i (vi), 17a-c.
 ——— *angulifera*, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 28, iii, 8a, b; (and Mém. Soc. Dunkerquoise).
 ——— *anomala*, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 30, iii, 12a, b; (and Mém. Soc. Dunkerquoise).
 ——— *anomphala*, Egger. Neues Jahrbuch, 1857, 275, viii, 8-10.

- ROTALINA** *antillarum*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 75, v, 4-6; also in Spanish, 1840, 89, same pl. and fig.
- *aradasii*, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 103, i, 5, 5a, b. [= ?]
- *armata* (d'Orb.). Terq., Mém. Soc. géol. France, [3], ii, 1882, 67, v (xiii), 14-15. [*Rotalia*, 1826.]
- *audouini* (d'Orb.). Terq., Mém. Soc. géol. France, [3], ii, 1882, 72, vi (xiv), 11a-c. [*Rotalia*, 1826.]
- *auriculata*, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 123, xv, 6a, b, c; (and Mém. Soc. Dunkerquoise).
- *badensis*, Czjzek. Haidinger's Nat. Abh. ii, 1848, 144, xiii, 1-3. [v. *Pulvinulina*.]
- *badensis*, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 35, iv, Impressathou, 14.
- *beccarii* (Linné). Gosse, Manual Mar. Zool. 1855, 12, fig. 13. [*Nautilus*, 1758.]
- ——— Williamson, Recent British Foram. 1858, 48, iv, 90-92.
- ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 26, ii, 5a, b; (and Mém. Soc. Dunkerquoise).
- *berthelotiana*, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, ii, pt. 2, "Foraminifères," 130, i, 31-33. [v. *Pulvinulina*.]
- *bimammata*, Gumb. Terq., Mém. Soc. géol. France, [3], ii, 1882, 66, v (xiii), 5-13. [*Rotalia*, 1868.]
- *binucleata*, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 124, xv, 7a, b, c; (and Mém. Soc. Dunkerquoise).
- *borealis*, Terquem. Bull. Soc. zool. France, xi, 1886, 332, xi, 9 and 10.
- *boueana*, d'Orbigny. Foram. Fossiles Vienne, 1846, 152, vii, 25-27. [v. also *Pulvinulina*.]
- *brongniarti* (d'Orbigny). Reuss, in Geinitz, Grundr. Verstein. 1845-46, 673, xxiv, 55. [*Rotalia*, 1826.]
- ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 158, viii, 22-24.
- ——— Egger, Nenes Jahrbuch, 1857, 274, vii, 5-7.
- *bulimoides*, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 77, v, 38.
- *campanella*, Gumb. Terq., Mém. Soc. géol. France, [3], ii, 1882, 74, vii (xv), 1-4. [*Rotalia*, 1868.]
- *canariensis*, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, ii, pt. 2, "Foraminifères," 130, i, 34-36. [v. *Pulvinulina*; and *P. repanda*, var.]
- ——— Mackie, Science Gossip, 1867, 130, fig. 122.
- *capitata*, Gumbel. Terq., Mém. Soc. géol. France, [3], ii, 1882, 59, iii (xi), 18-20. [*Rotalia*, 1868.]
- *caribæa*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 74, v, 1-3; also in Spanish, 1840, 88, same pl. and fig.
- *cingillata*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 73, vi (xiv), 13a-c.
- *claustrata*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 78, vii (xv), 15a-c.
- *clypeata*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 62, iv (xii), 10a, b, c.
- *coarctata*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 76, vii (xv), 8a-c.
- *communis*, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 18, iii, 24. [= *Planorbulina ammonoides*.]
- *communis* (d'Orbigny). Terq., Mém. Soc. géol. France, [3], i, 1878, 17, i (vi), 11a-c. [*Rotalia*, 1826.]
- *complanata* (d'Orbigny). Terq., Mém. Soc. géol. France, [3], ii, 1882, 81, viii (xvi), 8a-c. [*Trochulina*, 1826.]

- ROTALINA concamerata** (Montagn). Williamson, Recent British Foram. 1858, 52, iv, 101-105. [*Serpula*, 1808 = *Pulvinulina*.]
 ———— Cooke, Thousand Objects Microsc. 1869, 92, ix, 23.
 ———— **conoidea**, Czjzek. Haidinger's Nat. Abb. II, 1848, 145, xiii, 4-6.
 ———— **conoidea**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 122, xv, 1a, b; (and Mém. Soc. Dunkerquoise).
 ———— **contacta**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 131, ii, 16-18.
 ———— **contraria**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 76, v, 37. [*v. Bulimina*.]
 ———— **cordieriana**, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 33, iii, 9-11; facsimile in Science Gossip, 1870, 108, fig. 117. [*v. Rotalia*.]
 ———— **crassa**, d'Orbigny. Mém. Soc. géol. France, [1], iv, 32, iii, 7 and 8; facsimile in Science Gossip, 1870, 108, fig. 116. [*v. Pulvinulina*, 1840].
 ———— **crenularis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 61, iv (xii), 7a, b, c.
 ———— **crustellaroides**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 57, iii (xi), 15a, b, c.
 ———— **cryptomphala**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 371, xlvii, 2.
 ———— Egger, Neues Jahrbuch, 1857, 277, ix, 4-6.
 ———— **cultrata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 76, v, 7-9; also in Spanish, 1840, 90, same pl. and fig.
 ———— ? Bailey, Smithsonian Contrib. II, 1851, ii, pl., 14-16.
 ———— **deformis**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 75, iv, 9-11; also in Spanish, 1840, 89, same pl. and fig.
 ———— **depressa**, Alth. Haidinger's Naturw. Abh. III, Abth. 2, 1850, 266, xiii, 21.
 ———— **depressa**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 58, iii (xi), 17a, b, c.
 ———— **difformis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 64, iv (xii), 15a, b, c.
 ———— **dimidiata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 19, i (vi), 16a-c.
 ———— **discifera**, Phil. Jones, Catal. Foss. Foram. B. M. 1882, 29.
 ———— **discigera**, Egger. Neues Jahrbuch, 1857, 277, viii, 5-7.
 ———— **discoidalis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 119, xiv, 1a, b, c; (and Mém. Soc. Dunkerquoise).
 ———— **discoides**, d'Orb. Terq., Mém. Soc. géol. France, [3], II, 1882, 82, viii (xvi), 9a-c. [*v. Rotalia*.]
 ———— **dubia**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 78, ii, 29 and 30; iii, 1; also in Spanish, 1840, 91, same pl. and fig.
 ———— **dufresnii**, d'Orb. Terquem, Mém. Soc. géol. France, [3], II, 1882, 82 viii (xvi), 10a-c. [*Rotalia*, 1826].
 ———— **dutemplei**, d'Orbigny. Foram. Fossiles Vienne, 1846, 157, viii, 19-21. [*v. Truncatulina*; *Planorbulina*; *Pseudotruncatulina*; and *Heterolepa*.]
 ———— ? Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xxii, 19.
 ———— Egger, Neues Jahrbuch, 1857, 274, vii, 8-10.
 ———— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 26, ii, 7a, b; (and Mém. Soc. Dunkerquoise).
 ———— **ehrenbergii**, Bailey. Smithsonian Contrib. II, 1851, 10, pl., 11-13.
 ———— **elegans**, d'Orb. Terq., Mém. Soc. géol. France, [3], I, 1878, 18, i (vi), 12a-c. [*Rotalia*, 1826].
 ———— ? Terq., Mém. Soc. géol. France, [3], II, 1882, 75, vii (xv), 6a-c.
 ———— **elongata**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 24, iii, 28. [= *Pulvinulina*, near *karsteni*.]

- ROTALINA excavata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 123, xv, 5a, b, c; (and Mém. Soc. Dunkerquoise).
 ————— Terq., Mém. Soc. géol. France, [3], II, 1882, 77, vii (xv), 13a-c.
- **excedens**, Gümbel. Sitz. k.-bay. Ak. Wiss. III, 1873, 39, no fig.
- **exilis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 28, iii, 5a, b, c; (and Mém. Soc. Dunkerquoise).
- **fragilis**, Terq. Mém. Soc. géol. France, [3], II, 1882, 78, viii (xvi), 1a-c.
- **franconica**, Gümbel. Jahresh. Ver. vat. Nat. Württ. XVIII, 1862, 229, iv, 9a, b.
- **fusca**, Williamson. Recent British Foram. 1858, 55, v, 114 and 115. [= *Valvulina*.]
 ————— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 26, ii, 6a, b; (and Mém. Soc. Dunkerquoise).
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- **granosa**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 75, v, 36.
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- **gyrata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 70, vi (xiv), 6a-c.
- **haidingerii**, d'Orbigny. Foram. Fossiles Vienne, 1846, 154, viii, 7-9. [v. *Truncatulina*; *Pulvinulina*; *Planorbulina*; and *P. farcta*, var.]
 ————— Egger, Neues Jahrbuch, 1857, 275, vii, 11-13.
 ————— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 72, viii, 6a, b; (and Mém. Soc. Dunkerquoise).
- Terq., Mém. Soc. géol. France, [3], II, 1882, 80, viii (xvi), 4a-c.
- **hauerii**, d'Orbigny. Foram. Fossiles Vienne, 1846, 151, vii, 22-24. [v. *Pulvinulina*.]
- **hemisphærica**, Costa. Atti Accad. Pontaniaua, VII, fas. 2, 1856, 237, xiv, 16A, B, C.
- **hemisphærica**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 122, xv, 3a, b, c; (and Mém. Soc. Dunkerquoise).
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- ? ————— **heteroclita**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 64, iv (xii), 14a, b, c.
- **hirsuta**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 131, i, 37-39.
- **impleta**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 120, xiv, 3a, b, c; (and Mém. Soc. Dunkerquoise).
- v. **æqualis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 120, xiv, 4a, b, c; (and Mém. Soc. Dunkerquoise).
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- **inermis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 68, vi (xiv), 1a, b, c.
- **inflata** (Montagu). Williamson, Recent British Foram. 1858, 50, iv, 93 and 94. [*Nautilus*, 1808.]
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- **inflata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 27, iii, 4a, b; (and Mém. Soc. Dunkerquoise).
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- **infundibulum**, Costa. Atti Accad. Pontaniaua, VII, fas. 2, 1856, 237, xiv, 9A, B, C.

- ROTALINA involuta**, Reuss. Haidinger's Nat. Abh. iv, Abth. 1, 1851, 35, ii, 14.
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- **lamarckiana**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 131, ii, 13-15.
- **lenticula**, Reuss. Verstein. böhm. Kreide, 1845-46, I, 35, xii, 17.
- **liasina**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 59, v (xv), 5a-c.
- **limbata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 80, viii (xvi), 6a-c.
- **lobata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 63, iv (xii), 11a, b, c.
- **mamilla**, Williamson. Recent British Foram. 1858, 54, iv, 109-111. [= *Discorb. rosacea*, d'Orb.]
- Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 27, iii, 2a, b; (and Mém. Soc. Dunkerquoise). [= *Discorb. rosacea*.]
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- **margaritifera**, Terq. Mém. Soc. géol. France, [3], I, 1878, 18, i (vi), 14a-c.
- **marginata**, Cornuel. Mém. Soc. géol. France, [2], III, 1848, 257, ii, 17-19.
- **marginata**, d'Orb. Terq., Mém. Soc. géol. France, [3], II, 1882, 80, viii (xvi), 5a-c. [*Rotalia*, 1826.]
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- **meridionalis**, Costa. Mem. Acc. Sci. Napoli, II, 1855 (1857), 124, i, 13A, B, C.
- **melcheliniana**, d'Orbigny. Mém. Soc. géol. France, [1], IV, 1840, 31, iii, 1-3; facsimile in Science Gossip, 1870, 107, fig. 114. [v. also *Pulvinulina*; *P. repanda*, var.; and *Rotalia*.]
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- [**melchelinii**] Fritel, Foss. Caract. terr. sed. second. 1888, pl. xx, 33, 34, and 35.
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- **nana**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 371, xlvi, 23.
- **nautiloidea**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 72, viii, 5a, b; (and Mém. Soc. Dunkerquoise).
- [**nautiloides**] Terq., Mém. Soc. géol. France, [3], II, 1882, 62, iv (xii), 9a, b, c.
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- Reuss, Verstein. böhm. Kreide, 1845-46, I, 35, viii, 52; xii, 8 and 20.
- **nitida**, Williamson. Recent British Foram. 1858, 54, iv, 106-108.
- Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 26, ii, 9a-e; (and Mém. Soc. Dunkerquoise).
- **nodosa**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 72, viii, 7a, b; (and Mém. Soc. Dunkerquoise).

- ROTALINA nodosa**, Terquem, v. *umbilicata*, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 124, xv, 8; (and Mém. Soc. Dunkerquoise).
- **nucleata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 28, iii, 6a, b, c; (and Mém. Soc. Dunkerquoise).
- **nuda**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 28, iii, 7a, b; (and Mém. Soc. Dunkerquoise).
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- **obesa**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 61, iv (xii), 6a, b, c.
- **oblonga**, Williamson. Recent British Foram. 1858, 51, iv, 98-100. [v. *Pulvinulina*; = *Pulvin. auricula*.]
- ——— Dawson, Canad. Nat. v, 1860, 191, fig. 1.
- ——— Cooke, Thousand Objects Microsc. 1869, 92, ix, 22.
- **obscura**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 29, iii, 9a, b; (and Mém. Soc. Dunkerquoise).
- **obtusa**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 122, xv, 2a, b; (and Mém. Soc. Dunkerquoise).
- **obvoluta**, Terq. Mém. Soc. géol. France, [3], II, 1882, 81, viii (xvi), 7a-c.
- **ochracea**, Williamson. Recent British Foram. 1858, 55, iv, 112; v, 113. [*Trochammina*.]
- ——— Cooke, Thousand Objects Microsc. 1869, 92, ix, 18.
- **orbicularis** (d'Orb.). Reuss, in Geinitz, Grundr. Verstein. 1845-46, 673, xxiv; 50. [? *Discorbis*, 1826.]
- **orbicularis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 60, iv (xii), 1-3.
- **orthorapha**, Egger. Neues Jahrbuch, 1857, 275, x, 1-3.
- **ovalis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 60, iv (xii), 4a, b, c.
- **ovigera**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 30, iii, 11a, b; (and Mém. Soc. Dunkerquoise).
- **partschiana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 153, vii, 28-30; viii, 1-3. [v. *Epistomina*.]
- ——— var. Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 340, xvi, 6.
- ——— Mackie, Recreative Science, I, 1859, 147, fig. 10.
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- **patella**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 371, xlvi, 22.
- **peraffinis**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xxii, 17.
- **peroralis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 70, vi (xiv), 5a-c.
- **pertusa**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 70, vi (xiv), 7a-c.
- **peruviana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 35, ii, 3-5.
- **placentula**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 63, iv (xii), 12a, b, c.
- **planorbiformis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 121, xiv, 6a, b, c; (and Mém. Soc. Dunkerquoise).
- ——— var. **irregularis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 121, xiv, 7a, b, c; (and Mém. Soc. Dunkerquoise).
- **pleurostomata**, Schlumberger. Feuille Jeun. Nat., Aug. 1883, 119, iii, 5, 5a, b.
- **polyrraphes**, Reuss. Verstein. böhm. Kreide, 1845-46, I, 35, xii, 18. [v. *Planorbulina*.]

- ROTALINA polyrraphes**, Reuss. Haidinger's Naturw. Abh. iv, Abth. 1, 1851, 35, iii, 1.
- **porosa**, Terq. Mém. Soc. géol. France, [3], II, 1882, 84, viii (xvi), 15a-c.
- **problema**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 72, viii, 8a, b; (and Mém. Soc. Dunkerquoise).
- **propingua** (Reuss). Egger, Neues Jahrbuch, 1857, 275, vii, 14-17. [*Rotalia*, 1856.]
- **punctulata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 83, viii (xvi), 12a-c.
- **pustulosa**, Terq. Mém. Soc. géol. France, [3], II, 1882, 77, vii (xv), 12a-c.
- **quadriloba**, Terq. Mém. Soc. géol. France, [3], II, 1882, 77, vii (xv), 11a-c.
- **radiata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 29, iii, 10a, b; (and Mém. Soc. Dunkerquoise).
- Terq., Mém. Soc. géol. France, [3], II, 1882, 78, vii (xv), 14a-c.
- **reticulata**, Czjzke. Haidinger's Nat. Abh. II, 1848, 145, xiii, 7-9. [v. *Truncatulina*; *Planorbulina*; *P. farsata*, var.; and *Siphonina*.]
- **rosea**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 72, iii, 9-11; also in Spanish, 1840, 87, same pl. and fig.
- **rotata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 83, viii (xvi), 13a-c.
- **sagra**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 77, v, 13-15; also in Spanish, 1840, 91, same pl. and fig.
- **saxorum**, d'Orb. Terq., Mém. Soc. géol. France, [3], II, 1882, 69, vi (xiv), 4a, b, c. [*Rotalia*, 1826.]
- **scaphoidea**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 372, xlvii, 3.
- **schreibersii**, d'Orbigny. Foram. Fossiles Vienne, 1846, 154, viii, 4-6. [v. *Pulvinulina*.]
- **scutata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 63, iv (xii), 13a, b, c.
- **semi-marginata** (d'Orb.). Terq., Mém. Soc. géol. France, [3], II, 1882, 56, iii (xi), 12-14. [*Turbinulina*, 1826.]
- **semiornata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 79, viii (xvi), 2a-c.
- **semiporata**, Egger. Neues Jahrbuch, 1857, 276, viii, 1-3.
- **semipunctata**, Bailey. Smithsonian Contrib. II, 1851, 11, pl., 17-19.
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- **septifera**, Terq. Mém. Soc. géol. France, [3], II, 1882, 65, v (xiii), 2a, b, c.
- **simplex**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 60, v (xv), 6a, b.
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- Terq., Mém. Soc. géol. France, [3], II, 1882, 76, vii (xv), 9a-c.
- **soldanii**, d'Orbigny. Foram. Fossiles Vienne, 1846, 155, viii, 10-12. Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 26, ii, 8a-d; (and Mém. Soc. Dunkerquoise).
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- **solida**, Terq. Mém. Soc. géol. France, [3], II, 1882, 72, vi (xiv), 12a-c.
- **spectrum**, Terq. Mém. Soc. géol. France, [3], I, 1878, 19, i (vi), 15a-c.
- **spinimargo**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 371, xlvii, 1.
- **spissa**, Terq. Mém. Soc. géol. France, [3], I, 1878, 18, i (vi), 13a-c.
- **stellata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 27, iii, 3a, b, c; (and Mém. Soc. Dunkerquoise).
- Terquem, Mém. Soc. géol. France, [3], II, 1882, 58, iii (xi), 16a, b, c.

- ROTALINA stelligera**, Reuss. Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 69, xxv, 15. [v. *Epistomina*.]
 ——— **subæqualis**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xxii, 18.
 ——— **subæquilateralis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 121, xiv, 5a, b; (and Mém. Soc. Dunkerquoise).
 ——— **subconica**, Terq. Mém. Soc. géol. France, [3], II, 1882, 61, iv (xii), 5a, b, c.
 ——— **succisa**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 123, xv, 4a, b, c; (and Mém. Soc. Dunkerquoise).
 ——— ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 71, vi (xiv), 9 and 10.
 ——— **suessonensis** (d'Orb.). Terq., Mém. Soc. géol. France, [3], II, 1882, 65, v (xiii), 3 and 4. [*Rotalia*, 1826.]
 ——— **tæniata**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 341, xvi, 8.
 ——— **terquemi** (d'Orb.). Terquem, Mém. Ac. Imp. Metz, xxxix, 1858, 629, iv, 8a-c. [*Rotalia*, 1849.]
 ——— **trochidiformis** (Lamarck). Reuss, in Geinitz, Grundr. Verstein. 1845-46, 674, xxiv, 51. [*Rotalites*, 1804.]
 ——— ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 68, vi (xiv), 2a, b, c.
 ? ——— **trochus**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
 ——— **truncatulinoides**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 132, ii, 25-27. [v. also *Pulvinulina*.]
 ——— **tuber**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 235, xvii, A, B, C [fig. 5].
 ——— **tuberculata**. Terquem, Ess. Anim. Plage Dunkerque, pt. 3, 1881, 125, xvi, 1a, b, c; (and Mém. Soc. Dunkerquoise).
 ——— **tumida**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xv, 14.
 ——— ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 71, viii, 4a, b; (and Mém. Soc. Dunkerquoise).
 ——— **turbinata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 75, vii (xv), 5a, b.
 ——— **turbinella**, Gümbel. Jahresh. Ver. vat. Nat. Württ. XVIII, 1862, 230, iv, 10a, b.
 ——— **turbinoides**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 630, iv, 9a-c.
 ——— **turbo**, d'Orb. Terq., Mém. Soc. géol. France, [3], II, 1882, 82, viii (xvi), 11a-c. [*Rotalia*, 1826.]
 ? ——— **turgida**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
 ——— **turgida**, Williamson. Recent British Foram. 1858, 50, iv, 95-97. [v. *Nonionina*.]
 ——— ——— Dawson, Canad. Nat. iv, 1859, 31, fig. 20.
 ——— ——— Cooke, Thousand Objects Microsc. 1869, 90, ix, 12.
 ——— **umblicata**, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 32, iii, 4-6; facsimile in Science Gossip, 1870, 107, fig. 115. [v. *Pulvinulina*.]
 ——— **umbonata**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 75, v, 35. [v. *Pulvinulina*.]
 ——— **ungeriana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 157, viii, 16-18. [v. *Truncatulina*; *Planorbulina*; and *P. farcta*, var.]
 ——— ——— var. Bornemann, Zeitschr. deutsch. geol. Ges. VII, 1855, 341, xvi, 5.
 ——— **uviformis**, Terq. Mém. Soc. géol. France, [3], II, 1882, 73, vi (xiv), 14a-c; 15a-c.
 ——— **vitrea**, Terq. Mém. Soc. géol. France, [3], II, 1882, 79, viii (xvi), 3a-c.
 ——— **voltziana**, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 31, ii, 32-34; facsimile in Science Gossip, 1870, 107, fig. 113.

- ROTALINA** *voltziana*, d'Orbigny. Cooke, Thousand Objects Microsc. 1869, 90, ix, 11.
 ——— [voltzii] ——— Beudant, Géologie, ed. 8, 1858, 117, fig. 101; later eds., same fig.
 [Rotaline form.] Hooke, Micrographia, 1665, 80, Schem. v, fig. x; also in 1667, same fig. etc.
 [Rotaline form.] Hooke, Micrographia restaurata, 1745, 71, pl. iii, f. 4.
 [Rotaline form.] Adams, Micrographia illustrata, 1746, pl. 64, 562; ed. 2, 1747, pl. 64, 562; ed. 4, 1771, pl. 70, 562. "Resembling the shell of a small water snail [= *R. beccarii*]; same figure as in Hooke's Micrographia."
 [Rotaline forms.] Ginani, Opere postume, 1755, 20, pl. xiv, iii, 112.
 ——— Lyell, Quart. Journ. Geol. Soc. I, 1845, 64, fig. a.
 [Rotaline cast.] Bailey, Amer. Journ. Sci. XLVIII, 1845, 343, iv, 30 and 31.
 ——— Pietet, Traité de Paléont. iv, 1846, 232, xii, 15.
 ——— Abich, Mém. Ac. Imp. Sci. [Math. Phys.] St. Pétersbourg, [6], VII, 1859, 57, ii, 5a, b. [*R. beccarii*?]
 [Rotaline], Wallich, Quart. Journ. Sci. I, 1864, plate, 5.
 ——— Williamson, Pop. Sci. Rev. iv, 1865, 176, viii, 2. (After Schultze.) [Showing pseudopodia.]
 ——— Von Schlicht, Foram. Septar. Pietzpuhl, 1870, plates xx, xxi, xxiii, xxiv, xxxviii.
 ——— Wallich, Pop. Sci. Rev., N. S. II (xvii), 1878, pl. iv, 3. [Containing sarco-blasts.]
 ——— de Folin, Congrès Scient. Dax, 1882 (1883), 305, pl., f. 1, 2, and 3. [Sarcocod body.]
 ——— Terquem, Cinq. Mém. Foram. Oolithique, 1883, 368, xli, 16a, b; xlii, 1-4.
 ——— Terquem, Mém. Soc. géol. France, [3], iv, 1886, 48-50, v, 8-15.
 ——— de Folin, Le Naturaliste, Ann. 9, 1887, 140, fig. 18. [Sarcocod body.]
- ROTALITES**, Lamarck, 1804. Ann. Mus. v, 1804, 184.
 ——— *depressa*, Lamarck. Vélins du Muséum Paris, No. 22, fig. 15.
 ——— *discorbula*, Lamarck. Ann. Mus. v, 1804, 185, No. 4; and VIII, 1806, fig. 9a, b, pl. 62.
 ——— ——— Parkinson, Organ. Rem. former World, III, 1811, 160, xi, 3.
 ——— ——— Lamarck, Coq. Foss. Paris, 1823, 14, xiv, 9a, b.
 ——— ——— Lamarck, Ency. Method., "Vers," III (1832), 911 (pls. 1827), 466, f. 6 (P. & J. quote "pt. 23," 1816).
 ——— *orbiculata*, Lamarck. Vélins du Muséum Paris, No. 22, fig. 14.
 ——— *radiatus*, Montfort. Conch. syst. I, 1808, 163, 41st genre. [= *Numm. perforata*, var. *radiata*.] [v. *Nummulites*.]
 ——— *sinistrorsa*, Lamarck. Vélins du Muséum Paris, No. 22, fig. 13.
 ——— *trochidiformis*, Lamarck. Ann. Mus. v, 1804, 184, and VIII, 1806, No. 1, fig. 8a, b, pl. 62. [v. *Rotalia*; *Rotalina*; and *Discorbina*.]
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 ——— ——— Lamarck, Coq. Foss. Paris, 1823, 14, xiv, 8a, b.
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 ——— ——— Blainville, Mannel Malac. et Conch. 1825 (pls. 1827), 391, x, 1 [and vi, 3].
 ——— ——— Lamarck, Ency. Method., "Vers," III (1832), 912 (pls. 1827), 466, f. 8 (P. & J. quote "pt. 23," 1816).
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 ——— ——— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 18, viii, 3.
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 ——— [trochiformis] ——— Brown, Elem. Foss. Conch. 1843 [23], iii, 12.
 ——— Bowdich, Elem. Conch. Part 1, 1822, 22, ii, 13.

