

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

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AN INDEX

TO THE

GENERA AND SPECIES

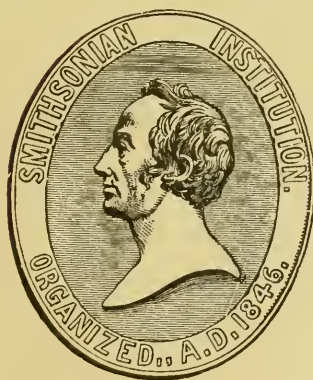
OF THE

FORAMINIFERA

BY

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PART I. A TO NON.



CITY OF WASHINGTON.

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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.

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OCTOBER, 1893.

AN INDEX
TO THE
GENERA AND SPECIES
OF THE
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, lxxxv, 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 Pamietnik 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.

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- 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.
 ——— *lævigata*, 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 lævia*," 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, lxxxviii, 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.
- ÆOLIDES** *squammatum*, Montfort. Conch. syst. 1, 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. variecostata*, 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, xlii (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, xlvi, 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. Spezialkarte 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^b, & 14.
 ———— [**bosei**], [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**], ———— Gumbel, Geol. Bayern, I (2), 1885, f. 266¹².
 ———— Quenstedt, Handbuch Petref. ed. 3, v (1885), 1057, lxxxvi, 46.
 ———— [**bosci**], [d'Orb.] Fritel, Foss. caract. terr. sédim. (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, Prodrome de Paléont. II, 1850, 210, No. 357. [v. *Lovazina*.]
 ———— **costulata**, Eichwald. Lethæa Rossica, III, 1853, 8, 1, 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. sédim. (tert.) 1886, vii, 56.
 ———— **eximia**, Terquem. Mém. Soc. Géol. France [3], II, 1882, 51, II, (x), 32.
 ———— **fortisii**, Massolongo. Schizzo vallé Prognò, 1850, 19, no fig.

- ALVEOLINA frumentiformis**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 100, xxv (2), 4*a-z*.
- **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 spherica* and *M. sphaeroides*.
- **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.]. Gümbel, 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. II, 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.
- **quoyi**, 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. Paléont. 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 spheroides**, (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 spheroides 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**, Leymerie. Mém. Soc. Géol. France [2], i, 1844, 359, xiii, 9abc.
- v. **globosa**. *Ibid.* [2], i, 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. Ak. Wiss. Wien, XLIV (1), 1861 (1862), 365; Brady, Report Challenger, 1884, 329.
- **charoides** (Jones & Parker)
- ? —— (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], i, 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, xvja, 2.
- **pellucidus**, Andrae. 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, 15a,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.
- Þ ———— Bornemann, Jahrb. k. pr. geol. Landesanstalt, 1885 (1886), viii, 1a.
- AMMONIA unita et proportionata minima**, &c., Gualtieri. Index Test. Conchyl. 1742, Tab. xix, H. I. [= "*N. Beccarii* Linn. 1162."] **AMMONIA**, see Corno d'Ammon.
- 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, 280, i].
- **microscopiceæ-margaritaceæ**, &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, 280, 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* [= *Asterigerina planorbis*, D'O. For. Foss. Vienne, 1846, 205, xi, 1-3].
- **univolutæ**, Soldani. Sagg. Oritt. 1780, 103, iii, 22, *I, I* [= *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, 9a,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 *Tab.* 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**, Reusch, 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, xxxv*, 40a-d.
- [*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, xxxv*, 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 t.
- 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. Palæont. 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.
- **quoii**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 304, No. 1 [see *A. lessonii*].
- [quoyii], ——— Smedley, Ency. Metrop. 1845, undescr. pl. "Mollusca?" 35 and 36.
- [quoyii], ——— 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 Histiologicæ, 1864, 32 [structural].

- AMPHISTEGINA** (Section of shell-wall, showing parietal canals). Williamson, 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.
- **cylindracea**, 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.
- **lyellii**, Seguenza. Foram. monotal. miocen. Messina, 1862, 52, i, 40 [*lyellii*, 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. Borbon. iv, 1839, 186 [v. *Amygdalina*].
- **calabra**, Costa. *Ibid.*, iv, 1839, 186 [no figure].
- ANDROMEDES**, Montfort, 1808. Conch. syst. i, 1808, 39, 10th Genre [= *Poly stom. strigillata*].
- ANNULINA**, Terquem, 1862. Mém. Ac. Imp. Metz, xlii, 1862, 432.
- **metensis**, Terquem. *Ibid.* xlii, 1862, 433, v, 6a, 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-Expéd., Geol. II, 1866, 260, vii, 108 and f. 4.
- **complanata**, Reuss. Haidinger's Naturw. Abh. IV, (1) 1851, 36, iii, 3 [v. *Planorbulina*].
- (?) ——— 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. H. [2], XIX, 1857, 294, x, 15 and 16 [v. *Truncatulina*, *Pulvinulina* and *Planorbulina fureta*, var.].
- ——— Brady, Trans. Linnean Soc. XXIV, 1864, 469, xlviii, 13.
- ——— Anon., Science Gossip, 1870, 11, f. 23.
- ——— Brady, Report Challenger, 1884, 675, xcvi, 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.
- **elliptica**, v. Münster. In Roemer, Neues Jahrbuch, 1838, 391, iii, 60.
- **explanata**, Costa. Atti Accad. Pontaniana, VII (2), 1856, 252, x, 10; xiv, 4, A. B. C.
- **foveolata**, Brady. Report Challenger, 1884, 674, xciv, 1 a, b, c.
- **gibbosa**, Terquem. Mém. Soc. Géol. France, [3], I, 1878, 24, ii, (vii), 7a-c.
- **grosserugosa** (Gümb.). Brady, Report Challenger, 1884, 673, xciv, 4, 5. [*Truncatulina*, 1868].
- ——— Sherborn & Chapman. Journ. R. Micr. Soc. 1889, 487, xi, 34.
- **hemisphærica**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 32, iv, 6 a, b, c (and Mém. Soc. Dunkerquoise).
- **hybrida**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 96, x (xviii), 6a-c.
- **inflata**, Terquem. *Ibid.* [3], I, 1878, 23, ii (vii), 6a-c.
- **insecta**, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 128, xxviii, (5), 1a-d; 2a-c.
- **intermedia**, Berthelin. Mém. Soc. Géol. France, [3], I, 1880, 67, iv, (xxvii), 14a-c.
- **irregularis**, Terquem. Bull. Soc. Zool. France, XI, 1886, 333, xi, 14, 15 and 16.
- **lævis**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], VI, 1846, 198.
- **limbata**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 32, iv, 7a, b, c (and Mém. Soc. Dunkerquoise).
- **moniliformis**, Rss. See *Rosalina*.
- **nautiloides**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 282, No. 5.
- **nodulosa**, Terquem. Ess. Anim. Plage Dunkerque, (1), 1875, 33, iv, 10a, b (and Mém. Soc. Dunkerquoise).
- **orbicularis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 282, No. 3.
- **obscura**, Terq. Mém. Soc. Géol. France, [3], II, 1882, 96, x (xviii), 7a-c.
- **obtenebrata**, Frazenau. Math. termész. értesítő, VII, 1889, 266, v, 5.
- **polymorpha**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 252, xxi, 7 and 9.
- ——— Brady, Report Challenger, 1884, 676, xcvi, 3-7.
- **punctulata**, d'Orb. Ann. Sci. Nat. VII, 1826, 282, No. 1, xv [vi in text by error], 1-3.
- ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 201, f. xxxii, c.
- **romulea**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], VI, 1846, 198.
- **rotula**, d'Orbigny. Foram. Fossiles Vienne, 1846, 172, x, 10-12 [v. *Planorbulina*].
- ——— See *Anmonie foliaceæ*.
- **rudis** (Rss.). Berthelin, Mém. Soc. Géol. France, [3], I, 1880, 68, iv (xxvii), 15 a-c [*Rosalina*, 1862].

- ANOMALINA scrobiculata**, Schwager. *Palæontographica*, xxx, 1883, Pal. Theil, 129, xxix, (6), 18 *a-d*.
- scutellata**, Terquem. *Ess. Anim. Plage Dunkerque*, (1), 1875, 33, iv, 9 *a, b, c* (and *Mém. Soc. Dunkerquoise*).
- **simplex**, Terquem. *Ibid.* (1), 1875, 33, iv, 8 *a, b* (and *Mém. Soc. Dunkerquoise*).
- **subæqualis**, Reuss. *Sitz. Ak. k. Wiss. Wien*, xviii, 1856, 244, v, 59.
- **suessi**, Karrer. *Ibid.* xliv (i), 1861 (1862), 447, ii, 2.
- **tenuissima**, Reuss. *Ibid.* xviii, 1856, 244, v, 60.
- **truncata**, Terq. *Mém. Soc. Géol. France*, [3], ii, 1882, 96, x (xviii), 8*a-c*.
- **tuberculata**, Terq. *Ess. Anim. Plage Dunkerque*, (1), 1875, 33, iv, 11 *a, b, c* (and *Mém. Soc. Dunkerquoise*).
- **variolata**, d'Orbigny. *Foram. Fossiles Vienne*, 1846, 170, ix, 27-29.
- ——— Bronn, *Klassen, Ordn. Thier-Reichs*, i, 1859, 70, vi, 8*a, b, c*.
- ——— Bütschli in Bronn, *Klassen, etc., Thier-Reichs*, 1880, 207, viii, 8.
- **v. evoluta**, Walther. *Mitth. Zool. Stat. Neapel*, viii, 1888, 382, xx, 3.
- **wullerstorffi**, Schwager. *Novara-Exped., Geol.* ii, 1866, 258, vii, 105 and 107 [*v. Truncatulina*].
- sp. Sherborn & Chapman. *Journ. R. Micr. Soc.* [2], vi, 1886, 757 [fig. in text, No. 156].
- Sander Rang. *Manuel Hist. Nat. Mollusques*, 1829, 107, i, 6.
- Williamson. *Mem. Lit. Phil. Soc. Manchester*, [2], viii, 1848, 75, pl., 59.
- v. Schlicht, "Foram. Septar. Pietzpuhl." 1870, xxi, xxii.
- sp., K. Miller. *Schr. Ver. Gesch. Bodensee*, vii, 1877 [78], iv, 29 [cast or concretion?].
- ANONIALINA**, Terquem, 1875. Misprint for *Anomalina*.
- ANTALEN**, see **DENTALEN**.
- ANTENOR diaphaneus**, Montfort. *Conch. syst.* i, 1808, 71, 18th Genre [= *Crist. calcar*].
- APHROSINA**, Carter, 1879. *Journ. R. Micr. Soc.* ii, 1879, 500.
- **informis**, Carter. *Ibid.* ii, 1879, 500, xvii*a*. 5-11.
- APIOPTERINA**, Zborzewski, 1834. *Nouveaux Mém. Soc. Imp. Nat. Moscou*, iii, 1834, 311.
- **d'orbigni**, Zborz. *Ibid.* iii, 1834, 311, xxviii, 2*b* [*v. Polymorphina*].
- ARCHÆDISCUS**, Brady, 1873. *Annals and Mag. Nat. Hist.* [4], xii, 1873, 286.
- **gallicus**, Meunier. *Bull. Soc. Hist. Nat. Autun*, i, 1888, 236, vii, 7.
- **karrereri**, Brady. *Ann. Mag. Nat. Hist.* [4], xii, 1873, 286, xi, 1-6.
- ——— Brady, *Carbonif. Foram., Pal. Soc.* xxx, 1876, 142, xi, 1-6.
- ——— Schwager, *Boll. R. Com. Geol. Ital.* viii, 1877, 26, pl., 44.
- ——— Nicholson, *Manuel Paléont.* 1879, i, 118, f. 18, r.
- ——— Möller, *Mém. Ac. Imp. Sci. St. Petersburg*, [7], xxvii, No. 5, 1879, 77, ii, 5; vii, 4 and 5.
- ——— Bütschli in Bronn, *Klassen, etc., Thier-Reichs*, 1880, 209, ix, 13.
- ARCHÆLAGENA**, Howchin, 1888. *Journ. R. Micros. Soc.* 1888, 539.
- **howchiniana**, (Brady). *Ibid.* 1888, 540, ix, 18 [*Lagena*, 1876].
- ARCHÆOSPHERINÆ**, Dawson, 1876. *Proc. Amer. Assoc.*, 1876 (Detroit), 101, f. 3.
- ARCHAIAS spirans**, Montfort. *Conch. syst.* i, 1808, 191. 48th Genre [= *Orbic. adunca*, *v. angulata*].
- ARCHIACINA**, Munier-Chalmas, 1878. *Bull. Soc. Géol. France*, [3], vii, 1879, p. 445.
- **armorica** (d'Arch.). *Ibid.* [*Cyclolina*, 1868.].
- **munieri**, Schlumb. *F. Jeun. Nat.*, July, 1883, 107, iii, 2, 2*a*.
- "ARENACEOUS FORAMINIFER,"** Parfitt. *Annals and Mag. Nat. Hist.* [4], vii, 1871, 158, xi, 9-12 [= ?; from Carbonif. Devonshire].
- ARENISTELLA agglutinans**, P. Fischer. *Les fonds de la Mer*, ii, 1875, 27 and 51 ["de petits corps stelliformes, agglutinant le sable et les foraminifères, et rattachant l'*Orbitolites stellata*"].
- ARETHUSA**, Montfort, 1808.
- **corymbosa**, Montf. *Conch. syst.* i, 1808, 303, 76th Genre [= *Polym. lactea*].

- ARETHUSA lactea**, Thorpe. Brit. Mar. Conch. 1844, 233 [= *Polymorphina*].
“ARGONAUTES microscopiques” de Soldani. De Montfort, in Buffons’
 Hist. Nat. Mollusq., Sonnini’s-ed., iv, 1802, 1, etc., xlii, 1-5.
- ARISTEROPORA**, Ehrenberg, 1858. Monatsber. k. pr. Ak. wiss. Berlin, 1858, 11.
 ——— *græca*, Ehrenb. *Ibid.* 1858, 14.
 ——— *micropora*, Ehrenb. *Ibid.* 1858, 14.
 ——— *pelagica*, Ehrenb. *Ibid.* 1872, 277.
 ——— *platytetras*, Ehrenb. *Ibid.* 1872, 277.
 ——— *stichopora*, Ehrenb. *Ibid.* 1858, 14 [= “*Porospira* 1854”].
- ARISTEROSPIRA**, Ehrenb. 1858. *Ibid.*, 1858, 11.
 ——— *alloderma*, Ehrenb. *Ibid.* 1858, 15.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), ind., xi, 12.
- ♀ ——— *alma*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 15.
 ——— *amathiæ*, Ehrenb. *Ibid.* 1858, 15.
 ——— *angustior*, Ehrenb. Abh. k. Ak. Wiss. Berlin, 1872 (1873), n.d., xii, 8.
 ——— *bacheana*, Ehrenb. Monatsber. k. preuss. Ak. Wiss. Berlin, 1861, 302.
 ——— *bacheiana*, Ehrenb. Abh. k. Ak. Wiss. Berlin, 1872 (1873), n.d., v, 15.
 ——— *baileyi*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 302.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), n.d., v, 6.
 ——— *bakuana*, Ehrenb. *Ibid.* 1872 (1873), n.d., xii, 3.
 ——— *borealis*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 278.
 ——— ——— E. in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii,
 n.d., i, 1.
 ——— *buphthalma*, Ehrenb. Abh. k. Ak. Wiss. Berlin, 1872 (1873), n.d., xii, 5.
 ——— *corticosa*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1862, 302.
 ——— ——— E. in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii,
 n.d., i, 14.
 ——— *crassa*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 278.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), n.d., iii, 9.
 ——— *cucullaris*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 278.
 ——— ——— E. in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii,
 n.d., i, 10 and 11.
 ——— *derbentensis*, Ehrenb. Abh. k. Ak. Wiss. Berlin, 1872 (1873), n.d., xii, 4.
 ——— *discus*, Ehrenb. Monatsbericht Ak. preuss. k. Wiss. Berlin, 1861, 302.
 ——— ——— E. in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii,
 n.d., i, 8 and 9.
 ——— *globigerina*, Ehrenb. Monatsber., 1863, 386 [= *Polydextia globig.*, see
 Monatsber. k. preuss. Ak. Wiss. Berlin, 1872, 279].
- ♀ ——— *globularia*, Ehrenb. Monatsbericht Ak. preuss. k. Wiss. Berlin, 1858, 16.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, ii.
 ——— *glomerata*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861,
 303.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 5 (cf. *Rotalia*,
 1854).
 ——— *heteropora*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872,
 279.
 ——— *holoplea*, Ehrenb. *Ibid.* 1858, 16.
 ——— *integra*, Ehrenb. Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 13.
 ——— *isoderma*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1838, 16.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 9.
 ——— *lævigata*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 16.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 10.
 ——— *lepida*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 279.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 5.
 ——— *liopentas*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 303.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 1 (cf.
Planulina, 1854).
 ——— *major*, Ehrenb. *Ibid.* 1872 (1873), xii, 2.
 ——— *mauryana*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 303.
 ——— ——— Ehr., Abh. k. Ak. k. Wiss. Berlin, 1872 (1873), v, 5.
 ——— *mediterranea*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin,
 1858, 17.
 ——— *megastoma*, Ehrenb. *Ibid.* 1863, 386 [= *Pylodextia megastoma*, v. Mon-
 atsber. k. pr. Ak. Wiss. Berlin, 1872, 279].

- ARISTEROSPIRA** *melo*, Ehrenb. *Ibid.* 1858, 16.
 ——— *menipeæ*, Ehrenb. *Ibid.* 1858, 17.
 ——— *microstigma*, Ehrenb. *Ibid.* 1872, 279.
 ——— *microtetras*, Ehrenb. *Ibid.* 1861, 303.
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 2.
 ——— *nidulus*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 279.
 ——— *octarchæa*, Ehrenb. *Ibid.* 1858, 310 and 337, i, xii, [Glauconite] [? Rotaline].
 ——— *omphalotetras*, Ehrenb. *Ibid.* 1872, 279.
 ——— ——— Ehr., Abh. Ak. k. Wiss. Berlin, 1872 (1873), iii, 15.
 ——— *pachyderma*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 303 [v. *Globigerina*].
 ——— ——— Ehr., Abh. Ak. k. Wiss. Berlin, 1872 (1873), i, 4.
 ——— *phanerostomum*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 280.
 ——— *platypora*, Ehrenb. *Ibid.* 1858, 17.
 ——— ——— Ehr., Abh. Ak. k. Wiss. Berlin, 1872 (1873), xi, 20.
 ——— *polysphæra*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 280.
 ——— *porosa*, cf. *Planulina porosa*, Ehrenb. *Ibid.* 1861, 303.
 ——— ——— Ehr., Abh. Ak. k. Wiss. Berlin, 1872 (1873), i, 3 [cf. *Planulina* and *Copopleura ocellata*, 1854].
 ——— *schaffneri*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 278.
 ——— ——— Ehr., Abh. Ak. k. Wiss. Berlin, 1872 (1873), iv, 16.
 ——— *scutata*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 303 [= "*Planulina*," Ehrenberg].
 ——— ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 14.
 ——— *sparsa*, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 17.
 ——— *tremalophæna*, Ehrenb. *Ibid.* 1858, 17.
 ——— *undulata*, Ehrenb. *Ibid.* 1858, 18.
- ARTICULINA**, Giebel, 1852. Misprint for *Articulina*.
ARTICULINA, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 300. Brady, Report Challenger, 1884, 182.
 ——— *compressa*, Reuss. Neues Jahrbuch, 1853, 673, ix, 3a,b.
 ——— *conico-articulata* (Batsch). Brady, Report Challenger, 1884, 185, xii, 17, 18; xiii, 1, 2 (*Nautilus*, 1791).
 ——— ——— Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 216, xl, 7-9.
 ——— *funalis*, Brady. Report Challenger, 1884, 185, xiii, 6-11.
 ——— var. *inornata*, ——— *Ibid.* 1884, 186, xiii, 3-5.
 ——— *gibberula*, Jones. See *gibbosula*.
 ——— *gibbosula*, d'Orbigny. Foram. Fossiles Vienne, 1846, 282, xx, 16-18.
 ——— ——— Pictet, Traité de Paléont. cd. 2, iv, 1857, 525, cix, 45.
 ——— ——— Terquem, Mém. Soc. Géol. France, [3], ii, 1882, 151, xv (xxiii), 25, 26.
 ——— [*gibberula*], Jones, in Microgr. Dict. ed. 4, 1883, 76, xxiii, 9a,b.
 ——— *lævigata*, Terquem. Mém. Soc. Géol. France, [3], ii, 1882, 151, xv (xxiii), 27-31.
 ——— *lineata*, Brady. Report Challenger, 1884, 183, xii, 19-21.
 ——— *multilocularis*, Brady, Parker, & Jones. Trans. Zool. Soc. xii, (7), 1888, 215, xl, 10.
 ——— *nitida*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 300, No. 1.
 ——— ——— Modèles, 1826, No. 22.
 ——— ——— Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-43, 10, iii, 8 and 9.
 ——— ——— Cuvier, Animal Kingdom, Henderson's ed. iii, 1834 (pls., 1837), 19, vi, 8.
 ——— ——— Bronn, Lethæa Geognostica, ed. 2, 1837, 1145, xlii, 29a, b.
 ——— ——— Reuss in Geinitz, Grundr. Verstein. 1845-46, 684, xxiv, 90.
 ——— ——— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 247, xlii, 29 a b.
 ——— ——— P. J. & B. [d'O., Modèles, 22], Ann. Mag. Nat. Hist. [3], xvi, 1865, 22, i, 2 [= *A. conico-articulata*].