- Rotia veneta**, M. Satch. O. A. Grimm, Kaspiiskai mare e ega fauna, Part 1, 1876, 69, i, 4a, 4b. [= *Rotalia veneta*, M. Schultze.]
- ROTULITES**, DeFrance & Brown. v. *Rotalites*.
- RUPERTIA**, Wallich, 1877. Ann. Mag. Nat. Hist. [4], XIX, 1877, 502; Brady, Report Challenger, 1884, 680.
- *incrassata*, Uhlig. Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 185, iv, 3-9.
- *stabilis*, Wallich. Ann. Mag. Nat. Hist. [4], XIX, 1877, 502, xx, 1-13.
- ——— Schlumberger, Feuille Jeun. Nat., Aug., 1883, 119, ii, 6, 6a, b, c, 7, 7a, 8.
- ——— Brady, Report Challenger, 1884, 680, xviii, 1-12.
- ——— Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 184, iv, 1 and 2.
- Sabularia**, Bonnisant, 1867, error for *Fabularia*.
- Saccamina**, Carpenter, 1881; and Meunier, 1888. Error for *Saccamina*.
- SACCAMMINA**, M. Sars, 1868. Forh. Vidensk.-Selsk. Christiania, 1868 (1869), 248; Brady, Report Challenger, 1884, 252.
- *carteri*, Brady. Ann. Mag. Nat. Hist. [4], VII, 1871, 183, xii, 1-6.
- ——— Brady, Nat. Hist. Trans. Northumb. and Durham, iv, 1872, 269, pl. xi.
- ——— Brady, Carbonif. Foram., Pal. Soc. xxx, 1876, 57, i, 1-7; xii, 6.
- ——— Zittel, Handbuch Palaeont., Abth. 1, 1876, 76, fig. 8⁴.
- ——— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 26, pl., 81.
- ——— Nicholson & Etheridge, Monogr. silur. fossils Girvan, fasc. i, 1878, 21, ix, 23.
- ——— Nicholson, Manual Palaeont. 1879, I, 112, fig. 21A, B.
- ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 195, v, 13.
- ——— Roemer, Lethaea Geognostica, Th. I, Lief. 1, 1880, 264, fig. 40.
- ——— Steinmann, Elém. Paléont. I, 1888, 25, fig. 7A, B.
- ——— Prestwich, Geology, II, 1888, 101, fig. 47a.
- [**SACCAMMINA**] ——— Meunier, Bull. Soc. Hist. Nat. Autun, I, 1888, 234, vii, 1, 2.
- ? ——— (*Calcisphæra*) *eriana*, Dawson. Canad. Nat. x, 1881, 5, fig. 3. [H. B. Brady doubts its rhizopodal character, idem, p. 8; see *Moellerina*.]
- *schwageri*, Zittel. Handbuch Palaeont., Abth. I, 1876, 76, fig. 8⁵.
- *socialis*, Brady. Report Challenger, 1884, 255, xviii, 18 and 19.
- *sphærica*, M. Sars. Forh. Vidensk.-Selsk. Christiania, 1868 (1869), 248.
- ——— Brady, Report Challenger, 1884, 253, xviii, 11-17.
- [**SACCAMMINA**] ——— Carpenter, The Microscope, ed. 6, 1881, 560, fig. 319* a, b, c.
- ——— Neumayr, Stämme d. Thierreiches, I, 1889 (8), 173, fig. 17c.
- ——— Carpenter, Ency. Brit. 9th ed. IX, 1879, Foraminifera, 375, 5a, b, c.
- De Folin, Bull. Soc. N. H. Toulouse, xv, 1881, 136; 1 n. sp. proposed but not described.
- Sachets**. See "Säckgen."
- "**Säckgen**." Ledermüller, Mikrosk. Ergötz. 1763, 8, pl. iv, f. ii; see also "Amusem. Microscop." 1764, same references. [= ? *Milolina*; or ? *Serpulæ*.]
- SAGENELLA**, Brady, 1879. Q. Journ. Micr. Sci. XIX, 1879, 41; Brady, Report Challenger, 1884, 279.
- *frondescens*, Brady. Q. Journ. Micr. Sci. XIX, 1879, 41, v, 1.
- ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 195, v, 16.

- SAGENELLA frondescens**, Brady. Report Challenger, 1884, 278, xxviii, 14 and 15.
 ——— De Folin, Bull. Soc. N. H. Toulouse, xv, 1881, 135; 1 new species proposed but not described.
 ——— See Haeckel's remarks under *Astorhiza*.
- SAGRINA**. See *Sagrina*.
- SAGRINA**, d'Orbigny, 1839. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 149; also in Spanish, 1840, 139 [v. *Uvigerina* *]; Brady, Report Challenger, 1884, 580.
- [**SAGRINA**] **affinis**, Fornasini. Boll. Soc. geol. Ital. II, 1883, 189, ii, 10a, b, c.
 ——— Fornasini, Boll. Soc. geol. Ital. VII, 1888, 45, iii, 1, 1a, 1b.
 ? ——— **annulata**, Brady. Report Challenger, 1884, 586, lxxvi, 20 and 21.
- [**SAGRINA**] **aspera**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 157, iii, 26a-d.
 ——— **bifrons**, Brady. Quart. Journ. Micos. Sci. XXI, 1881, 64.
 ——— Brady, Report Challenger, 1884, 582, lxxv, 18-20.
 ——— **clavata**, Franzenau. Math. termész. értesítő, VII, 1889, 260, v, 3.
 ——— **columellaris**, Brady. Quart. Journ. Micos. Sci. XXI, 1881, 64.
 ——— Brady, Report Challenger, 1884, 581, lxxv, 15-17.
 ——— **cretæ**, Ehrenberg. Mikrogeologie, 1854, xxx, 16. [Near *Heterostomella aculeata* (Ehr.).]
 ——— Ehr., Mikrogeologie, 1854, xxxi, 28. [= *Heterostomella aculeata*.]
 ——— **dimorpha** (Park. & Jones). Brady, Report Challenger, 1884, 582, lxxvi, 1-3. [v. *Uvigerina* (*Sagrina*), 1865.]
 ——— Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 225, xlv, 6.
 ——— Agassiz, Three Cruises "Blake," II, 1888, 166, fig. 508.
 ——— **divaricata**, Brady. Q. Journ. Micos. Sci. XIX, 1879, 276, viii, 22-24. [v. *Nubecularia*.]
 ——— **limbata**, Brady. Report Challenger, 1884, 586, exiii, 14.
 ——— Howchin, Trans. Roy. Soc. S. Austral. XII, 1889, 11, i, 7.
 ——— **longirostris**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 22. [= "*Loxost. tumens*," = *Heterostomella aculeata*, smooth var.]
 ——— **nodosa**, Park. & Jones. Brady, Report Challenger, 1884, 583, cxiv, 18a, b. [*Uvigerina* (*Sagrina*), 1865.]
 ——— **pulchella**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 150, i, 23 and 24; also in Spanish, 1840, 140, same pl. and fig.
 ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 252, xxi, 48 and 49.
- [**SAGRINA**] ——— Reuss' Models, No. 83, 1865 (Catal., No. 77, 1861).
 ——— **raphanus**, Park. & Jones. Brady, Report Challenger, 1884, 585, lxxv, 21-24. [*Uvigerina* (*Sagrina*), 1865.]
 ——— **rugosa**, d'Orbigny. Mém. Soc. géol. France, [1], IV, 1840, 47, iv, 31 and 32; Facsimile in Science Gossip, 1870, 157, fig. 156.
 ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 678, xxiv, 70.
- [**SAGRINA**] ——— Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 92, xxix¹, 24.
 ——— Beudant, Géologie, ed. 8, 1858, 117, fig. 96; later eds., same fig.
- [**SAGRINA**] **striata** (Schwager). Boll. R. Com. geol. Ital. VIII, 1877, 25, pl., 35. [*Dimorphina*, 1866.]
 ——— Brady, Report Challenger, 1884, 584, lxxv, 25 and 26.
 ? ——— **tessellata**, Brady. Report Challenger, 1884, 585, lxxvi, 17-19.
 ——— **virgula**, Brady. Q. Journ. Micos. Sci. XIX, 1879, 275, viii, 19-21.

* Phil. Trans. 1865, 364.

- SAGRINA** *virgula*, Brady. Report Challenger, 1884, 583, lxxvi, 4-10.
 ——— See *Ungerina*.
- Salicis serrata**, Kircher. Mundus subterr. 1665-78, 29. [= *Nummulites*.]
Salicites *helveticus niger foliolis candidis*. Lange, Hist. Lapidum Figuratorum, 1708, 69 and 70, xviii. [Nummulite.]
- SARACENARIA**, DeFrance, 1824.
 ——— *italica*, DeFrance. Dict. Sci. Nat. xxxii, 1824, 177; xlvii, 1827, 344; Atlas, Conch. xiii, 6. [= *Crist.*] [v. also *Cristellaria*; *Nodosarina*.]
 ——— ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 370, v, 6.
 ——— ——— D'Orbigny, Ann. Sci. Nat. vii, 1826, 293, No. 26; and Modèles, 1826, No. 85. [See *Cristellaria*.]
- SAXICOLINA**, Deshayes, 1830. Ency. Meth., "Vers," ii, 1830, "Cephalopodes" [Sign. Ff. 2], 231 and 234. [Type "*Miliolites saxorum*."]
- SCHIZOPHORA**, Reuss, 1861. Sitz. k. Ak. Wiss. Wien, XLIV, 1861, 373; and Verzeich. Gypsmodellen Foram. [1861], No. 80.
 ——— *capreolus* (d'Orb.). Schlumberger, Feuille Jeun. Nat., Aug. 1883, 117, iii, 4 and 4a, and cut, p. 108. [*Vulvulina*, 1826.]
 ——— *hæringensis* (Gümb.). Hantken, A magy. kir. földt. int. évkönyve, i, 1871, 130, ii, 17a, b; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, i, 1871, 136, same pl. and fig. [*Venilina*, 1868.]
 ——— ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 58, vii, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 68, same pl. and fig.
 ——— ——— Hantken, Kohlenflötze, etc. ungar. Krone, 1878 (trans. from Magyar), 228, fig. 44.
 ——— *neugeboreni*. Rss. Models, No. 42, 1865 (Catal., No. 80, 1861). [Bigenerine *Vulvul. pennatula*.]
 ——— ——— Schwager, Boll. R. Com. geol. Ital. viii, 1877, 26, pl., 64.
 ——— ——— Karrer, Abh. k. k. geol. Reichs. ix, 1877, 386, xvi, b, 51.
- SCHIZOPORA**, Hantken, 1871. See *Schizophora*.
- SCHLUMBERGERINA**, Munier-Chalmas, 1882. Bull. Soc. géol. France, [3], x, 1882, 424.
 ——— *areniphora*, Mun.-Chalmas. Bull. Soc. géol. France, [3], x, 1882, 425, figure. [One of the *Miliolinae*.]
- SCHWAGERINA**, v. Moeller, 1877. Nenes Jahrbuch, 1877, 143.
 ——— *craticulifera*, Schwager. Richthofen's China, iv, 1883, 140, xviii, 15-25.
 ——— *ellipsoidalis* (typus *lepida*), Schwager. Richthofen's China, iv, 1883, 118. [v. *Alveolina*.]
 ——— *fusiformis*, Krotov. Trudye geol. Kom. (St. Peterburg), vi, No. 1, 1888, 438 and 552, ii, 13-15.
 ——— *lepida*, Schwager. Richthofen's China, iv, 1883, 138, xvii, 13 [error for 18]; xviii, 1-14.
 ——— ——— v. *ellipsoidalis*, Schwager. Richthofen's China, iv, 1883, 118.
 ——— ——— Steinmann, Elém. Paléont. i, 1888, 32, fig. 15G.
 ——— *princeps* (Ehr.). Von Moeller, Mém. Ac. Imp. Sci. St. Pétersbourg, [7], xxv, No. 9, 1878, 71, v, 1a, b; ix, 1a, b. [*Borelis*, 1854.]
 ——— ——— Von Moeller, Jahrb. k. k. geol. Reichsanstalt, xxx, 1880, 577, ix, 6a.
 ——— ——— Von Moeller, Verh. russ. k. Min. Ges. [2]; xvi, 1881, 183, etc. ix, 5a [error for 6a].
 ——— ——— Schwager, Richthofen's China, iv, 1883, 132, xvi, 15 and 16; xvii, 1-8.
 ——— ——— Steinmann, Elém. Paléont. i, 1888, 32, fig. 15D, E, F.
 ——— ——— Krotov, Trudye geol. Kom. (St. Peterburg), vi, No. 1, 1888, 436 and 553, ii, 7 and 8.
 ——— *robusta* (Meek). Krotov, Trudye geol. Kom. (St. Peterburg), vi, No. 1, 1888, 437 and 553, ii, 9-12. [*Fusulina*, 1864.]

- SCHWAGERINA verbeeki** (Geinitz). Roemer, *Palaeontographica*, xxvii, 1880 (1881), 4, i, 1a, b. [*v. Fusulina.*]
 ———— Roemer, *Lethaea Geognostica*, Th. I, Lief. 1, 1880, 278, fig. 46.
 ———— Schwager, *Richtshofen's China*, iv, 1883, 135, xvi, 14, 17, and 18; xvii, 9-17.
 ———— [verbeeki] ———— Quenstedt, *Handbuch Petref. ed. 3, Abth. 5* (1885), 1053, lxxxvi, 26.
- SCORTIMUS navicularis**, Montfort. *Conch. syst.* I, 1808, 251, 63d genre. [*= Cristellaria*, q. v.]
- “**Seesterne.**” Knorr & Walch, *Rec. Monumens catastrophes, 1768-1778*, III, 181, pl. 6*, f. 9-16. [*= Siderolina calcitrapoides.*]
- SEGUENZA**. Silvestri, *Boll. Soc. Italiana Microsc.* I (1 and 2), 1889, 57.
 ———— *anomala*, Silv. *Idem*, 58, iii, 3-5.
- SELENOIDES**, D. D. Owen, 1852. *Report Geol. Surv. Wisconsin*, 1852, 586. [*= Receptaculites.*]
 ———— *iowensis*, D. D. Owen. *Idem*, 587, ii, B, 13.
- SELENOSTOMUM**, Ehrenberg, 1858. *Monatsber. k. pr. Ak. Wiss. Berlin*, 1858, 12. [E familia *Rotalinarum*, sectione *Nautiloidum*; spira in utroque latere obtecta, oris apertura in sinistro singularum cellularum medio latere rimam curvatam reflexam supra marginem ascendentem referente.]
 ———— *ægæum*, Ehr. *Monatsbericht k. preuss. Ak. Wiss. Berlin*, 1858, 29.
 ———— *fimbriatum*, Ehr. *Monatsbericht k. preuss. Ak. Wiss. Berlin*, 1858, 29.
- Semina**. Spada, *Corporum lapid. Agri Veronensis*, 1739, 49, no figs. [*= Nummulites?*]
- Semina anisi fœniculi.** }
 ———— *cuminicum.* } Langius, *Hist. lap. fig. Helvet.* 1708, 69, pl. xviii.
 ———— *melonum.* }
 ———— *cumini-pratensis.* Kircher, *Mund. subterr.* 1665-78, 29. [*= Nummulites.*]
- SEPTAMMINA**, Meunier. *Bull. Soc. Hist. Nat. Autun*, I, 1886, 235.
 ———— *dichotoma*, Meunier. *Idem*, 236, vii, 5.
 ———— *renaulti*, Meunier. *Idem*, 235, vii, 3.
- SERPULA**, auct.
 ———— *angulosa*, v. Martens. *Reise nach Venedig*, Th. II, 1824, 482, iii, 8. [*= Miliolina.*]
 ———— *bicornis*, Walker & Jacob. In Kannmacher's ed. of Adams' *Essays Microsc.* 1798, 633, xiv, 2. [Walker's i, 2 = *Miliolina seminulum*, Linn., young.] [*v. Adelosina; Miliola; Miliolina; Triloculina; Quinqueloculina.*]
 ———— *umbilico perforato*, Walker & Boys. *Test. Min.* [1784], 2, i, 3. [*= Miliolina seminulum*, Linn.]
 ———— *ventricosa*, Walker & Boys. *Test. Min.* [1784], 1, i, 2. [*= Miliolina seminulum*, Linn., young specimen.]
 ———— *concamerata*, Montagu. *Test. Brit. Suppl.* 1808, 160 (fide Williamson). [*v. Rotalina; Pulvinulina; P. repanda*, var.; and *Discorbina.*]
 ———— *filum*, Schmid. *Neues Jahrbuch*, 1867, 583, vi, 48. [*v. Ammodiscus; Trochammina.*]
 ———— *lactea*, Walker & Jacob. In Kannmacher's ed. of Adams' *Essays Microsc.* 1798, 634, xiv, 4. [Walker's i, 5 = *Polymorphina lactea*, W. & J.] [*v. Miliola; and Polymorphina.*]
 ———— (*Lagena*) *lævis globosa*, Walker & Boys. *Test. Min.* [1784], 3, i, 8. [*= Lagena globosa*, Mont.]
 ———— (*Lagena*) *lævis ovalis*, Walker & Boys. *Test. Min.* [1784], 3, i, 9. [*= Lagena sulcata*, var. *lævis*, Mont.]
 ———— (*Lagena*) *sulcata*, Walker & Jacob. In Kannmacher's ed. of Adams' *Essays Microsc.* 1798, 634, xiv, 5. [Walker's i, 6 = *Lagena sulcata.*]
 ———— *lenticularis*, v. Martens. *Reise nach Venedig*, Th. II, 1824, 482, iii, 9. [*= Adelosina.*]

- SERPULA lobatula**, Montagu. Test. Brit. 1803, 515; Suppl. 1808, 160. [= *Truncatulina*; see *Nautilus*.]
 ——— (**Lagena**) **marginata**, Walker & Boys. Test. Min. [1784], 2, i, 7. [= *Lagena marginata*, Mont.] [v. *Vermiculum*; *Lagena*; *Entosolenia*; and *Lagena sulcata*.]
 ——— **ovalis**, Walker. Adams, Trans. Linnean Soc. III, 1800, 4, i, 28, 29, 30. [*Miliolina*.]
 ——— **perforata**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Microsc. 1798, 633, xiv, 3. [Walker's i, 3 = *Miliolina seminulum*, Linn., young.] [v. *Miliola*; and *Triloculina*.]
 ——— (**Lagena**) **perlucida** [Montagu]. Turton, Conch. Dict. 1819, 157, vii, 23. [*Vermiculum*, 1803.]
 ——— **pusilla**, Geinitz. Verstein. deutsch. Zechsteingeberges u. Rothliegenden, Heft I, 1848, 6, iii, 3, 4, 5, 6. [v. also *Trochammina*; *Spirillina*.]
 ? ——— ——— Jones, in King, Pal. Soc. 1850, 57, vi, 7-9; xviii, 13a-d.
 ——— ——— Geinitz, Dyas, etc. 1861, Heft I, 39, x, 15-21.
 ——— **retorta**, Walker & Jacob. In Kannmacher's ed. of Adams' Essays Microsc. 1798, 634, xiv, 6. [Walker's i, 10 = *Miliolina seminulum*, Linn., young.] [v. *Lagena*.]
 ——— (**Retorta**) **rotunda marginata cervice curvatim exerto**, Walker & Boys. Test. Min. [1784], 3, i, 10. [= *Miliolina seminulum*, Linn., young.]
 ——— **roessleri**, Schmid. Neues Jahrbuch, 1867, 583, vi, 46 and 47.
 ——— **seminulum**, Linné. Syst. Nat. 1758, ed. x, 786; Gmelin's (xiii), ed. 1788, 37, 39. [v. *Quinqueloculina*; *Miliola*; and *Miliolina*.]
 ——— ——— Modeer, Nova Acta Acad. Caes. Leop. Carol. VIII, Appendix, 1791, 93, figure.
 ——— ——— Pulteney, Catalogue in Hutchins, Hist. of Dorset, 2d ed. III, 1813, 60, xix, 31.
 ——— ——— Brady, Report Challenger, 1884, 158, fig. 2. [Copied from Planens, Gaulteri, and Martini.]
 ——— (**Lagena**) **striata sulcata rotunda**, Walker & Boys. Test. Min. [1784], 2, i, 6. [= *Lagena sulcata*, W. & J.] [v. *Vermiculum*; *Lagena*; and *Lagenulina*.]
 ——— **subovalis intorta umbilico pervio**, Walker & Boys. Test. Min. [1784], 1, i, 1. [= *Miliolina seminulum*, Linn.]
 ——— **subrotunda dorso elevato**, Walker & Boys. Test. Min. [1784], 2, i, 4. [= *Miliolina seminulum*, var. *subrotunda*, Mont.]
 ——— **tenuis ovalis lævis**, Walker & Boys. Test. Min. [1784], 2, i, 5. [= *Polymorphina lactea*, W. & J.]
 ——— **urnæ** [Montagu]. Turton, Conch. Dict. 1819, 158, vii, 21. [*Vermiculum*, 1803.]
SEXLOCULINA, Czjzek, 1848. Haidinger's Nat. Abh. II, 1848, 149. [= *Sphaeroidina*.]
 ——— **haueri**, Czjzek. Haidinger's Nat. Abh. II, 1848, 149, xiii, 35-38.
 ——— ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 249, xxxv⁸, 8a, b, c.
Sextularia, Leidy, 1884. Misprint for *Textularia*.
Sphaeroidina, Schwager, 1866. Misprint for *Sphaeroidina*.
SHEPHEARDELLA, Siddall, 1880. Q. Journ. Micros. Sci. xx, 1880, 131. [One of the *Gromidæ*.]
 ——— **tæniformis**, Siddall. Quart. Journ. Micros. Sci. xx, 1880, 131, pl. xv.
SIDEROLINA, DeFrance, 1824. Dict. Sci. Nat. xxxii, 1824, 180.
 ——— **calcitrapoides** (Lamarek). [*Siderolites*, 1801.]
 ——— [**calcytrapoides**] (Lam.). DeFrance, Dict. Sci. Nat. xxxii, 1824, 180; XLIX, 1827, 98; Atlas, Conch. xiii, 7. [= *Calcar. spengleri*, Gümb.]
 ——— ——— D'Orbigny, Ann. Sci. Nat. VII, 1826, 297, No. 1.
 ——— ——— [d'Orb.]. Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 9, ii, 8.

- SIDEROLINA calcitrapoides** [d'Orb.]. Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 17, iii, 8.
 ——— Cuvier, Règne Animal, 1836-46, ix (pls. x), 33, xv, 6.
 ——— Pilla, Distinz. terr. Etrurio, 1846, 104, i, 13.
 ——— Knorr, "Petrifaceta," 1755-1773, III, supp., figs. 9-16.
 ——— **cruscula**, Harting. Verh. Kl. Koninkl.-Nederland. Inst. [3], iv, 1852, 115, ii, 7a, b, c. [= ?]
 ——— **defrancii**, Deshayes. Ency. Méth. "Vers," 1832, 948.
 ? ——— **indica**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 376.
 ——— **kochi**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 68, xvi, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 79, same pl. and fig.
 ——— **lævigata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 297, No. 2. [v. *Calcarina*.]
 ——— D'Orbigny, Modèles, No. 89, 1826.
 ——— P., J., & B. [d'O., Modèles, No. 89], Ann. Mag. Nat. Hist. [3], xvi, 1865, 33, iii, 90. [= *Calcarina*.]
 ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, fig.
 ? ——— **liasina**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 618, iii, 13a, b.
 ——— Pietet, Traité de Paléont. iv, 1846, 228, xii, 8 and 9.
 ——— Ansted, Ancient World, 1847, 237, fig. 91; ed. 2, 1848, 221, fig. 87.
 ? see *Lenticula*.
 "Siderolina-ähnliche formen." Gümbel, Jahresh. Ver. vat. Nat. Würt. xviii, 1862, 235, iv, 19. [= Sponge spicule.]
SIDEROLITES, Lamarck, 1801. Syst. Anim. s. Vert. 1801, 376.
 ——— **calcitrapoides**, Lamarck. Syst. Anim. s. Vert. 1801, 376. [v. *Siderolina*; and *Calcarina*.]
 ——— [**calcitrapoide**], Lamarck. Faujas de St. Fond,* Hist. Nat. Mont St. Pierre Maestricht, 1799, 188, xxxiv, 5-12.
 ——— [**calcitrapes**] ——— Montfort, Conch. Syst. I, 1808, 151, 38th genre.
 ——— Lamarck, Ency. Method. "Vers," III (1832), 948 (pls. 1827), 470, f. 4 (P. & J. quote "pt. 23," 1816).
 ——— Bowdich, Elem. Conch. Part I, 1822, 15, i, 23.
 ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 373, v, 7.
 ——— Crouch, Introd. Lamarck, 1827, 41, xxii, 8.
 ——— Brown, Conch. Text-book, 1839, 60, x, 12.
 ——— Brown, Elem. Foss. Conch. 1843, 23, ii, 10.
 ——— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1053, lxxxvi, 24.
 ——— **hexagonus**, Eichwald. Zoologia specialis, II, 1830, 25, ii, 5. [? a *Polystomella*.]
SIDEROLITHES calcitrapoides, Lam. Brönn, Syst. urweltl. Conchyl. 1824, 7, i, 21.
 ——— Reuss, in Geinitz, Grundr. Verstein, 1845-46, 661, xxiv, 46.
 ——— Reuss' Models, Nos. 53 and 54, 1865 (Catal., Nos. 88 and 89, 1861).
SIDEROLITHUS calcitrapoides, Brönn. Lethaea Geognostica, ed. 2, 1837, 712, xxxiii, 17a, b, c.
 ——— Brönn, Lethaea Geognostica, ed. 3, II, 1851-52, 83, xxxiii, 17a-c.
SIDEROPORUS calcitrapa (Lam.). Brönn, Syst. urweltl. Pflanzenthiere, 1825, 31, vii, 12a-g. [v. *Siderolithus*.]
SIGMOÏLINA, Schlumberger, 1887. Bull. Soc. zool. France, XII, 1887, 118. [This name was proposed for the forms, *Planispirina sigmoidea*; *P. celata*; *Miliolina secans*; *Spiroloculina tenuis*.]
 ——— **secans** (d'Orb.). Halkyard, Trans. Manchester Microsc. Soc. 1889, 61, i, 7 (var. *obliquistriata*).

* St. Fond probably showed his specimens to Lamarck, and so the name appeared in 1799.

- SILICINA**, Bornemann, 1874. *Zeitschr. deutsch. geol. Ges.* xxvi, 1874, 731.
 [= *Involutina*.]
 ——— *limitata* (Terq.). Bornemann, *Zeitschr. deutsch. geol. Ges.* xxvi, 1874, 733. [*Involutina*, 1863.]
 ——— *polymorpha* (Terq.). Bornemann, *Zeitschr. deutsch. geol. Ges.* xxvi, 1874, 732. [*Involutina*, 1863.]
 ——— Schwager, *Boll. R. Com. geol. Ital.* viii, 1877, 26, pl., 80.
- SIMPLORBITES**, de Gregorio, 1882. *Fossili dint. Pachino*, 1882, 10. ["Partecipano anche del gen. *Orbitolites* e *Orbitoides*, e più ancora del gen. *Hymenocyclus*," . . .]
 ——— *cupulimis*, de Gregorio. *Fossili dint. Pachino*, 1882, 11, vi, 21a, b, 22a, b.
 ——— *expansopsis*, de Gregorio. *Fossili dint. Pachino*, 1882, 12, vi, 23 and 24.
 ——— *nummulinus*, de Gregorio. *Fossili dint. Pachino*, 1882, 12, vi, 28a, b.
 ——— *pachinensis*, de Gregorio. *Fossili dint. Pachino*, 1882, 12, vi, 27.
 ——— *perforatæformis*, de Gregorio. *Fossili dint. Pachino*, 1882, 13, vi, 25a, b.
 ——— *spongians*, de Gregorio. *Fossili dint. Pachino*, 1882, 13, vi, 30a, b, c.
 ——— *uniconicus*, de Gregorio. *Fossili dint. Pachino*, 1882, 12, vi, 26a, b, c.
- SIPHOGENERINA**, Schlumberger, 1883. *Feuille Jeun. Nat.*, Aug. 1883, 117.
 ——— *costata*, Schlumb. *Feuille Jeun. Nat.*, Aug. 1883, 118, fig. B. [Referred to *Sagrina raphanus* by Brady.]
 ——— *glabra*, Schlumb. *Feuille Jeun. Nat.*, Aug. 1883, 118, iii, 1 and 1a. [Referred to *Sagrina columellaris* by Brady.]
 ——— *ocracea*, Schlumb. *Feuille Jeun. Nat.*, Aug. 1883, 118, fig. C.
- SIPHONEMA**, J. G. Bornemann, 1886. *Nova Acta Acad. Leop. Carol.* li, pt. 1, 1886, 17. [Referred to *Girvanella* by G. J. Hinde, *Geol. Mag.* dec. 3, iv, 1887, 227; described by Bornemann as an alga.]
 ? ——— *arenaceum*, Bornemann. *Idem*, 19, ii, 3. [Previously noticed in *Zeitschr. deutsch. geol. Ges.* xxxv, 1883, 274, as "rundlichen Körpern, welche undeutliche Stromatoporenstruktur zeigen."
 ——— *incrustans*, Bornemann. *Idem*, 18, ii, 1 and 2.
- SIPHONINA**, Reuss, 1849. *Denkschr. k. Ak. Wiss. Wien*, i, 1850, 372.
 ——— *fimbriata*, Reuss. *Denkschr. k. Ak. Wiss. Wien*, i, 1850, 372, xlvii, 6.
 ——— ——— Terrigi, *Atti Acc. Pont. Nuovi Lincei*, xxxiii, 1880, 212, iv, 69.
 ——— ——— Terq., *Mém. Soc. géol. France*, [3], ii, 1882, 84, viii (xvi), 16a-c.
 ——— *puteolana*, Costa. *Atti Accad. Pontaniana*, vii, fas. 2, 1856, not descr., xxvii, 22.
 ——— *reticulata* (Czj.). Bronn, *Lethæa Geognostica*, ed. 3, iii, 1853-56, 227, xxxv², 23a, b, c. [*Rotalina*, 1848.]
 ——— ——— Schwager, *Boll. R. Com. geol. Ital.* viii, 1877, 26, pl., 59.
 ——— *reticulata*, Reuss. *Models*, No. 48, 1865 (Catal., No. 86, 1861). [= *Planorbulina*.]
- Sitophoros**, Mercatus, *Metallotheca*, 1719, 285, fig.; and 286, fig. [= *Nummulites*.]
- SOLDANIA**, d'Orbigny, 1826. *Ann. Sci. Nat.* vii, 1826, 281.
 ——— *annulata*, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 282, No. 6.
 ——— ——— = *Cornuspira*?; *Spirillina*?; see *Hammonia trivoluta*.
 ——— *carinata*, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 281, No. 1.
 ——— ——— = *Cristellaria*; see *Nautili*; and *Cristellaria*.
 ——— *elegans*, Ehr. *Abhandl. k. Ak. Wiss. Berlin*, 1838, 134.
 ——— ——— Ehr., *Mikrogeologie*, 1854, xxxvii, viii, 6. [A cast; = *Cristellaria*.]
 ——— *limia*, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 281, No. 4.
 ——— ——— = *Cornuspa. foliacea* (?) (Phil.); see *Hammonia circulares*, etc.; and *Fruentaria 4 speciei*.

- SOLDANIA nitida**, d'O. Ann. Sci. Nat. vii, 1826, 281, No. 3. This name was given by d'Orbigny to Soldani, Testac. i, pt. 2, 1791, 151, pl. 135*J*. [Soldani describes it as "alterum [*J*] est *Hammonia*, sive potius *Nautilus dimidiatus*;" it is a fragment of a section of a *Planorbulina*?]
- **orbicularis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 281, No. 5.
 ——— = *Cornuspira*?; see *Hammonia*.
- **spirorbis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 281, No. 2.
 ——— = *Numm. exponents* (Sow.); see *Porpите soluti*.
- ? ——— Pilla, Distinz. terr. Etrurio, 1846, 104, i, 8.
- SOLDANINA**, Costa, 1856. Atti Accad. Pontaniana, vii, fas. 2, 1856, pl. 246.
 ——— **exagona**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 248, xxi [error for xx], 6*A*, *B*
- SORITES dominicensis**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134.
 ? ——— **edentulus**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
 ——— **orbiculus**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134; and v. *trip-tera*. [= Young stage of *Orbitolites orbiculus* (Forsk.)]
- SORITINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. 1. [A family group name.]
- SOROSPHERA**, Brady, 1879. Q. Journ. Mier. Sci. xix, 1879, 28; Brady, Report Challenger, 1884, 251.
 ——— **confusa**, Brady. Q. Journ. Mier. Sci. xix, 1879, 28, iv, 18 and 19.
 ——— ——— Moseley, Nature (Apr. 15, 1880), xxi, 570, fig. 11b.
 ——— ——— Brady, Report Challenger, 1884, 251, xviii, 9 and 10.
 ——— ——— Agassiz, Three Cruises "Blake," ii, 1888, 162, fig. 490.
- Sphacroidea**, Giebel, 1852. Misprint for *Sphæroidina*?
- SPHÆROIDINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 267; Brady, Report Challenger, 1884, 619.
 ——— **austriaca**, d'Orbigny. Foram. Fossiles Vienne, 1846, 284, xx, 19–21.
 ——— ——— Reuss, Denkschr. k. Ak. Wiss. Wien, i, 1850, 387, li, 3–19.
 ——— ——— Egger, Neues Jahrbuch, 1857, 273, vi, 19 and 20.
 ——— ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 185, xii, 13.
 ——— ——— Reuss' Models, No. 37, 1865 (Catal., No. 71, 1861). [= *S. bulloides*, d'O.]
 ——— ——— Schwager, Novara-Exped., Geol. Theil ii, 1866, 250, vii, 98.
 ——— ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 53, x, 4; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 62, same pl. and fig.
 ——— ——— Zittel, Handbuch Palaeont., Abth. i, 1876, 88, fig. 251.
 ——— ——— Schwager, Boll. R. Com. geol. Ital. viii, 1877, 25, pl., 41.
 ——— ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 211, ix, 15.
 ——— ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 188, i, 20.
 ——— ——— Jones, in Microgr. Dict. ed. 4, 1883, 704, xxiv, 4.
 ——— ——— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1061, lxxxvii, 13.
 ——— **bulloides**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 267, No. 1.
 ——— ——— D'Orbigny, Modèles, No. 65, 1826.
 ——— ——— Cuvier, Règne Animal, 1836–46, ix (pls. x), 34, xv, 9.
 ——— ——— Costa, Atti Accad. Pontaniana, vii, fas. 2, 1856, 318, xxiv, *A*, *B*, *C* [error for xxv, 1]. [Quoted as *Sexloculina* of Czjzek.]
 ——— ——— P., J., & B. [d'O., Modèles, No. 65], Ann. Mag. Nat. Hist. [3], xvi, 1865, 29, ii, 58.
 ——— ——— Parker & Jones, Phil. Trans. 1865, 369, xvi, 52.
 ——— ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 38, vi, 1; (and Mém. Soc. Dunkerquoise).

- SPHÆROIDINA bulloides**, d'Orbigny. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 89, vi, 190-193.
- Brady, Report Challenger, 1884, 620, lxxxiv, 1-7.
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 226, xlv, 9, 10, 11.
- Terrigi, Mem. R. Acc. Lincei, [4], VI, 1889, 115, vi, 19.
- See *Orth. unilocularia*, etc.
- **cretacea**, Ehrenberg. Mikrogeologie, 1854, xxviii, 30. [= *Virg. hemprichii*.]
- **dehiscens**, Parker & Jones. Phil. Trans. 1865, 369, xix, 5a, b, c.
- Brady, Report Challenger, 1884, 621, lxxxiv, 8-11.
- **gemmula**, Ehrenberg. Mikrogeologie, 1854, xxx, 22a, b. [= *S. bulloides*.]
- **murrhyna**, Schwager. Novara-Exped., Geol. Theil II, 1866, 250, vii, 97.
- **ornata**, Brady. Quart. Journ. Geol. Soc. XLIV, 1888, 6, i, 4.
- **parisiensis**, Ehrenberg. Mikrogeologie, 1854, xxvii, 33 and 34. [33 = ?, and 34 = *Sph. bulloides*.]
- **variabilis**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 88, vii, 61-64.
- Pietet, Traité de Paléont. 2d ed. IV, 1857, 525, cix, 46.
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 58, vii, 86a, b.
- Parker, Trans. Micr. Soc. London, n. s. VI, 1858, 55.
- Sphæronites**. Verchere, Journ. Asiat. Soc. Bengal, xxxvi, Pt. 2, No. 3, 1867, 208, viii, 5 and 6; ix, 1. [The *Syringosphaerideæ* of P. M. Duncan, 1879, q. v. Verchere proposes *S. ryallii* for fig. 6, pl. viii; Duncan mentions this species but does not identify it or use the name.]
- Sphærulæ vitræ**. Soldani, Testac. I, pt. 2, 1791, 116, pl. 119J, K, L, M. [*Orbulina universa*, d'O. For. Foss. Vienne, 1846, 22, 1, 1.]
- Sphærulæ hispidæ**. Sold., Testac. II, 1798, 53, pl. 17X; 18a. [?? *Orbulina universa*, d'O. For. Foss. Vienne, 1846, 22, 1, 1.] [Probably *Globigerinae*.]
- SPIDESTOMELLA**, Costa, 1856. Atti Accad. Pontaniana, VII, fas. 2, 1856, not described. [= ? *Miliolina*.]
- **globulifera**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not deser., xxvii, 27.
- SPINCTERULES costatus**, Montfort. Conch. Syst. I, 1808, 223, 56th genre. [= *Crist. costata*.]
- SPIRALINA**, Gümbel, 1862. See *Spirolina*.
- Spiriline Cornuspiræ**. Chimmo, Bed of Atlantic [1870], 16, i, 4². [A gas-teropod.]
- SPIRILLINA**, Ehrenberg, 1841. Abhandl. k. Ak. Wiss. Berlin, 1841, 422; Brady, Report Challenger, 1884, 629.
- **angulata**, v. Moeller. v. *S. subangulata*.
- **arenacea**, Williamson. Recent British Foram. 1858, 93, vii, 203. [= *Trochamm. incerta*.]
- **canaliculata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 110, xiii, 3a, b; (and Mém. Soc. Dunkerquoise).
- **crassa**, Zwingli & Kübler. Jones, Quart. Journ. Geol. Soc. XL, 1884, 770, xxxiv, 13. [*Cornuspira*, 1870.]
- **decorata**, Brady. Report Challenger, 1884, 633, lxxxv, 22, 25.
- **discoidea**, v. Moeller. Mém. Ac. Imp. Sci. St. Pétersbourg, [7], xxvii, No. 5, 1879, 29 [fig. 9].
- **foliacea** (Phil.). Williamson, Recent British Foram. 1858, 91, vii, 199-201. [*Orbis*, 1844.]
- Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 68, vii, 11; (and Mém. Soc. Dunkerquoise).

- SPIRILLINA gracilis**, Terquem. *Mém. Soc. géol. France*, [3], iv, 1886, 8, i, 12a, b.
- **helvetica**, Kübler & Zwingli. *Neujahrsblatt Bürgersbibl. Winterthur*, 1866, 12, ii, 8.
- ——— Jones, *Quart. Journ. Geol. Soc.* xl, 1884, 770, xxxiv, 12.
- ——— Prestwich, *Geology*, 1888, II, 195, 96a.
- **impressa** (Egger). Schwager, *Boll. R. Com. geol. Ital.* viii, 1877, 26, pl., 53. [*? Cyclolina*, 1857.]
- ——— Gümbel, *Geol. Bayern*, Th. I, Lief. 2, 1885, fig. 266, 13.
- **inæqualis**, Brady. *Quart. Journ. Micr. Sci.* xix, 1879, 278, viii, 25a, b.
- ——— Brady, *Report Challenger*, 1884, 631, lxxxv, 8-11.
- **irregularis**, v. Moeller. *Mém. Ac. Imp. Sci. St. Pétersbourg*, [7], xxvii, No. 5, 1879, 29 [fig. 8].
- **latiseptata**, Terquem. *Ess. Anim. Plage Dunkerque*, pt. 1, 1875, 21, i, 6; (and *Mém. Soc. Dunkerquoise*).
- **limbata**, Brady. *Quart. Journ. Micr. Sci.* xix, 1879, 278, viii, 26a, b.
- ——— Brady, *Report Challenger*, 1884, 632, lxxxv, 18-21.
- ——— v. denticulata, Brady. *Report Challenger*, 1884, 632, lxxxv, 17.
- **mamillata**, Terquem. *Mém. Soc. géol. France*, [3], II, 1882, 33, i (ix), 31a, b.
- **margaritifera**, Williamson. *Recent British Foram.* 1858, 93, vii, 204.
- **margaritifera**, Terquem. *Ess. Anim. Plage Dunkerque*, pt. 3, 1881, 110, xiii, 2a, b; (and *Mém. Soc. Dunkerquoise*).
- ——— Wright, *Proc. Belfast Nat. Field Club*, 1884-85, App. ix, 1886, 321, xxvi, 12a, b.
- **nodifera**, Terquem. *Mém. Soc. géol. France*, [3], II, 1882, 34, i (ix), 32a, b.
- **nodosa**, Terquem. *Ess. Anim. Plage Dunkerque*, pt. 3, 1881, 110, xiii, 1a, b; (and *Mém. Soc. Dunkerquoise*).
- **numismalis**, Terq. et Berth. *Mém. Soc. géol. France*, [2], x, 1875, 17, i (xi), 13. [*v. Cornuspira*.]
- **obconica**, Brady. *Q. Journ. Micr. Sci.* xix, 1879, 279, viii, 27a, b.
- ——— Brady, *Report Challenger*, 1884, 630, lxxxv, 6 and 7.
- **orbicula**, Terq. et Berth. *Mém. Soc. géol. France*, [2], x, 1875, 17, i (xi), 12a-c. [*v. Cornuspira*.]
- **perforata** (Schultze). Williamson, *Recent British Foram.* 1858, 92, vii, 202. [*Cornuspira*, 1854; = *S. vivipara*, Ehr.]
- ——— Williamson, *Pop. Sci. Rev.* iv, 1865, 174, viii, 9.
- ——— Terquem, *Ess. Anim. Plage Dunkerque*, pt. 1, 1875, 21, i, 5; (and *Mém. Soc. Dunkerquoise*).
- ——— Jones, in *Microgr. Dict.*, ed. 4, 1883, 714, xxiv, 5.
- ——— Terq., *Mém. Soc. géol. France*, [3], II, 1882, 33, i (ix), 29.
- **plana**, v. Moeller. *Mém. Ac. Imp. Sci. St. Pétersbourg*, [7], xxvii, No. 5, 1879, 28 [figs. 6 and 7].
- **polygyrata**, Gümbel. *Jahresh. Ver. vat. Nat. Württ.* xviii, 1862, 214, vi [error for iv], 11a, b, c.
- **punctata**, d'Orb. Reuss' *Models*, No. 73, 1865 (Catal., No. 31, 1861).
- **pusilla** (Geinitz). King, *Journ. Geol. Soc. Dublin*, vii, pt. 2, 1856, 73, i, 12a, b. [*Serpula*, 1848; = *Trochammina*.]
- **radiata**, Terquem. *Mém. Soc. géol. France*, [3], iv, 1886, 8, i, 13 and 14.
- **regularis**, Terquem. *Bull. Soc. géol. France*, [3], iv, 1876, 481, xv, 2.
- **striato-granulosa**, Terq. *Mém. Soc. géol. France*, [3], II, 1882, 33, i (ix), 30.
- **subangulata**, v. Moeller. *Mém. Ac. Imp. Sci. St. Pétersbourg*, [7], xxvii, No. 5, 1879, 27 [fig. 5], v, 3.
- **tenuissima**, Gümbel. *Jahresh. Ver. vat. Nat. Württ.* xviii, 1862, 214, iv, 12a, b. [*v. Cornuspira*.]

- SPIRILLINA trocheata**, Terquem. Mém. Soc. géol. France, [3], iv, 1886, 8, i, 11a, b, c.
- **trochoïdes**, Berthelin. Revue et Mag. Zool. 1879, 37, i, 20-22.
- **tuberculata**, Brady. Q. Journ. Micr. Sci. xix, 1879, 279, viii, 28a, b. See also description in Siddall, "Foram. of Dee," Proc. Chester Soc. Nat. Sci. 1878, pt. ii, p. 50.
- Brady, Report Challenger, 1884, 631, lxxxv, 12-16.
- ? ——— **vivipara**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 422, iii, vii, 41. [Referred to as *Spirulina* on p. 323.]
- Williamson, Mem. Lit. Phil. Soc. Manchester, [2], viii, 1848, 45, pl., 34.
- Parker & Jones, Ann. Nat. Hist. [2], xix, 1857, 284, xi, 46.
- Parker & Jones, Phil. Trans. 1865, 397, xv, 28.
- J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., iii, 20-22.
- Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 88, viii, 1 and 2. [Structural.]
- Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 108, vii, 272.
- Brady, Report Challenger, 1884, 630, lxxxv, 1-5.
- Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 348, xii, 32.
- Bütschli, Morph. Jahrb. xi, 1886, 84, vi, 12.
- var. **carinata**, Halkyard. Trans. Manchester Micro. Soc. 1889, 71.
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1847, 446, ii, 82. [= young *Cornuspira*? or *Miliola*?]
- ? ——— or young Mollusc.? Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 169, iv, xxiv. [Young Mollusc.] [Glauc.]
- sp. Schwager, Jahresh. Ver. vat. Nat. Württ. xxi, 1865, vii, 21. [= *Trochammia*.]
- [? ———] Chimmo, Nat. Hist. Euplectella, etc. 1878, 21, vi, 19a, b, c, d. [Described as a Polycystine.]
- ? ——— see *Jesites*.
- SPIROBOTRYS**, Ehrenberg, 1844. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 247.
- **ægæa**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 248.
- v. *Planulina oligosticta*.
- SPIROCERIUM**, Ehrenberg, 1858. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 310.
- **priscum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 310; and 337, i, f. xiv. [Glaucinite.]
- SPIROCYCLINA**, Munier-Chalmas, 1887. Compte-Rendu Sommaire Soc. géol. France, No. 7, 21 Fév. 1887, p. xxxi.
- **choffati**, Mun.-Ch. Ibid., no fig. ["Couches infra-valenginienues du Portugal."] [Apparently near *Cyclolina*, d'Orb.]
- SPIROLINA**, Lamarek, 1804. Ann. Mus. Paris, v, 1804, 244.
- **æqualis**, Roem. Verst. norddeutsch. Kreide, 1840-41, 98, xv, 27. [v. *Haplophragmium*.]
- **agglutinans**, d'Orbigny. Foram. Fossiles Vienne, 1846, 137, vii, 10-12. [v. *Haplophragmium* and *Lituola*.]
- Pietet, Traite de Paléont., 2d ed., iv, 1857, 506, cix, 25.
- **astartina**, Deecke. Mém. Soc. Emul. Montbéliard, xvi, 1886, [46], ii [error for i], 17, 17a; 21-21b; 30, 30a.
- **austriaca**, d'Orbigny. Foram. Fossiles Vienne, 1846, 137, vii, 7-9.
- Reuss' Models, 1865, No. 76 (Catal., 1861, No. 25).
- Jones, in Microgr. Dict., ed. 4, 1883, 717, xxiii, 12a, b.
- Quenstedt, Handbuch Petref., ed. 3, Abth. 5 (1885), 1057, lxxxvi, 44.

- SPIROLINA bathonica**, Deeeke. Mém. Soc. Emul. Montbéliard, xvi, 1886, [46], i, 7a.
- **carinata** (W. & J.). Brown, *Illustr. Recent Conch. Gt. Brit.*, ed. 2, 1844, 1, i, 7. [*Nautilus*, 1798.]
- **clavata**, Crouch. *Introd. Lamarek*, 1827, 40, xx, 8.
Brown, *Conch. Text-book*, 1839, 63, x, 23.
- **cylindracea**, Lamarek. *Parkinson, Organ. Rem. former World*, iii, 1811, 162, xi, 9, and 10 var. ? [*Spirolinites*, 1804.]
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- **lyelli**, Mantell. Wonders Geol. 1848, 6th ed. 325, fig. 60¹. [= *Lituola nautiloidea*, q. v.]
- **murchisoni**, Mantell. Wonders Geol. 1848, 6th ed. 325, fig. 60². [= *Placops. irregularis*, q. v.]
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- **dilatata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 271, xvi, 16-18.
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- **dubiensis**, Deecke. Mém. Soc. Emul. Montbéliard, xvi, 1886, [17], i, 19, 19a, 26-26b.
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- **elongata**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 96; and Mikrogeologie, 1854, xix, 97. [= *S. planulata*, Lam.]
- **elongata**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. Jahrg. xx, 1869, 26, no fig.
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- ——— Brady, Report Challenger, 1884, 151, ix, 5 and 6.
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- **freyeri**, Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 7, i, 9.
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- **grata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 55, v (x), 14a-15b.
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- **inflata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 156, xvi (xxiv), 7 and 8.
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- **limbata**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 348, xix, 1.
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- **ornata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 167, xii, 7 and 7*A*; also in Spanish, 1840, 150, same pl. and fig. [v. *Miliolina*.]
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- **ovalis**, Roemer. Neues Jahrbuch, 1838, 392, iii, 68.
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- SPIROPLECTA**, Ehrenberg, 1844. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 75; Brady, Report Challenger, 1884, 375.
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- ——— Ehr., Mikrogeologie, 1854, xxxii, i, 13 and 14. [*Heterohelix*, 1843.] [= *Text. striata* with spiral growth.]
- ——— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 175, vii, 6.
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- ? —— Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 169, iv, xiii. [= *Spiroplecta*.] [Glauc.]
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- SPIROPLEURITES nebulosus**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 248.
- ——— Mikrogeologie, 1854, xxxv, B, iv, 7. [= *Pulvin. repanda*.]
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- ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 382, v, 1.
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- **vivipara**, Ehrenberg, 1841. See *Spirillina*.
- ? —— **tenella**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 167.
- SPORILUS**, Montfort. Conch. syst. I, 1808, 43, 11th genre. [= *Polyst. strigilata*, var.]
- SQUAMULINA**, Schultze, 1854. Organismus Polythal. 1854, 56.
- **lævis**, Schultze. Organismus Polythal. 1854, 56, vi, 16 and 17.
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- [*marginuloides*] ———— Roemer, Lethaea Geognostica, Th. I, Lief. 1, 1880, 269, fig. 43.
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- *polytrematoides*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 110, 118, ix, 10-13.
- *pupoides*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 115, viii, 17-27.
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- Schwager, Boll. R. Com. geol. Ital. viii, 1877, 26, pl., 94.
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- STEPHANOPELA**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 140, not described, 2 sp. proposed.
- Congrès Scient. Dax, 1882 (1883), 328. [Not described.]
- STOLICZKARIA**, Duncan, 1879. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 11. [Nicholson, writing on this genus (Man. Palaeont. ed. 3, 1889, i, p. 227), remarks on the probability of Reuss' genus *Heterastridium* (Sitz. k. Ak. Wiss. Wien, LI, 1865, 391, i-iv), from the Hallstätter beds, having priority.]
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- STOLICZKIELLA**, Carter, 1888. Ann. Mag. Nat. Hist. [6], i, 1888, 173. [*Allied to Loftusia*.]
- *theobaldi*, Carter. Ann. Mag. Nat. Hist. [6], i, 1888, 173, xiii, 1-4.
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- "Stormhues-Snekke," Spengler. Dansk. Skr. 1781, 379, ii, ix, litt. a, b, c. [= *Calcar. spengleri*.]
- STORTHOSPHERA**, F. E. Schulze, 1875. II. Jahresh. Comm. wiss. Untersuch. deutsch. Meer in Kiel, 1875, 113; Brady, Report Challenger, 1884, 240.
- *albida*, Schulze. II. Jahresh. Comm. wiss. Untersuch. deutsch. Meer in Kiel, 1875, 113, ii, 9a, b, c, d.
- Brady, Report Challenger, 1884, 241, xxv, 15-17.
- STREBLUS**, Fischer, 1817. Fischer, Mém. Soc. Imp. Nat. Moscou, v, 1817, 449. [= *Rotalia*.]
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- STREBLUS tortuosus**, Fischer. Mém. Soc. Imp. Nat. Moscou, v, 1817, 449, xiii, 5. [= *Rotalia beccarii*.]
- Striata**, Green, 1881. = *Lagena striata*.
- STROMATOCERIUM**, Hall, 1847. Palaeont. New York, I, 1847, 48.
- **richmondense**, S. A. Miller. Journ. Cincin. Soc. Nat. Hist. v, 1882, 41. [Nicholson, Geol. Mag. dec. 3, vol. v, 1888, 24, states that this fossil is a species of *Girvanella*.]
- Strombus lapideus**. Gesner, De omni rerum, etc. 1565, 170, f. 1. [? a *Vaginulina*.]
- STROPHOCHETUS**, H. M. Seely, 1885. Amer. Journ. Sci. xxx, 1885, 355. [Referred by G. J. Hinde to *Girvanella*, Geol. Mag. dec. 3, vol. iv, 1887, 227; described by Seely as a free calcareous sponge]: see also Nicholson, Geol. Mag. dec. 3, vol. v, 1888, 24.
- **ocellatus**, H. M. Seely. Amer. Journ. Sci. xxx, 1885, 357, figs. 1, 2, and 3.
- STROPHOCONUS**, Ehrenberg, 1843. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 166.
- ? ——— (Grammost. P) **acanthopus**, Ehr. Mikrogeologie, 1854, xxvi, 23. [= *Virg. hemprichii*.]
- ? ——— **africanus**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 68 and 96; and Mikrogeologie, 1854, xxi, 88. [= *Virg. hemprichii*.]
- **arcticus**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 294. Ehrenberg, in Koldewey, Zweite deutsche Nordpolarfahrt, 1874, II, n. d., i, 13.
- **auricula**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272.
- Ehr., Mikrogeologie, 1854, xx, ii, 2. [= *Virg. schreibersii*.]
- **cepa**, Ehr. Mikrogeologie, 1854, xxix, 33; and xxx, 21. [= *Virg. hemprichii*.]
- **cribrosus**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 167, 272.
- **efflorescens**, Ehr. Mikrogeologie, 1854, xxvi, 24. [= *Virg. hemprichii*.]
- Ehr., Mikrogeologie, 1854, xxvii, 17. [= *Virg. squamosa*.]
- **falcatus**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 294. Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 15.
- **flosculus**, Ehr. Mikrogeologie, 1854, xxix, 34. [= *Virg. hemprichii*, var.]
- **fundicola**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 309. Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 16.
- **gemma**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 376. Ehr., Mikrogeologie, 1854, xxix, 35. [= *Virg. hemprichii*, var.]
- Ehr., Mikrogeologie, 1854, xx, ii, 5. [= *Virg. schreibersii*, approaching *Bulim. elegantissima*.]
- **gibbus**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 272. Ehr., Mikrogeologie, 1854, xx, ii, 4. [= *Virg. schreibersii*.]
- **gracilis**, Ehr. Mikrogeologie, 1854, xxix, 36. [= *Virg. hemprichii*, var.]
- **græcus**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 96; and Mikrogeologie, 1854, xix, 86. ["*Textil. aciculata?* of 1838;" = *Virgulinina schreibersii* vel *hemprichii*.]
- ? ——— **hemprichii**, Ehr. Mikrogeologie, 1854, xxiv, 32. [= *Virgulina*.]
- **hyperboreus**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 295. Ehrenberg, in Koldewey, Zweite deutsche Nordpolarfahrt, 1874, II, n. d., i, 12.
- ? ——— (Grammost. P) **leptoderma**, Ehr. Mikrogeologie, 1854, xxiv, 28 and 30. [= *Virg. hemprichii*.]