- ARTICULINA nitida**, d'Orbigny. Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 27, pl., 107.
 ——— Terquem, Mém. Soc. Géol. France, [3], II, 1882, 150, xv, (xxiii) 22-24.
 ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 163, f.
 ——— **sagra**, d'Orb. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 183, ix, 23-26; also in Spanish, 1840, 160, same pl. and f.
 ——— Brady, Report Challenger, 1884, 184, xii, 22-24.
 ——— **sulcata**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 383, xlix, 13-17.
 ——— Brady, Report Challenger, 1884, 183, xii, 12, 13.
 ——— Brady, Parker, & Jones, Trans. Zool. Soc. xii, (7), 1888, 215, xl, 11.
 ——— Wetherell, Trans. Geol. Soc. Lond. [2], v, 1834 (1840), 135, ix, 8-10 [8 = *Nod. badenensis*; 9 = *N. affinis*; 10 = *N. raphanus*].
 ——— Pictet, Traité de Paléont. iv, 1846, 243, xii, 32.
 ? ——— Wisnioskí, Jahrb. k. k. Geol. Reichs. xxxviii, (1889), 694, xiii, 62.
- ASCHEMONELLA**, Brady, 1879. Q. Journ. Micr. Sci. xix, 1879, 44; Report Challenger, 1884, 271.
 ——— **catenata** (Norman). *Ibid.* 1884, 271, xxvii, 1-11; xxvii, A, 1-3 [*Astro-rhiza*, 1876].
 ——— **ramuliformis**, Brady. *Ibid.* 1884, 273, xxvii, 12-15.
 ——— **scabra**, Brady. Q. Journ. Micr. Sci. xix, 1879, 44, iii, 6, 7.
- ASKOPSIS**, de Folin, 1881. Bull. Soc. N. H. Toulouse, xv, 1881, 138; not described; 1 sp. proposed.
- ASPIDODEXIA**, Ehrenberg, 1872.
 ——— **lineolata**, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 280.
 ——— Ehr., Abh. k. Ak. Wiss. Berlin. 1872 (1873), iii, 4.
- ASPIDOSPIRA**, Ehrenb., 1844. Bericht. k. preuss. Ak. Wiss. Berlin, 1844, 75.
 ——— **abyssicola**, Ehrenb. *Ibid.* 1854, 247.
 ——— **bulligera**, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 280.
 ——— **depressa**, Ehrenb. *Ibid.* 1858, 18.
 ——— **globularis**, Ehrenb. Bericht. k. preuss. Ak. Wiss. Berlin, 1845, 367.
 ——— **hexacyclus**, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 280.
 ——— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 5.
 ——— **indica**, Ehrenb. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 367.
 ——— **pentacyclus**, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 281.
 ——— **profundissima**, Ehrenb. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 247.
 ——— **rosula**, Ehrenb. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 281.
 ——— **saxipara**, Ehrenb. Mikrogeologie, 1854, xxxii, ii, 38 [= *Planulina arimnensis*].
 ——— **sinensis**, Ehrenb. Bericht k. preuss. Ak. Wiss. Berlin, 1847, 485.
- ASSILINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 296 [given by d'Orbigny as a subgenus of *Nummulina*].
 ——— **depressa**, d'Orb. *Ibid.* vii, 1826, 296, No. 2.
 ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 210, xxxv², 11.
 ——— **discoidalis**, d'Orb. Ann. Sci. Nat. vii, 1826, 296, No. 1 [v. also *Nummulina*].
 ——— D'Orb., Modèles, No. 88, 1826.
 ——— **exponens** (Sowerby) [v. *Nummularia*, Sowerby, 1834].
 ——— [**exponens** (d'Orb.), 1847]. D'Orbigny, Prodrome de Paléont. II, 1850, 336, No. 685.
 ——— [d'Orb.]. Carter, Annals Mag. Nat. Hist. [3], viii, 1861, 366, xv, i; Journ. Bombay Branch R. Asiatic Soc. vi, 1861 (1862), 57 [= *Nummulites exponens*, Sow.].
 ——— Sowerby. De la Harpe, Mém. Soc. paléont. Suisse, vii, 1881, 37, f. 8.
 ——— Hoernes, Elem. Palæont. 1884, 26, f. 15; French ed., 1886, same figure.
 ——— Steinmann, Elem. Paleont. I, 1888, 34, f. 21A, B.
 ——— **floridana**, Conrad [v. *Nummulites*].
 ——— **irregularis**, Carter. Journ. Bombay Br. R. Asiatic Soc. v, (xviii), (1853), 151, ii, 5 and 6.

- ASSILINA irregularis**, Carter. Cart., Annals Mag. Nat. Hist. [2], xi, 1853, 168, vii, 5 and 6 (7 and 8 ?).
 ———— Cart., Geol. Papers Western India, 1857, 540, xxiii, 5 and 6.
 ———— **minima**, de la Harpe. Palæontographica, xxx, 1883, Pal. Theil, 213, xxxv, (6), 35-42.
 ———— **nili**, de la Harpe. *Ibid.* xxx, 1883, Pal. Theil, 213, xxxv (6), 29-34.
 ———— **nitida**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 296, No. 4.
 ———— **obesa**, Carter. Annals Mag. Nat. Hist. [3], viii, 1861, 368, xv, 2; Journ. Bombay Branch R. Asiatic Soc. vi, 1861 (1862), 58.
 ———— **planospira**, d'Archiac. Mém. Soc. Géol. France, [2], iii, 1848, 417, ix, 17a.
 ———— **radiolata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 296, No. 5.
 ———— **spira**, deR. Jones. in Newton Quart. Journ. Geol. Soc. xlv, 1889, 332, xiv, 16 [*Nummulites*, 1826].
 ———— **undata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 296, No. 3.
 ? ———— Carter, Journ. Bombay Br. R. Asiatic Soc. v, (xviii), (1853), 132, ii, 7 and 8.
 ———— see *Porpita soluti*, etc.
- ASSULINA**. Bronn, 1853-56. Misprint for *Assilina*.
- ASTACOLUS crepidulatus**, Montfort. Conch. syst. i, 1808, 263, 66th genre [= *Cristellaria*].
- ASTERIACITES patellaris**, Schlotheim. Die Petrefactenkunde, Nachtrag, 1822, 71, xii, 6 [v. also *Orbitoides*].
- ASTERIATITES**. Schlotheim, 1813. Taschenbuch für ges. mineral. vii, 1813, 109 [quotes 3 species, *A. siderolites*, *A. spinosus*, *A. pentagonatus*] [cf. *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.
 ———— **dubia**, 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.
 ? ———— **lanceicula**, 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
 ———— ———— Renss' 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. *Ammonia 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 [*Rotalia*, 1825].
 ———— **tarentina**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 272, xxii, 13 and 14.
 ———— Pietot, 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
 ——— *forskälui*, Ehrenb. *Ibid.* 1838, 130.
- ASTERODISCUS**, Schaffhäutl, 1863. Sud-Bayerns Lethæa Geogn. 1863, 107.
 ——— *patellaris*, Schaffhäutl. *Ibid.* 1863, 108, xv, 3a, b, c [*Hymenocyclus* in text].
 ——— *pentagonalis*, Schaffhäutl. *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. [Haeckel, 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*, *Ahizammina*, *Sagenella*, etc.), may also belong to the arenaceous Keratosa (*Ammoconidæ*)."]
 ——— *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.
 ? ——— [Carpenter]. Bütschli in Bronn. Klassen, etc., Thier-Reichs, 1880, 194, v, 12.
 ——— Brady, Report Challenger, 1884, 232, xix, 5-10.
 ——— *catenata*, 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].
 ——— ? Haensler, 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.
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 ——— 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.
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 ——— 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.* L, (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.
 ——— *subile*, 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 *Pseudium 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.
- **capbritonensis**, 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:
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- 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.
- Bronn, 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, xvia, 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], i, 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.
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 ——— (*Gemmulina*) ——— D'Orb., Modèles, No. 58, 1826.
 ——— ——— Brady, Trans. Linnean Soc. xxiv, 1864, 468, xlviii, 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. Vedensk.-Selsk. Christiania, 1868 (1869), 249 [not described].
 ——— *laevigata*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 261, No. 3.
 ——— ——— P. J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 167, xi, 124.
 ——— ——— P. (Lituola?) *Idem*, 163, xi, 125 [v. *Margin. hirsuta*, d'Orb.]
 ——— ——— d'Orbigny. v. *Orthoceratia baculi*.
 ——— *libanotica*, Ehrenberg. Mikrogeologie, 1854, xxv, i, A, 25 and 26 [= *Polym. compressa*].
 ——— *mitrata*, Trautschold. Nouv. Mém. Soc. Imp. Nat. Moscou, xiv, Livr., i, 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.
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 ——— ——— 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*, Roemer. 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.
- P — sp.? Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 189, iii, 31.
- P — 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, 365, 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, undeser., 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 *Fruventaria ovula* and *F. 5 speciei*.
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- _____ *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.
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- _____ *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.
 _____ Queenstedt, Handbuch. Petref. ed. 3, (5), 1885, 1060, lxxxvii, 5.
- _____ *depressa*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 298, No. 7 [v. *Miliola*].
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 _____ Munier-Chalmas and Schlumb., Comptes Rendus. xcvi, 1883, 864, f. 1 and 2 [structure]; and Annals Mag. Nat. Hist. [5], XI, 338, f. 1 and 2.
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 _____ Mun. Ch. and Schlumb. Bull. Soc. géol. France, [3], XIII, 1885, 278, etc., f. 4 and 5 [structural].
 _____ v. *murrhvana*, Schwager. Brady, Report Challenger, 1884, 146, ii, 10, 11 [v. *Biloc. murrhvana*].
 _____ v. *serrata*, Brady. Report Challenger, 1884, 146, iii, 3a, b, c, [v. *B. serrata*].
 _____ Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 163, f.
 _____ Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 213, xl, 17, 18.
 _____ v. *Fruventaria lenticula*.
- _____ *disguinta*, Seguenza. Atti R. Acc. Lincci, [3], VI, 1880, 153, xiv, 12a, b [error for 11].
- _____ *elliptica*, Brown. Illustr. Recent Conch. Gt. Brit., ed. 2, 1844, 2, lvi, 23 [*Miliola*, 1827].
- ? _____ *elongata*, Ehrenberg. Abhandl. k. preuss. Ak. Wiss. Berlin, 1841, 426.

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 ———— P. J. & B. [Soldani] Ann. Mag. Nat. Hist. [4], VIII, 1871, 247, viii, 6.
 ———— Terquem, Mém. Soc. Géol. France [3], II, 1882, 154, xvi (xxiv), 1a, b.
 ———— Brady, Report Challenger, 1884, 144, ii, 9a, b.
 ———— Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 214, xl, 21, 22.
 ———— v. *Frumentaria ovula*.
- P ———— **furcata**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1838, 131.
 ———— **globiformis**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 357, ii, 1.
 ———— **globulus**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 349, xix, 3.
 ———— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 40, i, 4a-c.
 ———— **grinzingensis**, Karrer. Abh. k. k. geol. Reichs. IX, 1877, 375, xvia, 8.
 ———— **habessinica**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 131.
- P ———— **hammonis**, Ehrenberg. *Ibid.* 1838, 131.
 P ———— **incisa**, Ehr. Mikrogeologie, 1854, xxvi, 29 [= *Quinqueloculina*].
 ———— **inornata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 266, xvi, 7-9.
 ———— Costa, Atti Accad. Pontaniana, VII, (2), 1856, 302, xxiv, 4a, A, C.
 ———— Zittel, Handbuch Palæont. (1), 1876, 77, f. 10¹ and 11¹.
 ———— Hoernes, Elem. Palæout. 1884, 34, f. 31; French ed. 1886, same fig.
- P ———— **integra**, Ehrenberg. Mikrogeologie, 1854, xxvi, 31 [= *Quinqueloculina*].
 ———— **intergerrima**, Ehrenberg. Bericht. k. preuss. Ak. Wiss. Berlin, 1843, 166.
 ———— **intermedia**, Fornasini. Boll. Soc. Geol. Ital. v, 1886, 259, iv, 2; v, 2.
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 ———— **isabelleana**, d'Orbigny. Voyage Amer. Mérid., 1839, v, (5), "Foraminifères," 66, viii, 17-19.
 ———— **lactea**, Brown. Illustr. Recent Conch. Gt. Brit. ed. 2, 1844, 2, lvi, 28 [*Verniculum*, 1803; *Miliola*, 1827].
 ———— **lævis** (Defrance). D'Orbigny, Ann. Sci. Nat. VII, 1826, 298, No. 8 [= *Pyrgo*, 1824].
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- ———— Brady, Quart. Journ. Micr. Sci. **xxi**, 1881, 57.
- ———— Brady, Report Challenger. 1884, 419, lii, 29.
- **textilarioides**, Reuss. Sitz. k. Ak. Wiss. Wien, **xlvi**, (1), 1862 (1863), 81, **x**, 1*a*, *b*.
- [**textularioides**] —— Berthelin, Mém. Soc. Géol. France, [3], **i**, 1880, 28, **i** (xxiv), 5*a-c*.
- ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, **xxxv**, 1883, 191, iii, 32.
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- BOLIVINA** *textilarioides*, Reuss. Brady, Parker & Jones, Trans. Zool. Soc. xii, (), 1888, 221, xliii, 1.
 ——— *thebaica*, Ehrenberg. Mobius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 95, ix, 11 [v. *Grammostomum*].
 ——— *tortuosa*, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 57.
 ——— ——— Brady, Report Challenger. 1884, 420, lii, 31-34.
 ——— v. Schlicht, "Foram. Septar. Pietzpuhl," 1870. xxxiii.
 ——— Terquem, Bull. Soc. géol. France, [3]. iv, 1876, 508, xiii, 4a-c.
- BORELIS**, Montfort, 1808. Conch. Syst. i. 1808, 171.
 ——— *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.
 ——— (*Melonia*) *melo*, Ehrenberg. Mikrogeologie, 1854, xxxvii, x, D, 10, 1a-f [= *Alveolina*].
 ——— *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 *Knuthi*].
- 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.
- BRADYA**, Stache, MS. Carter, Annals Mag. Nat. Hist [4], xix, 1877, 64.
 ? ——— *tergestina*, Stache, MS. *Ibid.* [4], xix, 1877, 64 [*Millepora woodwardii*, 1878].
 ——— ——— Stache, Abh. k. k. geol. Reichs. xiii, 1889, 89, vi, 24-28 [structural].
- BRADYINA**, v. Möller, 1878. Mém. Ac. Imp. Sci. St. Petersburg [7], xxv, No. 9, 1878, 78.
 ——— *nautiliformis*, v. Möller. *Ibid.* [7], xxv, No. 9, 1878, 83, iii, 4a-d; x, 3a, b.
 ——— ——— Trautschold, Nouv. Mém. Soc. Imp. Nat. Moscou, xiv, (1), (1879), 45, vi, 5a, b, c.
 ——— *potanini*, Venyukov. Verh. russ. k. Min. Ges. St. Petersburg, [2], xxv, 1878 (1889), 218, ii, 1 and 2.
 ——— *rotula* (Eichwald). v. Möller, Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 81, iii, 3a-c; x, 2a, b [*Nonionina*, 1869].
 ——— ——— v. Möller, *Ibid.* [7], xxvii, No. 5, 1879, 10 [f 1].
 ——— [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*).
- BRÖCKELLA**. [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 Méditerranæa, 1861, 53 [= *Marginulina*].
 ——— *recurva*, Costa. *Ibid.* 1861, 54, viii, 12.
 ——— *subrecta*, Costa. *Ibid.* 1861, 54, viii, 11.
- BUCCINIS**, Ledermüller. Mikrosk. Ergöztzung, 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. For. Oolithique, 1883 [misprint for *Bulimina*].
- BULIMINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 269; Brady, Report Challenger, 1884, 397.
 ——— *acanthia*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 335, xiii, 35 and 36.
 ——— *acicula*, Costa. *Ibid.* vii, (2), 1856, 336, xxii, 6a, A.
 ——— *acicula*, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, (3), 1884, 277, xii, 13.
 ——— *aculeata*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 269, No. 7.
 ——— [Czjzek]. Reuss, Denkschr. k. Ak. Wiss. Wien, I, 1850, 374, xlvii, 13.
 ——— ——— J., P. & B., Crag For. Pal. Soc. xix, 1866, n. d., iii, 1 and 2.
 ——— ——— P., J. & B. [Soldani], Ann. Mag. [4], viii, 1871, 168, xi, 126 [v. *Textul. echinata*, d'O.].
 ——— ——— *Ibid.* 172, xi, 127 [v. *B. trilobata*, d'O.].
 ——— ——— *Ibid.* 172, xi, 128.
 ——— ——— Brady, Report Challenger, 1884, 406, li, 7-9.
 ——— ——— Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 220, xliii, 8.
 ——— ——— v. *B. presli*, Rss.
 ——— ——— v. *Polymorpha pineiformia*
- *acuta*, Reuss. Haidinger's Naturv. Abh. iv, (1), 1851, 33, iii, 8.
 ——— *acuta*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr., xiii, 25; xxii, 8.
 ——— *affinis*, d'Orbigny. De la Sagra, Hist. Physiq., etc., Cuba, 1839, "Foraminifères," 105, ii, 25 and 26; also in Spanish, 1840, 109, same pl. and fig.
 ——— ——— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1058, lxxvii, 51.
 ——— ——— Brady, Report Challenger, 1884, 400, I, 14a, b.
 ——— ——— Rzehak, Verh. nat. Ver. Brünn, xxiv, 1885 (1886), 80, i, 2.
 ——— ——— 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. For. Foss. Vienne, 1846, 203, xxi, 37, 38.
 ——— ——— Carpenter, Parker & Jones, Introd. For. 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.
 ——— *auriculata*, Bailey. Smithsonian Contrib. II, 1851, 12, pl., 25-27.
 ——— ——— Dawson, Canad. Nat. iv, 1859, 31, f. 22.
 ——— *auriculata*, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 115, xii (xx), 14.
 ——— *bellardii*, Hantken. Ertek. Termesz. köreböl, xiii, (1), 1883, 27, ii, 2a, b; and Math. Nat. Ber. Ungarn, II, 1884, 148.
 ——— *brevis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 270, No. 13.
 ——— ——— D'Orb. Mém. Soc. Géol. France, [1], iv, 1840, 41, iv, 13-14; facsimile in Science Gossip, 1870, 156, f. 147.

- BULIMINA brevis**, d'Orbigny. Boudant, 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**], — Broun, Lethæa Geognostica, ed. 3, III, 1853-56, 230, xxxv², 21a, b.
- ——— Pictet, Traité de Paléont. ed. 2, iv, 1857, 513, cix, 31.
- ——— Carpenter, Parker & Jones, Introd. Foram. 1862, xii, 19.
- [**buchana**], — Reuss, Sitz. k. Ak. Wiss. Wien, LV, (1), 1867, 95, iv, 10a, b.
- ——— Zittel, Handbuch Palæont. (1), 1876, 90, f. 27⁶.
- ——— Nicholson, Mamm. Palæont. 1879, I, 116, f. 18, n.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 195, ii, 37.
- ——— Brady, Report Challenger, 1884, 407, li, 18, 19.
- ——— See *B. presli*, 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.
- **caudigera**, d'Orbigny. Ann. Sci. Nat. VII. 1826, 270, No. 16.
- ——— D'Orb., Modèles, No. 68, 1826.
- ——— 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.
- **cenomana**, d'Orbigny (1847). D'Orbigny, Prodrome de Paléont. II, 1850, 185, No. 759.
- **compressa**, Bailey. Smithsonian Contrib. II, 1851, 12, pl., 35-37.
- **conferta**, 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, exiii, 6a, b = *Discorbina "intercalata"*, H. B. B. [v. *B. pupoides*, v. *convoluta*, 1858].
- **coprolithoides**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 305, vi, 4.
- **costata**, d'Orbigny. Ann. Sci. Nat. VII. 1826, 269, No. 1.
- ——— Geës, K. Svenska Vet.-Akad. Handl. XIX, (4), 1882, 71, iv, 129-132 [v. *Bolivina*, v. *Bol. costata*].
- **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.

- BULIMINA elegans**, d'Orbigny. Costa, Atti Accad. Pontaniana, VII, (2), 1856, 334, xviii, 7a, A.
 ———— 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.
 ———— Gumbel, Geol. Bayern, I, (2), 1885, f. 266¹⁹.
 ———— **elegantissima**, d'Orbigny. Voyage Amér. Mérid. 1839, v, (5), "Foraminifères," 51, vii, 13 and 14.
 ———— Williamson, Recent British Foram. 1858, 64, v, 134 and 135.
 ———— Chiumo, Bed of Atlantic, 1870, 18, iii, A.
 ———— Brady, Ann. Mag. Nat. Hist. [5], I, 1878, 436, xx, 12.
 ———— Schlumberger, Feuille Jeun. Nat., Jan., 1882, 28, i, 14.
 ———— Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 66, iv, 95-98.
 ———— Brady, Report Challenger, 1884, 402, I, 20-22.
 ———— var. **seminuda**, Terq. *Ibid.* 1884, 403, I, 23, 24 [*B. seminuda*, 1882].
 ———— Will. See *Rotalia bulimoides*, Rss.
 ———— d'O. See *B. presli*, Rss.
 ———— **ellipsoides**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 265, xv, 2 [error for 9], [*ellipsoides* 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.
 ———— ? K. Miller, Schr. Ver. Gesch. Bodensee. VII, 1877, [77], iv, 20 [cast or concretion?].
 ———— Terquem, Mém. Soc. Géol. France, [3], II, 1882, 109, xi (xix), 21a, b, 22.
 ———— Brady, Report Challenger, 1884, 401, I, 1 and 2?
 ———— **eoceana**, 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, 1862, 108, I, 9.
 ———— **flexa**, Terquem. Mém. Soc. Géol. France, [3], II, 1832, 115, xii (xx), 15.
 ———— **frons**, Olszewski. Sprawozd. Kom. fizyf. 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.
 ———— Brady, Report Challenger, 1884, 406, II, 10-13.
 ———— Andreae, 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, xiii, 71.
 ———— Reuss, Haidinger's Naturw. Abh. IV, (1), 1851, 39, iii, 11.
 ———— Eley, Geol. in the Garden, 1859, 199, v, 30 [flint cast].