- STROPHOCONUS** ovum, Ehr. Mikrogeologie, 1854, xxiv, 29; xxvi, 21; and xxix, 32. [= *Virg. hemprichii*.]
 ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844, 96; and Mikrogeologie, 1854, xxii, 81. [= *Virg. schreibersii*.]
 ——— (Grammost. ?) ——— Ehr., Mikrogeologie, 1854, xxvii, 27. [= *Virg. schreibersii*.]
 ——— Ehr., Mikrogeologie, 1854, xx, ii, 3; xxx, 20a, b; and xxxi, 32. [= *Virg. schreibersii*.]
 ——— polymorphus, Ehr. Mikrogeologie, 1854, xxvii, 23, 26, and 28. [= *Virg. schreibersii*.]
 ? ——— (Grammost. ?) polytrema, Ehr. Mikrogeologie, 1854, xxiv, 27. [= *Virg. schreibersii*.]
 ——— spicula, Ehr. Mikrogeologie, 1854, xxiv, 31; and xxvi, 20. [= *Virg. hemprichii*.]
 ——— Ehr., Mikrogeologie, 1854, xxxi, 33 and 34. [= *Virg. schreibersii*.]
 ——— Ehr., Mikrogeologie, 1854, xxxii, ii, 21. [= *Virg. schreibersii*, approaching *Bulim. elegantissima*.]
 ——— Ehr., Mikrogeologie, 1854, xxvii, 24. [= *Virg. squamosa*.]
 ——— spiroloculina, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 96.
 ——— (Grammost. ?) stiliger, Ehr. Mikrogeologie, 1854, xxvi, 22. [= *Virg. hemprichii*.]
 ? ——— (Grammost. ?) teretiusculus, Ehr. Mikrogeologie, 1854, xxiv, 26. [= *Virg. schreibersii*.]
 ——— Ehr., Mikrogeologie, 1854, xxvi, 25. [= *Virg. schreibersii*.]
 ? ——— (Grammost. ?) ——— Ehr., Mikrogeologie, 1854, xxiii, 24. [= probably *Boliv. dilatata*.]
 ———? Egger, Neues Jahrbuch, 1857, 292, viii, 30–32.
- STYLOLINA**, Karrer, 1877. Abh. k. k. geol. Reichs. ix, 1877, 371. [Near *Haplophragmium*.]
 ——— lapugyensis, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 371, xvi, a, 1.
- SYNSPIRA** triquetra, Ehr. Mikrogeologie, 1854, xxix, 47. [= ? commencement of a Spirilline form.]
- SYRINGAMMINA**, Brady, 1883. Proc. Roy. Soc. xxxv, 1883, 155; Brady, Report Challenger, 1884, 242.
 ——— fragilissima, Brady. Proc. Roy. Soc. xxxv, 1883, 155, ii, iii.
 ——— Brady, Report Challenger, 1884, 242, fig. 9.
- SYRINGOSPHERIA**, Duncan, 1879. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 10; Nicholson, Man. Palaeont. ed. 3, 1889, i, 227. [*Sphaeromites* of Verchere.]
 ——— monticularia, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 12, i, 4–12; iii, 1–4, 8, and 9.
 ——— v. aspera, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 13, ii, 6 and 7.
 ——— plana, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 14, not figured.
 ——— porosa, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 15, ii, 3 and 4.
 ——— tuberculata, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 13, ii, 1 and 2.
 ——— verrucosa, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 12, i, 1–3.
- TECHNITELLA**, Norman, 1878. Ann. Mag. Nat. Hist. [5], i, 1878, 279; Brady, Report Challenger, 1884, 245.
 ——— legumen, Norman. Ann. Mag. Nat. Hist. [5], i, 1878, 279, xvi, 3 and 4.
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- TECHNITELLA melo**, Norman. *Ann. Mag. Nat. Hist.* [5], I, 1878, 280, xvi, 5 and 6.
- Brady, *Report Challenger*, 1884, 246, xxv, 7a, b.
- De Folin, *Le Naturaliste*, Ann. 10, 1888, 109, fig. 3.
- **raphanus**, Brady. *Report Challenger*, 1884, 247, xxv, 13 and 14.
- de Folin, *Bull. Soc. N. H. Toulouse*, xv, 1881, 141, 1 n. sp. proposed but not described. [*T. cristata*.]
- TEREBRALINA**, Terquem, 1866. *Sixième Mém. Foram. Lias*, 1866, 473.
- **regularis**, Terquem. *Sixième Mém. Foram. Lias*, 1866, 473, xix, 3. [*Cfr. Anmodiscus [Trochamm.] shoneana*, Siddall.]
- TETRAGONULINA**, Seguenza, 1862. *Foram. monotal. miocen. Messina*, 1862, 53.
- **prima**, Seguenza. *Foram. monotal. miocen. Messina*, 1862, 53, ii, 54 and 55.
- TETRATAXIS**, Ehrenberg, 1843. *Ber. k. preuss. Ak. Wiss. Berlin*, 1843, 106.
- **conica**, Ehr. *Ber. k. preuss. Ak. Wiss. Berlin*, 1843, 106; and *Mikrogeologie*, 1854, xxxvii, xi, A-D, 12. [("Compare *Textil. paleotrochus*") = *Valulina*, q. v.]
- Moeller, *Mém. Ac. Imp. Sci. St. Pétersbourg*, [7], xxvii, No. 5, 1879, 71, ii, 3a-g; vii, 1 and 2; 72, fig. 30.
- v. **gibba**, v. Moeller. *Mém. Ac. Imp. Sci. St. Pétersbourg*, [7], xxvii, No. 5, 1879, 73, ii, 4a-c; vii, 3.
- Moeller, *Jahrb. k. k. geol. Reichsanstalt*, xxx, 1880, 577, ix, 7a.
- Moeller, *Verh. russ. k. min. Ges.* [2], xvi, 1881, 183, ix, 6a [error for 7a]. [In rock section.]
- Testa fossilia kahirensia**. Forskal, *Descr. Anim.* 1775. [= *Nummulites*.]
- Testæ hammoniformes, plano-cochleatæ, tuberosæ, articulatae, etc.** Soldani, *Testac.* I, pt. 1, 1789, 77-80, pls. 70-92. [*Truncatulina variabilis*, d'O. *Ann. Sci. Nat.* vii, 1826, 279, 8.]
- Testæ hammoniformes seu lituitatæ semilunares.** Sold., *Testac.* I, pt. 1, 1789, p. 73, pl. 64M, Q. [*Peneroplis planatus* (F. & M.), d'Orb. *Ann. Sci. Nat.* vii, 1826, 285, 1.]
- Testæ incertæ sedis.** Terq., *Mém. Soc. géol. France*, [3], I, 1878, 48, iv (ix), 40 and 41. [See *Polymorphinæ*.]
- Testæ ovales, oliviformes, pyriformes, fusiformes, etc.** Sold., *Testac.* II, 1798, 37, pl. 12P. [*Lingul. carinata*, d'O. *Ann. Sci. Nat.* vii, 1826, 257, 1.]
- Testæ pineiformes minuscule.** Sold., *Testac.* II, 1798, 18, pl. 4E, F, G, H. [*Uvigerina nodosa*, v. β, d'O. *Ann. Sci. Nat.* vii, 1826, 269, 3.]
- Textiraria.** Amer. *Cyclopaedia*, 1883; see *Textularia*.
- TEXTULARIA**, DeFrance, 1824. *Dict. Sci. Nat.* xxxii, 1824, 177; Brady, *Report Challenger*, 1884, 356. [*Textilaria*,* Ehrenberg, 1839. *Abhandl. k. Ak. Wiss. Berlin*, 1839, 135.]
- **abbreviata**, d'Orbigny. *Foram. Fossiles Vienne*, 1846, 249, xv, 9-12 [error for 7-12].
- Egger, *Neues Jahrbuch*, 1857, 293, xii, 17 and 18.
- Terrigi, *Atti Acc. Pont. Nuovi Lincei*, xxxiii, 1880, 190, i, 23.
- Malagoli, *Atti Soc. Nat. Modena, Rendiconti*, [3], III, 1887, 108, i, 1.
- Fornasini, *Boll. Soc. geol. Ital.* vi, 1887, 399, xi, 1a, b, 3a, b.
- Brady, Parker, & Jones, *Trans. Zool. Soc.* XII, pt. 7, 1888, 219, xlii, 4 and 5.
- Terrigi, *Mem. R. Acc. Lincei*, [4], vi, 1889, 109, v, 3.

[* Many Continental authors prefer to use *Textilaria* instead of *Textularia*. In all cases where this spelling is adopted an asterisk has been placed at the end of the generic reference, the compiler having considered it advisable not to separate the references into the two arrangements of *Textilaria* and *Textularia*.]

- TEXTULARIA abbreviata**, d'Orbigny. See *Nautili amphorarii*, and *Nautilus amphorarius*.
- _____ See *T. agglutinans*, d'O.
- _____ **aciculata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 15, xi, 1-4.
- _____ Smedley, Ency. Metrop. 1845, undeser., pl. "Mollusca ?," 16-19.
- _____ Eley, Geol. in the Garden, 1859, 195, iii, 13 and 14.
- _____ [Flint cast.]
- _____ Cooke, Thousand Objects Microsc. 1869, 90, ix, 13.
- _____ Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 191, ii, 24-27.
- _____ **aciculata** ?, Ehr. Abhandl. k. preuss. Ak. Wiss. Berlin, 1838, 134, iv, ii, vii, xii, 8.
- _____ * Ehr., Abhandl. k. Ak. Wiss. Berlin, 1839, 135, ii, v ; Taylor's Scientific Memoirs, III, 1843, 358, vi, 5. [= *Bolivina dilatata* (?), Rss.]
- _____ Harting, Magt van het Kleine, 1849, 119, figs. 2 and 3 ; and 1866, 113, fig. 48, 2 [*Textularia*] ; German by Dr. A. Schwartzkopf, 1851, 87, fig. 39, 2 and 3.
- _____ Mantell, Quart. Journ. Geol. Soc. VI, 1850, 330, xxix, 3.
- _____ * **aculeata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 429.
- _____ * Ehr., Mikrogeologie, 1854, xxviii, 18 ; xxxi, 17 ; and xxxviii, xxiii, 5. [= *T. subangulata*, d'O.]
- _____ * Ehr., Mikrogeologie, 1854, xxvii, 8. (" *T. aspera*, 1838, in part.") [= *T. subangulata*, d'O.]
- _____ * Ehr., Mikrogeologie, 1854, xxix, 20a, b. [20a = *T. gibbosa* ; 20b = *Boliv. punctata*, v. *aculeata*, Ehr.]
- _____ **acuta**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 294, xxiii, 13 and 14.
- _____ **acuta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 262, No. 9.
- _____ * Ehr., Mikrogeologie, 1854, xxx, 7. [= *Virg. reussii*, Gein. = *Boliv. punctata*.]
- _____ **acuta**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 381, xlix, 1.
- _____ * Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1059, lxxxvi, 60.
- _____ * **æquilateralis**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 19, iii, 12.
- _____ **agglutinans**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 144, i, 17, 18 ; 32-34 ; also in Spanish, 1840, 136, same pl. and fig.
- _____ var. Jones, Geologist, VI, 1863, 294, xv, 4 and 5.
- _____ Parker & Jones, Phil. Trans. 1865, 369, xv, 21.
- _____ v. **abbreviata**, d'O. Parker & Jones, Phil. Trans. 1865, 369, xvii, 76a, b. [v. *T. abbreviata*.]
- _____ v. **biformis**. Parker & Jones, Phil. Trans. 1865, 370, xv, 23 and 24. [v. *Spiroplecta* and *T. biformis*.]
- _____ v. (**Bigenerina**) **digitata**, d'O. Parker & Jones, Phil. Trans. 1865, 371, xvii, 81. [v. *B. digitata*.]
- _____ v. (**Bigenerina**) **nodosaria**, d'O. Parker & Jones, Phil. Trans. 1865, 371, xv, 25 ; xvii, 80a, 80b. [v. *B. nodosaria*.]
- _____ v. **carinata**, d'O. Parker & Jones, Phil. Trans. 1865, 370, xvii, 79a, b. [v. *T. carinata*.]
- _____ v. **pygmæa**, d'O. Parker & Jones, Phil. Trans. 1865, 370, xv, 22 ; xvii, 78a, b. [v. *T. pygmæa*.]
- _____ v. **sagittula**, Defr. Parker & Jones, Phil. Trans. 1865, 369, xvii, 77a, b. [v. *T. sagittula*.]
- _____ v. (**Verneuil**) **polystropha** (Rss.). Parker & Jones, Phil. Trans. 1865, 371, xv, 26. [v. *V. polystropha*.]
- _____ J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., iii, 14-16.

- TEXTULARIA agglutinans**, d'O. Tate & Blake, Yorkshire Lias, 1876, 472, xvii, 37.
- _____* _____ Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 93, ix, 1-8. [Structural.]
- _____* _____ Hamilton, Trans. N. Zealand Inst. XIII, 1881, 395, xvi, 10.
- _____* _____ v. (*Bigenerina*) *nodosaria*, d'Orb. Hamilton, Trans. N. Zealand Inst. XIII, 1881, 395, xvi, 11. [v. *B. nodosaria*.]
- _____* _____ Brady, Report Challenger, 1884, 363, xliii, 1-3, vars. figs. 4 and 12.
- _____* _____ Woodward & Thomas, 13 Ann. Rep. Geol. N. H. Survey Minnesota, for 1884 (1885), 167, iii, 6 and 7.
- _____* _____ Vine, Proc. Yorkshire Geol. Polytech. Soc., n. s. IX, pt. 1, 1885 (1886), 28, ii, 17.
- _____* _____ Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 742, xiv, 6a, b.
- _____* _____ Malagoli, Boll. Soc. geol. Ital. vi, 1887, 520, xiii, 2.
- _____* _____ Anon., Sci. News, 4 May, 1888, 413, fig. 10.
- _____* _____ Toutkowsky, Zap. Kievsk. Obsch. Est. IX, 1888, 9, ix, 3a-c.
- _____* _____ Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 219, xli, 17, 23; xlii, 2 and 3.
- _____* _____ Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 485, xi, 10.
- _____* **agglutinans**, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], XVIII, 1862, 114, ii, 4, 4a.
- _____* **alpina**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 19, iii, 11 and 19.
- _____* **alsatica**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 306, vi, 5.
- _____* **americana**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 429.
- _____* _____ Ehr., Mikrogeologie, 1854, xxxii, i, 4a, and 7. [= *T. striata*.]
- _____* _____ Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 175, vii, 1 and 7 ?
- _____* **ampliata**, Ehr. Mikrogeologie, 1854, xxviii, 8. [= *T. gibbosa*, d'O.]
- _____* **amplior**, Ehr. Mikrogeologie, 1854, xxxi, 11. [= *T. globulosa*, Ehr.]
- _____* **anceps**, Reuss. Verstein. böhm. Kreide, 1845-46, i, 39, viii, 79; xiii, 78.
- _____* _____ Reuss, Sitz. k. Ak. Wiss. Wien, XL, 1860, 234, xiii, 2a, b.
- _____* _____ Eley, Geol. in the Garden, 1859, 202, ix, 15C.
- _____* _____ Eley, Geol. in the Garden, 1859, 196, iii, 15. [Flint cast.]
- _____* **angularis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 16.
- _____* **annectens**, Parker & Jones. Ann. Mag. Nat. Hist. [3], XI, 1863, 92, fig. 1. [v. *Spiroplecta*.]
- _____* _____ Jones, in Microgr. Dict. ed. 4, 1883, 763, xxiii, 52.
- _____* **angusta**, Terquem. Six. Mém. Foram. Lias, 1866, 527, xxii, 24a, b.
- _____* **argus**, Harting. Verh. Kl. Koninkl.-Nederland. Inst. [3], IV, 1852, 115, ii, 6.
- _____* **areolata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 429.
- _____* **articulata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 250, xv, 16-18.
- _____* **articulata**, Reuss. Haidinger's Naturw. Abh. IV, Abth. 1, 1851, 45, iv, 14.
- _____* **aspera**, Brady. Proc. Roy. Soc. Edinburgh, XI, 1882, 715, not figured.
- _____* _____ Brady, Report Challenger, 1884, 367, xlv, 9-13.
- _____* **aspera**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 134, iv, iv, v, γ.
- _____* **aspera**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 147, xv, (xxiii), 14.
- _____* **atlantica**, Bailey. Smithsonian Contrib. II, 1851, 12, pl., 38-43.

- TEXTULARIA attenuata**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 84, vi, 54.
- * ——— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 59, vii, 87.
- ? ———* **bachiana**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 309.
- **barrettii**, Jones & Parker. Rept. Brit. Assoc. 1863, 80 and 105.
- Jones & Parker, Mém. Soc. Malac. Belgique, XI année, 1876, 99, figure.
- Brady, Report Challenger, 1884, 367, xlv, 6–8.
- **baudouiniana**, d'Orbigny. Mém. Soc. géol. France, [1], iv, 1840, 46, iv, 29 and 30; facsimile in Science Gossip, 1870, 157, fig. 155.
- [**baudouineana**] ——— Jones, Geologist, vi, 1863, 294, xv, 6.
- **biformis**, Parker & Jones. See *Text. agglutinans*, d'O. Phil. Trans. 1865, 370, xv, 23 and 24.
- Brady, Ann. Mag. Nat. Hist. [5], I, 1878, 436, xx, 8.
- * **bolivinoides**, Reuss. Sitz. k. Ak. Wiss. Wien, xl, 1860, 235, xii, 6a, b, c.
- * **breoni**, Terquem. Cinq. Mém. Foram. Lias, 1866, 450, xviii, 10a, b.
- * **brevis**, Ehr. Mikrogeologie, 1854, xxv, iii, c, 1. [= *T. gibbosa*.]
- **bronniana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 244, xiv, 20–22.
- * **budensis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 57, xv, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 67, same pl. and fig.
- * ——— Hantken, Értek. Termesz. köreből, XIII, No. 1, 1883, 29, i, 8a, b; and Math. Nat. Ber. Ungarn, II, 1884, 149. [Fig. 6 by error in explan. to plate.]
- **bulloides**, Reeve. Conch. system. II, 1842, 292, cxcvii, 11. [*Sphaeroidina*, d'Orb. = *Sphaeroidina*.]
- * **canaliculata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 147, xv (xxii), 17a, b.
- **candeiana**, d'Orbigny. De la Sagra, Hist. Phisq. etc. Cuba, 1839, "Foraminifères," 143, i, 25–27; also in Spanish, 1840, 135, same pl. and fig. [*T. candeana* in Spanish ed.]
- * **capitata**, Stache. Novara-Exped., Geol. Theil I, 1864, 270, xxiv, 19a, b, c.
- **capreolus**, Reeve. Conch. system. II, 1842, 292, cxcvii, 12. [*Vulvulina*, d'Orb. = *Vulvulina*.]
- **caribæa**, d'Orbigny. De la Sagra, Hist. Phisq. etc. Cuba, 1839, "Foraminifères," 145, i, 28 and 29; also in Spanish, 1840, 137, same pl. and fig.
- **carinata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 13. [v. *Plectanium*.]
- D'Orbigny, Foram. Fossiles Vienne, 1846, 247, xiv, 32–34.
- * ——— v. **inflata**, Stache. Novara-Exped., Geol. Theil I, 1864, 271, xxiv, 22a, b, c.
- * ——— v. **maorica**, Stache. Novara-Exped., Geol. Theil I, 1864, 271, xxiv, 21a, b, c.
- * ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 56, vii, 8; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 66, same pl. and fig.
- * ——— Hantken, Kohlenflötze, etc. ungar. Krone, 1878 (transl. from Magyar), 232, fig. 52.
- Brady, Report Challenger, 1884, 360, xlii, 15 and 16.
- Steinmann, Elém. Paléont. I, 1888, 26, fig. 7E.
- See *T. agglutinans*, d'O.
- * **caspia**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xii, 10.
- * **caspia**, Grimm. Kaspiiskai mare e ega fauna, pt. 1, 1876, 70, i, 5.
- **caudata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 25.
- = *T.* ? sp.; see *Polymorphum triangulare*.
- **chilostoma**, Reuss. Zeitschr. deutsch. geol. Ges. iv, 1852, 18, figs. a, b.

- TEXTULARIA clypeata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 295, xxiii, 4A, B, C.
- * **cognata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 68, viii, 96a, b.
- **communis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 27.
- **complexa**, Brady. Nat. Hist. Trans. Northumb. I, 1865-67 (1867), 101, xii, 6a, b.
- **compressa**, Roemer. Neues Jahrbuch, 1838, 384, iii, 13.
- Michelotti, Mem. Soc. Ital. Sci. XXII, 1841, 281, i, 12.
- **concava** (Karr.). Brady, Report Challenger, 1884, 360, xlii, 13, 14; and xliii, 11. [*Plecanium*, 1868.]
- * **concava**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 62, v (xv), 8a-c.
- **concinna**, Reuss. Verstein. böhm. Kreide, 1845-46, II, 109, xxiv, 54.
- Reuss, Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 71, xxvi, 6.
- * ——— Reuss, Sitz. k. Ak. Wiss. Wien, XL, 1860, 233, xiii, 1a, b.
- **conica**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 143, i, 19 and 20; also in Spanish, 1840, 135, same pl. and fig.
- Williamson, Mem. Lit. Phil. Soc. Manchester, [2], VIII, 1848, 76, pl., 64 and 65.
- Brady, Report Challenger, 1884, 365, xliii, 13, 14; exiii, 1a, b.
- **conica**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 135.
- **consecta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 262, No. 7.
- **conuloidea**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, xxiii, 12.
- **conulus**, Reuss. Geogn. Skizze Böhmen, II, 1844, pt. 1, 215.
- Reuss, Verstein. böhm. Kreide, 1845-46, i, 38; viii, 59; xiii, 75.
- Reuss, in Geinitz, Grundr. Verstein. 1845-46, 680, xxiv, 73.
- Reuss, Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 72, xxvi, 7.
- * ——— Reuss, Sitz. k. Ak. Wiss. Wien, XL, 1860, 231, xiii, 3a, b.
- * ——— Reuss' Models, No. 40, 1865 (Catal., No. 75, 1861).
- * ——— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1059, lxxxvi, 61.
- Mariani, Boll. Soc. geol. Ital. VII (1889), 285, x, 2.
- * **convexa**, Karrer. Novara-Exped., Geol. Theil I, 1864, 78, xvi, 8.
- **cordata**, Meneghini (in litt. 1856). Fornasini, Boll. Soc. geol. Ital. VII, 1888, 318, xi, 2-5.
- * **cordiformis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 139, vii, 15.
- * ——— Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [36], i, 31, 31a.
- * **cordiformis**, Terquem. Cinq. Mém. Foram. Oolithique, 1883, 384, xlv, 5a, b.
- **corrugata**, Costa. Mem. Acc. Sci. Napoli, II, 1855 (1857), 125, i, 15.
- **crassa**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 293, xxiii, A, B, [fig. 6].
- **crispata**, Brady. Report Challenger, 1884, 359, exiii, 2a, b.
- **cuneiformis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 18.
- De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 147, i, 37-39; also in Spanish, 1840, 138, same pl. and fig.
- Williamson, Recent British Foram. 1858, 74, vi, 158-161, "158 and 159 typical."
- v. **conica**, d'Orb. Williamson, Recent British Foram. 1858, 75, vi, 160 and 161. [v. *T. conica*.]