- BULIMINA intorta**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 115, xii (xx), 16.
- **intricata**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 388, xlv, 14a, b.
- **irregularis**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 112, xii (xx), 1a, b.
- **lævigata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 270, No. 14.
- **longiscata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 109, xi (xix), 25, 26.
- **madagascariensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 270, No. 17.
- **mamillata**, Costa. Atti Accad. Pontauiana, VII, (2), 1856, 335, xviii, 16a, A, B.
- **marginata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 269, No. 4, xii, 10, 11, 12.
- ——— Smedley, Ency. Metrop. 1845, undescr. pl. "Mollusca?," f. 29.
- ——— Parker & Jones, Annals Mag. N. H. (2), XIX, 1857, 296, xi, 35-40.
- ——— J., P. & B., Crag Foram. Pal. Soc. XIX, 1866, n. d., iii, 5 and 6.
- ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, XXXIII, 1880, 194, ii, 35, 36.
- ——— Brady, Report Challenger, 1884, 405, li, 3-5.
- ——— Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 220, xliii, 7, 10.
- ——— See *B. presli*, Rss.
- **minuta**, Hantken. Ertek. Termesz. köreböl. XIII, No. 1, 1883, 28, i, 6a, b; and Math. Nat. Ber. Ungarn. II, 1884, 148 [fig. 5 by error in explan. to plate].
- **murchisoniana**, d'Orbigny. Mém. Soc. Géol. France, [1], IV, 1840, 41, iv, 15, 16; facsimile in Science Gossip, 1870, 156, f. 148.
- ——— Reuss, Verstein. Böhm. Kreide, 1845-6, I, 37, viii, 69, 72; xiii, 70.
- ——— Reuss in Geinitz, Grundr. Verstein. 1845-46, 672, xxiv, 61.
- [**murchisonii**] ——— Beudant, Géologie, ed. 8, 1858, 117, f. 99; later eds., same fig.
- **muricata**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 388, xlv, 12 and 13.
- **obesa**, Reuss. Haidinger's Naturw. Abh. IV, (1), 1851, 40, iii, 12; iv, 1.
- **obliqua**, d'Orbigny. Mém. Soc. Géol. France, [1], IV, 1840, 40, iv, 7, 8; facsimile in Science Gossip, 1870, 156, f. 144.
- **obliqua**, Terquem. *Ibid.* [3], II, 1882, 118, xii (xx), 23.
- **obscura**, Terquem. *Ibid.* [3], II, 1882, 111, xi (xix), 32a, b.
- **obtusa**, d'Orbigny. *Ibid.* [1], IV, 1840, 39, iv, 5, 6; facsimile in Science Gossip, 1870, 156, f. 143.
- ——— Cooke, Thousand objects Micros. 1869, 695, ix, 1.
- **oceanica**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 127, xvi, 10a, b [misprinted 9 on plate], (and Mém. Soc. Dunkerquoise).
- **ovata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 185, xi, 13, 14.
- ——— Parker & Jones, Phil. Trans. 1845, 374, xvii, 67a, 67b.
- ——— var. Stache, Novara-Exped. Geol. (1), 1864, 266, xxiv, 14.
- ——— Terquem, Ess. Anim. Plage Dunkerque, (2), 1876, 77, ix, 10a, b (and Mém. Soc. Dunkerquoise).
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 38.
- ——— Brady, Report Challenger, 1884, 400, I, 13a, b.
- **oviformis**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 112, xii (xx) 3.
- **ovigera**, Terquem. *Ibid.* [3], II, 1882, 108, xi (xix), 17-20.
- **ovoides**, Terquem. Bull. Soc. Zool. Fr. XI, 1886, 334, xi, 20.
- **ovula**, d'Orbigny. Voyage Amér. Mérid. 1839, v, (5), "Foraminifères," 51, i, 10 and 11.
- ——— Terquem, Mém. Soc. Géol. France, [3], II, 1882, 113, xii (xx), 5.
- ? ——— **ovulum**, Harting. Verh. Kon. Ak. Wetensch. x, 1864, 9, i, 10a, b.

- BULIMINA ovulum**, Reuss. Geogn. Skizze Böhmen, II, 1844, (1), 215.
 ————— Reuss, Verstein. Böhm. Kreide, 1845-6, I, 37, viii, 57; xiii, 73.
 ————— Alth, Haidinger's Naturw. Abh. III, (2), 1850, 264, xiii, 18.
 ————— Reuss, *Ibid.* IV, (1), 1851, 38, iii, 9.
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 on J. & P.'s *B. elegantissima*].
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 [v. *Verneuilina*].
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 1865, 373, xv, 11; xvii, 68, 69.
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 ————— v. (**Bolivina**) **costata**, d'Orb. *Ibid.* 1865, 376, xvii, 75.
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 ————— v. **marginata**, d'Orb. *Ibid.* 1865, 372, xv, 10; xvii, 70a, b, c.
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 ————— v. **pyrula**, d'Orb. *Ibid.* 1865, 372, xv, 8, 9.
 ————— v. (**Virgulina**) **schreibersii**, Czj. *Ibid.* 1865, 375, xv, 18;
 xvii, 72, 73.
 ————— v. (**Virgulina**) **squamosa**, d'Orb. *Ibid.* 1865, 375, xv,
 19a, 19b, 20.
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 ————— **pulchella**, d'Orbigny. Voyage Amér. Mérid. 1839, V, (5), "Foramini-
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 ————— **pulehra**, Terq. Mém. Soc. Géol. France, [3], II, 1882, 114, xii (xx),
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 ————— (**Boliv.**) ——— Goës, K. Svenska Vet.-Akad. Handl. XIX, No. 4,
 1882, 69, iv, 114-126.
 ————— v. **decurrens**, Ehrenberg. *Ibid.* XIX, No. 4, 1882, 71, iv,
 127 [*Grammostomum*, 1854].
 ————— **pupa**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 116, xii (xx),
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 ————— **pupoides**, d'Orbigny. Foram. Fossiles Vienne, 1846, 185, xi, 11, 12.
 ————— Williamson, Recent British Foram. 1858, 61, v, 124-133,
 "124, 125 typical."
 ————— v. **compressa**, Williamson. *Ibid.* 1858, 63, v, 131 [= *Virg.*
Schreibersii, Czj.].
 ————— v. **convoluta**, Williamson. *Ibid.* 1858, 63, v, 132 and 133.
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 [= *B. ovata*, d'Orb.].

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- _____ v. *spinulosa*, Williamson. *Ibid.* 1858, 62, v, 128 [= *B. aculeata*, d'Orb.].
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- _____ **puschi**, Reuss. *Haidinger's Naturw. Abh.* iv, (1), 1851, 37, iii, 6.
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- _____ var. **spinescens**, Brady. *Ibid.* 1884, 400, 1, 11, 12.
- _____ d'Orb. See *B. presli*. Rss.
- _____ **rhomboidalis**, Costa. *Atti Accad. Pontaniana*, vii, (2), 1856, not descr., xiii, 24.
- _____ **rimosa**, Marsson. *Mitth. Nat. Ver. Neu-Vorpommern u. Rügen*, x, 1878, 153, iii, 31a, b [error for 21a, b].
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- _____ **scabra**, Williamson. *Recent British Foram.* 1853, 65, v, 136 and 137. [*B. arenacea* on p. 98 = *Verneuil. polystrapha*, Reuss].
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- **subsphærica**, Reuss. Verstein. Böhm. Kreide, 1845-6, II, 109, xxiv, 52.
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- **tenuistriata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 118, xii (xx), 24, 25.
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- **trocheata**, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 111, xi (xix), 33.
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- BULLOPORA rostrata**, Quenstedt Der Jura, 1858, 550, Atlas, lxxiii, 28 [= *Webbina*, q. v. also *Placopsilina*].
- BURSEOLINA**, Seguenza, 1880. Atti R. Acc. Lincei, [3], vi, 1880, 138 [= *Cassidulina*].
 ——— *calabra*, Seguenza. *Ibid.* [3], vi, 1880, 138, xiii, 7a, b [= *Cassidulina*].
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 ——— *ambigua*, Brady. Carbonif. Forum. Pal. Soc. xxx, 1876, 141, vi, 13a, b.
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- CALCITUBA**, Roboz, 1883. *Sitz. k. Ak. Wiss. Wien*, LXXXVIII, (1), 1883 (1884), 420.
- polymorpha, Roboz. *Ibid.* LXXXVIII, (1), 1883 (1884), 420, pl., 1-16; *Anz. Ak. Wien*, xiv, 1883, 117; *Math. Nat. Ber. Ungarn*, I, 1884, 265.
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- "lenticulaire," Héricart de Thury. *Ibid.* viii, (1800), 88, pl., f. 6.
- nummularia, Bruguière. *Ency. Méth.* "Vers," I, 1792, 400.
- striata, Bruguière. *Ibid.* "Vers," I, 1792, 399.
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- marmoris, Meunier. *Ibid.* 234, vii, 4.
- CANCERIS auriculatus**, Montfort. *Conch. syst.* I, 1808, 267, 67th genre [= *Pulvin. auricula*].
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- CANTHARUS calceolatus**, Montfort. *Ibid.* I, 1808, 299, 75th genre [= *Polymorphina lactea*].
- CANTHROPEs**, Montfort. *Ibid.* I, 1808, 47, 12th genre [= ?].

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 ——— **multistriata**, Marsson. *Ibid.* x, 1878, 123, i, 3a, b, c.
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 ——— **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.
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 ——— ——— Carter, Ann. Mag. Nat. Hist. [4], xix, 1877, xiii, 13.
 ——— ——— var. **proteiformis**. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4. 1882, 94, vi, 208-214; vii, 215-219.
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 ——— **lithothamnica**, Uhlig. Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 189, v, 1, 2.
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 142.
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- CELLULINA besseri**, Zborezewski. *Nouv. Mém. Soc. Nat. Moscou*, 1834, 308, xxvi, f. 2.
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- **capense**, Ehrenberg. *Monatsbericht k. preuss. Ak. Wiss. Berlin*, 1872, 281.
- **dactylus**, Ehrenberg. *Mikrogeologie*, 1854, xxiv, 1 and 2 [= *Lag. emaciata?*, Reuss].
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- CERATESTINA**, Carter, 1880. *Ann. Mag. Nat. Hist.* [5], v, 1880, 448; v. Brady, *Report Foram. Challenger*, 1884, p. 77 [one of the *Testamœbiformiæ*].
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- **sprattii**, Ehrenberg. *Ibid.* 1858, 19.
- CERATOSPYRIS sprattii**, Ehrenberg. *Abh. k. Ak. Wiss. Berlin*, 1872 (1873), xi, 7 [= *Miliolina* with final chamber produced].
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- CHARYBS plicatus**, Montfort. *Conch. Syst.* I, 1808, 107, 27th Genre [= *Serpula*].
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- CHEIROPSIS**, de Folin, 1881. *Ibid.* xv, 132 [v. *Cheiramina*].
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- **oolina**, Schwager. Boll. R. Com. Geol. Ital. ix, 1878, 527, i, 16.
- **oviformis**, Sherborn & Chapman. Journ. R. Micr. Soc. 1889, 485, xi, 13 [*Logena*, 1886].
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- 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.
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- CIMELIDIUM**, Ehrenberg, 1858. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 22 [= ? *Guttulina* = *Polymorphina* ? ?].
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- CISSEIS asterica**, Guppy, Quart. Journ. Geol. Soc. 1866, xxii, 572, *nom. nud.* = *Tinoporos baculatus*: *vide* 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].
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- **strigillata**, Reuss. Verstein. Böhm. Kreide, 1845-6, ii, 106, xxiv, 29 [v. *Vaginulina*].
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 ————— **communis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 268, No. 4 [v. *Verneuilina*].
 ————— 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.
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 ————— Zittel, Handbuch Paläont. (1), 1876, 90, f. 27⁵.
 ————— 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.
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 ————— 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, i, 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, xvii, 4.
 ————— **elegans**, Karrer. Novara-Exped. Geol. (1), 1864, 80, xvi, 11.
 ————— **eoœna**, Gumbel. Abh. m.-ph. Cl. k.-bayer Ak. Wiss. x, 1868 (1870), 601, i, 2a, b.
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 ————— **indiscreta**, Brady. Quart. Journ. Micr. Sci. xxi, 1881, 55 [= *Tritaxia*, 1884, q. v.].
 ————— **irregularis**, v. Münster. In Rœmer, Neues Jahrbuch, 1838, 387, iii, 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, "Foraminifères," 110, ii, 19 and 20, also in Spanish. 1840, 113, same pl. and fig.
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 ————— (**Valvul.**) ————— Jones, in Microgr. Dict. ed. 4, 1883, 182, xxiii, 51.
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 ————— var. **humilis**, Brady. *Ibid.* 1884, 395, xlviii, 19-21.

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- **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.
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- Hantk., Kohlenflötze ungar. Krone, 1878 (transl. from Magyar), 227, f. 43.
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- **tripleura**, Reuss. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865 (1866), 468, pl., 1.
- **triquetra**, Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 6, I, 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].
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- 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. Autun, I, 1888, 234, vii, 8 [*Climacammina* 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 polythalamie 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*].
- CŒLOTROCHIUM**, Schlüter, 1879. Zeitschr. deutsch. geol. Ges. XXXI, 1879, 668. [A species of calcareous algæ, v. Solms-Laubach, Einleit. Paläophytologie, 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, 368.
- **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, Plancois. De Conch. min. not. 1739 (Rome, 1760), 23, II, f. vi, G, I [= *Biloculina*].

- CONCHULA minima**, *Littoris Ariminensis* arcte in se contorta, albis-
sima, lævissimaque, extrinsecus Concham Veneream referens,
Plancus. *Ibid.* 19, ii, f. i A-C [= *Miliolina*].
- CONODICTYUM striatum**, Münst. Gumbel, Sitz. k.-bayer. Ak. Wiss. Mün-
chen, 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, 1851-52, 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) = *Lituola*; 28 = *Chara* ?].
- CORNE d'ammon**, d'Argenville. *Conchyliologie*, 1780, i, 680, vii, B 1 [= 2];
and 731, lxix, D1 [*Rotalia Beccarii*].
- CORNO d'ammone**, Targioni. *Relaz. d'alc. viaggi*, ed. 2, iv, 1770, 13, i, figs.
17-19; 21-36 [= ? *Rotalia Beccarii*].
- CORNU ammonis ariminiense**, Planc. Parkinson, *Introd. Study Foss. Or-*
gan. Rem. 1822, 169, vi, 19 [= *Rotalia Beccarii*].
—— *ammonis erectum vulgare, striatum, siliquam raphanistri per-*
fectissime referens, Klein. *Vers. u. Abb. Nat. Ges. Dantzig*, ii, 1754,
1, etc., i, f. 1 A, B [= *Nodos. raphanistrum*].
—— *ammonis*, etc., Ledermüller. *Mikr. Gemüths*, 1763, 16, viii [*Rotalia*,
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 *Peneroptis*,
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 [= *Peneroptis*].
—— *Littoris ariminensis*, Ginanni. *Opera postume*, 1755, 20, xiv,
[= *Rotalia* and *Cristellaria*].
—— *erectum depressum striatum, vaginulam glan-*
dii 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. radicata].
—— *erectum vulgare, striatum, siliquam, Rapha-*
nistri perfectissime referens, Plancus. *Ibid.* 15, i, vi, D to H [=
N. raphanus and *N. raphanistrum*].
—— *minus vulgare Orbiculatum striatum, umbil-*
ico 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 promi-*
nente 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* [= *Fotalia 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 elapsum 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, *ϕ* *ΤΟΒΑΣΑΝΟΝ*, 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.
- **concaua**, Terquem. Mem. Ac. Imp. Metz, LI, 1870, 346, xxv, 17 [error for 16].
- **concaua**, 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, Parkinsonthou, 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, Parkinsonthou 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.
 ————— Goës, 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, Parkinsonthou, 4 [= *Trochamm. incerta*].
granulosa, Terquem. Mem. Ac. Imp. Metz, LI, 1870, 344, xxv, 12a, b.
helvetica, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 13, ii, Opalinusthon 3 [= *Spirillina*].
hörnési, 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. Wiss. III, 1873, 39, no fig.
invovens, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 39, i, 2 [*Operculina*, 1849].
 ————— Reuss' Model No. 9, 1865 (Catal. No. 15, 1861).
 ————— J., P. & B., Crag For. Pal. Soc. XIX, 1866, 3, iii, 52-54.
 ————— Hantken, Magy. kir. földt. int. evkönyve, 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, Impressathou, 3 [= *Troch. incerta*].
liasina, Terquem. Sixième Mém. For. Lias, 1866, 474, xix, 4a, b.
marginata, M. Sars. Vidensk.-Selsk. Forhandl. 1868, 249 [referred to *C. carinatu* by Brady, 1884].
media, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 33, iv, Impressathou 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, i, 5a, b.
occlusa, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 346, xxv, 19, 20 [error for 18, 19].
olygogyra, Hantken. Magy. kir. földt. int. evkönyve, 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.
polygyra, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 39, i, 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. Anstalt iv, 1875 (1881), 19, same pl. and fig.
- Zittel, Handbuch Palæont. (1), 1876, 76, f. 8¹.
- Hantken, Kohlenflötze, etc., ungar. Krone, 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, cxlii, 18 and 19.
- **tenuissima** (Gümbel). Schwager, Jahresh. Ver. vat. Nat. Wurtt. 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 [*Soll. 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. Quækett Microsc. Club [2], II, 1885, 95, f. 7 [structural].
- Polin. Congrès Scient. Dax, 1882 (1883), 318, pl., f. 4 [sarcode body].
- ? ——— Wisniosk. Jahrb. k. k. Geol. Reichs. XXXVIII, (1889), 674, 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. 1739 (Rome, 1760), 19, ii, iv, D-F, and vii, G, I [? *Orbuline*].
- 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, III, 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 concava* ? called *Tinoporus globularis*.

COSC NOSPIRA, Ehrenberg, 1838.

— **forskalii**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 131.

— **hemprichii**, Ehrenberg. *Ibid.* 1838, 131, ii, ii; and three varieties, *α. lenticularis*; *β. bacillaris*; *γ. compressa* [= *Peneroplis*, see Carpenter, "Introduction," etc.].

— **nautiloides**, Ehrenberg. *Ibid.* 1838, 131.

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. 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 *Bigenerina*.]

— **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 [*Bigenerina*, Brady].

— **pyriforme**, v. Möller. *Ibid.* [7], xxvii, No. 5, 1879, 65, iv, 6a, b; 66, f. 29 [*Bigenerina*, 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. Neujahrsblatt Burgersbibl. 1866, 9, i, 12.

— Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 6, i, Turnerithon 15.

— **abnormis**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 117, xliii, 23a, b (and Mém. Soc. Dunkerquoise).

— var. **ovata**, Terquem. *Ibid.* (3), 1881, 117, xliii, 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 *Litauis immominatus*.
 ————— **acuminata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 420, x, 5a, b.
 ————— Burbach (Dreyer), Zeitschr. f. Nat. LXI, 1888, 507, xi, 28
 and 29.
 ————— **âcuta**, 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*), ——— Lamarek, 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**, Gümbel. Jahresh. Ver. vat. Nat. Württ. XVIII, 1842, 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, xvi, 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 [*Marginulina*, 1844].
- Reuss, Sitz. k. Ak. Wiss. Wien, I, (1), 1864 (1865), 463, ii, 9-11.
- v. **arguta**, Rss. Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 92, ii, 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, Kohlenflözte, etc., ungar. Krone, 1878 (transl. from Magyar), 221, f. 50.
- **arcuata** (Karst.). Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1855, 233, iii, 34-36 [*Planularia*, 1849].
- (**Robul.**) **arcuato-striato**, Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 93, ii, 30a, b, c.
- **argovens**, v. *C. aargovens*.
- **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].
- **armaschewskii**, 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, lxix, 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**, Gümbel. 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, xvib, 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, Ornamenten 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 *Marginulina*].
- (**Marg.**) ——— Hantken, Magyar. Földt. Társ. Munkálatai, 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. Spezialkarte 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, iii, 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 lituilatus 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 *g*].
- **bochari**, Terquem. Mém. Ac. Imp. Metz, xlii, 1863, 419, x, 3a, b, c.
- **bononiensis**, Berthelin. Mém. Soc. Géol. France, [3], i, 1880, 55, iii, (xxvi), 23a-c.
- **böttocheri**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 49, and 66, iii, 38-42.
- ——— Andreae, Abh. geol. Spezialkarte 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, xlii, 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].
- [**bronni**] ——— 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 [= *Tragulinina*].
- ——— 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. levigata*, d'O.].
- ——— Terquem, Ess. Anim. Plage Dunkerque, (1), 1875, 23, i, 12 (and Mém. Soc. Dunkerquoise).
- ——— 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, xlv, 14.
- _____ Soldani, Testac. 1789, I, (1), 54, pl. 33, C, E, aa, bb, nm, nu, = this form. See also *Nautili diversæ speciei*.
- _____ see *Naut. dentati* and *Naut. echinati* and *Naut. circumradiati*.
- _____ v. *Antenor*.
- _____ v. *Clisiphontes*; *Rhinocurus*.
- _____ v. *Pharanum*.
- _____ 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. Spezialkarte 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.].
- _____ [Lam.], var. Neugeboren, Arch. Ver. siebenburg. Landeskunde, N. F., x, (2), 1872, 278, i, 17 and 18.
- _____ Jones, M. Micr. Journ. xv, 1876, cxxviii, 15.
- _____ [Lam.], var. Seguenza, Atti. Acc. Lincei. [3], VI, 1880, 141, xiii, 14.
- _____ Brady, Report Challenger, 1884, 552, lxxviii, 10.
- _____ Bassett, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 163, 2, figs.
- _____ Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1051, lxxxvi, 17.