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- Terquem, Ess. Anim. Plage Dunkerque, pt. 3, 1881, 129, xvii, 2a, b; (and Mém. Soc. Dunkerquoise).
- **cuneiformis**, Jones, MS. Mantell, Quart. Journ. Geol. Soc. vi, 1850, 330, xxix, 1.
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- Geinitz, Dyas, Heft 1, 1861, 122, xx, 34 and 35.
- Jones, in Microgr. Diet. ed. 4, 1883, 763, xxiii, 47a, b.
- **deltioidea**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 381, xlix, 4.
- **dentata**, Alth. Haidinger's Naturw. Abh. III, Abth. 2, 1850, 262, xiii, 13.
- **deperdita**, d'Orbigny. Foram. Fossiles Vienne, 1846, 244, xiv, 23-25.
- Harting, Magt van het Kleine, 1849, 111, fig. 5; and 1866, 103, fig. 43; German by Dr. A. Schwartzkopf, 1851, 81.
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- * ————— Schlumberger, Feuille Journ. Nat., Feb. 1882, ii, 1.
- * **depressa**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 16, iii, 7.
- **digitata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 262, No. 5.
- **dilatata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 135, iv, ix, 8.
- * ————— Ehr., Mikrogeologie, 1854, xxix, 19. [= *T. gibbosa*.]
- * ————— Ehr., Mikrogeologie, 1854, xxvii, 5. [“*T. brevis* ? 1838.”]
- [= *T. striata*, Ehr.]
- * ————— Harting, Magt van het Kleine, 1849, 119, fig. 4; and 1866, 113, fig. 48⁸; German by Dr. A. Schwartzkopf, 1851, 87, fig. 39, 4. [*Textularia*.]
- * **dumortieri**, Schwager. Benecke's Geogn. Pal. Beiträge, I, 1866, 309, fig. 14.
- **echinata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 263, No. ?
- = *Eulim. aculeata*, d'O. ; see *Polymorpha pineiformia*.
- **ehrenbergii**, Roemer. Verst. norddeutsch. Kreide, 1840-41, 97, xv, 16.
- **elata**, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 290, xxiii, 9.
- **elliptica**, Roemer. Neues Jahrbuch, 1838, 384, iii, 18.
- **elongata**, Cornél. Mém. Soc. géol. France, [2], III, 1848, 258, ii, 25.
- **elongata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 263, No. 11.
- * **elongata**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xii, 9.
- * **elongata**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 57, xv, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 67, same pl. and fig.
- **elongata**, v. Hagenow. Neues Jahrb. 1842, 570.
- **elongata**, Jones, MS. Mantell, Quart. Journ. Geol. Soc. vi, 1850, 330, xxix, 2.
- Mantell, Medals Creation, ed. 2, 1854, 361, fig. 119⁸. [*Sarcode*.]
- * **euryconus**, Ehr. Mikrogeologie, 1854, xxxii, i, 9. [= *T. gibbosa*.]
- * ————— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 161, ii, iv, 175, vii, 8. [= *T. agglutinans*.]
- [**TEXTILLARIA**] * **exigua**, Schwager. Dittmar, Die Contorta-Zone, 1864, 200, iii, 12.
- See *T. pusilla*.
- * **eximia**, Eichwald. Lethaea Rossica, I, 1860, 355, xxii, 19a-d.
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- * **falcata**, Ehr. Mikrogeologie, 1854, xxxvii, xi, A-D, 14. [Edge view of *T. recurvata*, xxxvii, xi, A-D, 17.]

- [**TEXTULARIA**]* *faujasi*, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 320, iii, 9a, b.
- * *flabelliformis*, Gümbel. Abh. m-ph. Cl. k-bayer. Ak. Wiss. x, 1868 (1870), 647, ii, 83a, b.
- * *flesus*, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 376.
- * *flexa*, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 35, iv, Impressathon, 17, 17a.
- *fœda*, Reuss. Verstein. böhm. Kreide, 1845-46, ii, 109, xliii, 12 and 13.
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- ——— Idem, 167, xi, 116. [See *T. lævigata*, d'O.]
- ——— Idem, 167, xi, 117. [See *T. punctulata*, d'O.]
- ——— Idem, 168, xi, 118.
- ——— Idem, 169, xi, 119. [See *T. tuberosa*, d'O.]
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- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
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- * *gigas*, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 18, iii, 9.
- * *globifera*, Reuss. Sitz. k. Ak. Wiss. Wien, xl, 1860, 232, xiii, 7a, 6, 8.
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- * *globigera*, Schwager. Novara-Exped., Geol. Theil ii, 1866, 252, vii, 100.
- * *globigera*, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 64, v (xv), 13.
- * *globigerina*, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 19, iii, 13.
- * *globosa*, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 58, xv, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 67, same pl. and fig. [*T. globulosa* in descr. of plate.]
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- * ——— Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844; and Mikrogeologie, 1854, xxi, 87. [= *T. gibbosa*.]
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- * ——— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1847, 446, ii, 78, 79 ; iii, i, 76 ; v, ii, 111 ; vi, iii, 59 ? , 80. [79, *T. carinata*, d'O. ; 59, *T. gibbosa*, d'O.]
- * ——— Ehr., Mikrogeologie, 1854, xxxvii, vi, 6 ; and xxxviii, xxiii, 3.
- * ——— Ehr., Mikrogeologie, 1854, xxv, i, A, 8 ; v. *amplior*, 9 and 11. [= *T. globulosa*, Ehr.]
- * ——— Ehr., Mikrogeologie, 1854, xxxix, 140. [= *T. globulosa*, or *T. gibbosa* ?]
- * ——— and vars. **obtusa** (4), **amplior** (5), **dilatata** (6), Ehr. Mikrogeologie, 1854, xxiii, 3-6. [= *T. globulosa*, Ehr.]
- * (**globulosa-ampliata**), Ehr. Mikrogeologie, 1854, xxxi, 12 and 13 ; and xxxvii, vi, 7. [= *T. globulosa*, Ehr.]
- * ——— Ehr., Mikrogeologie, 1854, xxv, i, A, 13. [Near *T. agglutinans*.]
- * ——— Ehr., Mikrogeologie, 1854, xxxvii, vii, 12. [A cast ; ind.]
- * ——— Ehr., Mikrogeologie, 1854, xxiv, 13 and 14 ; xxvii, 6 ; xxix, 17a, b ; xxx, 3a, b ; xxxii, i, 8 ; xxxii, ii, 12 and 13. [= *T. gibbosa*, d'O.]
- * (**globulosa-ampliata**), Ehr. Mikrogeologie, 1854, xxviii, 12. [= *T. gibbosa*.]
- * ——— γ **amplior**, Ehr. Mikrogeologie, 1854, xxiv, 12. [= *T. gibbosa*, d'O.]
- * ——— β **obtusa**, Ehr. Mikrogeologie, 1854, xxvi, 9 and 10. [= *T. gibbosa*.]
- * ——— Ehr., Mikrogeologie, 1854, xxviii, 9 and 10. [= *T. gibbosa*, arrested.]
- * ——— Ehr., Mikrogeologie, 1854, xxxix, xiv, g. [= *T. gibbosa*, vel *Globigerina*.]
- * ——— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 161, ii, i. [Glauc.]
- * ——— Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 175, vii, 9.
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 ——— American Cyclopaedia, VII (1883), 311, fig. 1.
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bosa.]
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 ———* *gracillima*, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft
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 ——— *gramen*, d'Orbigny. Foram. Fossiles Vienne, 1846, 248, xv, 4-6.
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 ———* *incrassata*, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 429.
 ———* *inflata*, Ehr. Mikrogeologie, 1854, xxx, 12. [“*T. aspera*, 1838, partly.”]
 [= *T. subangulata*, d'O.]
 ———* ——— Ehr., Mikrogeologie, 1854, xxiv, 15. [= *T. gibbosa*,
 d'O.]
 ———* ——— Ehr., Mikrogeologie, 1854, xxv, i, A, 10. [= *T. globu-*
losa, Ehr.]
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 ———* *inversa*, Terquem. Mém. Soc. géol. France, [3], IV, 1886, 60, vii, 6a, b.
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 ——— ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 243, xvi, 14-

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- *laevis*, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 135, iv, ix, ζ.
- *laevis*, Roemer. Verst. norddeutsche Kreide, 1840-41, 97, xv, 17.
- * *lagenosa*, Ehr. Mikrogeologie, 1854, xxxvii, xi, A-D, 15. [Same as *Grammost. bursigerum*.]
- *laminaris*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 290, xxiii, 15A, B, C, and 16.
- *lanceolata*, v. M. Roemer, Neues Jahrbuch, 1838, 384, iii, 15.
- * *leptotheca*, Ehr. Mikrogeologie, 1854, xxviii, 11. [= *T. gibbosa*.]
- * ——— Ehr., Mikrogeologie, 1854, xxxviii, xxiii, 2. [= *Virg. schreibersii*.]
- *liasica*, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 634, iv, 12a, b.
- * *limbata*, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 63, v (xv), 9.
- * *linearis*, Ehr. Mikrogeologie, 1854, xxix, 18a, b. [“*T. aciculata*, 1838; see *Strophoconus*.”] [= *Boliv. punctata*.] [= *v. Bolivina*.]
- * ——— Ehr., Mikrogeologie, 1854, xxiv, 16 and 17; xxvii, 7a-d; and xxx, 6a, b, c, d. [= *Boliv. punctata*.]
- * ——— Ehr., Mikrogeologie, 1854, xxiii, 7.
- * ——— Ehr., Mikrogeologie, 1854, xxxi, 14 and 15. [= *T. agglutinans*.]
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- * *mamillata*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 146, xv (xxiii), 12.
- *marginata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 17.
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- * *missouriensis*, Ehr. Mikrogeologie, 1854, xxxii, i, 5. [= *T. gibbosa*.]
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- _____ **obtusangula**, Roemer. Verst. norddeusch. Kreide, 1840-41, 97, xv, 18.
- _____ Reuss, Verstein. böhm. Kreide, 1845-46, I, 38 ; viii, 58.
- _____ * **ocellata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 443, iii, vii, 44. [= *Boliv. dilatata*, Rss.]
- _____ * **oolithica**, Terquem. Cinq. Mém. Foram. Oolithique, 1883, 384, xlv, 6.
- _____ * **ovalis**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 16, iii, 6.
- _____ **ovata**, Roemer. Neues Jahrbuch, 1838, 384, iii, 17.
- _____ **oviformis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 262, No. 8.
- _____ * **oxfordiana**, Deecke. Mém. Soc. Emul. Montbéliard, XVI, 1886, [36] i, 24, 24a.
- _____ * **pachyaulax**, Ehr. Mikrogeologie, 1854, xxix, 21a ; and xxx, 5a, b. [Compare *T. brevis*.] [= *T. striata*, Ehr.]
- _____ **pala**, Czjzek. Haidinger's Naturw. Abh. II, 1848, 148, xiii, 25-27.
- _____ * **palæotrochus**, Ehr. Mikrogeologie, 1854, xxxvii, x, A, 1-4. [v. also *Valvulina*.]
- _____ **palmata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 293, xxxii, 21A, B, C.
- _____ * **parallela**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 233, xii, 7a, b.
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- _____ * _____ Reuss, Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 98, iii, 11a, b.
- _____ **perforata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 135, iv, xi, ε.
- _____ * _____ Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1844, 68 ; and Mikrogeologie, 1854, xxii, 80. [Obscure ; ? *Globigerina*.]
- _____ **pennatula**, Batsch, var. **aculeata**, Ehr. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 79, v, 165, 166. [*Nautilus*, 1791.]
- _____ **peucetia**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 295, xxxii, 7A, B, C.
- _____ * **picta**, Schultze. Organismus Polythal. 1854, 62, vii, 25-27.
- _____ * **piketnyi**, Terquem. Six. Mém. Foram. Lias, 1866, 527, xxii, 23a, b, c.
- _____ **plana**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 14.
- _____ * **pleuronectes**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 377.
- _____ **ponderosa**, Fornasini. Boll. Soc. geol. Ital. VI, 1887, 399, xi, 5a, b, 6a, b.
- _____ * **poroconus**, Ehr. Mikrogeologie, 1854, xxxii, i, 6. [= *T. gibbosa*.]
- _____ **prælonga**, Reuss. Verstein. böhm. Kreide, 1845-46, I, 39, xii, 14. [v. *Spiroplecta*.]
- _____ Reuss, in Geinitz, Grundr. Verstein. 1845-46, 679, xxv,

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 —————* Hoernes, Elem. Palaeont. 1884, 30, fig. 23; French ed. 1886, same fig.
 —————* **prælonga**, Schwager. Novara-Exped., Geol. Theil II, 1866, 252, vii, 104.
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 ————— **problematica**, Dunikowski. Kosmos [Lemberg], IV, 1879, 132, plate, 27.
 —————* **prodromus**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 7, i, Turnerithon, 17.
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 ————— **punctulata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 262, No. 4.
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 —————* **pupa**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 232, xiii, 4a, b, 5a, b.
 ————— **pupoides**, d'Orb. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 81, vi, 173-180. [*Gaudryina*, 1840.]
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 —————* **pusilla**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 139, vii, 14. [In descript. of plates, called *exigua*.]
 ————— [**pigmea**], d'Orbigny. Ann. Sci. Nat. VII, 1826, 263, No. 13.
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 ————— Brady, Report Challenger, 1884, 358, xlii, 8-12.
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- * **squamosa**, Terq. et Berth. Mém. Soc. géol. France, [2], **x**, 1875, 64, v (xv), 14.
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[= *T. striata*, Ehr.]
- * ——— Ehr., Mikrogeologie, 1854, xxxi, 10. ["*T. striata* ?"]
[= *T. striata*.]
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[= *T. striata*, Ehr.]
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[v. *Tritaxia*.]
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- TRETOMPHALUS**, Möbius, 1880. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 98.
 ——— *bulloides* (d'Orb.). Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 98, x, 6-9. [*Rosalina*, 1826; = *Cymbalopora*.]
- TRIGONULINA**, Seguenza, 1862. Foram. monotal. miocen. Messina, 1862, 74.
 ——— *biangulata*, Seguenza. Foram. monotal. miocen. Messina, 1862, 74, ii, 57 and 59.
 ——— *globosa*, Seguenza. Foram. monotal. miocen. Messina, 1862, 75, ii, 60-62.
 ——— *oblonga*, Seguenza. Foram. monotal. miocen. Messina, 1862, 74, ii, 56 and 58. [v. *Lagena*, and *L. trigono-oblonga*.]
 ——— *regularis*, Seguenza. Foram. monotal. miocen. Messina, 1862, 75, ii, 63 and 64.
- TRILLINA**, Munier-Chalmas, 1882. Bull. Soc. géol. France, [3], x, 1882, 424, "type *Triloculina strigillata*, d'Orb."
- TRILOCULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 299.
 ? ——— *acuminata*, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 135.
 ——— *acutangula*, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 451, i, 6.
 ——— *ægæa*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 30.
 ——— *æmulans*, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 451, i, 5.
 ——— *affinis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 299, No. 2.
 ——— ——— Terq., Mém. Soc. géol. France, [3], ii, 1882, 164, xvii (xxv), 1a-c.
 ——— *anceps*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 383, xlix, 11.
 ——— *angularis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 299, No. 6.
 ——— ——— Terq., Mém. Soc. géol. France, [3], ii, 1882, 163, xvi (xxiv). 34 and 35.
 ——— *angulata*, Karrer. Sitz. k. Ak. Wiss. Wien, Lv, Abth. 1, 1867, 359, ii, 6.
 ——— *angulosa*, Costa. Atti Accad. Pontaniana, vii, fas. 2, 1856, 315, xxvi, 14 and 15A, B, C.

- TRILOCULINA angusta**, Deshayes. Ency. Méth. (Vers), III, 1832, 1052.
 ——— **angusta**, Philippi. Tertiär. nordwest. Deutsch. 1843, 43, i, 40. [v. *Quinqueloculina*.]
 ——— **angusta**, Terq. Mém. Soc. géol. France, [3], 1, 1878, 59, v (x), 28a, b.
 ? **antillarum**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 4:9, ii, vi, 39. [= ? *Quinqueloc.*]
 ——— **austriaca**, d'Orbigny. Foram. Fossiles Vienne, 1846, 275, xvi, 25-27. [v. *Miliola*.]
 ——— ——— Mackie, Science Gossip, 1867, 131, fig. 133.
 ——— ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 81, xi, 3a, b; (and Mém. Soc. Dunkerquoise).
 ——— **bicarinata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 180, x, 18-20; also in Spanish, 1840, 158, same pl. and fig.
 ——— **bicornis** (W. & J.). Brown, Illustr. Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 24. [*Serpula*, 1798.]
 ——— **bipartita**, d'Orbigny. Foram. Fossiles Vienne, 1846, 275, xvii, 1-3.
 ——— **boliviana**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 69, iv, 7-9.
 ——— **bornemanni**, Bosquet. Verh. Koninkl. Akad. Wetensch. VII, 1859, 25, ii, 12a-c.
 ——— **brongniartiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 176, x, 6-8; also in Spanish, 1840, 156, same pl. and fig.
 ——— ——— Bailey, Smithsonian Contrib. II, 1851, 13, pl. (44, 45) ? [44 may be *Trochammina*.]
 ——— **brongniartii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 23. [v. *Quinqueloculina*.]
 ——— ——— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 250, viii, 9.
 ——— ——— See *Fruentaria feniculum*.
 ——— **carinata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 179, x, 15-17; also in Spanish, 1840, 157, same pl. and fig.
 ——— ——— Brady, Trans. Linnean Soc. XXIV, 1864, 466, xlvi, 3.
 ——— ——— See *Fruentaria 3 speciei*.
 ——— **carinata**, Michelotti. Mem. Soc. Ital. Sci. XXII, 1841, 300, iii, 1.
 ——— **carinata**, Philippi. Tertiär. nordwest. Deutsch. 1843, 43, i, 36.
 ——— **cassis**, Terquem. Mém. Soc. géol. France, [3], 1, 1878, 60, v (x), 30a, b.
 ——— **caudata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 81, xi, 1; (and Mém. Soc. Dunkerquoise).
 ——— **chemnitziana**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 141, iii, 19-21.
 ——— **circularis**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 349, xix, 4. [v. also *Miliolina*.]
 ——— **communis**, Deshayes. Descript. Coq. Charact. 1831, 252 and 259, iii, 5, 6, and 7. [v. *Miliola*; *Miliolina*.]
 ——— ——— Bronn, Lethaea Geognostica, ed. 2, 1837, 1145, xlii, 31a, b, c.
 ——— ——— Brown, Elem. Foss. Conch. 1843, 24, ii, 12 and 19.
 ——— ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 246, xlii, 31a, b, c.
 ——— **consobrina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 277, xvii, 10-12. [v. *Miliola*.]
 ——— **cor-anguinum** (Lam.). Dixon, Geol. etc. Sussex, 1850, 85, ix, 9; and 2d ed. 1878, 172. [*Miliolites*, 1804.]
 ——— **costata**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 327, xxxvi, 1a, b.
 ——— **costifera**, Terquem. Mém. Soc. géol. France, [3], 1, 1878, 60, v (x), 31a, b.

- TRILOCULINA** *crassa*, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 207.
- *cretacea*, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 210, No. 359.
- *cryptella*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 70, ix, 4 and 5. [v. *Miliola*.]
- *cuneata*, Karer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 359, ii, 8.
- *cylindrica*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 19.
- *decipiens*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 382, xlix, 8.
- ———— Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, xxiv, 13 and 16.
- *deformis*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 18.
- ———— Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 9, iii, 4.
- [*diformis*] ———— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 19, vi, 4.
- ———— Terq., Mém. Soc. géol. France, [3], I, 1878, 58, v (x), 25a-c.
- [*diformis*] ———— Terq., Mém. Soc. géol. France, [3], II, 1882, 117, xvii (xxv), 12-18.
- *dichotoma*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 383, xlix, 12.
- *dilatata*, Karer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 139, ii, 1.
- *divarricata*, Franzenau. Földtani Közlöny, XI, 1881, 39 and 91, iii, 1-3.
- *dubia*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 24.
- *eburnea*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 180, x, 21-23; also in Spanish, 1840, 158, same pl. and fig.
- *echinata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 14.
- *elegans*, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 135.
- *elongata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 17.
- *enoplostoma*, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 86, vii, 57.
- ———— Pictet, Traité de Paléont. 2d ed. IV, 1857, 524, cix, 44.
- ———— var. *grammostoma*, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 72, ii, 5a, b, c.
- *exigua*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, xxiv, 17.
- *exilis*, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 455, i, 5a-c.
- *ferruginea*, Terquem. Bull. Soc. géol. France, [3], IV, 1876, 499, xvii, 23.
- *fichteliana*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 171, ix, 8-10; also in Spanish, 1840, 152, same pl. and fig. [v. *Miliolina*.] [*T. fichteliana* on plate.]
- *fischeri*, Schlumberger. Feuille Jeun. Nat., July, 1883, 107, ii, 2, 2a, b.
- *flavescens*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 11.
- *foliacea*, Terquem. Mém. Soc. géol. France, [3], I, 1878, 60, vi (xi), 1a-c.
- *fontinensis*, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 328, xxxv, 11a, b.
- *fulgurata*, Schlumberger. Feuille Jeun. Nat., July, 1883, 107, ii, 1 and 1a, b.
- *gibba*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 299, No. 3. [v. *Miliola*.]
- ———— D'Orbigny, Foram. Fossiles Vienne, 1846, 274, xvi, 22-24. [v. *Miliola*.]
- ———— Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 69, vi, 3a, b, c, and 7.
- ———— Reuss' Models, No. 11, 1865 (Catal., No. 19, 1861). [= *T. trigonula*, Lam.]
- ———— var. Reuss, Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 450, i, 4.

- TRILOCULINA gibba**, d'Orbigny. P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 248, VIII, 7.
- _____ Toula, Mitth. geogr. Ges. Wien, XVIII, 1875, 165, pl., 19
- _____ Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 17, XII, 10; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 21, same pl. and fig.
- _____ Zittel, Handbuch Palaeont. Abth. I, 1876, 77, fig. 10².
- _____ K. Müller, Schr. Ver. Gesch. Bodensee, Heft VII, 1877, [77], IV, 13. [Cast or concretion?]
- _____ Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 27, pl., 115.
- _____ Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 190, VIII, 3.
- _____ Terq., Mém. Soc. géol. France, [3], II, 1882, 163, XVI (XXIV), 31a, b, c.
- _____ Hoernes, Elem. Palaeont. 1884, 34, fig. 32; French ed. 1886, same fig.
- _____ See *Frumentaria tricostata*.
- _____ **gibberula**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 60, v (x), 29a, b.
- _____ **glabra** (Brown). Brown, Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 20, 21. [*Renoidea*, 1827.]
- _____ G. B. Sowerby, Foram. Colne Tidal River, 1856, [privately printed], plate, fig. 10. [= *M. seminulum*.]
- _____ **globulus**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 71, ix, 9 and 10.
- _____ **gracilis**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 181, xi, 10-12; also in Spanish, 1840, 159, same pl. and fig. [Given as *Quinqueloculina* in error on plate.] [v. *Miliolina*.]
- _____ **granulata**, Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 8, i, 13.
- _____ **gualtieriana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 170, ix, 5-7; also in Spanish, 1840, 152, same pl. and fig.
- _____ **hartingi**, Bosquet. Verh. Koninkl. Akad. Wetenschappen, VII, 1859, 24, ii, 11a-c.
- _____ **hemisphærica**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 163, XVI (XXIV), 32, 33.
- _____ **incerta**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 57, v (x), 19a, b.
- _____ **inflata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 10. [v. *Quinqueloculina*.]
- _____ Roemer, Neues Jahrbuch, 1838, 393, iii, 72.
- _____ Michelotti, Mem. Soc. Ital. Sci. XXII, 1841, 299, iii, 11.
- _____ D'Orbigny, Foram. Fossiles Vienne, 1846, 278, xvii, 13-15.
- _____ Terq., Mém. Soc. géol. France, [3], I, 1878, 56, v (x), 16a-18b.
- _____ Terq., Mém. Soc. géol. France, [3], II, 1882, 165, XVII (XXV), 4-6.
- _____ = *Quinqueloc.*; see *Frumentarium nautiliforme*.
- _____ **inflata**, Deshayes. In Lyell, Principles of Geology, III, 1833, 251, iv, 1-4.
- _____ **inornata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 279, xvii, 16-18.
- _____ **intermedia**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 138, i, 11.
- _____ **josephina**, d'Orbigny. Cours élém. Paléont. I, 1849, 204, fig. 331; II, fas. 2, 1852, 818, fig. 626.
- _____ **kochi**, Nemes. Orvos term. értesítő (term. szak), XIII, 1888, 162 and 217, vi, 1.