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- CRISTELLARIA** *cassis* (Fichtel & Moll). Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 224, xlv, 16.
 ———— (young). Soldani, Testac. 1789, I, (1), 54, pl. 33, *D* = this form.
 ———— var. See *C. navicularis*, Montf.
 ———— see *Litui crispatis*, etc., and *Nautili lituitati* and *N. cicada*, etc.
 ———— *centralis*, Terquem. Mém. Ac. Imp. Metz, L, 1870, 443, xv, 1-30; xvi, 1-6.
 ———— Terq., Cinquième Mém. Foram. Oolithique, 1883, 356, xxxix, 28-30.
 ———— Terq., Mém. Soc. Géol. France, [3], iv, 1886, 35, iii, 50-53.
 ———— Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [34], ii, 8.
 ———— *centro-gyrata*, Terquem. Mém. Ac. Imp. Metz, L, 1870, 443, xvi, 7-14.
 ———— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 36, iii, 54 and 55.
 ———— *cephalotes*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 67, vii, 4, 5, 6*a*, *b*.
 ———— Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886 [31], ii, 9-9*b*.
 ———— *cilindracea*, Karrer. v. *C. cylindracea*.
 ———— Stache, Novara-Exped. Geol. I, 1864, 234, xxiii, 13*a*, *b*.
 ———— *cincta*, Terq. and Piette. Terquem, Mém. Ac. Imp. Metz, XLII, 1862, 460, vi, 21*a*, *b*, *c*.
 ———— *cinctella*, Terquem. Sixième Mém. Foram. Lias, 1866, 516, xxii, 6*a*, *b*.
 ———— *circumcidanea*, Berthelin. Mém. Soc. Géol. France, [3], i, 1880, 52, iii (xxvi), 1*a*, *b*.
 ———— *circumlobata*, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, (1), 1870, 483; v. Schlicht, "Foram. Septar. Pietzpuhl," 1870, xvi, 11, 12, 13, 16.
 ———— *clavata*, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 415, ix, 18*a*, *b*.
 ———— *clypeiformis*, d'Orbigny. Foram. Foss. Vienne, 1846, 101, iv, 23 and 24.
 cf. ———— Koenen, Abh. k. Ges. Wiss. Göttingen, XXXII, 1885, 103, v, 14*a*, *b*.
 ———— *coarctata*, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 192, xvii, 1.
 ———— *collarifera*, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 136, vii, 24.
 ———— *collenoti*, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 416, ix, 20*a*, *b*.
 ———— *colorata*, Stache. Novara-Exped. Geol. I, 1864, 229, xxiii, 9*a*, *b*.
 ———— *communis*, Kübler & Zwiugli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 10, i, 22, 23.
 ———— Zwiugli & Kübler, Foram. schweiz. Jura, 1870, 8, i, Posidonienschiefer 4; 10, i, Jurensismergel 5; 27, iii, 27; 38, iv, Badener Schicht 6.
 ———— *complanata*, Reuss. Verstein. Böhm. Kreide, 1845-46, I, 33, xiii, 54.
 ———— Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 92, xii, 13*a*, *b*.
 ———— *complanata*, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 122, v, 8.
 ———— (Marg.) *complanata*, Hantken. Magyar. Földt. Társ. Munkálatai, IV, 1868, 90, ii, 28.
 ———— *complicata*, Terquem. Sixième Mém. Foram. Lias, 1866, 513, xxi, 34.
 ———— *compressa*, d'Orbigny. Foram. Fossiles Vienne, 1846, 86, iii, 32, 33.
 ———— Costa, Atti Accad. Pontaniana, VII, (2), 1856, not descr., xxvii, 23.
 ———— Zwiugli & Kübler, Foraminif. schweiz. Jura, 1870, 28, iii, 34.
 ———— (Marg.) ———— Reuss in Geinitz, Palæontographica, XX, (2), 1874, 101, xxiii, 5.
 ———— Brady, Report Challenger, 1884, 538, cxiv, 15 and 16.

- CRISTELLARIA compressiuscula**, d'Orb., 1847. D'Orbigny, Prodrôme de Paléont. III, 1852, 154, No. 2852 (= *Margulinina*, Philippi, 1844).
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 ————— **fenestrata**, Terquem. Cinquième Mém. Foram. Lias, 1866, 437, XVIII,
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 II, 5.
 ————— **flabellina**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur,
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 ————— **flabellinoides**, v. d. Marek (? nov.). Verh. nat. Ver. preuss. Rheinl.
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- **fraasi**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 123, v, 10.
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- **furcifera**, Terquem. Sixième Mém. Foram. Lias, 1866, 510, xxi, 29a, b.
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- **gerlachi**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863, (1864), 51 and 66, iv, 54a, b; v, 55a, b, 59a, b.
- ———— Reuss, Denkschr. k. Ak. Wiss. Wien, XXV, 1865, 140, iv, 1.
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- ———— D'Orb. in De la Sagra, Hist. Physiq., etc., Cuba, 1839, "Foraminifères," 40, vii, 20 and 21; also in Spanish, 1840, 63, same pl. and fig.
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- **gladius** (Philippi).
- ———— [d'Orb., 1847]. D'Orbigny, Prodrôme de Paléont. III, 1852, 154, No. 2856 [*Marginulina*, Phil., 1844].
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- Hantken, Magyar. Földt. Társ. Munk. iv. 1868, 91, ii, 25*a*, *b*.
- Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 43, v, 12; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 51, same pl. and fig.
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- **globifera**. Tate & Blake. Yorkshire Lias. 1876, 467, xix, 17.
- (**Marg.**) **globosa**. Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 91, ii, 22*a*, *b*.
- **globosa**. Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 20, ii, Macrocephalus-oolith 9.
- **gosæ**, Reuss. Denkschr. k. Ak. Wiss. Wien, vii, (1), 1854, 67, xxv, 10, 11.
- **gracilis**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 10, i, 26 [= *C. crepidula*].
- Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 10, 1, Jurensismergel 6.
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- **granosa**. Hantken. A magy. kir. földt. int. évkönyve, i. 1871, 128, ii, 18*a-d*; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, i, 1871, 134, same pl. and fig.
- Hantken, Kohlenflötze, etc., ungar. Krone, 1878 (transl. from Magyar), 217, f. 29.
- **granulata**. Bornemann. Lias von Göttingen, 1854, 41, iv, 36*a*, *b*.
- **grata**. Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 70, vii, 14*a*, *b*.
- **grundensis**. Karrer. *Ibid.* LV, (1), 1867, 355, i. 6 [error for 8].
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 448, xviii, 5a-e [one of the *Testamœbiformitæ*; Brady, Report Challenger,
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 mas, Comptes Rendus, lxxxv, 1877, 815; and Solms-Laubach, Einleitung
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 ——— (Thyrsoporella) cribrosa, Gümbel. Schwager, Boll. R. Com. Geol.
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 ——— (Dactyloporella) ——— Schwager, Boll. R. Com. Geol. Ital.
 viii, 1877, 27, pl., 122.
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- *juleana*, d'Orbigny. *Ibid.* 1846, 134, vii, 3, 4 [v. *Spirolina*].
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- *lævis*, Costa. *Atti Accad. Pontaniana*, vii, (2), 1856, not descr., xx, 4.
- *rangii*, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 285, No. 2.
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- DENDRITINA**, Carpenter, Ency. Brit. ed. 9, ix, 1879, Foraminifera, 377, f. 9.
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- DENDROPELA**, de Folin, 1882. Congrès Scient. Dax, 1882 (1883), 328 [not described].
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 — **erecta**, Str. Wright. Ann. Mag. Nat. Hist. [3], viii, 1861, 122, iv, 4 and 5.
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 — **acuminata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 383, vii, 9.
 — **acus**, Reuss. Haldinger's Naturw. Abh. iv, (1), 1851, 27, i, 15.
 — **acuta**, d'Orbigny. Foram. Fossiles Vienne, 1846, 56, ii, 40-43 [v. also *acutissima*].
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 — **acuticosta**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 368, xlvi, 11.
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 — **adolphina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 51, ii, 18-20 [v. also *Nodosaria*].
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 ——— **æquabilis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 112, iv, 6.
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 ——— **anguis**, Terquem. Cinquième Mém. Foran. Lias, 1866, 406, xv, 7a, b.
 ——— Terq. & Berthelin, Mém. Soc. Géol. France, [2], X, 1875, 26, II (xii), 4.
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 ——— **annulata**, Terquem. Mém. Soc. Géol. France, [3], IV, 1886, 13, i, 34a, b.
 ——— **antenna**, Cornuel. *Ibid.* [2], III, 1848, 250, i, 19.
 ——— **antennula**, d'Orbigny. Foran. Fossiles Vienne, 1846, 53, II, 29, 30 [v. also *Nodosaria*].
 ——— **apocrypha**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 22, II, Ornamenthon 2.
 ——— **approximata**, Reuss. Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 26, II, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 31, same pl. and fig. [*Nodosaria* (*Dent.*), 1865].
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 ——— **arcuata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 254, No. 38.
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 ——— **aspera**, Dunikowski. Kosmos [Lemberg], IV, 1879, 107, pl., 7.
 ——— **baccata**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 601, II, 9.
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 ——— Costa, Atti Accad. Pontaniana, VII, (2), 1856, 171, XVI, 23.
 ——— **baltica**, Reuss. Zeitschr. deutsch. geol. Ges. VII, 1855, 209, VIII, 15.
 ——— **benestarensis**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 137 and 220, XIII, 4.
 ——— **beneventana**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 172, XIX, 1a, A, B. [There is no figure on the plates answering to this name.]
 ——— **benningeni**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 44, II, 14.
 ——— **beyrichana**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, 2, 1856, 89, IV, 11.
 ——— **bicornis**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 370, XXIX, 13-17.
 ——— **bifurcata**, d'Orbigny. Foran. Fossiles Vienne, 1846, 56, II, 38, 39.
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- **bombyx**, Kübler & Zwingli. Neujaarsblatt Burgersbibl. Winterthur, 1866, 12, ii, 7.
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- **böttcheri**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 45, ii, 17.
- **botuliformis**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 370, xxix, 12.
- **boueana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 47, ii, 4-6.
- cfr. Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 28, xii, 11 and 19; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 34, same pl. and fig.
- **breoni**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 386, vii, 16a, b, c.
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- **budensis**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 28, iii, 12; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 34, same pl. and fig.
- **bullata**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 107, iii, 23.
- **burgundiæ**, Terquem. Tate & Blake, Yorkshire Lias, 1876, 461, xviii, 29 [*Marginalina*, 1863].
- **cancellata**, Terquem. Sixième Mém. Foram. Lias, 1866, 488, xx, 1.
- **capitata** (Boll). Reuss, Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 223, i, 4 [*Nodosaria*, 1846].
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- **cenomana**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 185, No. 747.
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- **chrysalis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 25, iii, 10.
- **cingulata**, Czjzek. Haidinger's Nat. Abh. II, 1848, 139, xii, 8, 9.
- **clava**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], X, 1875, 28, ii (xii), 8a, b.
- **clavata**, Terquem. Mém. Ac. Imp. Metz, XXXIX, 1858, 598, ii, 3.
- **claviformis**, Terquem. Sixième Mém. Foram. Lias, 1866, 490, xx, 4a, b.
- **clavula**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 266, xxviii, 4.
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- **collisa**, Schwager. Dittmar, Die Contorta-Zone, 1864, 199, iii, 11.
- **colubrina**, Terquem. Terquem, Cinquième Mém. Foram. Lias, 1866, 410, xv, 15.
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- v. **obliqua**, d'Orb. *Ibid.* II, 1876, 94, ii, 7; and *Ibid.* III, (1876) [v. *D. obliqua*].
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- [———] Ledermüller, Mikrosk. gemuth. 1763, 8, iv, f. s.
- [———] Costa, Fauna Regno Napoli, 1838, Foraminiferi, not descr., iv, 8.
- v. *Nautilus* (O) *leguminiformis*, Batsch.
- **commutata**, Reuss. Sitz. k. Ak. Wiss. Wien, XI, 1860, 183, ii, 4.
- **compressa**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 383, vii, 10*a*, *b*.
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- **conferta**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 106, iii, 9.
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- **consobrina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 46, ii, 1-3 [v. also *Nodosaria*].
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 ————— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 45, ii, 19-23.
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 ————— **contorta**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 30, iv, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 36, same pl. and fig.
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 ————— **corniculum**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, not descr., xxvii, 14.
 ————— **cornuformis**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 367, xxviii, 16.
 ————— **costata**, Eichwald. Lethæa Rossica, III, 1853, 10, i, 7a, b.
 ————— **crassicauda**, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 138, xiii, 5.
 ————— **crassicosta**, Terquem. Mém. Soc. Géol. France, [3], IV, 1886, 13, i, 30 and 31.
 ————— **crassula**, Reuss. Haidinger's Naturw. Abh. iv, (1), 1851, 24, i, 8.
 ————— **crebricosta**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, 2, 1856, 90, iv, 12, 13.
 ————— **crenata**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 109, iii, 19 and 25.
 ————— **cuneiformis**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 359, xxvi, 24-25; 361, xxvii, 4.
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 ————— **cylindrica**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 111, iii, 28.
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 ————— **debilis**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 28, xiii, 10; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 33, same pl. and fig. [*Nodos. (Dent.)*, 1868].
 ————— **declivis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 105, iii, 1.
 ————— **deflexa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 43, ii, 19.
 ————— **deformis**, Stache. Novara-Exped. Geol. (1), 1864, 205, xxii, 32.
 ————— **demissa**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], X, 1875, 28, ii (xii), 10a-g.
 ————— **depressa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 255, No. 43.
 ————— **detornata**, Schwager. Dittmar, Die Contorta-Zone, 1864, 199, iii, 9.
 ————— **diformis**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 381, vii, 6a, b, c.
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 ————— **dispar**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 60, iii, 7.
 ————— **distincta**, Reuss. Sitz. k. Ak. Wiss. Wien, XI, 1860, 184, ii, 5.
 ————— **distorta**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, 173, xvi, 7.
 ————— **divergens**, Reuss. Sitz. k. Ak. Wiss. Wien, I, (1) 1864 (1865), 456, iv, 10.
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- **egregia**, Terq. & Berthelin. *Ibid.* [2], x, 1875, 29, ii (xii), 11.
- **ehrenbergiana**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856, 90, iv, 14.
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- **eichbergensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 25, iii, 9.
- **elegans**, d'Orbigny. Foram. Fossiles Vienne, 1846, 45, i, 52-56 [v. also *Nodosaria*].
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- **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.].
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- **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.
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- **fasciata**, Terquem. Sixième Mém. Foram. Lias, 1866, 485, xix, 25.
- **ferstliana**, Czjzek. Hardinger's Nat. Abl. 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.
- **filiformis** (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.
- **filiformis**, Reuss? Reuss, Sitz. k. Ak. Wiss. Wien, xl, 1860, 188, iii, 8.
- **filipendula**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 607, ii, 20 *c-d*.
- **filocincta**, 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.
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 ——— see *Orthoceraia flosculi*.
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- **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.
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- **fusiformis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 99, ii, 16.
- **fusiformis**, Gümbel. Geogn. Beschreibung Koenigsr. Bayern, 1, 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, 460, 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. Marek. 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. Anim. 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.
- **hemisphærica**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 383, 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.
- **hoernesii**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856, 89, iv, 10.
- **hoernesii**, 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, XLVIII, (1), 1863 (1864), 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, ii, 1870, 361, xxvii, 5.
- **inornata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 44, i, 50 and 51.
 ———— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 45, ii, 18.
 ———— ———— Schlumberger, F. Jeun. 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, ii, 8.
 — **intermedia**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 25, iii, 4 and 8; and Mitth. 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.
 — Gumbel, Geol. Bayern, i, (n), 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. Pontaniana, 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, 369, xxix, 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**, Gumbel. Jahrb. k. k. geol. Reichsanstalt, xix, 1869, 176, v, 3.
- **lævigata**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 106, iii, 7 [*lævigata* in text].
- **lamarecki**, 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].
 — Williamson, Pop. Sci. Rev. iv, 1865, 174, viii, 6.
 — Chimmò, Bed of Atlantic, 1870, 26, ix, 6 [= *Nol. scalaris*].
- **legumen**, Reuss. Haidinger's Naturw. Abh. iv, (1), 1851, 26, i, 14 [*Nodosaria*, 1845].
 — Reuss, Sitz. k. Ak. Wiss. Wien. xl, 1860, 187, iii, 5.
- **leubeana**, Gumbel. Sitz. k.-bayer. Ak. Wiss. i, 1871, 64, i, 5 [? a sponge spicule].
- **lævigata**, Schwager. See *D. lævigata*.
- **linearis**, (Röm.). Reuss, Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 42, ii, 15 [*Nodosaria* 1840].
 — Gumbel, 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.
- **mareki**, Reuss. Sitz. k. Ak. Wiss. Wien, XI, 1860, 188, ii, 7.
- **margarita**, Terquem. Cinquième Mém. Foram. Lias, 1866, 408, xv, 11a, b.
- **marginata**, Stache. Novara-Exped. Geol. (1), 1864, 207, xxii, 35a.
- **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, Prodrome de Paléont. I, 1849, 242, No. 259.
- ——— Terquem, Mém. Ac. Imp. Metz, XXXIX, 1858, 602, ii, 11a, b and 16.
- **mauritii**, Terquem. Cinquième Mém. Foram. Lias, 1866, 408, xv, 12a, b, c.
- ——— Terq. & Berth., Mém. Soc. Géol. France, [2], x, 1875, 24, i (xi), 28.
- **medio-lata**, Dnnikowski. 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, 10a, 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), 9a-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**, Nengeboren. 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.
- ——— Gumbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 625, i, 43.
- **mutabilis**, Bailey. Smith-onian Centrib. 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, 158, 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. (Deut.) curièri*, 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, XLVII, (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.
- ———— var. Terquem, *Ibid.* XLII, 1862, 441, v, 18a-c.
- **obscura**, Stache. Novara-Exped. Geol. (1), 1864, 208, xxii, 37.
- **obtusata**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 151, viii, 1.
- **octoplicata**, Terquem. Sixième Mém. Foram. Lias, 1866, 489, xx, 3a, b.
- **oculina**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 31, ii (xii), 20a-c.
- **oligosphærica**, Reuss. Sitz. k. Ak. Wiss. Wien, L, (1), 1864 (1865), 453, iv, 9.
- **oligostegia**, Reuss. Haidinger's Naturw. Abh. iv, (1), 1851, 25, i, 10 [*Nodosaria*, 1845].
- ? ———— Tate & Blake, Yorkshire Lias, 1876, 458, xviii, 21.
- **oolithica**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 366, xxviii, 5-15.
- ———— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 14, i, 38-40.
- **oppeli**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 108, iii, 16, 17.
- **orbignyana**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, (2), 1856, 82, iii, 1-3 [including *D. inornata*, d'Orb., and *D. pauperata*, d'Orb.].
- **ornata**, Neugeboren. *Ibid.* XII, (2), 1856, 88, iv, 9a, b.

- DENTALINA ornata**, Terquem. Mém. Ac. Imp. Metz xxxix, 1858, 604, ii, 13.
 ———— Terq. & Berthelium, Mém. Soc. Géol. France, [2], x, 1875,
 30, ii (xii), 14a, b.
- **partschi**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, (2), 1856,
 83, iii, 5.
- **paucicosta**, Terquem. Sixième Mém. Foram. Lias, 1866, 483, xix, 22a, b.
 ———— Terq. & Berthelin, Mém. Soc. Géol. France, [2], x, 1875,
 31, ii (xii), 18a-f.
- **paucicostata**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr.,
 xxvii, 20.
- **pauperata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 46, i, 57-58 [v.
 also *Nodosaria*].
- Bornemann, Zeitschr. deutsch. geol. Ges. vii, 1855, 324,
 xiii, 7.
- Jones & Parker, Quart. Journ. Geol. Soc. xvi, 1860, xix,
 22.
- Brady, Proc. Somerset. Arch. and Nat. Hist. Soc. xiii,
 1865-6 (1867), 224, i, 14.
- Hautken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876),
 26, iii, 6; and Mitth. a. d. Jahrb. ungar. geol. Anstalt, iv, 1875 (1881), 31,
 same pl. and fig.
- Tate & Blake, Yorkshire Lias, 1876, 458, xviii, 23.
- Vanden Broeck, Ann. Soc. Belge Micros. ii, 1876, 97, ii,
 8 and 9; and Fonds de la Mer, iii, (1876).
- Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 178, ii,
 14.
- Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886,
 750, xv, 9.
- **paupercula** (Rss.). Berthelin, Mém. Soc. Géol. France, [3], i, 1880,
 43, ii (xxv), 17a, b [*Nodosaria*, 1845].
- **pectinata**, Terquem. Mém. Ac. Imp. Metz, li, 1870, 360, xxvi, 26-30;
 361, xxvii, 2 and 3.
- **peregrina**, Reuss. Sitz. k. Ak. Wiss. Wien, xlii, 1860 (1861), 356, i, 6.
- **perfoliata**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur,
 1866, 8, i, 11.
- **perlucida**, Terquem. Mém. Ac. Imp. Metz, xlii, 1862, 442, v, 22.
- **permiana**, Jones. Jones in King, Pal. Soc. 1850, 17, vi, 1.
- Richter, Zeitschr. deutsch. geol. Ges. vii, 1855, 532, xxvi,
 27.
- Geinitz, Dyas, etc. 1861, (1), 121, xx, 32.
- Schmid, Neues Jahrbuch, 1867, 586, vi, 56-64.
- [King]. Roemer, Lethæa Geognostica, i, (1), 1880, 272, and Atlas,
 1876, lxii, 1.
- **perscripta**, Egger. Nenes Jahrbuch, 1857, 307, xv, 30 and 31.
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 80, ii, 8.
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- **radicula**, Terquem. Cinquième Mém. Foram. Lias, 1866, 406, xv, 8a, b.
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- 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].
- ? —— **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 *Hypurites* 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 (1876), 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.
- ——— Bronn, *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 [= *Bifarina 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.* 1884 (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.
- DIOXEIA richardi**, de Folin. *Naturaliste*, ix, 1887, 115, f. 11 [v. *Dyoxeia*].
- 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* (Bouée); *D. ephippium* (Schlotheim); *D. tenella*, Gümbel; *D. aspera*, Gümbel; *D. appplanata*, Gümbel; *D. dispersa* (Sowerby).
- DISCOIDINA**, Terquem & Berthelin. *Mém. Soc. Géol. France.* [2], x, 1875, 15.
- **liassica**, 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 *Nannulites*, 5 ?].

- DISCOLITE** nummiforme, piatta, che da ambo i lati mostra le spire e le concameragione. *Ibid.* xxii, 1803, 159, iii, 6a, b [*Nummulites*].
- [—] 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*, LI, 1801, 106, etc., pl. II, 1-12 [= *Alveolina*].
- 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, n, 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', Z'' [= ? *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*].
- radiis confertis dichotomis, etc. *Ibid.* 1802, II, 108, ii, X [= *Orbitoides stellata*].
- sphæricus gracilis apicibus, acutis. *Ibid.* 1802, II, 114, iii, 10 and 11 [= *Alveolina fusiiformis*].
- sphæricus 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.
- **agrigentina**, 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 [*Valvulina*, 1860].
- **ammonoides**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LII, 1865, 456, No. 5 [v. *Planorbulina*, *Anomalina* and *Rosalina*].
- **anomala**, 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 Lineei*, 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. Linnean Soc.* xxiv, 1864, 469, xlvi, 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), 1888, 227, xlvi, 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). *Mobius, 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 [*Nonionina*, 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, xlv, 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.
- sec *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, i, 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. Krakowie, 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**, Gümbel. 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.
- **melcheliniana**, 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 i, 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].
- sec *D. turbo* (d'O.).
- **opercularis** (d'O.). Brady, Report Challenger, 1384, 650, lxxxix, 8, 9 [*Rosalina*, 1826].
- **orbicularis** (Terquem). *Ibid.* 1884, 647, lxxxviii, 4-8 [*Rosalina*, 1876].

- DISCORBINA orbicularis**, Terquem. Balkwill & Millett, Journ. Micr. III, 1884, 23, iv, 13.
- _____ Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 349, xiii, 31-33.
- _____ Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 227, xlvi, 1.
- _____ 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].
- _____ J., P. & B., Crag Foram. Pal. Soc. xix, 1866, n. d., ii, 13-15.
- _____ Morris, Lecture Geol. Croydon, [1876], 8, f. 3 and 7.
- _____ 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.
- _____ **rimosa**, Parker & Jones. Phil. Trans. 1865, 385 and 421, xix, 6a, b, c.
- _____ **rosacea** (d'Orbigny), J., P. & B., Crag Foram. Pal. Soc. xix, 1866, n. d., iv, 17 [*Rotalia*, 1826].
- _____ Terrigi, Atti Acc. Pont. N.ovi 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.
- **saulcii** (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.
- **semiumbilicata**, Toutkowsky. Zap. Kievsk. Obsch. Est. VIII, 1887, 358, v, 5a-d.
- **simulatis**, Schwager. Paläontographica, xxx, 1883, Pal. Theil, 120, xxix (6), 15a-d.
- **solarium**, Seguenza. Atti R. Acc. Lincei, (3), VI, 1880, 64, vii, 9.
- **sphæruligera**, Schwager. Paläontographica, 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. Ob-ch. Est. VIII, 1887, 356, vi, 6a-c; vii, e.
- **trochidiformis** (Lam.). Jones in Dixon, Geol. of Sussex, ed. 2, 1878, 172, ix [10], 6 [*Rosalites*, 1804].
- **tuberculata**, Balkwill & Wright. Trans. R. Irish Ac. XXVIII, (Sci.), 1885, 350, xlii, 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.
- Gumbel, Geol. Bayern. I, (2), 1885, f. 266, 21.
- **turris**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, (1), 1868, 185, v, 4.
- **umbonifera** (var.), Schwager. Paläontographica, 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. Forum. 1862, 203, xliii, 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, xliii, 39.
- **vilardeboana** (d'O.). Brady, Report Challenger, 1884, 645, lxxxvi, 9 and 12; lxxxviii, 2 [*Rosalina*, 1839].

- DISCORBINA wrightii**, Brady. Ann. Mag. Nat. Hist [5], VIII, 1881, 413, xxi, 6a, b, c [*Disc. parisiensis*, Wright (*pars*), 1877. Proc. Belfast Nat. F. C. 1876-77, app. 105, iv, 2a, b, c].
- Brady, Denkschr. k. Ak. Wiss. Wien, XLIII, (2), 1882 [1881], 104, ii, 6a, b.
- Wallich. North Atlantic Sea-bed, (1), 1862, no descr., ii, 4; and vi, 20 [structural].
- Wallich. Deep Sea Researches, Biol. Globigerina, 1876, 1, etc., pl., 20 [structural].
- Zittel. Handbuch Palæont. (1), 1876, 93, f. 30².
- 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.
- (after Schultze's figures), Schlumberger. F. Jeun. Nat. Feb., 1882, ii, 8, 9; and March, 1882, iii, f. 2.
- Quenstedt. Handbuch Petref. ed. 3. (5), (1885), 1057, lxxxvi, 55.
- de Folin. Le Naturaliste, Ann. 9, 1887, 139, f. 16.
- see *Rotulites*.
- DISCORBIS**, Lamarck, 1804. See *Discorbites*.
- **gervillii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 274, No. 36 [given by d'Orbigny as a synonym of *Rotalia*].
- **lobatus**, Macgillivray. Moll. Anim. Aberdeen, 1843, 34 [= *Truncatulina*].
- **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 *Hosalina*].
- 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* = *Peneroplis*].
- 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), [*Rotulites discorbula*, 1804 = *Rotalia beccarii*].
- DISCOSPORA**, Merris, 1850, MS. Mantell, Pictorial Atlas of Org. Rem. 1850, 142 (note) [= *Assilina exponens*].
- 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 Gümbel]
- ECHINUS lobatulus**, Walker & Jacob. In Kammacher's ed. of Adams' Essays Microscope, 1798, 644, xiv, 46 [*E. subrotundatus*, W. & Boys = *Globig. bulloides*, 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 [= *Nammulites*].
- 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, iv, 8-11.
- **pupa** (d'Orbigny). *Ibid.* 1884, 433, iv, 1a, b; cxiii 10a, b, c [*Cassidulina*, 1839].
- **serrata**, Reuss. Denkschr. k. Ak. Wiss. Wien, 1, 1850, 377, xlvi, 7.
- ——— Brown, 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, iv, 2-7.
- ELEMAMMINA**, de Folin, 1881. Bull. Soc. N. II. 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* = *Lapua*].
- **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.
- ——— Ehrh. 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.
- **baileyi**, Hall. Whitfield, Bull. Amer. Mus. Nat. Hist. 1, No. 3, 1882, 42, ix, 34-36 [a misprint for *baileyi* = Hall's *Rotalia baileyi*, q. v.; considered by Whitfield as distinct from *E. bowmani*, Phil.].
- **bowmani**, Phillips.
- [**bowmani**], Phillips. Rept. Proc. Geol. Poly. Soc. W. R. Yorkshire, 1844-45 (1846), 277, vii, 1 [f. 3 may also belong to *Endothyra*].
- [**bowmani**], ——— Brown, Elem. Foss. Conch. 1843, 17, vi, 2.
- ——— Brady, Carbonif. Foram. Pal. Soc. xxx, 1876, 92, v, 1-4.
- [**bowmani**], ——— v. Möller, Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9, 1878, 96, iv, 3a, b; xii, 2a, b.
- ——— Roemer, Lethæa Geognostica, (1), I, 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.*
- Bütschli 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 globolus, 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. 25¹⁹.*
- *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 millaris*? 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*, Möbins. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 89, viii, 5.
- *aspera*, Reuss. Möbins, *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.
- *lineata*, Williamson. *Ibid.* 1858, 9, i, 17 [= *Lagena caudata*, d'Orb.].
- ——— var. Parker & Jones. Annals Mag. N. II. (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.
- ——— Chimmo, Bed of Atlantic, 1870, 18, iii, 1 [ribbed, with tuberculated interspaces].
- ——— Dawson, Canad. Nat. vi, 1872, 254, iii, 2.
- ——— [Will.]. Schulze, Arch. mikrosk. Anat. XIII, 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. Möbins, 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.
- *marginata*, Montagu. Williamson, Recent British Foram. 1858, 9, i, 19-28; "19-21 typica" [not Walker; his figure is a *milliola*] [v. *Lagena*].
- ——— 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.
- ——— Dawson, Canad. Nat. u. s. v, 1870, 177, f. 12.
- (Lag.) ——— Chimmo, Bed of Atlantic, 1870, 18, iii, 3 (" *Lagena vulgaris*, *Substriata marginata*," said to have siliceous margin).
- ——— Chimmo, *Ibid.* 1870, 27, x, 1.
- ——— Dawson, Amer. Journ. Sci. [3], i, 1871, 206, f. 12; and Annals Mag. N. II. [4], vii, 1871, 86, f. 12 [*Lag. gracillima*, Seg.].
- ——— Chimmo, Nat. Hist. Euplectea, etc. 1878, 21, vi, 20a, b, c, d [= *Lagena seminiformis*? Schw.].
- ——— [Walker]. Möbins, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 90, viii, 7 and 8.
- *miliaris*, Ehr., 1839. See Williamson, Annals Mag. Nat. Hist. [2], i, 1848, 5.
- *perforata*, Möbins. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 90, viii, 6.
- *quadrata*, Williamson. Chimmo, Bed of Atlantic, 1870, 28, x, 2 [v. *E. marginata* and *Lagena*].
- ——— Möbins, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 90, viii, 9.
- *rudis*, Reuss. Möbins, *Ibid.* 1880, 90, viii, 10.
- *squamosa*, Montagu. Williamson, Annals and Mag. Nat. Hist. [2], i, 1848, 18, ii, 19 [*Vermiculum*, 1803].
- ——— var. *a*, *catenulata*, Jeff. *Ibid.* [2], i, 1848, 19, ii, 20.

- 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.
 ——— Williamson, Recent British Foram. 1858, 12, i, 29-32; "29 typica."
 ——— v. **catenulata**, Williamson. *Ibid.* 1858, 13, i, 31 [v. *Lagena catenulata*].
 ——— v. **hexagona**, Williamson. *Ibid.* 1858, 13, i, 32 [v. *Lagena hexagona*].
 ——— v. **scalariformis**, Williamson. *Ibid.* 1858, 13, i, 30 [v. *Lagena scalariformis*].
 ——— Dawson, Canad. Nat. iv. 1859, 29, f. 8-10.
 ——— Dawson, Handbook Zoology, ed. 3, 1886, 44, f. 33.
 ——— **striato-punctata** (Parker & Jones). G. M. Dawson, Canad. Nat. n. s., v, 1870, 177, f. 11 [*Lagena*, 1865].
 ——— Dawson, Amer. Journ. Sci. [3], i, 1871, 206, f. 11; and Annals Mag. N. H. [4], vii, 1871, 86, f. 11.
 ——— **variolata**, Schlumberger. F. Jeun. Nat. Jan., 1882, i, 3.
 ——— **williamsoni**, Alcock. Proc. Lit. Phil. Soc. Manchester, iv, 1865, 193 (figured by J. Wright. v. *Lagena*).
 ? ——— Chinnmo. Bed of Atlantic, 1870, 15, i, 3 and 4 [3 = *Miliola*; 4¹ = *Miliola*; 4² = *Gastropod*; 4³, 4⁴ = *granules*].
 ——— see *Lagena*.
- 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.
 ——— **tetrastomella**, von Daday. *Ibid.* viii, 1883, 197, etc., and *ibid.* xl, 1884, 465, xxiv, 1-8.
- EOZOON**: For full literature of this curious structure, discovered by W. E. Logan in 1858, and first described by W. B. Carpenter and J. W. Dawson in 1864, see W. King & T. H. Rowney, Old Chapter of the Geological Record, etc., 1881; A. Woodward, Fourteenth Ann. Rep. Geol. Nat. Hist. Survey, Minnesota, 1885 (1886), 167-187; C. D. Sherborn, Bibliography of the Foraminifera, 1888 (*passim*).
- EPISTOMINA**, Terquem, 1883. Bull. Soc. géol. France, [3], xi, 1883, 37, iii, 1-20; and Terquem, Cinquième Mém. Foram. Oolithique, 1883, 373. ["A quasi-generic group, consisting chiefly of mesozoic *Pulvinulina*, of the 'elegans' type, of which the apertures are more or less abnormal as to form or position." Brady, Report Challenger, 1884, 700, 701.]
 ——— **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.
 ——— **conica**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 375, xlii, 10a, b, c and 11.
 ——— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 51, v, 16.
 ——— **coronata**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 378, xliii, 9a, b, c.
 ——— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 53, vi, 5 and 6.
 ——— **costifera**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 377, xiii, 3-6.
 ——— Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 51, v, 18-21; vi, 1-4.
 ——— **elegans** (d'Orb.). Rzehak, Ann. k. k. nat. Hofmuseums, iii, (3), 1888, 264, xi, 9 [*Turbidulina*, 1826].
 ——— **irregularis**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 379, xlv, 4-10.

- EPISTOMINA irregularis**, Terquem. Terquem, Mém. Soc. Géol. France, iv, 1886, 54, vi, 10-17.
- **mosquensis**, Uhlig. Jahrb. k. k. geol. Reichs. xxxiii, 1883, 766, vii, 1-3.
- **nuda**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 376, xliii, 1a, b, c, 2a, b.
- **ornata**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 377, xliii, 7 and 8.
- **partschi** (d'Orbigny). Uhlig. Jahrb. k. k. geol. Reichs. xxxiii, 1883, 763, ix, 6 and 7 [*Rotalina*, 1846].
- **regularis**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 379, xlv, 1-3.
- **reticulata** (Reuss). Uhlig. Jahrb. k. k. geol. Reichs. xxxiii, 1883, 768, vii, 8-9 [*Rotalia*, 1862].
- **spinulifera** (Reuss). *Ibid.* xxxiii, 1883, 768, vii, 5-7 [*Rotalia*, 1862].
- **stelligera** (Reuss). *Ibid.* xxxiii, 1883, 770, vii, 10 and viii, 1-3 [*Rotalina*, 1854].
- EPONIDES repandus**, Montfort. Conch. Syst. i, 1808, 127, 32 genre [= *Pulvinulina*].
- “**ETOILES marinis**,” Knorr. Rec. de Monumens, iii, 1775, 158, vi*, 8-16 [= *Siderolina calcitrapoides*].
- FABULARIA**, DeFrance, 1820. Dict. Sci. Nat. xvi, 1820, 103.
- **compressa**, d'Orb., 1847. D'Orbigny, Prodrôme de Paléont. ii, 1850, 409, No. 1354.
- **discolithus**, DeFrance. Dict. Sci. Nat. xvi, 1820, 103; Atlas Zooph. xviii, 5.
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- [**discolithes**] ——— D'Orbigny, Ann. Sci. Nat. vii, 1826, 307, No. 1, xvii, 14-17.
- [**discolithes**] ——— D'Orbigny, Modèles, No. 100, 1826. Blainville, Actinol. 1834, lxxiii; 5.
- [**discolithes**] ——— Cuvier, Règne Animal, 1836-46, ix, (pls. x), 35, xiv, 4.
- [**discolithes**] ——— Bronn, Lethæa Geognostica, ed. 2, 1837, 1149, xlii, 35 and 36 [36 error].
- [**discolithes**] ——— Smedley, Ency. Metrop. 1845, undescr., pl., “Mollusca?” 39-41.
- [**discolithes**] ——— D'Orbigny, Foram. Fossiles Vienne, 1846, 267, xxi, 55 and 56.
- [**discolithes**] ——— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 198, xlii, 35.
- [**discolithes**] ——— Bronn, Klassen Ordu. Thier-Reichs, i, 1859, 69, vi, 2a, b, c, d.
- [**discolithes**] ——— Carpenter, Parker & Jones, Introd. Foram. 1862, 82, vi, 37 and 38 [structural].
- [**discolithes**] ——— Renss' Model. 1865, No. 12 (Catal. 1861), No. 21.
- [**discolithes**] ——— P., J. & B. [d'O., Modèles 100] Ann. Mag. Nat. Hist. [3], xvi, 1865, 35, i, 16 [= *F. ovata*, Roissy].
- [**discolithes**] ——— Figuier, Ocean World, [1873], 82, f. 14.
- [**discolithes**] ——— Zittel, Handbuch Palæont. (1), 1876, 79, f. 13¹.
- [**discolithes**] ——— Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 27, pl., 117.
- [**discolithes**] ——— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 190, viii, 2.
- [**discolithes**] ——— Terquem, Mém. Soc. Géol. France, [3], ii, 1882, 161, xvi (xxiv), 31a, b.

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- [discolithes] ——— Hoernes, Elem. Paleont. 1884, 35, f. 34; French ed. 1886, same fig.
- [discolithes] ——— Bassett, Ann. Soc. Sci. Charente-Inf. 1884 (85), 164, f.
- [discolithes] ——— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1060, lxxxvii, 9.
- [discolites] ——— Fritel, Foss. caract. terr. sedim. tert. 1886, vii, 64 and 65.
- *ovata*, Roissy, v. Parker & Jones. Ann. Mag. N. H. [3], viii, 1861, 238.
- zitteli, Schwager. Palæontographica, xxx, 1883, Pal. Theil, 89, xxiv, (1), 8a-g.
- FABULARIA**, d'Orbigny. Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 190, iv, 21.
- ? ——— see *Lenticulæ*.
- FABULARINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. 1 [a family group name].
- “**FAN-SHAPED ANIMALCULE**,” Brocklesby. Views Microscop. World, 1851, 51, f. 86 and 87 [= *Plab. baruloviniiana*].
- FASCICOLITES**, Carter. Error for *Fasciolites*, q. v.
- FASCIOLITES**, Parkinson. Organ. Rem. former World, iii, 1811, 158, x, 28-31 [= *Alveolina*].
- Parkinson, Introd. Study Foss. Organ. Rem. 1822, 167, vi, 14 [= *Alveolina*].
- *elliptica*, Sowerby. Trans. Geol. Soc. Lond. [2], v, 1837 (1840), 327, 7 and 9, and explan. of plates, xxiv, 17, 17a [v. *Alveolina*].
- [**FASCICOLITES**] ——— Carter, Annals and Mag. Nat. Hist. [2], xi, 1853, 171, vii, 17.
- [**FASCICOLITES**] ——— Carter, Journ. Bombay Br. R. Asiatic Soc. v, (18), (1853), 134, ii, 17.
- Carter, Geol. Papers Western India, 1857, 452, xviii, 17 and 17a; 543, xxiii, 17.
- [**FASCICOLITE**], Carter. Journ. Bombay Br. R. Asiatic Soc. iii, 1849, 168, viii, 2a, b.
- FAUJASINA**, d'Orbigny, 1839. De la Sagra, Hist. phys. Cuba, 1839, “Foraminifères,” 109; and Foram. Fossiles Vienne, 1846, 193.
- *carinata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 194, xxi, 29-31.
- Bronn, Lethæa Geognostica, ed. 3, ii, 1851-52, 89, xxix¹, 17a-c.
- Costa, Atti Accad. Pontaniana, vii, (2), 1856, 269, xx, 7 [error for 13].
- [**FAUJASSINA**] *orbigny*, Terquem. Mém. Soc. Géol. France, [3], ii, 1882, 49, ii (x), 28a-c.
- sp., Williamson. Trans. Microsc. Soc. London, [2], i, 1853, 87, x, 1-6 [= *Rotalia Schræteriana*] [structural].
- Hogg. Microscope, 1886, 380, f. 208 [structural].
- FAVUS** *globatus*, Schafhäütl. Geogn. Unters. sudbayer. Alpengeb. 1851, 49, xiii [misprinted in text, xviii], f. 18 [an “oolitic granule;” may be *Lagenæ*].
- FENTULAIRES**, A. Boué. Guide Géol.-Voy. 1836; misprint for *Textulaires*; corrected in his “errata.”
- 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 *Rotalina*.”
- *rhodiensis*, Terquem. *Ibid.* [3], i, 1878, 80, ix (xiv), 25a-c.
- FISSURINA**, Reuss, 1849. Denkschr. k. Ak. Wiss. Wien, i, 1850, 366. [*Lagenæ* 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. *Lagenæ*].
- *acuta*, Seguenza. Foram. monotal. miocen. Messina, 1862, 57, i, 51 [= *F. bianca*, Seg.].

- FISSURINA alata**, Reuss. Zeitschr. deutsch. geol. Ges. 1851, 58, iii, 1.
 Pictet, Traite de Paleont. ed. 2, iv, 1857, 483, cix, 3.
 Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 339,
 vii, 87.
 Franzenau, Math. termész. értesito, vii. 1889. 249, v, 4.
- **aperta**, Seguenza. Foram. monotal. miocen. Messina, 1862, 60, i, 60
 [= *L. marginata*, W. & I.].
- **apiculata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 339,
 vi, 85 [*Oolina*, 1850].
- Terquem, Mém. Soc. Géol. France, [3], II, 1882, 30, i (ix),
 18.
- **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, xvib, 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.].
- Terquem, Ess. Anim. Plage Dunkerque, (2), 1876, 68, vii,
 10a, b; (and Mém. Soc. Dunkerquoise).
- Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 25, pl., 2.
 Terquem, Mém. Soc. Géol. France, [3], II, 1882, 31, i (ix),
 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.].
- **deltoides**, Seguenza. *Ibid.* 1862, 57, i, 45 [= *L. marginata*, W. & I.].
- **dentata**, Seguenza. *Ibid.* 1862, 58, i, 55.
- **dilatata**, Seguenza. *Ibid.* 1862, 65, ii, 21 [= *L. marginata*, W. & I.].
- **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,
 45.
- **globosa**, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1853, 317, xii,
 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].
 Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 242, xxxv³,
 4a, b.
- Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 338,
 vi, 84.
- Terquem, Mém. Soc. Géol. France, [3], II, 1882, 30, i (ix),
 17a, b.

- FISSURINA** *laevigata*, Reuss. Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1049, lxxxvi, 3.
- *laevis*, Seguenza. Foram. monotal. miocen. Messina, 1862, 66, ii, 22 and 23 [not *Lag. laevis* (Montagn)] [= *L. marginata*, W. & I.].
- *latistoma*, Seguenza. *Ibid.* 1862, 57, i, 46 and 47 [= *L. marginata*, W. & I.].
- *longirostris*, Seguenza. *Ibid.* 1862, 70, ii, 41.
- *lyellii*, Seguenza. *Ibid.* 1862, 71, ii, 48 and 49 [= *L. marginata*, W. & I.].
- *macroptera*, Seguenza. *Ibid.* 1862, 70, ii, 44.
- *marginata*, Seguenza. *Ibid.* 1862, 66, ii, 27 and 28 [= *L. marginata*, W. & I.].
- *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.].
- *pecciolii*, 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.
- *rizzæ*, 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, 56, 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.].
- *trapezoidea*, Seguenza. *Ibid.* 1862, 68, ii, 34 [= *L. ornata*, Will.].
- *tricarinata*, Terq. Mém. Soc. Géol. France, [3], II, 1882, 32, i (ix), 25–28.
- *tricincta*, Terq. *Ibid.* [3], II, 1882, 30, i (ix), 19a, b.