- TRILOCULINA kochi**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 289, xi, 6 and 7.
- **labiosa**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 178, x, 12-14; also in Spanish, 1840, 157, same pl. and fig. [v. *Miliolina*.]
- **lævigata**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 350, xix, 5.
- **lævigata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 15.
- ——— Terq., Mém. Soc. géol. France, [3], I, 1878, 57, v (x), 20a-21b.
- ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 168, xvii (xxv), 22-23.
- **lævissima**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xxv, 8 and 9.
- **liasina**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 637, iv, 14a-c.
- **lineata**, Conrad. Proc. Ac. Nat. Sci. Philad. 1865, 73; not described, not figured.
- **linneiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 172, ix, 11-13; also in Spanish, 1840, 153, same pl. and fig. [v. *Miliolina*.]
- **lutea**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 70, ix, 6-8.
- **martiniiana**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 141, iii, 16-18. [*T. martiana* in plate.]
- **maurini**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 300, No. 25.
- **microdon**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 382, xlix, 9.
- **minuta**, Brown. Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 18 and 19. [*Miliola*, 1827.]
- **moguntiacæ**, Reuss. Neues Jahrbuch, 1853, 672, ix, 5a-c.
- **nitens**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 383, xlix, 10.
- **nitida**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 141, iii, 22-24.
- ——— Mackie, Science Gossip, 1867, 131, fig. 134.
- **nodosaroides**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 360, ii, 9.
- **nodulus**, Eichwald. Lethæa Rossica, III, 1853, 12, i, 14a-d.
- **oblonga** (Montagu). D'Orbigny, Ann. Sci. Nat. VII, 1826, 300, No. 16. [*Vermiculum*, 1803.]
- ——— D'Orbigny, Modèles, 1826, No. 95.
- ——— [Lam.]. Bronn, Lethæa Geognostica, ed. 2, 1837, 1146, xlii, 27.
- ——— [d'Orb.]. Roemer, Neues Jahrbuch, 1838, 393, iii, 70.
- ——— [d'Orb.]. Potiez & Michaud, Galerie des Mollusques Mus. Douai, I, 1838, 40, x, 7 and 8.
- ——— [d'Orb.]. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 175, x, 3-5; also in Spanish, 1840, 155, same pl. and fig.
- ——— [d'Orb.]. Reuss, in Geinitz, Grundr. Verstein. 1845-46, 684, xxiv, 89.
- ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 246, xlii, 27a, b, c.
- ——— Gosse, Manual Mar. Zool. 1855, 14, fig. 19.
- ——— Macdonald, Ann. Mag. Nat. Hist. [2], XX, 1857, 193, vi, 30.
- ——— Parker & Jones, Ann. Mag. Nat. Hist. [2], XIX, 1857, 300, x, 37.
- ——— P., J., & B. [d'O., Modèles, No. 95], Ann. Mag. Nat. Hist. [3], XVI, 1865, 34, i, 9.
- (**Quinqueloc.**) ——— J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, 71, iii, 31 and 32.

- TRILOCULINA oblonga** (Montagu). P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 251, VIII, 8. [*Quinqueloc. longirostris*, d'O., q. v.]
 ——— [d'Orb.]. Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 38, v, 19a, b; (and Mém. Soc. Dunkerquoise).
 ——— Terq., Mém. Soc. géol. France, [3], I, 1878, 58, v (x), 22a-24b.
 ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 168, xvii (xxv), 20 and 21.
 ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, fig.
 ——— **obotritica**, Boll. Geogn. deutsch. Ostseeländer, 1846, 177, II, 14.
 ——— **oculina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 277, xvii, 7-9.
 ——— **orbicularis**, Roemer. Neues Jahrbuch, 1838, 393, III, 74.
 ——— Reuss, Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 251, VIII, 85.
 ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3. 1884, 220, x, 24.
 ——— **ovalis**, Roemer. Neues Jahrbuch, 1838, 393, III, 73.
 ——— **oviformis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 165, xvii (xxv), 2a, b.
 ——— **oxfordiana**, Deecke. Mém. Soc. Emul. Montbéliard, XVI, 1886, [18], I, 32, 32a.
 ——— **perforata** [W. & J.]. Brown, Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 26. [*Serpula*, 1798.]
 ——— **planciana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 173, IX, 17-19; also in Spanish, 1840, 154, same pl. and fig.
 ——— **plicata**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 61, VI (xi), 2a, b.
 ——— **porvaensis**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 76, XIII, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 21, same pl. and fig.
 ——— **propinqua**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 168, xvii (xxv), 19a-e.
 ——— **pulchella**, d'Orbigny. Foram. Fossiles Vienne, 1846, 279, xvii, 19-21.
 ——— Mackie, Recreative Science, I, 1859, 149, fig. 32.
 ——— **pyrula**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 359, II, 7.
 ——— **quadrilateralis**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 173, IX, 14-16; also in Spanish, 1840, 153, same pl. and fig. [*T. quadrilatera* on plate.]
 ——— **raibliana**, Gümbel. Jahrb. k. k. geol. Reichsanstalt, XIX, 1869, 182, VI, 34.
 ——— **reticulata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 299, No. 9. [v. *Milicolina* and *Quinqueloculina*.]
 ——— = *Quinqueloc.*; see *Fruentaria reticulata*.
 ——— **retortioris**, Nemes. Órvos term. értesítő (term. szak), XIII, 1888, 163 and 218, VI, 2. [= *Vertebralina*.]
 ——— **rosea**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 69, III, 18-20.
 ——— **rostrata**, Michelotti. Mem. Soc. Ital. Sci. XXII, 1841, 300, III, 3.
 ——— Michelotti, Nat. Verh. Holland. Maatsch. Wetensch. Haarem, [2], III, (2), 1847, 18, not fig'd.
 ——— **rotunda**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 299, No. 4.
 ——— **rotundata**, Brown. Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 14 and 15. [*Renoidea*, 1827.]
 ——— **rugosa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 299, No. 8.
 ——— **scapha**, d'Orbigny. Foram. Fossiles Vienne, 1846, 276, xvii, 4-6.
 ——— **schreiberiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 174, IX, 20-22; also in Spanish, 1840, 154, same pl. and fig. [*T. schreiberiana* on plate.]
 ——— **selene**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 138, I, 12.

- TRILOCULINA squamosa**, Terquem. Mém. Soc. géol. France, [3], i, 1878, 59, v (x), 26a, b.
- **staurostoma**, Schlumberger. Feuilles Jeun. Nat., July, 1883, 106, ii, 4 and 4a.
- **striata**, Brown. Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 27. [*Miliola*, 1827.]
- G. B. Sowerby, Foram. Colne Tidal River, 1856 [privately printed], plate, figs. 5 and 6. [= *Q. bronqnartii*, d'Orb.]
- **striata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 300, No. 22.
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- **striatella**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 140, ii, 2.
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* Given as a subgenus of *Rotalina*.

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- v. **obscura**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 127, xvi, 7a, b; (and Mém. Soc. Dunkerquoise).
- Terq., Mém. Soc. géol. France, [3], II, 1882, 92, ix (xvii), 22-25.
- Brady, Report Challenger, 1884, 661, xciii, 6 and 7.
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 227, xlv, 17.
- Terrigi, Mem. R. Acc. Lincei, [4], VI, 1889, 116, vii, 8, 9. = *T. tuberosa* (F. & M.); see *Testæ hammoniformes*.
- **varians**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 359, ii, 12a-c.
- **vermiculata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 39, vi, 1-3.
- **vortex**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 91, ix, 8a, b.
- **weinkauffi** (Rss.). Andreae, Abh. geol. Specialkarte, Elsass-Lothr. II, Heft 3, 1884, 218, viii, 11. [*Rosalina*, 1863.]

- TRUNCATULINA wuellerstorfi** (Schw.). Brady, Report Challenger, 1848, 662, xciii, 8 and 9. [*Anomalina*, 1866.]
- Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 174, fig. 3.
- Schroeter, Neue Litt. u. Beytr. III, 1786, iii, f. 23.
- Pietet, *Traité de Paléont.* xv, 1846, 233, xii, 17.
- Williamson, Mem. Lit. Phil. Soc. Manchester, [2], viii, 1848, 46, pl., 35.
- Schultze, Organismus Polyth. 1854, 27, figures *a, b*. [Showing young.]
- Wright, Ann. Mag. Nat. Hist. [3], vii, 1861, 360, xviii, 6. [Showing reproductive elements.]
- J. G. Wood, Common Objects Micro. 1867, 121, xii, 14.
- Von Schlicht, Foram. Septar. Pietzpuhl, 1870, plates xxi and xxii.
- Terquem, Cinq. Mém. Foram. Oolithique, 1883, 370, xli, 5 and 6.
- Terquem, Mém. Soc. géol. France, [3], iv, 1886, 57, vi, 26*a, b, c*.
- Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 118, viii, 6.
- see *Nautilus*.
- Truntulina**, Mackie, 1867; error for *Truncatulina*.
- Tubularia**, Bronn, 1853-56; misprint for *Fabularia*.
- Tubulus anulatus**. Soldani, Testac. I, pt. 1, 1789, 33, pl. 27*xx, yy*. [*Nod. orthocera*, d'Orbigny, Ann. Sci. Nat. 1826, vii, 252, 8.]
- Tubulus marinus irregularites intortus vermicularis**. Gaultieri, Index Testarum, 1742, pl. xix, fig. S. [= *Miliolina*.]
- TURBINULINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 275. [Given as a subgenus of *Rotalia*.]
- *ammoniformis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 276, No. 55.
- *becarii*, Turt. Idem, 275, No. 42.
- *bulloides*, d'Orbigny. Idem, 275, No. 51.
- *corallinarum*, d'Orbigny. Idem, 275, No. 48.
- *crassa*, d'Orbigny. Idem, 275, No. 41.
- *elegans*, d'Orbigny. Idem, 276, No. 54.
- *gaimardii*, d'Orbigny. Idem, 275, No. 46.
- *gaudichaudii*, d'Orbigny. Idem, 275, No. 47.
- *italica*, d'Orbigny. Idem, 275, No. 43. [v. *Rosalina* and *Rotalia*.]
- *inflata*, d'Orbigny. Idem, 275, No. 45.
- *lævis*, d'Orbigny. Idem, 276, No. 52.
- *maremini*, d'Orbigny. Idem, 275, No. 44.
- *semimarginata*, d'Orbigny. Idem, 276, No. 53. [v. *Rotalina*.]
- *siennensis*, d'Orbigny. Idem, 275, No. 50. [v. *Rosalina*; and *Rotalia*.]
- *tortuosa*, Fischer. Idem, 275, No. 40. [See *Streblus*.]
- *umbilicata*, d'Orbigny. Idem, No. 49.
- TURRILINA**, Andreae, 1884. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 212.
- *alsatica*, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 212, viii, 18 and 19. [*Rotalia alsatica*, N. Jahrb., 1882, q. v.]
- U. lineata**, Conrad. Proc. Ac. Nat. Sci. Philad. No. 2, 1865, 73. [Headed "*Triloculina*," therefore *U* is probably a misprint for *T*.]
- U. saxorum testa majuscula lenticulari sinistro latere medio tumido, articulis ultimis in latere dextro prominulis**. In *saxis Insulæ Rügen cretaceis*. Ehrenberg, Abhandl. k. preuss. Ak. Wiss. Berlin, 1838, 132. [No genus is given.]
- Umbilicum parvulum marinum eodem loco reffectum qui lapidem numismaticum refert**. F. Colonna, Phytob., 1744, Appendix, pl. xxxviii, f. P. [= *Orbitolites complanatus*.]
- UNCINULINA**, Terquem, 1862. Mem. Ac. Imp. Metz, XLII, 1862, 433.
- = ? Spicules of *Astrophyton*; see Terquem et Jourdy, Mém. Soc. géol. France, [2], ix, 1869, 145, xv, 12-14.
- *polymorpha*, Terq. Mem. Ac. Imp. Metz, XLII, 1862, 433, v, 7*a-k*.
- UNILOCULINA**, d'Orbigny, 1846. Foram. Foss. Vienne, 1846, 261. [= young stage of *Miliolina*.]

- UNILOCULINA indica**, d'Orbigny. Foram. Fossiles Vienne, 1846, 261, xxi, 53 and 54.
 ————— Reuss' Models, No. 82, 1865 (Catal., No. 16, 1861).
 [= ? young of a striped *Quinqueloc.*]
 ————— Jones, in Microgr. Diet. ed. 4, 1883, 791, xxiii, 2.
 ————— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1060, lxxxvii, 7.
 ————— **orbignyi**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 132, xvii, *Sa, b*; (and Mém. Soc. Dunkerquoise).
 ————— Parker, Trans. Micr. Soc. London, n. s. vi, 1858, 54, fig.
- URNULINA**, Gruber, 1884. Nova Acta k. Leop.-Carol. Deutsch. Ak. Nat. xlv, 1884, 496.
 ————— **diffugiæformis**, Gruber. Nova Acta k. Leop.-Carol. Deutsch. Ak. Nat. xlv, 1884, 496, viii, 18.
- UTERIA**, Michelin, 1845. Leonogr. Zoophyt. 1840-47, 177; see Gumbel, Abh. k.-bayer. Ak. Wiss. München, xi, 1871 (1874), 231, etc. plates. [A genus of calcareous algæ; v. Solms-Laubach, Einleit. Palæophytologie, 1887, 38, etc.]
- UVELLINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. 1. [A family group name.]
- UVIGERINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 268; Brady, Report Challenger, 1884, 573.
 ————— **abbreviata**, Terq. Mém. Soc. géol. France, [3], ii, 1882, 120, xii (xx), 33.
 ————— **aculeata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 191, xi, 27 and 28.
 ————— Brady, Report Challenger, 1884, 578, lxxv, 1-3.
 ————— **angulosa**, Williamson. Recent British Foram. 1858, 67, v, 140.
 ————— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 200, vii, 31.
 ————— Brady, Report Challenger, 1884, 576, lxxiv, 15-18.
 ————— v. **spinipes**, Brady. Report Challenger, 1884, 577, lxxiv, 19 and 20. [*U. spinipes*, 1881.]
 ————— See *U. pygmaea*, d'O.
- **asperula**, Czjzek. Haidinger's Naturw. Abh. ii, 1848, 146, xiii, 14 and 15.
 ————— Reuss, Sitz. k. Ak. Wiss. Wien, lv, Abth. 1, 1867, 93, iv, *6a, b, 7, 8*, and 9.
 ————— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 185, ii, 26.
 ————— Brady, Report Challenger, 1884, 578, lxxv, 6-8.
 ————— v. **ampullacea**, Brady. Report Challenger, 1884, 579, lxxv, 10 and 11.
 ————— v. **auberiana**, d'O. Brady, Report Challenger, 1884, 579, lxxv, 9. [*U. auberiana*, 1839.]
 ————— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 755, xvi, 7.
 ————— Anon., Sci. News, 4 May, 1888, 413, fig. 15.
 ————— Brady, Parker, & Jones, Trans. Zool. Soc. xii, pt. 7, 1888, 225, xlv, 4 and 5.
 ————— Toutkowsky, Zap. Kievsk. Obsheh. Est. ix, 1888, 41, ii, *3a, b, c*.
- **auberiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 106, ii, 23 and 24; also in Spanish, 1840, 110, same pl. and fig. [v. also *U. asperula*, var.]
 ————— Goëss, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 60, iv, 71-75.
- **baccalis**, Schwager. Boll. R. Com. geol. Ital. ix, 1878, 523, i, 9.
 ————— **bifurcata**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 53, vii, 17.

- UVIGERINA bononiensis**, Fornasini. *Boll. Soc. geol. Ital.* vii, 1888, 48, iii, 12, 12a.
- ? ——— **borealis**, Ehrenberg. *Abhandl. k. Ak. Wiss. Berlin*, 1841, 429.
- ? ——— ——— Ehr., *Mikrogeologie*, 1854, xxxv, A, xx, 9. [= ? ; may be *Truncatulina*.]
- **brunnensis**, Karrer. *Abh. k. k. geol. Reichs.* ix, 1877, 385, xvi, b, 49.
- ——— Brady, *Report Challenger*, 1884, 577, lxxv, 4 and 5.
- **canariensis**, d'Orbigny. *Barker Webb & Berthelot, Hist. Nat. Iles Canaries*, 1839, ii, pt. 2, "Foraminifères," 138, i, 25–27.
- ——— Brady, *Report Challenger*, 1884, 573, lxxiv, 1–3.
- ——— Woodward & Thomas, *13 Ann. Rep. Geol. N. H. Survey Minnesota, for 1884* (1885), 171, iv, 37.
- **cochlearis**, Karrer. *Abh. k. k. geol. Reichs.* ix, 1877, 385, xvi, b, 48.
- **crassicosata**, Schwager. *Novara-Exped., Geol. Theil* ii, 1866, 248, vii, 94.
- **cribrosa**, Ehrenberg. *Bericht. k. preuss. Ak. Wiss. Berlin*, 1845, 377.
- **cristata**, Marsson. *Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg.* x, 1878, 150, iii, 20a, b, c.
- **decora**, Ehr. *Bericht. k. preuss. Ak. Wiss. Berlin*, 1845, 377.
- (**Sagrina**) **dimorpha**, Park. & Jones. *Phil. Trans.* 1865, 364, xviii, 18. [v. also *Sagrina*.]
- ——— Goës, *K. Svenska Vet.-Akad. Handl.* xix, No. 4, 1882, 62, iv, 77–81.
- **eoœna**, Gumbel. *Abh. m.-ph. Cl. k.-bayer. Ak. Wiss.* x, 1868 (1870), 645, ii, 78.
- **farinosa**, Hantken. *A magy. kir. földt. int. évkönyve*, iv, 1875 (1876), 53, vii, 6 ; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, iv, 1875 (1881), 62, same pl. and fig.
- **fragilis**, Terquem. *Mém. Soc. géol. France*, [3], ii, 1882, 120, xii (xx), 30.
- **gemmæformis**, Schwager. *Novara-Exped., Geol. Theil* ii, 1866, 247, vii, 92.
- **globosa**, Karrer. In von Drasche, *Frag. Geol. Luzon*, 1878, 94, v, 20 ; and *Bol. Com. Map. geol. Españ.* vii, 1880, 277F, 6.
- **gracilis**, Reuss. *Zeitschr. deutsch. geol. Ges.* iii, 1851, 77, v, 39.
- **hispida**, Schwager. *Novara-Exped., Geol. Theil* ii, 1866, 249, vii, 95.
- **interrupta**, Brady. *Q. Journ. Micr. Sci.* xix, 1879, 274, viii, 17 and 18.
- ——— Brady, *Report Challenger*, 1884, 580, lxxv, 12–14.
- **irregularis**, Brady. *Nat. Hist. Trans. Northumb.* i, 1865–67 (1867), 100, xii, 5.
- ——— Soldani, *Testac.* ii, 1798, 18, pl. 4H, resembles this form ; see P., J., & B., *Ann. Mag.* 1871, 171.
- **lævis**, Ehrenberg. *Bericht. k. preuss. Ak. Wiss. Berlin*, 1845, 377.
- (**Heterostomella**) **lævis**, P. & J. Goës, *K. Svenska Vet.-Akad. Handl.* xix, No. 4, 1882, 61, iv, 76. [v. *Heterost. aculeata, lævis*, P. & J., 1872.]
- **multistriata**, Hantken. *A magy. kir. földt. int. évkönyve*, i, 1871, 129, ii, 14 ; and *Mitth. a. d. Jahrb. k. ungar. geol. Anstalt*, i, 1871, 135, same pl. and fig.
- ——— Hantken, *Kohlenflütze, etc. ungar. Krone*, 1878 (transl. from Magyar), 217, fig. 30.
- **muralis**, Terquem. *Mém. Soc. géol. France*, [3], ii, 1882, 119, xii (xx), 26–29.
- **nitidula**, Schwager. *Novara-Exped., Geol. Theil* ii, 1866, 248, vii, 93.
- **nodosa**, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 269, No. 3. [v. *Sagrina*.]
- (**Sagrina**) ——— ——— Parker & Jones, *Phil. Trans.* 1865, 363, xviii, 15.
- ——— = *U. pygmaea*, d'O. ; see *Polymorpha pineiformia*.

- UVIGERINA nodosa**, var. β , d'Orbigny. = *U. pygmaea*, d'O. ; see *Testæ pineiformes*, etc.
- **nuda**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 120, xii (xx), 31.
- **orbignyana**, Czjzek. Haidinger's Naturw. Abh II, 1848, 147, xiii, 16 and 17.
- **parkeri**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 385, xvi, *b*, 50.
- **paucicosta**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 268, xxii, 7A.
- **pigmea**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 269, No. 2. [Error for *pygmaea*.]
- **plicata**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 249.
- **porrecta**, Brady. Q. Journ. Micr. Sci. XIX, 1879, 274, viii, 15 and 16.
- ——— Brady, Report Challenger, 1884, 577, lxxiv, 21-23.
- **proboscidea**, Schwager. Novara-Exped., Geol. Theil II, 1866, 250, vii, 96.
- **pygmaea**, d'Orb. Ann. Sci. Nat. VII, 1826, 269, xii, 8 and 9.
- ——— D'Orbigny, Modèles, No. 67, 1826.
- ——— Cuvier, Règne Animal, 1836-46, IX (pls. x), 34, xv, 4.
- ——— Smedley, Ency. Metrop. 1845, undescr., pl. "Mollusca" ?, 28.
- ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 672, xxiv, 62.
- ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 190, xi, 25 and 26. [*U. pygmaea* on plate.]
- ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 230, xxxv², 22a, *b*.
- [———] Macdonald, Ann. Mag. Nat. Hist. [2], xx, 1857, 193, v, 6.
- [———] Macdonald, Ann. Mag. Nat. Hist. [2], xx, 1857, 193, vi, 21. [Aculeate.]
- ——— Parker & Jones, Ann. Mag. Nat. Hist. [2], XIX, 1857, 297, xi, 41-43.
- ——— Williamson, Recent British Foram. 1858, 66, v, 138, 139.
- [**pygmea**] ——— Mackie, Recreative Science, I, 1859, 148, fig. 25.
- ——— P., J., & B. [d'O., Modèles, No. 67], Ann. Mag. Nat. Hist. [3], xvi, 1865, 29, ii, 54.
- ——— Reuss' Models, No. 93, 1865 (Catal., No. 66, 1861).
- ——— Parker & Jones, Phil. Trans. 1865, 363, xvii, 65a, *b* ; xiii, 53-57.
- ——— var. **angulosa**, Will. Parker & Jones, Phil. Trans. 1865, 364, xiii, 58 ; xvii, 66a, *b*.
- ——— Mackie, Science Gossip, 1867, 131, fig. 138.
- ——— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 171, xi, 109.
- ——— Idem, 171, xi, 110. [See *U. nodosa*, d'O.]
- ——— Idem, 171, xi, 111. [See *U. nodosa*, var. β .]
- ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 52, vii, 4 ; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 62, same pl. and fig.
- ——— Zittel, Handbuch Palaeont. Abth. I, 1876, 86, fig. 23⁵.
- ——— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 25, pl., 34.
- ——— Vine, Science Gossip, 1878, 52, fig. 34.
- ——— var. Brady, Ann. Mag. Nat. Hist. [5], I, 1878, 435, xx, 7a, *b*.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 184, i, 14 and 15.
- ——— Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 59, iv, 68-70.

- UVIGERINA** *pygmæa*, d'Orbigny. Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 184, ii, 25.
- _____ Jones, in Microgr. Diet. ed. 4, 1883, 799, xxiii, 44.
- _____ (cf.) _____ Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 112, xxvii (4), 3 and 4.
- _____ Brady, Report Challenger, 1884, 575, lxxiv, 11 and 12 ; var. 13 and 14.
- _____ Hoernes, Elem. Palaeont. 1884, 29, fig. 20 ; French ed. 1886, same fig.
- _____ Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
- _____ Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1058, lxxxvi, 52.
- _____ Gumbel, Geol. Bayern, Th. 1, Lief. 2, 1885, fig. 266¹⁷.
- _____ Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 224, xlv, 1 and 2.
- _____ See *Polymorpha pineiformia*, and *Nautili amphorarii*.
- _____ (*Sagrina*) *raphanus*, Park. & Jones. Phil. Trans. 1865, 364, xviii, 16a, b, and 17. [v. also *Sagrina*.]
- _____ *raricosta*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 53, vii, 15.
- _____ *rosæ*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 267, xviii, 7A. [*Cucurbitina* in deser. to pl. ; appears to be a *Bulimina*.]
- _____ *rugosa*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 269, No. 1.
- _____ *rugosa*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 120, xii (xx), 32.
- _____ *rugulosa*, Reuss. Bull. Ac. Roy. Belg. [2], xv, 1863, 153, iii, 43.
- _____ *schwageri*, Brady. Report Challenger, 1884, 575, lxxiv, 8-10.
- _____ *semiornata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 189, xi, 23 and 24.
- _____ Egger, Neues Jahrbuch, 1857, 285, xi, 17 and 18.
- _____ *spinipes*, Brady. Quart. Journ. Micr. Soc. XXI, 1881, 64. [v. *U. angulosa*, var.]
- _____ *striata*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 53, vii, 16.
- _____ *striata*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 266, xv, 2A, C, [error for 3].
- _____ *striatella*, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 159, viii, 7.
- _____ *tenuistriata*, Reuss. Sitz. k. Ak. Wiss. LXII, Abth. 1, 1870, 485; v. Schlicht, Foram. Septar. Pietzpuhl, 1870. xxii, 34-37.
- _____ Brady, Report Challenger, 1884, 574, lxxiv, 4-7.
- _____ *tricarinata*, d'Orbigny. Mém. Soc. géol. France, [1], IV, 1840, 42, iv, 16 and 17 ; facsimile in Science Gossip, 1870, 157, fig. 149.
- _____ Reuss, in Geinitz, Grundr. Verstein. 1846, 672, xxiv, 63.
- _____ *trigona*, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 110, ii, 1 and 1a.
- _____ *trilobata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 269, No. 4.
- _____ *uncinata*, Mariani. Atti Soc. Ital. Sci. xxxi, 1888, 119, i, 7a, b.
- _____ *urnula*, d'Orbigny. Foram. Fossiles Vienne, 1846, 189, xi, 21 and 22.
- _____ Pietet, Traité de Paléont. 2d ed. IV, 1857, 513, cix, 32.
- _____ Suess, Boden Stadt Wien, 1862, 45, fig. 1⁵.
- _____ Toutkowski, Zap. Kievsk. Obsch. Est. IX, 1888, 39, i, 1a, b, c.
- _____ Pietet, Traité de Paléont. IV, 1846, 235, xii, 21.
- _____ v. Schlicht, Foram. Septar. Pitzpuhl, 1870, plates xxii.
- Vaginula**, Jones, 1883 ; misprint for *Vaginulina*.
- VAGINULINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 257 ; Brady, Report Challenger, 1884, 529.
- _____ *acuminata*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 49, iv, 1.