- FISSURINA tricuspidata**, Reuss. Sitz. k. Ak. Wiss. Wien, LXII, (1), 1870, 470; figured by v. Schlicht "Foram. Septar. Pietzpuhl," 1870, v, 16-18.
- **tubulosa**, Seguenza. Foram. monotal. miocen. Messina, 1862, 68, ii, 36 and 37 [= *L. marginata*, W. & I.].
- **zanclea**, Seguenza. *Ibid.* 1862, 61, ii, 5 [= *L. marginata*, W. & I.].
- v. Schlicht. "Foram. Septar. Pietzpuhl," 1870, plates iv, v.
- FLABELLINA**, d'Orbigny, 1835 (1839). De la Sagra's Hist. phisiqu., etc., Cuba, 1839, "Foraminifères," 42.
- **agglutinans**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 333, xxiv, 23a, b, 24.
- **ambigua**, Terquem. Sixième Mém. Foram. Lias, 1866, 519, xxii, 13a, b.
- **anceps**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 325, xxiii, 25a, b [cf. *Cristell. anceps*].
- ——— Terquem, Cinquième Mém. Foram. Oolithique, 1883, 348, xxxviii, 13.
- **anomala**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 329, xxiv, 12a, b [cf. *Crist. anomala*].
- **baudouinana**, d'Orbigny. Mém. Soc. Géol. France, (1), IV, 1840, 24, ii, 8-11; and Facsimile in Science Gossip, 1870, 106, f. 104.
- ——— Reuss, Verstein. Böhm. Kreide, 1845-6, I, 32, viii, 36.
- [**baudouiniana**], ——— Bronn, Lethæa Geognostica, ed. 3, II, 1851-52, 82, xxix¹, 20.
- [**baudouiana**], ——— Jones, Lecture Geol. Hist. Newbury, 1854, 48, ii, 55a.
- [**baudouina**], ——— Mantell, Medals Creation, ed. 2, 1854, 347, f. 111, 4a, b.
- **bicostata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863 427, x, 14.
- **budensis**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 37, iv, 17; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 44, same pl. and fig.
- **carinata**, Costa. Atti Accad. Pontaniana, VII, (2), 1856, not descr., xx, 10.
- **cenomana**, d'Orbigny, 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 185, No. 753.
- **centralis**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 332, xxiv, 22a, b [cf. *Crist. centralis*].
- ——— Terquem, Bull. Soc. géol. France, [3], IV, 1876, 492, xvi, 22.
- ——— Terquem, Cinquième Mém. Foram. Oolithique, 1883, 348, xxxviii, 14.
- **centro-gyrata**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 332, xxiv, 21 [cf. *Crist. centro-gyrata*].
- **clathrata**, Terquem. *Ibid.* XLIV, 1863 429, x, 8 [18] a, b.
- **condata**, Reuss. Nenes jahrb. 1849, 839, error for *F. cordata*.
- **cordata**, Reuss. Geogn. Skizze Böhmen, II, 1844, (1), 213.
- ——— Reuss, Verstein. Böhm. Kreide, 1845-6, I, 32, viii, 37-46, 78.
- ——— Reuss, in Geinitz, Grundr. Verstein 1845-46, 659, xxiv, 25.
- ——— Reuss, Denkschr. k. Ak. Wiss. Wien, VII, (1), 1854, 67, xxv, 6a, b, 7, 8.
- ——— Carpenter, Parker & Jones, Introd. Foram. 1862, xii, 6.
- ——— Reuss' Model No. 24, 1865 (Catal. No. 54, 1861 [= *F. oblonga*, v. M]).
- ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 30.
- ——— Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 198, vii, 26.
- ——— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1052, lxxxvi, 19 and 20.
- ——— Prestwich, Geology, 1888, II, 290, 151a.
- **crstellarioides**, Karrer. Abh. k. k. Geol. Reichs. IX, 1877, 381, xvib, 31.
- **cuneata**, v. Münster. Reuss, Neues Jahrbuch, 1849, 839, x, 26 [*Fronduculina*, 1838].

- FLABELLINA cuneata**, v. Münster. Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 231, ii, 29.
 ————— Reuss, *Ibid.* L, (1), 1864 (1865), 460, ii, 8.
 ————— Brady, Q. Journ. Micr. Sci. xix, 1879, 271, viii, 7.
 ————— **cuneiformis**, Terquem. Sixième Mém. Foram. Lias, 1866, 522, xxii, 17a, b, 18a, b, 19.
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- **gibba**, d'Orbigny. *Ibid.* VII, 1826, 277, No. 10.
- **globosa**, v. Hagenow. Neues Jahrb. f. min. 1842, 571.
- **globosa**, Hantken. Ertek. Termesz. köreböl. XIII, No. 1, 1883, 11, ii, 3a, b; and Math. Nat. Ber. Ungarn, II, 1884, 132.
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- ——— Hogg, Microscope, 1886, xviii, iii, 82.
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- **liasina**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], X, 1875, 60, v (xv), 7.
- **libani**, Ehrenberg. Mikrogeologie, 1854, xxv, I, A, 30 [perhaps *Gl. stellata*; = *G. cretacea*].
- **linnæana** (d'O.). Brady, Report Challenger, 1884, 598, cxiv, 21a-c; cretaceous specimen, lxxxii, 12a, b [v. *Rosalina*, 1839].
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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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- **neroidum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 282.
- **oblonga**, d'Orb. Ann. Sci. Nat. vii, 1826, 277, No. 4.
- **omphaloletas**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 282.
- ———— Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 11.
- **oolithica**, Terquem. Cinquième Mém. Foram. Oolithique, 1883, 365, xli, 11a, b.
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- (*Orbulina*) **porosa**, Terq. Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, vi, 18 [*Orbulina*, 1884, *Globulina*, 1858].
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- ———— Costa, Atti Accad. Pontaniana, vii, (2), 1856, 240, xx [error for xxi], 3A, B.
- ———— Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 187, i, 19.
- ———— Malagoli, Atti Soc. Nat. Modena, (3), vii, 1888, 113, iii, 6.
- **regularis**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 125, xvi, 2a, b. (& Mém. Soc. Dunkerquoise).
- **reticulata**, Stache. Novara-Exped., Geol. (1), 1864, 287, xxiv, 37a, b.
- **rotundata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 277, No. 6.
- **rubra**, d'Orbigny. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 82, iv, 12-14; also in Spanish, 1840, 94, same pl. and fig.
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- ———— Brady, Report Challenger, 1884, 602, lxxix, 11-16.
- ———— Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 225, xlv, 12.
- **rubra**, Ehrenberg, 1857 = *Pylodexia rubra*. Monatsber. k. preuss. Ak. Wiss. Berlin, 1872, 282.
- **sacculifera**, Brady. Geol. Mag. (2), iv, 1877, 535 [not figured].
- ———— Brady, Report Challenger, 1884, 604, lxxx, 11-17; lxxxii, 4.
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- **siphonifera**, d'Orbigny. De la Sagra, Hist. Phisiq., etc., Cuba, 1839, "Foraminifères," 83, iv, 15-18; also in Spanish, 1840, 95, same pl. and fig.
- **spirata**, Bornemann. Zeitschr. deutsch. geol. Ges. vii, 1855, 342, xvi, 9.
- **stellata**, Ehrenberg. Mikrogeologie, 1854, xxvi, 45 ["compare *G. libani*"] [= *G. bulloides*].
- **taminensis**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 24, iii, 26 and 29; and section of the shell, x, 600 [= *G. bulloides*].
- **ternata**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 247.
- ———— Ehrenberg, Mikrogeologie, 1854, xxxv, B, iv, 5 and 6 [= *Globig. bulloides*].
- **trifoliata**. K. Miller. Schr. Ver. Gesch. Bodensee, vii, 1877 [78], iv, 24 [cast or concretion ?].

- GLOBIGERINA trigonula**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 277, No. 7.
 ——— **triloba**, Reuss. Denkschr. k. Ak. Wiss. Wien, 1, 1850, 374, xlvii, 11.
 ——— [**trilobata**] ——— Costa, Atti Accad. Pontaniana, vii, (2), 1856, 241, xxi, 4A, B.
 ——— ——— Egger, Neues Jahrbuch, 1857, 282, xi, 11–13.
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 ——— **trilocularis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 277, No. 2.
 ——— ——— Roemer, Neues Jahrbuch, 1833, 390, iii, 41a.
 ——— **trochoides**, Reuss. Verstein. Böhm. Kreide, 1845–6, 1, 36, xii, 22.
 ——— ——— Reuss, Haidinger's Naturw. Abh. iv, (1), 1851, 37, iii, 5.
 ——— (**Orbulina**) **tuberculata**, Costa, var. **verrucosa**, Terrigi. Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 186, iii, 27 [*Orbulina*, 1838].
 ——— (**Orbulina**) **universa**, d'O. S. R. J. Owen, Journ. Linnæan Soc.-Zool. ix, 1867, 149, v, 1 [*Orbulina*, 1839].
 ——— var. d'Orb. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 90, vi, 194.
 ——— (**Orbulina**) ——— Fornasini, Boll. Soc. Geol. Ital. ii, 1883, 189, ii, 11a–d [2- and 3-chambered *Globigerina*].
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 ——— (**Orbulina**) ——— Terrigi, Mem. R. Acc. Lincei, (4), vi, 1880, 114, vi, 16–17.
 ——— **vulgaris**, Dunikowski. Kosmos [Lemberg], iv, 1879, 130, pl., 24.
 ——— n. sp., Chimmò, Nat. Hist. Euplectella, etc., 1878, 13 and 26, vi, 2 [= *G. digitata*, Brady].
 ——— sp. ind., Hopkins. Execut. Doc., 45 Congress, Sess. 3, iv, Rept. Chief Engineers, (2), App. W, 1878 79, 885, ii, 72.
 ——— Soldani. Testac. 1, (2), 1791, 117, pl. 123 (all except K), pl. 124 (all except Z), pl. 125 and half those of pl. 126.
 ? Ehrenberg, Mikrogeologie, 1854, xx, ii, 15 [= *G. bulloides*].
 [**GLOBIGERINA**] ? *Ibid.* 1854, xxxv, B, iv, 26.
 ——— sp., P Ehrenberg. *Ibid.* 1854, xxxv, B, iv, A, e, f, m [= *G. bulloides*].
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 ——— sp., Harting. Verh. Kon. Ak. Wetensch. x, 1864, 9, i, 8 and 9.
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 ——— Neumayr. Stämme d. Thierreiches, 1, 1889 (8), 187, f. 28a.
 ——— Moseley, Naturz. (Ap. 15, 1880), xxi, 569, f. 10.

- GLOBIGERINA**, Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 201, vii, 29.
- Schacko, Arch. f. Naturgesch. (Wiegmann's), 1883 (49th Jahrg.), I, 429, etc., xiii, 2-6.
- sp. Schwager, Palæontographica, xxx, 1883, Pal. Theil, 118, xxvii, (4), 6a-d.
- glauconite casts of. Gümbel, Sitz. k.-bay. Ak. Wiss. xvi, 1886, 449, plate, 1 and 2.
- ? (hispid. var). See *Sphærule 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).
- **amplectens**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 81, vi, 44.
- Bornemann, Zeitschr. deutsch. geol. Ges. xii, 1860, 160, vi, 12a, b, c.
- **amygdaloides**, Reuss. *Ibid.* iii, 1851, 82, vi, 47 [v. *Polymorphina lactea*, var.].
- **asperula**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 646, ii, 81a, b.
- **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. Phisiq. 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.
- **deformis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 267, No. 27.
- **depressa**, d'Orbigny. *Ibid.* vii, 1826, 267, No. 26.
- Terq., Mém. Soc. Géol. France, [3], ii, 1882, 131, xiii (xxi), 28-30.
- **discreta**, Reuss. Denkschr. k. Ak. Wiss. Wien, i, 1850, 378, xlvi, 10.
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- **elongata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 267, No. 24.
- (?) **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.
- **grateloupi**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 267, No. 23.
- **guttula**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 82, vi, 46 [v. *Polymorphina*].
- Pictet, Traité de Paléont. 2 ed., iv, 1857, 518, cix, 38.

- GLOBULINA** *helvetica*, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 29, iii, 40 [= *Polym. liasica*, Strickl.].
- *hispidata*, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 131, xiii (xxi), 32.
- *horrida*, Reuss. Verstein. Böhm. Kreide, 1845-6, II, 110, xliii, 14.
- Reuss, Haidinger's Naturw. Abh. IV, (1), 1851, 43, IV, 8 [v. *Polymorphina*].
- 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.
- *iacrima*, Reuss. Verst. Böhm. Kreide, (1), 1845, 40, 110, xiii, 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.
- *laevis*, 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 [v. *Polymorphina*, 18'8].
- *nuda*, Schwager. In Dittmar, Die Contorta-Zone, 1864, 201, III, 14.
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- *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.
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- *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.
- *quadriscopiosa*, 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, I, (1), 1864 (1865), 469, III, 4a, b [v. *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.
- **tubulifera**, 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."]
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- 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, 1263.
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- 2 sp. Buvignier, Stat. géol. etc., Meuse, 1852, Atlas, 47, pl. xxxii.
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- **anglica**, Ehr. Mikrogeologie, 1854, xxviii, 32 [= *Virg. hemprichii*].
- ? —— **parisiensis**, Ehr. *Ibid.* 1854, xxvii, 30 and 31 [= *Spheroid. 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 [= *Vulvul. aculeata* (Ehr.)].
- ——— *Ibid.* 1854, xxviii, 17 [near *Verneuil. spinulosa*, Reuss].
- ——— *Ibid.* 1854, xxx, 13 ("Textil. spinosa, 1838, partly") [*T. subangulata*, d'O ; compare *T. murice*].
- **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, 85, i, 60.
- **amphirhoë**, 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.) *Gutulina 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 ———— **(Strophoconus?) bulligerum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
 ———— **bursigerum**, Ehr. Mikrogeologie, 1854, xxxvii, xi, A-D, 9 [= ? *Textularia*].
 ———— **caloglossa**, Ehr. *Ibid.* 1854, xxv, i, 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 *Bolivina*].
 ———— **denticulatum**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 271.
 ———— **depressum**, Ehr. *Ibid.* 1844, 93; and Mikrogeologie, 1854, xix, 82 [= *Text. gibbosa*].
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 ———— 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 [= *Bolivina*].
 ———— **divergens**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 67, 93 and 206 [v. *Gutulina*].
 ———— Ehr., Mikrogeologie, 1854, xxi, 86 [= *Boliv. dilatata*].
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 ———— P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 170, xi, 123.

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- ? — **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*].
- **falx**, 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*].
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- **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**?, Ehr. Mikrogeologie, 1854, xxv, i, A, 15 [= ?*Virg. henprichii*].
- ? — — — — — *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*].
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- — — — — see *Nautilus* (O.) and *Vulvulina*.
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- — — — — *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*].

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- **platythea**, 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.
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- *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*].
- **polythea**?, Ehr. *Ibid.* 1854, xxxiii, 8.
- (prox.) *Ibid.* Ehr., Bericht k. preuss. Ak. Wiss. Berlin, 1854, 247.
- ? 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.
- Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), xi, 5.
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- **rhomboidale**, Ehr. Mikrogeologie, 1854, xxiii, 17.
- Ehr. *Ibid.* 1854, xxix, 28 [= *Virg. squamosa*].
- 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.
- Ehr., Mikrogeologie, 1854, xx, ii, 9 [= *Boliv. costata*].
- **tenellum**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283.
- Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), vi, 14a, b.
- **tenue**, Ehr. *Ibid.* 1841, 426, iii, vii, 45 [= *Virgul. schreibersii*, Czj.].
- **tessera**, Ehr. Mikrogeologie, 1854, xxxii, ii, 18 [= *Virg. hemprichii*].
- **thebaicum**?, Ehr. *Ibid.* 1854, xxiii, 19 [v. *Bolivina*] [= ?*Virg. hemprichii*].
- *Ibid.* 1854, xxiv, 20 and 21 [= *Boliv. dilatata*].
- *Ibid.* 1854, xxvii, 12 [= between *Text. agglutinans* and *Text. sagittula*].
- *Ibid.* 1854, xxxi, 25 [= *Virg. schreibersii*].
- **thoæ**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 22.
- 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. hemprichii*].
- **umbra**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 283 and 284.
- Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 6.

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- **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.
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- P ——— Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1847, 446, ii, 80 [*T. agglutinans*, d'O.].
- *Ibid.* 1855, 161, ii, v [*Glauc.*] [= *Text. sagittula*].
- GROMIA**, Dujardin, 1835. Ann. Sci. Nat. Zool. [2], iv, 1835, 345.
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- **dubia**, Gruber. Nova Acta k. Leop.-Carol. deutsch. Ak. Nat. XLVI, 1884, 489, viii, 12.
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- **fluviatilis**, Dujardin. Hist. Nat. Zooph. Infusoires, 1841, 255, i, 17; ii, 182.
- **gracilis**, Möbius. Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), iii, 30-37b.
- **granulata**, Archer. Quart. Journ. Micro. Sci. xvi, 1876, 343.
- **hyalina**, P. Schlumberger. Ann. Sci. Nat. [3], iii, 1845, 255 [= *Pamphagus fide*, Leidy].
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- **liasica**, Terquem. Cinquième Mém. Foram. Lias, 1866, 402, xx [error for xv], 1 and 2 [*G. liasina* in descr. of plate]. (Referred to *Gromia* with some doubt; they resemble similar forms from Red Sea, Syrian coast and Algerian coast).
- **oviformis**, Dujardin. Ann. Sci. Nat. Zool. [2], iv, 1835, 345, etc., ix, 1 and 2.
- ——— Dujardin, Hist. Nat. Zooph. Infusoires, 1841, 253, i, 16.
- ——— Schultze. Organismus Polythal. 1854, 54, pl., i.
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- ——— Carpenter, Parker & Jones, Introd. Foram. 1862, 64, iii, 2.
- (——) ——— Haeckel, Das Protistenreich, 1878, 35, f. 19.
- ——— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 187, iv, 6.
- ——— Carpenter, The Microscope, ed. 6, 1881, 478, f. 283.
- ——— Möbius, Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), ii, 28 and 29.
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- ——— Archer, Quart. Journ. Micro. Sci. xvii, 1877, 201, xii, 5.
- **socialis**, Archer. *Ibid.*, n. s., x, 1870, 124, xx [ix], 7-11 [see *Microgromia*].
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- ——— Rept. U. S. Geol. Surv. Territories, xii, 1879, 277, xlvii, 1-4.
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- **aculeata**, Ehrenberg. Mikrogeologie, 1854, xxvii, 35 [= *Verneuil. pygmaea*. Egg. and near *V. spinosa*, Reuss].
- **æquivoca**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr., xviii, 8.
- **armata**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 23 [v. *Grammost. ? armatum*, 1854"].
- **austriaca**, d'Orbigny. Foram. Fossiles Vienne, 1846, 223, xii, 23-25 [v. *Polymorphina*].
- ——— Pictet, Traité de Paléont. ed. 2, iv, 1857, 5-18, cix, 37.

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 ——— Terquem, Ess. Anim. Plage Dunkerque, (2), 1876, 78, x, 13-17 (and Mém. Soc. Dunkerquoise).
 ——— v. **ovalis**, Terquem. *Ibid.* (3), 1881, 131, xvii, 6 (and Mém. Soc. Dunkerquoise).
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- ——— = *Rotalia orbicularis* (d'O.), q. v.
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————— see *Nautilus melo spiralis*.

GYROPORELLA, Gümbel, 1871. Abh. k. bay. Ak. Wiss. xi, 1871 (1874), 231 [a genus of calcareous algæ, v. Munier-Chalmas, Comptes Rendus, lxxxv, 1877, 815; and Solms-Laubach, Einleit. Palæophytologie, 1887, 38, etc.].

The species described by Gümbel (to whom refer for synonymy) are: *æqualis*, G.; *annulata* (Schäffh.); *curvata*, G.; *cylindrica*, G.; *debilis*, G.; *dissita*, G.; *infundibuliformis*, G.; *macrostoma*, G.; *minutula*, G. [*minuta*]; *multiserialis*, G.; *pauciperforata*, G.; *silesiaca*, G.; *triasina* (Schaur.); *vesiculifera*, G.

See also Karrer, Abh. k. k. Geol. Reichs. ix, 1877, 377, xvib; 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. Neumayr, 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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 ———— **fontinense**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 337, xxiv, 29, 30a, b.
 ———— Brady, Report Challenger, 1884, 305, xxxiv, 1-4.
 ———— var. Haeusler, Neues Jahrbuch, Beil. iv, (1), 1885, 13, i, 21; ii, 1 and 2.
 ———— **globigeriniforme** (Parker & Jones). Carpenter, The Microscope, ed. 6, 1881, 561, f. 320a, b [*Lituola nautiloidea*, var. 1865].
 ———— Balkwill & Millett, Journ. Micr. iii, 1884, 25, i, 5.
 ———— Brady, Report Challenger, 1884, 312, xxxv, 10 and 11.
 ———— **glomeratum** (Brady). Wright, Proc. Belf. Field Club, 1880-81 (App.), 180, viii, 1, 1a [*Lituola*, 1878].
 ———— Brady, Report Challenger, 1884, 309, xxxiv, 15-18.
 ———— Balkwill & Millett, Journ. Micr. iii, 1884, 25, i, 6.
 ———— **grande**, Reuss. Sitz. k. Ak. Wiss. Wien, LII, (1), 1865 (1866), 446, pl., 3.
 ———— **humboldtii**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 119, i, 1-4 [*Spirolina*, 1851].
 ———— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 9, ii, 3 and 4; and Mitth. a d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 11, same pl. and fig. [*H. humboldtii* in text].
 ———— Andreae, Abh. geol. Specialkarte Elsass-Lothr. ii, (3), 1884, 198, vii, 2.
 ———— v. **latum**. *Ibid.* ii, (3), 1884, 198, vii, 1.
 ———— Steinmann, Elem. Paleont. i, 1888, 21 and 26, f. 3D, 7D.
 ———— **incisum**, Stache. Novara-Exped., Geol. (1), 1864, 165, xxi, i.
 ———— **inflatum**, Karrer. Sitz. k. Ak. Wiss. Wien, XLV, (1), 1861 (1862), 449, ii, 7 [error for 6].
 ———— **inflatum**, Reuss. Reuss' Model, No. 3, 1865 (Catal. No. 3, 1861) [= *H. nautiloides*, Lam.].

- HAPLOPHRAGMIUM** *infrajurensis*, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 337, xxiv, 27, 28a, b.
- *irregulare* (Röm.). Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 219, x, 9a, b; xi, 1 [*Spirolina*, 1840].
- — — — — Reuss' Model, No. 70, 1865 (Catal. No. 4, 1861).
- — — — — Zittel, Handbuch Palæont. I, 1876, 66, f. 4¹ and 76, f. 9.
- [*irregolare*] — — — Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 85.
- — — — — Hoernes, Elem. Palæont. 1884, 32, f. 24; French ed., 1886, same fig.
- — — — — Gumbel, Geol. Bayern, I, (2), 1885, f. 266, 3.
- — — — — Fric, Arch. Nat. Landesd. Böhmens, VII, 1889, 117, woodcut 165.
- *jeffreysii*, Berthelin. Ann. Soc. Acad. Nantes, 5, VIII, 1878, 227, No. 20.
- *lagenarium*, Berthelin. Mém. Soc. Géol. France, [3], I, 1880, 21, i (xxiv), 2a, b.
- *latidorsatum* (Born.). Brady, Report Challenger, 1884, 307, xxxiv, 7-10, 14 [*Nonionina*, 1855].
- — — — — Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 218, xli, 14 and 22.
- *lituus*, Karrer. Sitz. k. Ak. Wiss. Wien, XLIV, (1), 1861 (1862), 450, ii, 6 [error for 7].
- *lobsannense*, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, (3), 1884, 198, vii, 3 and 4.
- *maoricum*, Stache. Novara-Exped., Geol. (1), 1864, 166, xxi, 2.
- *nanum*, Brady. Quart. Journ. Micr. Soc. XXI, 1881, 50.
- — — — — Brady, Ann. Mag. Nat. Hist. [5], VIII, 1881, 406, xxi, 1a, b, c.
- — — — — Brady, Denkschr. k. Ak. Wiss. Wien, XLIII, (2), 1882 (1881), 99, ii, 1a-c.
- — — — — Brady, Report Challenger, 1884, 311, xxxv, 6-8.
- — — — — var. Haensler, Neues Jahrbuch, Beil. IV, (1), 1885, 14, ii, 10 and 11.
- — — — — Brady, Parker & Jones, Trans. Zool. Soc. XII, (7), 1888, 218, xli, 20.
- *nonioninoides*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 30, i, 8a, b.
- *ovatum* (v. Hagen). Reuss, *ibid.* XLIV, (1), 1861 (1862), 328, v, 8 and 9 [*Orbignyina*, 1842].
- *pariense*, Terquem. Mém. Soc. Géol. France, [3], II, 1882, 54, iii (xi), 11a, b.
- *pictonicum*, Berthelin. Revue Mag. Zool. 1879, 26, i, 1 and 2.
- *placenta*, Reuss. Andreae, Abh. geol. Spezialkarte Elsass-Lothr. II, (3), 1884, 197, vii, 6 [*Nonionina*, 1851].
- *podolicum*, Alth. Pamietnik Akad. Umiej. Krakowie, VI, 1881, 133, xi, 17.
- — — — — Mojsisovics und Neumayr's Beiträge Pal. Oest.-Ungarn, I, 1882, 316, xxviii, 17.
- *pseudospirale* (Will.). Brady, Report Challenger, 1884, 302, xxxiii, 1-4 [*Proteonina*, 1858].
- — — — — Balkwill & Wright, Trans. R. Irish Ac. XXVIII (Sci.), 1885, 330, xiii, 6-8.
- *pusillum*, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, (3), 1884, 148, no fig.
- *rectum*, Brady. Carbonif. Foram. Pal. Soc. XXX, 1876, 766, viii, 8 and 9.
- *rotulatum*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 50.
- — — — — Brady, Report Challenger, 1884, 306, xxxiv, 5 and 6.
- *rotundidorsatum*, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 10, i, 2; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 12, same pl. and fig.
- *rugosum* (d'Orb.). Brady, Quart. Journ. Geol. Soc. XLIV, 1888, 4, i, 2 [*Robulina*, 1826].

- HAPLOPHRAGMIUM** *scitulum*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 50.
 ———— Brady, Report Challenger, 1884, 308, xxxiv, 11-13.
 ———— *scruposum*, Berthelin. Mém. Soc. Géol. France, [3], I, 1880, 21, i (xxiv), 1a, b.
 ———— *subglobosum* (M. Sars). Brady, Denkschr. k. Ak. Wiss. Wien, XLIII, 1881, 100, No. 22; and Annals Mag. Nat. Hist. [5], viii, 1881, 406 [v. *Lituola*, 1868; referred to *H. latidorsatum*, in 1884].
 ———— *suprajurassicum*, Schwager. Jahresh. Ver. vat. Nat. Württ, XXI, 1865, 92, ii, 1.
 ———— Haensler, Neues Jahrbuch, Beil. IV, (1), 1885, 13, ii, 9.
 ———— *tenuimargo*, Brady. Proc. Roy. Soc. Edinburgh, XI, 1882, 715.
 ———— Brady, Report Challenger, 1884, 303, xxxiii, 13-16.
 ———— *terquemi*, Berthelin. Mém. Soc. Géol. France, [3], I, 1880, 22, ii (xxv), 1.
 ———— *tuba*, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 600, i, 1.
 ———— *tuberosum*, Terquem. Mém. Soc. Géol. France, [3], IV, 1886, 41, iv, 26-28.
 ———— *turbinatum*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 50.
 ———— Brady, Report Challenger, 1884, 312, xxxv, 9a, c.
 ———— *verruculosum*, Gümbel. Sitz. k.-bayer. Ak. Wiss. München, I, 1871, 63, i, 1a, b.
 ———— *vetustum*, Terq. & Berthelin. Mém. Soc. Géol. France, [2], X, 1875, 53, iv (xiv), 16a-d.
 ———— Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, (16), ii, 1-1e.
 P ———— Wisniosk, Jahrb. k. k. geol. Reichs. XXXVIII, (1889), 695, xiii, 67.
- HAPLOPORELLA**, Gümbel, 1871. Abh. k. bay. Ak. Wiss. XI, 1871 (74), 256. [A genus of Calcareous algæ. See Solms-Laubach, Einleit. Palæophytologie, 1887, 38]. The spp. described by Gümbel (to whom refer for synonymy) are: *annulus* (Park. & Jones) [*Dactylopora*, 1860]; *biscutata*, G.; *digitata* (Park. & Jones) [*Dactylopora*, 1860]; *eruca* (Park. & Jones) [*Dactylopora*, 1860]; *fasciculata*, G.; *glandulosa*, (d'Arch) [*Prattia*, 1850]; *marginoporella* (Mich.); *reticulata*, (Defr.); *scrobiculata*, G.; *vesiculosa*, G.
- HAPLOSTICHE**, Reuss, 1861. Sitz. k. böhm. Ges. Wiss., Jahrg. 1861, (1), 16; Brady, Report Challenger, 1884, 317.
- *clavulina*, Reuss. In Geinitz, Palæontographica, XX, (2), 1874, 121, xxiv, 7 and 8.
 ———— *compressa*, Seguenza. Atti R. Acc. Lincei, [3], VI, 1880, 309, xvii, 17, 17a.
 ———— *constricta*, Reuss. In Geinitz, Palæontographica, XX, (2), 1874, 122, xxiv, 9-12 [*Nodosaria*, 1845].
 ———— *dentalinoides*, Reuss. *Ibid.* XX, (2), 1874, 121, xxiv, 4-6.
 ———— *depressa*, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, IX, 1875, 130, ii, 6.
 ———— *fecundissima*, Reuss. Reuss' Model, No. 1, 1865 (Catal. No. 2, 1861) [*Dentalina*, 1860].
 ———— Reuss in Geinitz, Palæontographica, XX, (2), 1874, 121, xxiv, 1-3.
 ———— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 82.
 ———— Queenstedt, Handbuch Petref. ed. 3, v, (1885), 1050, lxxxvi, 11.
 ———— *horrida*, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 92, ii, 2 [*Haplostiche* in text].
 ———— Zittel, Handbuch Palæont. I, 1876, 76, f. 8².
 ———— Haensler, Neues Jahrbuch, Beil. IV, (1), 1885, 15, i, 26.
 ———— *scarenænsis*, Hantken, Ertek. termesz. köreból, XII, No. 1, 1883, 22, ii, 5; and Math. Nat. Ber. Ungarn, II, 1884, 143.
 ———— *soldanii* (Jones & Park.). Brady, Report Challenger, 1884, 318, xxxii, 12-18 [*Lituola*, 1860].
- HASTIGERINA**, Wyville Thomson, 1876. Proc. Roy. Soc. XXIV, 1876, 534; Brady, Report Challenger, 1884, 612.

- HASTIGERINA** *murrayi*, Wy. T. Murray, Proc. Royal Soc. xxiv, 1876, 534, 22 and 23. [v. *Globigerina*].
 ————— Hertwig, Jenaische Zeitschr. für Naturwiss. xi, 1877, 343, xx, 7 [structural].
 ————— Haeckel, Protistenreich, 1878, 38. f. 24. [This is Murray's fig. of *Globig. bulloides* showing spinous processes.]
 ————— *pelagica* (d'Orb.). Brady, Report Challenger, 1884, 613, lxxxiii, 1-8 [*Nouionina*, 1839].
- HAUERINA**, d'Orbigny, 1839. De la Sagra, Hist. Phys. Ile Cuba, 1839, "Foraminifères," pp. xxxviii. xxxix; Brady, Report Challenger, 1884, 190.
 ————— *alternans*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 211, xx, 5, A, B, C.
 ————— *antiqua*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 35, ii, 1a, b.
 ————— *borealis*, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 46 [referred to *Planispirina contraria*, 1884].
 ————— *circinata*, Brady. *Ibid.* xxi, 1881, 47.
 ————— ————— Brady, Report Challenger, 1884, 191, xi, 14-16.
 ————— *compressa*, d'Orbigny. Foram. Fossiles Vienne, 1846, 119, v, 25-27.
 ————— ————— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 208, xxxv², 10a, b, c.
 ————— ————— Mackie, Recreative Science, I, 1859, 149, f. 33.
 ————— ————— Carpenter, Parker & Jones, Introd. Foram. 1862, 81, vi, 34 and 36.
 ————— ————— Reuss' Model. No. 13, 1865 (Catal. No. 27, 1861).
 ————— ————— Jones in Microgr. Diet. ed. 4, 1883, 383, xxiii, 8^a, b.
 ————— ————— Brady, Report Challenger, 1884, 190, xi, 12 and 13.
 ————— *cristata*, Fischer. Fouds de la mer, I, chap. xvii (1870), 252, no fig. [misspelt *Hauerina*].
 ————— *exigua*, Brady. Q. Journ. Micr. Sci. xix, 1879, 267, no figs. [referred to *Planispirina*, 1884].
 ————— *inconstans*, Brady. *Ibid.* xix, 1879, 268, no figs. [v. *Ophthalmidium*].
 ————— *intermedia*, Howchin. Trans. R. Soc. S. Australia, xii, 1889, 4, i, 6.
 ————— *ornatissima* (Karr.). Brady, Report Challenger, 1884, 192, vii, 15-22 [v. *Quinqueloculina*, 1868].
 ————— *plicata*, Parker & Jones. Carpenter, Parker & Jones, Introd. Foram. 1862, vi, 35.
 ————— sp. Schwager, Boll. R. Com. Geol. Ital. viii, 1877, 27, pl., 105.
 ————— Parker, Trans. Micr. Soc. London, n. s., vi, 1858, 55.
 ————— d'Orb. Butschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 190, iv, 20.
- HELENIS spatosis**, Montfort. Conch. syst. 1, 1808, 195, 49th genre [= *Orbiculina adunca*].
- HELICITE**, Guettard. Mém. diff. parties Science, etc. ii, 1770, 185; iii, 1770, 431, xiii [= *Nummulites*].
 ————— Guettard, Mém. Minéral Dauphiné, ii, 1779, 769 and 831, iv, 1-6 [error for 1-3 [= *Nummulites*].
- HELICITEN**, Walch. Das steinreich systematisch entworfen, ed. 2, I, 1769, 136, viii, 3 [*Nummulites* and *Alveolina*].
 ————— Bummer, Nat. mineral. I, 1763, 320, f. 20.
 ————— Walch, Naturges. Verstein. 1773, (2), 60-66, pl. A, vii [v. *Helicites*].
- HELICITES**, Gesner, Tract. phys. petrif. 1758, 50 [= *Nummulites*].
 ————— *perforatus*, Blainville. Man Malac. 1825, 373 [v. *Nummulina* and *Nummulites*].
 ————— *radiatus*, Blainville. *Ibid.* 1825, 373 [v. *Nummulina* and *Nummulites*].
 ————— Knorr, Recueil d. monumens. 1775, ii, 50, pl. A, vii [v. *Heliciten*].
 ————— Burtin, Oryctographie de Bruxelles, 1784, 103, xxii [*Nummulites*].
- HELICOZA**, Möbius, 1880. Beitr. Meeresfauna Insel Mauritius, etc. 1880, 103 [= *Polystomella*].
 ————— *craticulata* (F. & M.). Möbius, *ibid.* 1880, 103, xii, 2 [*Nautilus*, 1798] [structural].
- HELICOSORINA**, Ehrenberg, 1838. Abh. k. Ak. Wiss. Berlin, 1838 (1840), Tab. 1 [a family group name].
- HELICOTROCHINA**, Ehrenberg, 1838. *Ibid.* 1838 (1840), Tab. 1 [a family group name].

- HELMINTHOLITHUS**, von Born. Index fossilium, Pragæ, 1775, 28 [= *Cyclo-
lites hemisphærica*, an anthozoan].
- HEMICRISTELLARIA**, Stache, 1864. Novara-Exped., Geol. (1), 1864, 222.
 ——— *corculum*, Stache. *Ibid.* (1), 1864, 223, xxiii, 2*a*, *b*.
 ——— *excavata*, Stache. *Ibid.* (1), 1864, 224, xxiii, 3*a*, *b*.
 ——— *infrapapillata*, Stache. *Ibid.* (1), 1864, 224, xxiii, 4*a*, *b*.
 ——— *procera*, Stache. *Ibid.* (1), 1864, 222, xxiii, 1*a*, *b*.
 ——— *verrucosa*, Stache. *Ibid.* (1), 1864, 226, xxiii, 5*a*, *b*.
- HEMICRYPTA**, Folin, 1882. Congrès Scient. Dax, 1882 (1883), 327.
- HEMIFUSULINA**, v. Möller. Neues Jahrbuch, 1877, 144.
 ——— *bocki*, v. Möller. Mém. Ac. Imp. Sci. St. Petersburg, [7], xxv, No. 9,
1873, 76, v, 2*a-e*; xi, 1-3.
- HEMIROBULINA**, Stache. Novara-Exped., Geol. (1), 1864, 227.
 ——— *arcuatula*, Stache. *Ibid.* (1), 1864, 227, xxiii, 6*a*, *b*.
 ——— *compressa*, Stache. *Ibid.* (1), 1864, 229, xxiii, 8*a*, *b*.
 ——— *galeola*, Stache. *Ibid.* (1), 1864, 228, xxiii, 7*a*, *b*.
- HEMISTEGINA**, Kaufmann. Beitr. geol. Karte Schweiz, (5), 1867, 150.
 ——— *rotula*, Kaufmann. *Ibid.* (5), 1867, 150, viii, 19 [v. *Pulvinulina* = *Am-
phistegina*].
- HEMISTEREA nautilus**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin,
1872, 284.
- 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. I, 1808, 231, 58th genre [= *Crist-
ellaria rostrata*].
- HETERASTRIDUM**, Reuss, v. *Stoliczkania*.
- HETEROCYSTINA**, Smedley, Ency. Metrop. 1845, error for *Heterostegina*.
- HETEROHELIX**, Ehrenberg, 1843. [Changed by Ehrenberg to *Spiroplecta* in
1844. See Brady, Challenger, 1884, 375.]
- HETEROLEPA**, Franzenau, 1884. Termés. Füzetek, viii, 1884, 181 and 214
[founded on *Rotalina dutemplei*, d'Or.].
 ——— *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].
 ——— *præcincta*, Franz. *Ibid.* viii, 1884, 183 and 216, v, 4, 6 and 10.
 ——— *simplex*, Franz. *Ibid.* 182 and 215, v, 1.
 ——— ——— Franz. Földt. Közl. xiv, 1884, 298, fig.
- HETEROSTEGINA**, d'Orbigny, 1826. Ann. Sci. Nat. vii, 1826, 305; Brady,
Report Challenger, 1884, 745.
 ——— *antillarum*, d'Orbigny. De la Sagra Hist. Phisiq., etc. Cuba, 1839,
"Foraminifères," 122, vii, 24 and 25; also in Spanish, 1840, 121, same pl.
and fig.
 ——— ——— 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 [= *Am-
phisteg. javanica*, Ehr.] [Glanc.].
 ——— *complanata*, Meneghini. Paléont. Ile Sardaigne, 1857, 544, II, 6, 6', 6*a*,
6*b*, 6*b'*.
 ——— *costata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 212, xii, 15-17.
 ——— ——— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 205, xxxv²,
5*a-c*.
 ——— ——— Reuss' Model. No. 80, 1865 (Catal. No. 100, 1861).
 ——— ——— Roemer, Geologie von Oberschlesien, 1870, 394, xli, 12-14.
 ——— ——— Zittel, Handbuch Palæont. I, 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*, Möblius. 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.
- Terrigi, Mem. R. Acc. Lincei, (4), VI, 1889, 122, x, 1.
- **discorbiformis** (Pusch). Quenstedt, Handbuch Petref. v, 1885, 1058, f. 398 [*Nummulina*, 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**, Rüttimeyer. 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. Kaukas. 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 Hi-tiologicae, 1864, 32 [structural].
- Carpenter, Ency. Brit. ed 9, IX, 1879, "Foraminifera," 382, f. 28.
- Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 215, x, 5.
- Carpenter, The Microscope. ed. 6, 1881, 584, f. 338.
- 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. *Saavina*].
- **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, 3a, b, and 4.
 ——— ——— Brady, *Denkschr. k. Ak. Wiss. Wien*, XLIII, (2), 1882 [1881], 100, ii, 3a, b, 4.
 ——— ——— Brady, Report Challenger, 1884, 325, xxvi, 10-14.
- HOLOCOCCLUS?**, 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, 4a-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*, 1739 ii, App. 141, 5, 37 m, *M* [*Nodos. affinis*, d'O. *For. Foss. Vienne*, 1846, 39, i, 36-39].
 ——— *vaginulam gladii referentia*, Sold. *Ibid.* 1789, ii, App. 141, 6, 44n, *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, i, 10 [= *Dentalina*, deformed].
 ——— *obliqua*, Kübler & Zwingli. *Ibid.* 1866, 9, i, 21 [= *Dentalina*].
- HYMENOCYCLUS**, Bronn, 1851-2. *Lethæa Geognostica*, ed. 3, ii, 1851-52, 94.
 ——— *concameratus*, Schafhäütl. *Süd-Bayerns Lethæa Geogn.* 1863, 108, xiv, 9a-e.
 ——— *cymbolum*, Schafhäütl. *Ibid.* 1863, 107, xiv, 7a, b.
 ——— *faujasi* (Defr.). Bronn, *Lethæa Geognostica*, ed. 3, ii, 1851-52, 94, xxix¹, 29 [*Lycophrys*, 1824].
- P** ——— *mantelli* (Morton). *Ibid.* ed. 3, iii, 1853-56, 253, xxxv³, 11 [*Nummulites*, 1833].
 ——— *papyraceus* (Boub.). *Ibid.* ed. 3, iii, 1853-56, 251, xxxv³, 10a-g [*Nummulites*, 1832].
 ——— *patellaris*, Schafhäütl. *Süd-Bayerns Lethæa Geog.* 1863, 108, xv, 3a, b, c [*Asterodiscus* on plate].
 ——— *rugosus*, Schafhäütl. *Ibid.* 1863, 107, xiv, 6a-d.
 ——— *umbo*, Schafhäütl. *Ibid.* 1863, 106, xiv, 5a-k, 8a-c [*Nummulina*, 1846].
- HYPERAMMINA**, Brady, 1878. *Ann. Mag. Nat. Hist.* [5], i, 1878, 433; Brady, Report Challenger, 1884, 257.