- VAGINULINA acuta**, Ehr. Mikrogeologie, 1854, xxix, 40.
- **alsatica**, Deecke. Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 33, i, 21*a*, *b*.
- **angustissima**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 45, iii, 3.
- **anomala**, Tate & Blake. Yorkshire Lias, 1876, 464, xvii, 23 and 23*a*.
- **arguta**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 202, viii, 4. [*v. Planularia.*]
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 47, iii, 13.
- Berthelin, Mém. Soc. géol. France, [3], I, 1880, 42, ii (xxv), 7*a*–8*b*.
- **badenensis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 65, iii, 6–8.
- Neugeboren, Denkschr. k. Ak. Wiss. Wien, XII (2), 1856, 98, v, 7*a*, *b*, 8 and 9.
- Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, 181, xii, 16*a*, *A*.
- [**badensis**] ——— Reuss' Models, No. 56, 1865 (Catal., No. 42, 1861).
- Jones, in Microgr. Dict. ed. 4, 1883, 799, xxiii, 35*a*, *b*.
- **bargensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 40, iv, Rheinfallschicht, 1.
- **bicostrilata**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 202, viii, 5.
- **biochei**, Berthelin. Mém. Soc. géol. France, [3], I, 1880, 42, ii (xxv), 9*a*, *b*.
- **biplicata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 395, viii, 3*a*, *b*.
- **birmenstorfensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 25, iii, 14.
- **brukenethali**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII (2), 1856, 98, v, 10*a*–*d*.
- Brady, Report Challenger, 1884, 532, lxvi, 18 and 19.
- **bullosa**, Ehrenberg. Mikrogeologie, 1854, xxiv, 9. [= *V. legumini-formis*, Batsch.]
- **calcipara**, Ehr. Mikrogeologie, 1854, xxxii, ii, 7. [= *V. legumini-formis*, Batsch.]
- **caudata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 258, No. 8.
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- **ovalis**, Terq. Mém. Soc. géol. France, [3], II, 1882, 103, xi (xix), 10a, b.
- **oviedoiana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 103, ii, 21 and 22; also in Spanish, 1840, 108, same pl. and fig. [*v. oviedoana* on plate.]
- **palæotrochus**, Ehr. Brady, Carbonif. Foram., Pal. Soc. xxx, 1876, 83, iv, 1-4. [*Textilaria*, 1854.]
- ——— v. **compressa**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 85, iv, 5a, b.
- ——— [Br.]. Nicholson, Manual Palaeont. 1879, I, 112, fig. 21C, D.
- ——— Roemer, Lethaea Geognostica, Th. I, Lief. 1, 1880, 267, fig. 42.
- **parisiensis** (d'Orb.). P., J., & B., Ann. Mag. Nat. Hist. [3], XVI, 1865, 29 and 35, pl. 1, f. 26. [= *Clavulina*, q. v.]
- **parvula**, v. Muenster. Roemer, Neues Jahrbuch, 1838, 387, iii, 41b, c.
- **pileolus**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 47, i, 15-17. [*v. Discorbina.*]
- **plicata**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 88, iv, 10 and 11.
- **pupa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 270, No. 2.
- ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 101, xi (xix), 5.
- **quadribullata**, v. Hagenow. Neues Jahrb. f. Min. 1842, 570.
- **rawackensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 270, No. 4.
- **rudis**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 90, iii, 19 and 20.
- **spicula**, Reuss. Geogn. Skizze Böhmen, II, 1844, pt. 1, 214.
- ——— Reuss, Verstein. böhm. Kreide, 1845-46, i, 37, xiii, 69.

- VALVULINA triangularis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 270, No. 1.
 ———— D'Orbigny, Modèles, No. 25, 1826.
 ———— Guérin - Menéville's Cuvier, Iconographie, Mollusques,
 1829-43, 9, ii, 15.
 ———— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls.
 1837), 18, iii, 15.
 ———— Bronn, Lethaea Geognostica, ed. 2, 1837, 1134, xlii, 22a,
b, c.
 ———— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 671, xxiv,
 59.
 ———— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 229, xlii,
 22a, *b, c.*
 ———— Parker & Jones, Ann. Mag. Nat. Hist. [2], XIX, 1857,
 295, xi, 15 and 16.
 ———— Carpenter, Parker, & Jones, Introd. Foram. 1862, xi,
 15.
 ———— Reuss' Models, No. 95, 1865 (Catal., No. 5, 1861).
 ———— P., J., & B. [d'O., Modèles, No. 25], Ann. Mag. Nat.
 Hist. [3], xvi, 1865, 23, i, 24.
 ———— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 205,
 vii, 35.
 ———— Terq., Mém. Soc. géol. France, [3], II, 1882. 101, xi
 (xix), 4.
 ———— Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882,
 86, xi, 387-389. [Forma *Clavulina*.]
 ———— var. *eoœæna*, Gumb. Goës, K. Svenska Vet.-Akad.
 Handl. XIX, No. 4, 1882, 88, xi, 401-403. [v. *Clavulina*.]
 ———— var. *polyphragma*, Goës. K. Svenska Vet.-Akad.
 Handl. XIX, No. 4, 1882, 87, xi, 390-400.
 ———— var. *conica*, Parker & Jones. Phil. Trans. 1865, 406, xv,
 27. [v. also *V. conica*.]
 ———— Agassiz, Three Cruises "Blake," II, 1888, 165, fig. 502.
 ———— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
tribullata, v. Hagenow. Neues Jahrb. 1842, 570.
 ———— *youngi*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 86, iv, 6, 8,
 and 9.
 ———— v. *contraria*, Brady. Carbonif. Foram., Pal. Soc. xxx,
 1876, 87, iv, 7a, b.
 ———— Pictet, Traité de Paléont. IV, 1846, 234, xii, 19.
 ———— Carpenter, Parker, & Jones, Introd. Foram. 1862, 146, xi, 15-26. [17 =
V. parisiensis, d'O. ; 18 = *V. angularis*, d'O. ; 19 = *V. mixta*, P. & J. ;
 23 = *V. conica*, P. & J.] [Structural.]
 ———— sp. Zittel, Handbuch Palaeont., Abth. 1, 1876, 90, fig. 277.
 ———— Carter, Ann. Mag. Nat. Hist. [4], XIX, 1877, xiii, 23, 24, and 25.
 ———— sp. Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 26, pl., 91.
 ———— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 205, vii, 34 and 36.
- VENILINA**, Gumbel, 1868 (1870). Abh. m-ph. Cl. k.-bayer. Ak. Wiss. x, 1868
 (1870), 648.
 ———— *haeringensis*, Gumbel. Abh. m-ph. Cl. k.-bayer. Ak. Wiss. x, 1868
 (1870), 649, ii, 84bis, a, b. [v. also *Schizophora*.]
 ———— *nikobarensis*, Schw. Boll. R. Com. geol. Ital. VIII, 1877, 27, pl., 102.
 ———— *nummulina*, Gumbel. Abh. m-ph. Cl. k.-bayer. Ak. Wiss. x, 1868
 (1870), 648, ii, 84a, b.
- Vermiculi ammoniformes**, Soldani. Sagg. Oritt. 1780, 106, iv, 36K, L.
VERMICULUM, Montagu, 1803. Test. Brit. 1803, 517.
 ———— *bicorne* (Walker & Boys). Montagu, Test. Brit. 1803, 519. [*Serpula*,
 1784.]
 ———— *disciforme*, Macgillivray. Hist. Moll. Anim. Aberdeen, etc. 1843, 319.
 [v. also *Miliolina* and *M. seminulum*.]

- VERMICULUM globosum** (Walker & Boys). Montagu, Testac. Brit. 1803, 523. [v. *Lagena*.] [*Serpula*, 1784.]
- **intortum**, Montagu. Test. Brit. 1803, 520.
Fleming, Mem. Werner. Nat. Hist. Soc. iv, 1822, 564, xv,
3a, b.
- **lacteum**, Montagu. Test. Brit. 1803, 522. [v. *Miliola* and *Biloculina*.]
Fleming, Mem. Werner. Nat. Hist. Soc. iv, 1822, 566,
xv, 6k, l, m. [= *Polymorphina*.]
- **læve** (Walker & Boys). Montagu, Testac. Brit. 1803, 524. [*Serpula*,
1784.]
- **marginatum** (Walker & Boys). Montagu, Test. Brit. 1803, 524. [*Serpula*,
1784.] [v. *Lagena*, *Renoidea*, and *Biloculina*.]
- **oblongum**, Montagu. Test. Brit. 1803, 522, xiv, 9. [v. *Miliola*, *Biloculina*,
Lagena, *Miliolina*, *Quinqueloc.*, *Triloculina*.]
Fleming, Mem. Werner. Nat. Hist. Soc. iv, 1822, 565,
xv, 4d, e, f.
- **perforatum** (Walker & Boys). Montagu, Test. Brit. 1803, 519. [*Serpula*,
1784.]
- **perlucidum**, Montagu. Test. Brit. 1803, 525, xiv, 3. [v. *Lagena*.]
- **retortum** (Walker & Boys). Montagu, Test. Brit. 1803, 524. [*Serpula*,
1784.]
- **squamosum**, Montagu. Test. Brit. 1803, 526, xiv, 2. [v. *Entosolenia*,
E. globosa, and *Lagena*.]
- **striatum** (Walker & Boys). Montagu, Test. Brit. 1803, 523. [*Serpula*,
1784.]
- **subrotundum** (Walker & Boys). Montagu, Test. Brit. 1803, 521. [*Serpula*,
1784.] [v. *Miliola*, *Miliolina*, and *Quinqueloculina*.]
- [**subrotundatum**], [Mont.]. Fleming, Mem. Werner. Nat. Hist. Soc. iv,
1822, 565, xv, 5g, h, i.
- **urnæ**, Montagu. Test. Brit. 1803, 525, xiv, 1. [v. *Serpula*, and *Lagena*.]
= *Entosol. lineata*, Will. [Williamson] = ? ovary of a
Coralline [Jeffrey].
- Vermiculus saxis et lignis adhærens Cornu Hammonis referens**.
Plancus, De Conch. Min. 1739, also 1760, 17, pl. i, f. viii, *N, M, L*.
[= ? *Serpula*.]
- Verneolina**, Costa ; misprint for *Verneulina*.
- Verneueilina**, Williamson, 1848 ; misprint for *Verneulina*.
- VERNEUILINA**, d'Orbigny, 1840. Mém. Soc. géol. France, [1], iv, 1840, 39 ;
Brady, Report Challenger, 1884, 382.
- **bronni**, Reuss. Verstein. böhm. Kreide, 1845-46, I, 38, xii, 5.
- [**bronni**] ——— Reuss, Haidinger's Naturw. Abh. iv, Abth. 1, 1851, 40,
iv, 2.
- [**bronni**] ——— Bronn, Lethæa Geognostica, ed. 3, II, 1851-52, 88,
xxix¹, 15.
- **cognata**, Reuss. Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 448,
i, 1.
Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 26, pl.,
98.
- **communis** (d'Orb.). J., P., & B., Crag Foram., Pal. Soc. XIX, 1866,
n. d., iii, 19. [*Clavulina*, 1826.]
Vanden Broeck, Ann. Soc. belge Micros. II, 1876, 136,
iii, 14 ; and Fonds de la Mer, III (1876).
- **compressa**, Andree. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3,
1884, 199, viii, 23 [error for 2 and 3].
- **convexa**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, IX,
1875, 131, ii, 7.
- **cretacea**, Karrer. Jahrb. k. k. geol. Reichsanstalt, xx, 1870, 164, i, 1.
- **dubia**, Reuss. Haidinger's Naturw. Abh. iv, Abth. 1, 1851, 40, iv, 3.

- VERNEUILINA elongata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 106, xi (xix), 13a-c.
- **georgiæ**, Terquem. Cinq. Mém. Foram. Lias, 1866, 448, xviii, 19a, b.
- **liasina**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 64, v (xv), 15.
- **limbata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 105, xi (xix), 12a-c.
- **mauritiæ**, Terquem. Cinq. Mém. Foram. Lias, 1866, 448, xviii, 18a, b.
- **muensteri**, Reuss. Denkschr. k. Ak. Wiss. Wien, VII, Abth. 1, 1854, 71, xxvi, 5.
- **oberburgensis**, Freyer, MS. Reuss, Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 6, i, 2.
- **obtusa**, Terq. Mém. Soc. géol. France, [3], II, 1882, 106, xi (xix), 14 and 15.
- **polystropha**, Rss. Brady, Ann. Mag. Nat. Hist. [5], I, 1878, 436, xx, 9a-c. [*Bulimina*, 1845.]
- ——— Brady, Report Challenger, 1884, 386, xlvii, 15-17.
- ——— Wright, Proc. Belfast Nat. Field Club, 1884-85, App. IX, 1886, 320, xxvi, 2.
- ——— See *Text. agglutinans*, d'O.
- **propinqua**, Brady. Report Challenger, 1884, 387, xlvii, 8-14.
- **pygmæa** (Egger). Brady, Report Challenger, 1884, 385; xlvii, 4-7. [*Bulimina*, 1857.]
- ——— Macdonald, Ann. Mag. Nat. Hist. [2], XX, 1857, 193, vi, 22.
- **rotundata**, Karrer. In v. Drasche, Frag. Geol. Luzon, 1878, 85, v, 2; and Bol. Com. Map. Geol. Españ. VII, 1880, 266, E, 2.
- **spinosa**, Reuss. Models, No. 4, 1865 (Catal., No. 6, 1861).
- **spinosissima**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 263, xxiii, 5A, B, C.
- **spinulosa**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 374, xlvii, 12.
- ——— Egger, Neues Jahrbuch, 1857, 292, ix, 17 and 18.
- ——— Brady, Ann. Mag. Nat. Hist. [4], VI, 1870, 301, xii, 6a-c.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, XXXIII, 1880, 192, ii, 29.
- ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 107, xi (xix), 16a, b.
- ——— Brady, Report Challenger, 1884, 384, xlvii, 1-3.
- ——— Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 219, xlii, 14 and 15.
- **tokodensis**, Hantken. A magy. kir. földt. int. évkönyve, I, 1871, 128, ii, 12a, b, c; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, 134, same pl. and fig.
- ——— Hantken, Kohlenflötze, etc. ungar. Krone, 1878, 217, fig. 28. (Also in Magyar.)
- **tricarinata**, d'Orbigny. Mém. Soc. géol. France, [1], IV, 1840, 39, iv, 3 and 4; Facsimile in Science Gossip, 1870, 156, fig. 142.
- ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 670, xxiv, 65.
- ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 182, xxi, 26 and 27.
- ——— Mantell, Medals of Creation, ed. 2, 1854, 342, fig. 109, 3.
- ——— Eley, Geol. in the Garden, 1859, 200, vi, 37.
- ——— Sherborn & Chapman, Journ. R. Micr. Soc. [2], VI, 1886, 743, xiv, 9.
- **triquetra** (Münst.). Brady, Report Challenger, 1884, 383, xlvii, 18-20. [*Textularia*, 1838.]
- **variabilis**, Brady. Report Challenger, 1884, 385, xlvii, 21-24.

- VERNEUILINA.** Deshayes, Coq. Foss. Paris, 1824-1837, not descr., evi, 1-3.
 ——— Eley, Geol. in the Garden, 1859, 202, ix, 38 C.
 ——— Eley, Geol. in the Garden, 1859, 197, iv, 22 ; v, 31. [Flint cast.] [Referred to *V. tricarinata* on p. 200.]
 ——— sp. ind. Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 296, vi, 15.
 ——— Folin, Congrès Scient. Dax, 1882 (1883), 325, pl., f. 9. [Sarcode body.]
- Vernouilina,** Eley, 1859 ; misprint throughout his book for *Verneuilina*, q. v.
- VERTEBRALINA,** d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 283 ; Brady, Report Challenger, 1884, 186.
 ——— **cassis,** d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 51, vii, 14 and 15 ; also in Spanish, 1840, 72, same pl. and fig.
 ——— **conicoarticulata,** Batsch. Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 121, ix, 311-318. [*Nautilus*, 1798.]
 ——— **contracta,** Terquem. Mém. Soc. géol. France, [3], II, 1882, 45, ii (x), 19-22.
 ——— **elongata,** Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 155, iii, 10.
 ——— **foveolata,** Franzénau. Földtani Közlöny, XI, 1881, 49 and 101, iii, 19-21.
 ——— **insignis,** Brady. Report Challenger, 1884, 187, xii, 9-11.
 ——— **lævigata,** Terq. Mém. Soc. géol. France, [3], II, 1882, 44, ii (x), 15-18.
 ——— **mucronata,** d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 52, vii, 16-19 ; also in Spanish, 1840, 72, same pl. and fig.
 ——— ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 120, xxi, 18 and 19.
 ——— ——— Reuss' Models, No. 60, 1865 (Catal., No. 26, 1861).
 ——— ——— Zittel, Handbuch Palaeont. Abth. I, 1876, 78, fig. 12.
 ——— **niebuhrii,** Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 135.
 ——— **sarmatica,** Karrer. Abh. k. k. geol. Reichs. IX, 1877, 376, xvi, b, 12.
 ——— **striata,** d'Orbigny. Ann. Sci. Nat. VII, 1826, 283, No. 1.
 ——— ——— D'Orbigny, Modèles, No. 81, 1826.
 ——— ——— Williamson, Recent British Foram. 1858, 90, vii, 196a, b [error for 197 and 198].
 ——— ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 72, v, 17-25.
 ——— ——— P., J., & B. [d'O., Modèles, No. 81], Ann. Mag. Nat. Hist. [3], XVI, 1865, 32, i, 1.
 ——— ——— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 239, viii, 27.
 ——— ——— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 27, pl., 106.
 ——— ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 190, iv, 17.
 ——— ——— Jones, in Microgr. Dict. ed. 4, 1883, 806, xxiii, 10.
 ——— ——— Brady, Report Challenger, 1884, 187, xii, 14-16.
 ——— ——— Anon., Sci. News, 27 Ap. 1888, 389, fig. 6.
 ——— ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
 ——— ——— See *Lituus*.
 ——— (**Articulina**) **sulcata,** Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 9, i, 3-6.
 ——— Deshayes, Coq. Foss. Paris, 1824-37, not descr., pl. ciii, 35-39.
 ——— Parker, Trans. Micr. Soc. London, n. s. VI, 1858, 55.
 ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 190, iv, 18. [= *Articulina*, d'Orb.]
 ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 190, iv, 19. [= *Renulina*, Lam.]

- VIRGULINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 267; Brady, Report Challenger, 1884, 413.
- **hemprichii** (Ehr.). Jones, Catal. Foss. Foram. B. M. 1882, 88. [*Strophoconus*, 1854.]
- **hungarica**, Hantken. A magy. kir. földt. int. évkönyve, I, 1871, 129, ii, 15a, b; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, 135, same pl. and fig.
- **mustoni**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 254, xi, 4.
- **paradoxa** (Ehr.). Jones, Catal. Foss. Foram. B. M. 1882, 88. [v. *Vaginulina*.]
- **pauciloculata**, Brady. Report Challenger, 1884, 414, lii, 4 and 5.
- **pertusa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 362, ii, 16a, b.
- ——— Reuss' Models, No. 36, 1865 (Catal., No. 65, 1861).
- **punctata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 139, i, 35 and 36; also in Spanish, 1840, 133, same pl. and fig.
- ——— Morris, Lecture Geol. Croydon, [1876], 8, fig. 34.
- **reussii**, Geinitz. Reuss, Verstein. böhm. Kreide, 1845-46, i, 40, viii, 61.
- ——— Geinitz, Charakt. Schicht. Petref. sächs.-böhm. Kreidegeb. 1850, 70, xvii, 23.
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, LII, Abth. 1, 1865 (1866), 454, pl., 7.
- **schreibersiana**, Czjzek. Haidinger's Nat. Abh. II, 1848, 147, xiii, 18-21.
- ——— Egger, Neues Jahrbuch, 1857, 295, xii, 12-14.
- [**schreibersii**] ——— Macdonald, Ann. Mag. Nat. Hist. [2], xx, 1857, 193, vi, 23 and 24.
- [**schreibersana**] ——— Reuss, Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 96, iv, 4a, b, 5.
- [**schreibersi**] ——— Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 53, vii, 15; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 63, same pl. and fig.
- [**schreibersii**] ——— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 25, pl., 39.
- [**schreibersii**] ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, XXXIII, 1880, 196, ii, 38 and 39.
- [**aff. schreibersii**] ——— Schwager, Palaeontographica, XXX, 1883, Pal. Theil, 112, xxix (6), 12.
- ——— Brady, Report Challenger, 1884, 414, lii, 1-3.
- [**schreibersi**] ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 213, ix, 8 and 9.
- ——— Malagoli, Atti Soc. Nat. Modena (Rend.), [3], III, 1887, 108, i, 5.
- [**schreibersii**] ——— See *Bulim. presli*, Rss.
- **squamosa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 267, No. 1.
- ——— D'Orbigny, Modèles, No. 64, 1826.
- ——— Bronn, Lethaea Geognostica, ed. 2, 1837, 1134, xlii, 23.
- ——— Roemer, Neues Jahrbuch, 1838, 386, iii, 39.
- ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 681, xxiv, 78.
- ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 233, xlii, 23.
- ——— P., J., & B. [d'O., Modèles, No. 64], Ann. Mag. Nat. Hist. [3], xvi, 1865, 29, ii, 66.
- ——— See *Bulim. presli*, Rss.
- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
- **subdepressa**, Brady. Report Challenger, 1884, 416; lii, 14-17.
- **subsquamosa**, Egger. Neues Jahrbuch, 1857, 295, xii, 19-21.
- ——— Brady, Report Challenger, 1884, 415, lii, 7-11.

- VIRGULINA** *tegulata*, Reuss. Verstein. böhm. Kreide, 1845-46, i, 40, xiii, 81. [v. *Bolivina*.]
 ————— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 682, xxiv, 79.
 ————— Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 91, xxix¹, 23; xlii, 23.
 ————— *tenuis*, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 112, ii, 2 and 2a.
 ————— *texturata*, Brady. Report Challenger, 1884, 415, lii, 6a, b.
 ————— Pietet, Traité de Paléont. iv, 1846, 239, xii, 27.
- VORTICIALIS**, Lamarek, 1812. Extrait Cours Zool. 1812, 122; and Ency. Méthod., "Vers," III [1832], 1148.
 ————— *craticulata* (F. & M.). Defrance, Diet. Sci. Nat. xxxii, 1824, 181; Atlas, Conch. xv, 6. [= *Polystomella*.] [*Nautilus*, 1798.]
 ————— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 375, vii, 6.
 ————— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls. 1837), 18, iv bis, 6.
 ————— *depressa*, v. *strigilata* (F. & M.). Lamarck, Ency. Méthod., "Vers," III (1832), 1148 (pls. 1827), 470, f. 2 (P. & J. quote pt. 23, 1816). [*Nautilus*, 1798.]
 ————— *marginata* (F. & M.). Lamarck, Ency. Méthod., "Vers," III (1832), 1148 (pls. 1827), 470, f. 3 (P. & J. quote pt. 23, 1816). [*Nautilus*, 1798.]
 ————— Brown, Elem. Foss. Conch. 1843, not descr., iii, 9.
 ————— *strigilata* (F. & M.), v. *craticulata* (F. & M.). Lamarck, Ency. Méthod., "Vers," III (1832), 1148 (pls. 1827), 470, f. 1 (P. & J. quote pt. 23, 1816). [*Nautilus*, 1798.]
 ————— Crouch, Introd. Lamarck, 1827, 42, xx, 15. [= *Polystomella*.]
 ————— Brown, Conch. Text-book, 1839, 60, x, 9 [error for 10].
 ————— Dujardin, Hist. Nat. Zooph. Infusoires, 1841, 258, i, 15.
 ————— Brown, Elem. Foss. Conch. 1843, 22, ii, 9.
- VULVULINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 264.
 ————— *abrupta*, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 35, iv, Impressathon, 16. [= *Textularia*.]
 ————— *alata*, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 115, ii, 5 and 5a. [v. *Bolivina beyrichi*.]
 ————— *capreolus*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 264, No. 1, xi, 5, 6, 7, and 8. [v. *Bigenerina* and *Schizophora*.]
 ————— D'Orbigny, Modèles, No. 59, 1826.
 ————— Cuvier, Règne Animal, 1836-46, ix (pls. x), 34, xiv, 11.
 ————— P., J., & B. [d'O., Modèles, No. 59], Ann. Mag. Nat. Hist. [3], XVI, 1865, 28, ii, 63. [= *Grammost.* = *Vulvulina pennatula*, Batsch.]
 ————— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
 ————— *eichbergensis*, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 30, iii, 43 and 43a. [= *Textularia*.]
 ————— *elegans*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 264, No. 3. [v. *Grammostomum*.]
 ————— = *Grammost. elegans*, d'O.; see *Orthoceratia pupa*. [= *Bigenerina*.]
 ————— *farcimen*, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 30, iii, 41. [= a *Virgulina*.]
 ————— *gramen*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 148, i, 30 and 31; also in Spanish, 1840, 139, same pl. and fig. [v. *Grammostomum*.]
 ————— D'Orbigny, Foram. Fossiles Vienne, 1846, 251, xxi, 46 and 47.
 ————— Carpenter, Parker, & Jones, Introd. Foram. 1862, 190, xii, 15.

- VULVULINA** gramen, d'Orbigny. Reuss' Models, No. 85, 1865 (Catal., No. 78, 1861).
- Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 26, pl., 62.
- Jones, in Microgr. Dict. ed. 4, 1883, 815, xxiii, 49a, b.
- **minutissima**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 30, iii, 42. [= *Textularia*.]
- **oblonga**, Mackie. Science Gossip, 1867, 130, fig. 121. [= *Valvulina oblonga*, d'Orb.]
- **oolithica**, Deecke. Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 54, ii, 20.
- **pectinata**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 58, vii, 10; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 68, same pl. and fig.
- **pennatula** (Batsch). Jones, Catal. Foss. Foram. B. M. 1882, 88. [*Nautilus*, 1791.]
- **pupa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 264, No. 2. [v. *Grammostomum*.]
- = *Grammost. pupa* (d'O.) ; see *Orthoceratia pupa*.
- **soldani**, d'Orb. Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, 298, xxiii, 22 and 23.
- **subrhomboidalis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 140, vii, 17.
- **textilis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 141, vii, 18.
- WAGNERELLA**, von Mereschowsky. Mém. Ac. Imp. Sci. St. Pétersbourg, [7], xxvi, No. 7, 1878, 22; and Ann. Mag. Nat. Hist. [5], I, 1878, 70.
- **borealis**, v. Mereschowsky. Mém. Ac. Imp. Sci. St. Pétersbourg, [7], xxvi, No. 7, 1878, 22, ii, 1-5.
- Mereschowsky, Ann. Mag. Nat. Hist. [5], I, 1878, 76, vi, 1-6.
- WEBBINA**, d'Orbigny, 1839. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 125; Sollas, Geol. Mag. [2], IV, 1877, 102; Brady, Report Challenger, 1884, 348.
- **acervalis**, Brady. Mem. Geol. Surv. Scotland, Expl. Sheet 23, 1873, pp. 69, 95, etc. [v. also *Stacheia*.]
- **acuminata**, Terq. & Piet. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 457, vi, 17a, b.
- Terquem, Mém. Ac. Imp. Metz, LI, 1870, 374, xxix, 27-29.
- **breoni**, Terq. & Piet. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 458, vi, 18a-h.
- **clavata** (Jones & Parker). Brady, Report Challenger, 1884, 349, xli, 12-16. [*Trocham. irregularis clavata*, 1860.]
- Brady, Parker, & Jones, Trans. Zool. Soc. XII, pt. 7, 1888, 218, xlii, 21.
- **crassa**, Terq. & Piet. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 456, vi, 15a, b.
- Deecke, Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 17, i, 8.
- **fimbriata**, Howchin. Journ. R. Microsc. Soc. 1888, 538, viii, 8 and 9.
- **flagellum**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 375, xxix, 30.
- **hemisphærica**, Jones, Parker, & Brady. Crag Foram., Pal. Soc. XIX, 1866, 27, iv, 5.
- Brady, Report Challenger, 1884, 350, xli, 11.
- **impressa**, Terquem. Mém. Soc. géol. France, [3], IV, 1886, 17, i, 49.
- **incerta**, Terquem. Mém. Soc. géol. France, [3], IV, 1886, 17, i, 50.
- **infraoolithica**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 373, xxix, 19-26.
- Terquem, Mém. Soc. géol. France, [3], IV, 1886, 16, i, 43-48.

- WEBBINA irregularis**, d'Orbigny. Prodrôme de Paléont. II, 1850, 111, No. 783. [Cornuel's "Œufs de Molluscs," Mém. Soc. géol. France, 1848, pl. II, f. 37.] [v. *Trochammina*.]
 ————— Bronn, Lethæa Geognostica, ed. 3, II, 1851-52, 91, xxix¹, 27.
 ————— Brady, Proc. Somerset. Arch. and Nat. Hist. Soc. XIII, 1865-66 (1867), 221, i, 2, 3.
 ————— Sherborn, Proc. Bath N. H. Antiq. F. Club, VI, pt. 3, 1888, 332, fig.
 ————— Howchin, Journ. R. Microsc. Soc. 1888, 539, ix, 16 and 17.
 ————— **lævis**, Sollas. Geol. Mag., [2], IV, 1877, 103, VI, 1-3.
 ————— Vine, Proc. Yorkshire Geol. Polytech. Soc. n. s. IX, pt. 1, 1885 (1886), 26, II, 13.
 [**WEBBINA**] **lævigata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 187, XVI, 14.
 ————— **orbigny**, Terq. & Piet. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 458, VI, 19.
 ————— **rostrata** (Quenst.). Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [p. 25]. [*Bullopore*, 1858.]
 ————— **rugosa**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 126, i, 16-18. [v. *Nubecularia*.]
 ————— D'Orbigny, Foram. Fossiles Vienne, 1846, 74, XXI, 11 and 12.
 ————— Schwager, Boll. R. Com. geol. Ital. VIII, 1877, 26, pl., 84.
 ————— **scorpionis**, d'Orb. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 456, VI, 16a-c. [v. *Placopsilina*.]
 ————— **tuberculata**, Sollas. Geol. Mag. [2], IV, 1877, 104, VI, 4-9.
 ————— Vine, Proc. Yorkshire Geol. Polytech. Soc. n. s. IX, pt. 1, 1885 (1886), 26, II, 14.
 ————— Gabb & Horn, Journ. Ac. Nat. Sci. Philad. n. s. V, 1862, part II, 179, XXI, 71.
 ————— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1051, lxxxvi, 16. [= *Placopsilina*.]
 ————— see *Œufs*.
 ————— see *Trochammina*.
- WEBBINA**, Costa, 1856. See *Webbina*.

ADDITAMENTA ET CORRIGENDA.

- ALVEOLINA montipara**, Ehr. For xxxviii read xxxvii.
- AMMONIÆ**. Line 3 ; *T, V*, are near *Pulvinulina elegans*.
- AMMONICERINA**. For 51 read 15.
- AMPHISTEGINA lenticula** (Defr.). Jones, Catal. Foss. Foram. B. M. 1882, 50. [*v. Nummulites lenticularis*.]
- ANNULINA**. Line 3 ; for Pornemann read Bornemann.
- ANOMALINA polymorpha**. Costa's reference should read 7-9.
 ——— Williamson, 1848. Corrected to *Globigerina bulloides* in 1872.
- ARTICULINA arcuata**, Deshayes. Ency. Méth. (Vers), 1830, 75.
- ASSILINA placentula** (Desh.). Jones, Catal. Foss. Foram. B. M. 1882, 65.
 [*v. Nummulites*.]
- ATAXOPHRAGMIUM**. For suborale read subovale.
- BATHYBIOPSIS**. de Folin. Le Naturaliste, 1887, 103, figg. 1, 2, 3.
 ——— astrorhizoides, de Folin. Sous les Mers, 1887, 221, f. 22. [Here spelled *Bathybiopsis*.]
- BIFARINA**. Schwager refers to but does not figure this form.
- BILOCULINA amphiconica**. Reuss, 1867, in description of plate calls this, var. *platystoma*, and at p. 68, says that he had previously described it under specific name of *platystoma*.
 ——— *opposita*, Deshayes. Ency. Méth. (Vers), 1830, 138.
 ——— *seguenziana*, Forn. Transfer to *Lagena* ; entered here in error.
 ——— Carpenter. For 374 read 376.
- BIOMYXA**, Leidy, 1875. Proc. Ac. Nat. Sci. Philad. 1875, 123.
 ——— *vagans*, Leidy. *Ibidem*, 124 ; and Report U. S. Geol. Surv. Territ. XII, 1879, 281, xlvii, 5-12 ; xlviii.
- BOLIVINA beyrichi**. Terrigi, 1880, 198 describes figg. 43 and 45 as *v. carinata* ; Mariani, Atti Soc. Ital. Sci. xxxi, 1888, describes 102, xxxi, 3 as *v. lobata*.
 ——— *biformis*, Eley. Jones, Catal. Foss. Foram. B. M. 1882, 15.
 ——— *obsoleta*, Eley. Geol. in the Garden, 1859, 195, ii, 11 ; 202, viii, 11c.
 [*v. Textularia*.]
 ——— Jones, Catal. Foss. Foram. B. M. 1882, 15.
- BORELIS palæophus**. Should read *palæolophus*.
- BUCCININA**. In description of plate on p. 48, Costa calls this genus *Buccinulina*, and makes the specific names *afra* and *irregularis*.
- BULIMINA buliminoides** (Rss.). Jones, Catal. Foss. Foram. B. M. 1882, 78.
 [*v. Rotalia*.]
- CALCARINA atlantica**. Ehrenberg's description is obscure ; it may be he refers to pl. xxxv, *A*.
 ——— *rarispinga*, Deshayes. Ency. Méth. (Vers), 1830, 164.
- CAPSULINA**. Are not these pedicellariæ of echinoderms ?
- CEOPHONUS**, Bosc. Nouv. Dict. Sci. Nat. v, 1816, 491 ; founded on one of Fiehtel & Moll's forms, but which, is not stated.
- CLADOCERA manipulata** ?, Mich. Abich's figure (Mém. Ac. Imp. Sci. St. Pétersbourg, [6], VII, 1859, viii, 2c) seems to be a section of a *Spiroloculina*.

- CLAUSULUS.** Should come before *Clavulina*.
- CLAVULINA corrugata**, Deshayes. Ency. Méth. (Vers), 1830, 242.
 ——— *irregularis*, Deshayes. *Ibidem*.
- CORNUSPIRA archimedes.** Read *archimedis*.
- COSC NOSPIRA.** P. 47; should read **COSCINOSPIRA.**
- COSKINOLINA.** Is not figured by Schwager.
- CRISTELLARIA caleata.** Read *cælata*.
 ——— *elongata*, K. & Z. Altered to *turbinoides*, 1870.
 ——— *exserta*, Eichwald. Leth. Rossica (Moy. période), 1868, 184, xv, 9.
 ——— *fittoni*, Berthelin. Mém. Soc. géol. France, [3], 1, 1880, 49, replaces *C. levigata*, Reuss.
 ——— *forestii*, Fornasini. Boll. Soc. geol. Ital. iv, 1885, 113.
 ——— *hamiformis*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI (1), 1862 (1863), vii, 4. [Described also as *cephalotes*, q. v.]
 ——— *mermis*, Terq. Misprint by Terquem for *inermis*.
 ——— *osnaburgensis*. Should read *osnabrugensis*.
 ——— *recta*, d'Orb. Reuss, 1874, makes 2 var. *hamosa*.
 ——— *rotulata*. Schlumberger, Journ. Cincin. Soc. N. H. v, 1882, 119, v, 2, 2a.
 ——— ——— Jones, 1884; add fig. 7 (marginuline variety).
 ——— ——— P. 68; for Bronn, 1853, read Brown.
 ——— *squammula*. Add, Macgillivray, Conch. Text-book, 1845, 72, x, 25.
 ——— *tangentialis*, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865 (1866), 143.
 ——— *turgida*, Reuss. Should read *turgidula*.
 ——— *zittlei*, Schw. Should read *zitteli*.
 ——— sp. Schw. Is given as *Dentalina*, on p. 112 of Schwager's paper.
- CYCLAMMINA.** For note concerning other supposed species, see de Amicis, Nat. Sicill. xiv, 1895.
- CYCLOGYRA**, S. V. Wood. Ann. Mag. Nat. Hist. ix, 1842, 458, v, 5. [= *Cornuspira*.]
- DENDROPELA multiramosa**, de Folin. Le Naturaliste, 1887, 113, figg. 5 and 6.
 ——— *typicum*, de Folin. Sous les Mers, 1887, 159, fig.
- DENTALINA edelina.** See *Nodosaria*, infra.
 ——— *fortinensis*. Should read *fontinensis*.
- DILLINA**, Schlumberger. Comptes Rendus, xcvi, 1883, 862. [Nomen nudum.]
- DISCORBINA valvulata.** Brady; for lxxvii read lxxviii.
- FABULARIA discolites.** Bronn is author of specific name; add p. 43 to his reference.
- FLABELLINA baudouinana.** Spelled *baudouiniana* by d'Orbigny.
 ——— *rugosa*. Beudant; is *Frondicularia* in Millett's copy.
- FRONDICULARIA cordai.** Reuss makes var. *tribrachiata* on p. 108 of Verst. Böhm. Kreide, II.
 ——— *subovata*, Deshayes. Ency. Méth. (Vers), 1830, 146 (T*).
- FUSULINA verneuli.** Should read *verneuili*, and the reference is ii, 2a-g.
- FUSULINELLA struvii.** The plate should be ii; Möller is in error.
- GLANDULINA inflata.** Haeusler, 1887; for 179 read 189.
- GLOBIGERINA bulloides.** Williamson, 1858; as these forms are said to be arenaceous, they are probably *Haplophragmium globigeriniforme*.
 ——— ——— v. *rubra*. To Vanden Broeck's reference add fig. 7.
 ——— *glomerata*. In the French edition of Hoernes called *conglomerata*.
 ——— *omphaloletras*. Should read *omphalotetras*.
- GLOBULINA minima**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 344, xvii, 3.
 ——— *papillata*, Costa. Atti Acc. Pontan. VII (2), 1856, xviii, 2.
- GRAMMOSTOMUM convergens.** Fig. 26 is described as *divergens*.
 ——— *megaloglossum*. Is *megaglossum* in descript. of plate.
 ——— *polytheca*. For xxxiii read xxiii.

- GROMIA dujardini**, Schultze. Organ. Polyth. 1854, 55, vii, 1-7.
 ——— **fluviatilis**, Duj. Micro. Diet. ed. 2, 1860, 324, xxiv, 15.
 ——— **gracilis**. To Möbius, add p. 17.
 ——— **oviformis**. To Möbius, add p. 15.
- GYPSINA melobesioides**. Add at end [*v. Polytrema plana*].
- HELICITEN**. Add Schmidel, Fortg. zu Vorst. merkw. Verst. 1793, 32, xviii, xxi, and xxii.
- HETERILLINA**, Schlumberger. Comptes Rendus, xcvi, 1883, 862. [Nomen nudum.]
- HETEROSTEGINA papyracea**. Seguenza makes vii, 2, var. **gigantea**.
- HOLOCOCCLUS**. Delete 7-.
- HYBRIDINA obliqua**. Called *Vaginulina laxa*, 1870.
- HYMENOCYCLUS**. Add, **discus** (Rüt.), xv, 7; **fortisii** (d'A.), xv, 2; **ephippium** (Schl.), xv, 4; **patellaris** (Schl.), xv, 1; Eichwald, Leth. Rossica (Moy. période), 1868, 185, etc.
- LAGENA formosa foveolata**. Should read **LAGENA foveolata**.
 ——— **globosa**. Terrigi, 1889; for iii read 111.
 ——— **gracilicostata**, Reuss. Should read **gracilicosta**.
 ——— **gracilis**. Reuss, 1862; add at end, and v, 62.
 ——— **isabella**. Reuss' fig. 56 is described as var. *raricosta*, d'Orb.
 ——— **lævis**. Jones, 1884; for xi read xli.
 ——— **laticostata**, T. & B. Should read **laticosta**.
 ——— **pulchella**, Brady. Balkwill & Wright's is the trigonal form.
 ——— **reticulata** (Macgill.). Add Reuss before Sitz.
- LINGULINA**. Add **furcillata**, **rediviva**, and **stillula**, which have been inserted in error under *Lingulinopsis*.
- LINGULINOPSIS seguana**. Should read **sequana**.
 ——— See *Lingulina*, supra.
- LITUOLA**. Millett thinks Deshayes' figures (1837) are mainly *Haplophragmia* and *Penereptides*.
- LITUUS abbaticus**, Spalowsky. Testac. 1795, 9, i, 9.
- MARGINULINA affinis**, Neugeboren. Ver. Mitth. Siebenburg. Ver. Nat. II, 1851, 144.
 ——— **splendens**. Out of alphabetical order.
 ——— **tumida**. Reuss makes this *Cristellaria* in Denkschr. k. Ak. Wiss. Wien, xxiii, 1864, 138.
 ——— sp. Von Dunikowski; add fig. 78.
 ——— sp. Schwager; for 109 read 108.
 ——— sp. Williamson; ascribed in 1872 to *Vaginulina costata*.
- MELOSSIS**, Oken. Lehrbuch Naturg. III (1), 1815, 333. [Founded on *Nautilus pompilioides*, F. & M.]
- NODOSARIA annulata**. For ——— read Reuss.
 ——— **bitziana**. Should read **bilziana**; also for **bietziana** read **bielziana**.
 ——— **capitata**, v. **costata**. Should read **ecostata**.
 ——— **congrua**, Eichwald. Leth. Rossica (Moy. période), 1868, 171, xv, 17.
 ——— **conica**, v. **coarctata**. For 44 read 42.
 ——— **conspurcata**. Reuss, Denkschr.; this is corrected to *subcostulata* in Sitz. LXII, 1870, No. 41.
 ——— **edelina**. For 7 read 17; this is *Dentalina*.
 ——— **fortinensis**. Should read **fontinensis**.
 ——— **gigantea**, P. & M. This is not a foraminifer.
 ——— **globosa**, Eichwald. Leth. Rossica (Moy. période), 1868, n. d., xv, 16.
 ——— **granosa**, Eichwald. *Ibidem*, 172, xv, 19. [*punctata* in text.]
 ——— **hispida**. For Hartwig read Harting, and add fig. 37² to Schwartzkopf.
 ——— **javanica**. Add viii after vii.
 ——— **longisulcata**. Mackie's reference is an error for *longiscata*.
 ——— **monilis**. Add var. **gracilis**, Silvestri, p. 75.
 ——— **raphanus**, v. **coarctata**, Silvestri. This is a var. of *raphanistrum*.

- NODOSARIA rugosa.** Mackie's reference is an error for *semirugosa*.
 ——— *scalaris* (Batsch). Add to Brady; var. *separans*, 511, lxiv, 16–19.
 ——— *scalaris*, d'Orb. Add var. *nonglobosa*, Silvestri, p. 57.
 ——— *tenuicosta* [Reuss]. Eichwald, Leth. Rossica (Moy. période), 1868, 171, xv, 18.
 ——— sp. Wisnoski. Should read Wisniowski.
- NONIONINA compressa.** Roemer confuses two figures; this should be 34.
 ——— *germanica*. For Hartwig read Harting.
 ——— Millett makes the following notes: *bathyomphala* = *Ancmalina*; *compressa*, Roem., and *macromphalus* = *Cristellaria*; *heteropora* = *Polystomella*; *pelagica* = *Hastigerina*; *quadriloba*, *quaternaria*, and *subcarinata*, d'Orb. & Seg., all = *Pullenia*.
- NUMMULARIA comptoni** (J. Sow.). J. de C. Sowerby, Min. Conch. vi, 1826, 74 and 76. [*Nautilus*, 1816.]
- NUMMULITES tuberosus**, Eichwald. Leth. Rossica (Moy. période), 1868, 181.
 ——— De Roissy, in Buffon, Hist. Nat. (Sonnini's), Mollusques, v (an xiii), records the following: *depressa*, p. 56; *laevigata*, 55; *mamilla*, 57; *plana*, 56; *ovata*, 59; *radiata*, 58; *spira*, 57; var. *rugosa*, 58.
- PLANORBULINA haidingeri.** Brady, 1864; for ii read 11.
- PLANULARIA matutina.** Should be *Cristellaria*.
- PLANULINA osnabrugensis.** For 5–8 read 58.
- PLECTINA.** Marsson (p. 160) assigns to this genus *Gaudryina ruthenica*, Rss. but does not figure: *coste*; *cylindrica*; *nodosaria* (p. 226); *inflata*, *involvens* (227); *obtusa* (307).
- POLYMORPHINA confluens**, Eichwald. Leth. Rossica (Moy. période), 1868, 172.
- POLYSTOMELLA arctica.** Brady, Ann. Mag. [5], i, should be 1878.
- RAMULINA kittlii**, Rzehak. Verh. k. k. geol. Reichs. 1885, 187.
- RHABDOGONIUM.** For *globiferum* read *globuliferum*.
 ——— *szaboi*. Genus altered to *Clavulina* in 1875.
- ROBULINA comptoni.** Roemer confuses two figures; this should be 33.
 ——— *depauperata*. To Reuss, 1863, add 66, viii, 90a, b; and var. *callifera*, fig. 91.
 ——— *ferruginea*, Terq. Should be *Rotalina*.
 ——— *gravida*. Seguenza makes figg. b, c, var. *paucisepta*; d, e, var. *multisepta*; f, var. *discoidea*; and a fourth variety he calls *anormalis*.
 ——— *inornata*. Egger, 1857; for xiv read xv.
- ROSALINA foveolata.** iv, μ , is Ehrenberg's error; should be vi, μ .
- ROTALIA perforata.** Ehrenberg, 1854; for xxxviii read xxvii.
- ROTALINA ferruginea**, Terquem. Bull. Soc. géol. France, [3], iv, 1876, 496, xvii, 11.
 ——— *inflata*, Terq. The 1875 and 1881 forms differ; in the "Tableau" and "Explic. planche," Terquem alters the 1881 form to *utriculata*.
 ——— *meliniana*. Eley, Geol. Garden, 1859, 198, v, 27. [*meliniana*.]
 ——— *nitida*. *Ibidem*, 198, v, 24–26.
- SPHÆROIDINA variabilis.** Reuss, 1863, calls this "var. *conica*."
- SPIRILLINA latiseptata.** Williamson does not name this in 1848, but in 1872 he refers it to *S. perforata*.
 ——— *margaritifera*. Halkyard, Trans. Manchester Micr. Soc. 1889, 71, ii, 7.
- SPIROLOCULINA canaliculata.** Costa; for 98, 10 read 9, 10; Vine, for 52 read 53.
 ——— *nitida*. Terquem, 1882; for 6a, b read 16a, b.
- SPIROPLECTA americana.** First line, for 35 read 25.
 ——— *rosula*. For 36 read 26.
- STREBLUS tortuosus.** Prof. Rupert Jones points out that this specific name is d'Orbigny; see *Turbinulina tortuosa*, Ann. Sci. Nat. vii, 1826, 275. Fischer used the word to define the generic name.

- TEXTULARIA agglutinans**, v. **porrecta**, Brady. Report Challenger, 1884, 364, xliii, 4.
 ——— **carinata**, d'Orb. 1826, for 13 read 23.
 ——— **flexuosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 91. [*T. articulata*, 1851.]
 ——— **inflata**, Ehr. Mikogeol. 1854, xxxii, ii, 13. (Remove from *globulosa* in "Index.")
 ——— **laminaris**, Costa. 1856, add fig. 17.
 ——— **minuta**, Berthelin. Mém. Soc. géol. France, [3], i, 26. (Replaces *pygmæa*, Reuss.)
 ——— **obtusa**, varr. **inflata** and **maorica**. Stache, 1864, so named in expl. to plate, but in text they appear as *antipodum* and *robusta*.
 ——— **pristis**, Costa. Atti Accad. Pontan. VII, fas. 2, 1856, 292.
 ——— **striata**, Ehr. Mikogeol. 1854, xxviii; fig. 7 is described as *dilatata*.
 ——— Williamson, 1848. Altered to *Bolivina punctata* in 1872.
 ——— Chinum, 1870. Is named *variabilis*.
- UVIGERINA**. Brady, Challenger, 1884, 573, 575, lxxiv, 24–26, describes a variety intermediate between *pygmæa* and *aculeata*.
- VAGINULINA badenensis**, Costa, 1856. Also described as *Marginulina inversa*, q. v.
 ——— **elongata**, Roemer, 1841. Figure should be 13.
 ——— **harpa**, Roemer, 1841. Figure should be 12.
- VALVULINA subrhombica**, Stache. Denkschr. k. Ak. Wiss. Wien, XLVI, 1883, 408, vii, 31.
- VERTEBRALINA**, Deshayes, 1824–37. These are apparently *Articulina nitida*.
- VIRGULINA schreibersii**, Schwager, 1883. 12 is Schwager's error for 10.

The following nomina nuda were given to Von Schlicht's specimens from Pietzpuhl, by Reuss in "Zeitschr. deutsch. geol. Ges." x, 1858, pp. 433–438: —

Cornuspira cassis; *polygyra*.

Dentalina anomala; *bennigseni*; *declivis*; *fusiformis*; *grandis*; *indifferens*; *inflexa*; *isotoma*; *laxa*; *leptosoma*; *nutans*; *obtusa*; *scolax*; *soror*; *subcostulata*; *xiphidium*.

Fissurina acuta; *angustimargo*; *mucronata*; *oblonga*.

Glandulina æqualis; *armata*; *amphioxys*; *bipartita*; *dolichocentra*; *elliptica*; *globulus*; *gracilis*; *obtusata*; *obtusissima*; *strobilis*; *suturalis*.

Lagena amphora; *angustissima*; *centrophora*; *coronulata*; *decrescens*; *elliptica*; *emaciata*; *frumentum*; *globosa*; *gracilicosta*; *lepida*; *mucronulata*; *oxystoma*; *punctigera*; *reticulosa*; *siphonifera*; *tubulifera*.

Marginulina acuarua; *crassiuscula*; *fallax*; *mucronulata*.

Nodosaria anomala; *baetridium*; *bornemanni*; *calomorpha*; *dacrydium*; *ewaldi*; *inconspicua*; *isomera*; *isopleura*; *pedunculata*; *sceptrum*; *schlichti*; *tubulosa*.

Psecadium elongatum.

[In studying Von Schlicht's paper attention should be given to Reuss' second publication on this correction (Sitz. k. Ak. Wiss. Wien, lxii, 1870), in which he re-names and confuses numerous forms. The paper is also full of error and misquotation.]

The following forms are described and illustrated in R. Hæusler's "Microgeologische Untersuchungen der jurassischen Sedimentärgesteine. I Theil. Die microscopischen Structurverhältnisse der Aargauer Jurakalke, mit besonderer Berücksichtigung ihrer Foraminiferenfauna." (Als Dissertation gedrückt.) 8vo, Brugg, 1881, 47 pp. 2 pls.¹ I give the full list of new names for reference. The plates are very bad, — it is difficult to see the utility of publishing such caricatures, — and from the numerous corrections by the author in the copy before me, the book might well have been left in oblivion.

Cornuspira minima, p. 26; *sinemurensis*, 15.

Cristellaria birmenstorffensis, 27; *complanata*, 26; *difformis*, 27; *helvetojurassica*, 17; *irregularis*, 17; *pusilla*, 18; *pygmæa*, 26; *reniformis*, 27; *sinemurensis*, 17; *vocetica*, 38.

¹ Seen too late for insertion in proper order.

- Dentalina corniformis*, 35; *helvetica*, 34; *multiformis*, 35; *sexcamerata*, 35.
Fronicularia bucklandi, 18; *decipiens*, 27; *lanceolata*, 18; *liassica*, 18; *monilifera*, 27;
problematica, 18; *pupiformis*, 18; *robusta*, 27.
Globigerina helveto-jurassica, 36.
Lagenulina liassica, 16; *pupoides*, 16; *sercostata*, 16.
Marginalina dentalina, 17.
Nodosaria chrysalis, 34; *simplex*, 17; *sinemuriensis*, 16; *transversarii*, 34.
Orbulina argoviensis, 36.
Placopsilina argoviensis, 34; *bathoniana*, 26.
Robulina liassica, 19.
Rotulina maclurea, 37; *macrocephala*, 40; *mayeri*, 37; *peregrina*, 37; *pygmaea*, 40; *sulcifera*,
40; *supra-jurensis*, 38; *universa*, 28.
Textilaria argoviensis, 36; *auensteinensis*, 40; *oolitica*, 28; *shrubslei*, 35; *simplex*, 28;
tenuissima, 40; *triangularis*, 38.
Vaginulina fragilis, 16.

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