- HYPERAMMINA arborescens** (Norm.). Brady, Report Challenger, 1884, 262, xxviii, 12 and 13; and f. 10, p. 263 [*Psammotodendron*, 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.
 ——— Goës, 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.
 ——— ▲gassiz, 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. n (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.). Mun.-Ch. & Schlumb., *Ibid.* [3], xiii, 1885, 292, f. 17; 296, etc., f. 22-35; and pl. xiii [structural] [*Biloculina*, 1847].
- ILOTES rotalatus**, Montfort. Conch. Syst. i, 1808, 199, 50th genre [= *Orbic. adunca*].
- ILOYEGMA**, de Folin. Bull. Soc. N. H. Toulouse, xv, 1881, 139; not described, 1 species proposed.
- ILOYERIDIA**, de Folin. *Ibid.* xv, 1881, 139; not described, one species proposed.
- ILOYSPHÆRA**, de Folin, 1882. Congrès Scient. Dax, 1882 (1883), 328 [not described].
- ILOYZOTIKA**, de Folin. Bull. Soc. N. H. Toulouse, xv, 1881, 139; not described, 1 species proposed.
- INVOLUTINA**, Terquem, 1862. Mém. Ac. Imp. Metz, xi, 1862, 450.
 ——— **aspera**, Terquem. *Ibid.* XLIV, 1863, 431, x, 21a, b [= *Ammodiscus 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.
 ——— **déslongchampsii**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 432, x, 12 [22] a, b [v. *Problemolina*].
 ——— **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. *Problematica*].
- **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. *Problematica*].
- **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 [= *Ammodiscus incertus*].
- **subrotundata**, Brady. Rept. Brit. Assoc. [Exeter], 1869, 382, not figured.
- ITEITÆ**, Scheuchzer. 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.
- **vailanti**, 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. 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, i, 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, Journ. R. Micr. Soc. [2], VI, 1886, 744, xiv, 14.
 ——— Terquem, Mém. Soc. Géol. France, [3], IV, 1886, 6, i, 5.
 ——— Haecster, Neues Jahrb. 1887, I, 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.
 ———— Balkwill & Wright, Trans. R. I. Ac. XXVIII (Sci.), 1885, 337, xiv, 10-12.
 ———— Haensler, Neues Jahrb. 1887, I, 185, v, 14-18.
auriculata, Brady. Quart. Journ. Micros. Sci. XXI, 1881, 61.
 ———— Brady, Report Challenger, 1884, 487, ix, 29, 33.
 ———— var. **costata**, Brady. Quart. Journ. Micros. Sci. XXI, 1881, 61.
 ———— Brady, Report Challenger, 1884, 487, ix, 38.
 ———— v. **substriata**, Brady. Quart. Journ. Micros. Sci. XXI, 1881, 61 [referred in 1884 to *L. alveolata*, q. v.].
badensis, Zwingli & Kübler. Foraminif. Schweiz. Jura, 1870, 38, iv, Badener Schicht I [= *L. luvvis*].
bicarinata (Terquem). Balkwill & Millett, Journ. Micr. III, 1884, 82, ii, 4 [*Fissurina*, 1882].
 ———— (trigonal form) ———— Balkwill & Millett, *ibid.* III, 1884, 82, iii, 9.
 ———— Balkwill & Wright, Trans. R. I. Ac. XXVIII (Sci.), 1885, 342, xii, 30.
 ———— Wright, Proc. Belfast Nat. Field Club, 1884-5, App. IX, 1886, 320, xxvi, 8a, b.
bifrons, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 607, i, 9a, b.
bittneri, Karrer. Abh. k. k. Geol. Reichs. IX, 1877, 378, xvi^b, 18.
botelliformis, Brady. Quart. Journ. Micr. Sci. XXI, 1881, 60.
 ———— Brady, Report Challenger, 1884, 454, lvi, 6.
bradyana, Fornasini. Boll. Soc. Geol. Ital. vii, 1888, 47, iii, 8.
bullæformis, Schwager. Benecke's Geogn.-Pal. Beiträge, I, 1868, 655, xxxiv, 5.
 ———— Deecke, Abh. geol. Specialkarte Elsass.-Lothr. IV, (1), 1884, 23, i, 9, 9a.
 ———— Deecke, Mém. Soc. Emul. Montbéliard, XVI, 1886, [18], i, 1-1b.
cæpulla, Schwager. Novara-Exped., Geol. II, 1866, 205, iv, 20a, b.
capillosa (Schwager), v. *Fissurina*.
castrensis, Schwager. Novara-Exped., Geol. II, 1866, 203, v, 22.
 ———— Brady, Report Challenger, 1884, 485, ix, 1, 2 and 3 ?.
 ———— Balkwill & Wright, Trans. R. I. Ac. XXVIII (Sci.), 1885, 341, xii, 20 and 21.
catenulata (Will.) Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 332, vi, 75 and 76 [v. *Entosolenia squamosa*].
 ———— Bütschli in Bronn, Klassen, etc., Thier-Reichs, 1880, 197, vii, 11.
 ———— [Reuss]. Terquem, Mém. Soc. Géol. France, [3], IV, 1886, 7, i, 10.
caudata, d'Orbigny. Reuss, Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 325, iii, 29 [*Oolina*, 1839].
 (———). Parker & Jones, Phil. Trans. 1865, 352, xvi, 7.
 ———— Mackie, Science Gossip, 1867, 129, f. 106.
 ———— Balkwill & Millett, Journ. Micr. III, 1884, 78, i, 9.
 ———— see *L. sulcata*, W. & J. and *L. vulgaris*.
clathrata, Brady. Report Challenger, 1884, 485, ix, 4.
 ———— Balkwill & Millett, Journ. Micr. III, 1884, 82, ii, 14; and iv, 5 (near *castrensis*).

- LAGENA clavata**, d'Orbigny. Mackie, *Recreative Science*, i, 1859, 148, f. 13
[*Oolina*, 1846; v. also *L. vulgaris*].
 ————— Reuss, *Sitz. k. Ak. Wiss. Wien*, XLVI, (1), 1862 (1863), 320,
 i, 13 and 14.
 ————— [Reuss]. Terq. & Berth., *Mém. Soc. Géol. France*, [2], x, 1875, 14,
 i (xi), 7a, b.
 ————— Terquem, *ibid.* [3], II, 1882, 25, i (ix), 2.
 ————— Brady, *Report Challenger*, 1884, 456.
 ————— Brady, *Geol. Mag. dec. 3*, v, 1888, 481, xiii, 4 (?), 5.
 ————— **clavato-punctata**, Seguenza. *Atti R. Acc. Lincei*, [3], VI, 1880, 374,
 xvii, 58.
 ————— **compressula**, Gumbel. *Jahresh. Ver. vat. Nat. Württ.* XVIII, 1862,
 215, iii, 2a, b, c.
 ————— **costata** (Will.). Wright, *Proc. Belf. F. C.* 1876-7 (App), 103, iv, 11, 12
 and 13 [*Entosolenia*, 1858].
 ————— Reuss, *Sitz. k. Ak. Wiss. Wien*, XLVI, (1), 1862 (1863),
 329, iv, 54.
 ————— Terquem, *Mém. Soc. Géol. France*, [3], II, 1882, 27, i
 (ix), 11.
 ————— Balkwill & Wright, *Trans. R. I. Ac. XXVIII (Sci.)*, 1885,
 338, xiv, 3-5.
 ————— Haeusler, *Neues Jahrb.* 1887, I, 184, v, 5.
 ————— **costifera**, Terquem. *Bull. Soc. Zool. Fr.* XI, 1886, 330, xi, 3 and 4.
 ————— **crenata**, Park. & Jones. *Phil. Trans.* 1865, 420, xviii, 4a, b [not *Fissurina*
crenata, Seg.].
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- — — — — **maxima**, Dunkowski. Kosmos [Lemberg], IV, 1879, 105, plate, 3 [= *L. globosa*].
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- — — — — **natrii**, Tate & Blake. Yorkshire Lias, 1876, 453, xviii, 8.
- — — — — **oblonga**, Brown. Illustr. Conch. Gt. Brit. 1827, fly-leaf, i, 38 and 39 [*Vermiculum*. 1803].
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- — — — — Balkwill & Millett, Journ. Micr. III, 1884, 82, iii, 1.
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 v. (*Entosol.*) **globosa**, Mont. Ry. Jones, *ibid.* xxx, 1872,
 49, xix, 1 and 2 [v. *L. globosa*].
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 xix, 48.
 _____ v. **hispida**, Rss. Ry. Jones, *ibid.* xxx, 1872, 62, xix, 50 [v.
L. hispida].
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 _____ v. **pertuso-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 61,
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 _____ v. **petasma-marginata**, Ry. Jones. *Ibid.* xxx, 1872, 58,
 xix, 38, 39.
 _____ 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].
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 _____ 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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v. flosculosa ?].
 — *lævis* (Walk.). Fleming, *Hist. Brit. Anim.* 1828, 235 [v. *Lagena*].
 — *reticulata*, MacGill. *Hist. test. anim.* Aberdeen, etc. 1843, 38 [v. *La-*
gena].
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 gu's *Lagena* under this genus.
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kerquoise) [*Oolina*, 1839].
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- LAMPAS** trithemus, Montfort. *Conch. syst.* 1, 1808, 243, 61st genre [= *Crist.*
cultrata, deformed].
- LAPIDIS** nummalis, Brückmann. *Epist. Itin.* xxxvii, de Foss. Blanckenburgi-
 cis, 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*].
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 — *reticulata*, DeFr. *Dict. Sci. Nat.* xxv, 1822, 287, figured in Blainville,
Actinol. 1834, xvii, 3.
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gena].
- LEKITHIAMMINA**, de Folin, 1881. *Bull. Soc. Nat. Hist. Toulouse*, xv, 136,
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- LENS** striata in utrinque convexa, Scheuchzer. *Misc. Cur. Ac. Leop.-Cæs.*
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 200, f. 4 and 5; and 7th voyage, 478, f. 4 and 5.
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 [and ? f. 75] [*Nummulites*].
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 — Scheuchzer, *Ὀπεραίοντες helveticus*, 1723 [= *Nummulites*].
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 b, c [= *Nummulites*].
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 dani. *Sagg. Orit.* 1780, 105, iii, 29, z; iv, 30, B [= *Nummulites*].

- LENTICULÆ**, Soldani. Sagg. Oritt. 1780, 106; iv, 32, 33, 35 [32 = ? *Amphis-
tagina*; 33 ? *Siderolina*; 35 = ? *Fubularia*].
 ——— Testac. II, 1798 (not I(2)), 110, pl. 26, O [*Robulina planciana*,
d'O. Ann. Sci. Nat. VII, 1826, 290, 20].
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Ann. Sci. Nat. VII, 1826, 290, 21].
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1-7.
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- 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 [= *Polysto-
mella*, q. v.].
 ——— **libyca**, Ehr. Abh. k. Ak. Wiss. Berlin, 1838, 132.
 ——— **nitida**, Ehr. *Ibid.* 1838, 132.
 ——— **orientalis**, Ehr. *Ibid.* 1838, 132.
- ? **pachyderma**, Ehr. Mikrogeologie, 1854, xxxi, 54 [= *Pulvin. caracolla*,
Roem.].
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xxiv, 40 [*Lenticulites*, 1804].
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 ——— **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.].
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1850, 43, xvii, 24.
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 ——— Nilsson, Petref. Suecana, 1827, 7, II, 4A, B.
 ——— Hisinger, Lethæa Svecica, 1837, 32, viii, 2a, b.
 ——— **discorbinus**, Schlotheim. Die Petrefactenkunde, 1820, 89 [v. also *Num-
mulites*].
 ——— **ephippium**, Schlotheim. *Ibid.* 1820, 89 [v. also *Nummulina* and *Orbi-
tolites*].
 ——— **planulata**, Lam. Ann. Mus. v, 1804, 187.
 ——— (et *Lenticulina*) ——— Defrance, Dict. Sci. Nat. xxv,
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- [*planatus*] —— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1054, lxxxvi, 30 and 31.
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- —— Crouch, Introd. Lamarck, 1827, 41, xxii, 6.
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- Pilla, Trattato di Geol. (1), 1847, 461, f. 79 [= *Nummulites*].
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- LENTILLES** de bethehem, Kuorr. Recueil de monuments, II, (1), 1775, 53 [= *Nummulites*].
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- 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. *Gaudryna*].
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- *wagneri*, Claparède & Lachmann, *ibid.* xvi, 1859, 465, xxiv (error for xxiii); Carpenter, Introd. Foram. 1862, 28 and 63, ii; Brady, Report Challenger, 1884, 60.
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 ———— v. **seminuda**, Hantk. Brady, *ibid.* 1884, 518, lxx, 14
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 ———— see *Testæ ovales*, etc., and *Nautili amphorarii*.
 ———— **cordiformis**, Terquem. Mém. Ac. Imp. Metz, li, 1870, 340, xxv, 6.
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 38a, b, c.
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 ———— **decipiens**, Stache. Novara-Exped. Geol. (1), 1864, 193, xxii, 17a, b.
 ———— **decipiens**, Schwager. Pal. Indica, [13], No. 7, 1887, 991, cxxviii, 11a-d.
 ———— **dentaliniformis**, Terquem. Mém. Ac. Imp. Metz, li, 1870, 339, xxv,
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 10-10b.
 ———— **dolium**, Terquem. Mém. Ac. Imp. Metz, li, 1870, 340, xxv, 4 and 5
 [cf. *Fronde. dolium*].
 ———— **elisa**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 115, iv, 20, 20a.
 ———— **glabra**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876),
 35, xiii, 14; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875
 (1881), 42, same pl. and fig.
 ———— **glans**, Stache. Novara-Exped. Geol. (1), 1864, 191, xxii, 14.
 ———— **gracillima**, Costa. Microdoride Mediterranea, 1861, 48, viii, 7B.
 ———— **hasta**, d'Orb. Jones, Cat. Foss. Foram. B. M. 1882, p. 40 [v. *Mucronina*].
 ———— **impressa**, Terquem. Mém. Soc. Géol. France, [3], ii, 1882, 38, i (ix),
 45a, b.
 P—— **intumescens**, Gümbel. Jahrb. k. k. geol. Reichsanstalt, xix, 1869, 182,
 vi, 27.
 ———— **intustiata**, Stache. Novara-Exped., Geol. (1), 1864, 190, xxii, 13a, b.
 ———— **lata**, Gümbel. Gümbel, Anleit. geol. Beob. Alpenreisen Zeitschr. D. &
 O. Alpenver. Beilage, 1878, 105, f. 25²³.
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 149, vi, 3.
 ———— **makowskyiana**, Rzehak. Verh. nat. Ver-Brünn, xxiv, 1885 (1886), 97,
 i, 7.

- LINGULINA mediterranea**, Costa. Microdoride Mediterranea, 1861, 47, viii, 7.
 — **multicostata**, Costa. Mem. Acc. Sci. Napoli, II, 1855 (1857), 146, ii, 6A, B.
 — **mutabilis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 61, ii, 52-54.
 — **mutinensis**, Coppi. Boll. Com. Geol. Ital, VII, 1876, 208, no fig.
 — **mutinensis**, Doderlein. MS. Malagoli, Atti Soc. Nat. Modena, Mem. 3, VII, 1888, 5, i, 6, 7 and 8.
 — **nodosaria**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 59, v, 12a, b.
 — ——— Berthelin, Mém. Soc. Géol. France, [3], I, 1880, 64, iv (xxvii), 10a-c
 — **ovalis**, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 116, iv, 21-24.
 — **ovalis**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], X, 1875, 23, i (xi), 27.
 — **papillosa**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII, 2, 1856, 97, v, 6a, b.
 — **polymorpha**, Costa. Microdoride Mediterranea, 1861, 46, viii, 2-6, and 8.
 — **propinqua**, Stache. Novara-Exped., Geol. (1), 1864, 191, xxii, 15a, b, c, d.
 — **pygmæa**, Reuss. In Geinitz, Palæontographica, XX, (2), 1874, 89, XX, 23.
 — **rimosa**, Stache. Novara-Exped., Geol. (1), 1864, 192, xxii, 16a, b.
 — **rotundata**, d'Orbigny. Foram. Fossiles Vienne, 1846, 61, ii, 48-51.
 — ——— Terrigi, Atti Acc. Pont. Nuovi Lincei, XXXV, 1883, 171, ii, 4.
 — **semiornata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 91, xii, 11a, b.
 — **soldanii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 257, No. 3.
 — ——— = *Grammost. pennatula* (Batsch), see *Orthoceras pupa* [= *Vulvulina* = *Bigenneria capreolus* (d.O.)].
 — **striata**, Tate & Blake. Yorkshire Lias, 1876, 455, xviii, 16, 16a.
 — **subacuta**, Gümbel. Anleit. geol. Beob. Alpenreisen Zeitschr. D. & O., Alpenver. Beilage, 1878, 105, f. 25²⁴.
 — **tenera**, Bornemann. Lias von Göttingen, 1854, 38, iii, 24 a-c [v. *Frondicularia*].
 — ——— Brady, Proc. Somerset. Arch. & Nat. Hist. Soc. XIII, 1865-6 (1867), 223, i, 11.
 — ——— Tate & Blake, Yorkshire Lias, 1876, 455, xviii, 15, 15a.
 — **tetragona**, Terquem. Mém. Ac. Imp. Metz, II, 1870, 341, xxv, 7 and 8.
 — **tuberosa**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 629, i, 52a, b.
 — sp. Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 297, vi, 7.
 [— **carinata**], Costa. Fauna Regno Napoli, 1838, "Foraminiferi," not descr., iii, 5.
 [— ?], Costa. *Ibid.* 1838, "Foraminiferi," not descr., iv, 15.
- LINGULINOPSIS**, Reuss, 1860. Reuss, Sitz. k böhm. Ges. Wiss. 1860, 23.
 — **bohemica**, Reuss. Reuss' Model. No. 30, 1865 (Catal. No. 57, 1861) = [a linguline *Margulinina*].
 — **carlofortensis**, Bornemann. Atti Soc. Tosc. Sci. Nat. VI, (1), 1884, 26, vi, 1-7 [see Seguenza, Nat. Sicil. III, 1884, 135].
 — **furcillata**, Berthelin. Mém. Soc. Géol. France, [3], I, 1880, 65, iv (xxvii), 6a-c.
 — **rediviva**, Berthelin. *Ibid.* [3], I, 1880, 65, iv (xxvii), 7a, b.
 — **seguana**, Berthelin. *Ibid.* [3], I, 1880, 63, ii (xxv), 19a-c.
 — **stillula**, Berthelin. *Ibid.* [3], I, 1880, 64, iv (xxvii), 8a-9b.
 — **striata**, Reuss. Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 25, pl., 29 [v. *Anphimorphina*].
- LINTHURUS**, Montfort, 1808.
 — **cassidatus**, Montfort. Conch. syst. I, 1808, 255, 64th genre [= *Cristellaria*].
 — **cassis** (F. & M.). Defrance, Dict. Sci. Nat. XXVI, 1823, 555; XXXII, 1824, 188; Atlas, Conch. XIX, 3 [*Nautilus*, 1798].

- LINTHURUS cassis** (F. & M.). Blainville, Manuel Malac. et Conch. 1823 (pls. 1827), 384, x, 3.
- LITHOCOLLA**, F. E. Schulze, 1874. Arch. Mikr. Anat. x, 1874, 389.
- **globosa**, F. E. Schulze. *Ibid.* x, 1874, 389, xxvi, 8-10.
- Möbius, Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), 12, ii, 19.
- LITUI crispati et orbiculi**. Soldani, Testac. 1, (1), 1789, 63, pl. 55, A, C, E, & [Cristellaria consecra. d'O. Ann. Sci. Nat. vii, 1826, 290, 1].
- *Ibid.* 1, (1), 1789, 63, pl. 55, B, D [Cristellaria navicularis (Montf.). D'O. Ann. Sci. Nat. vii, 1826, 290, 2].
- *Ibid.* 1, (1), 1789, p. 63, pl. 56, J, K, L, M, N, O, P, Q, R [Cristellaria cassis (F. & M.), d'O., Ann. Sci. Nat. vii, 1826, 290, 3].
- *Ibid.* 1, (1), 1789, p. 63, pl. 56 H [Cristellaria soldani, *Ibid.* vii, 1826, 290, 4].
- LITUIT**, Spengler. Dansk. Skr., 1781, 370, [pl. 1], "ferde figur" (4) and 5 [= *Peneroplis*].
- LITUITES lituus**, Montfort. Conch. syst. 1, 1808, 279, 70th genre [?].
- LITUO**, Targioni. Relaz. d'alc. viaggi. iv, 1770, p. xv, f. 20.
- LITUOLA**, Lamarck, 1804. Ann. Mus. v, 1804, 243.
- **agglutinans**, d'O. Jones & Parker, Quart. Journ. Geol. Soc. xvi, 1860, xx, 47 [Spirulina, 1846].
- Tate & Blake, Yorkshire Lias, 1876, 452, xvii, 40.
- Nicholson, Manual Palaeont. 1879, i, 111, f. 18d.
- **bennieana**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 64, i, 8-11.
- Howchin, Journ. R. Microsc. Soc. 1888, 537, viii, 7.
- **canariensis** (d'Orbigny). Carpenter, Parker & Jones, Introd. Foram. 1862, vi, 39, 40, 41 [Nonionina, 1839].
- Carter, Ann. Mag. Nat. Hist. [4], xix, 1877, xiii, 26-29.
- see *L. nautiloidea*, Lam.
- **cassis**, Parker. Dawson, Canad. Nat. n. s. v, 1870, 177, f. 3 [v. *Haplophragmium*].
- Dawson, Amer. Journ. Sci. [3], i, 1871, 206, f. 3; and Annals Mag. Nat. Hist. [4], vii, 1871, 86, f. 3.
- **cenomana** (d'Orbigny). Carpenter, Parker & Jones, Introd. Foram. 1862, xi, 11-14 [v. *Placopsilina*; v. also "*Oufs de mollusques*"].
- Brady, Proc. Somerset. Arch. & Nat. Hist. Soc. xiii, 1865-6 (1867), 221, i, 1.
- Seguenza, Atti R. Acc. Lincei, [3], xii, 1882, 201, xxi, 3, 3a.
- **deformis**, Lamarck. Bronn, Syst. urweltl. Conchyl. 1824, 9, i, 4b [Lituolites, 1816].
- Brown, Elem. Foss. Conch. 1843, not descr., lii, 4.
- **difformis**, Lamarck. *Ibid.* 1843, 25, ii, 30 [Lituolites, 1804].
- Jones in Microgr. Dict. ed. 4, 1883, 473, xxiii, 18.
- **dubia** (d'Orbigny). P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 155, ix, 30 [Nodosaria, 1826].
- **findens**, Parker. Dawson, Canad. Nat. n. s. v, 1870, 176, f. 1 [v. *Reophax*].
- Dawson, Amer. J. Sci. [3], i, 1871, 206, f. 1; and Annals Mag. Nat. Hist. [4], vii, 1871, 86, f. 1.
- **globata**, Tate & Blake. Yorkshire Lias, 1876, 452, xviii, 5.
- **globigeriniformis**, Parker & Jones. Phil. Trans. 1865, 407, xv, 46, 47; xvii, 96-98 [v. *L. nautiloidea*; v. also *Haplophragmium*].
- Wright, Proc. Belf. F. Club, 1876-7, (App.), 103, iv, 6.
- (*Haploph.*) ——— Terrigi, Ann. Acc. Pont. Nuovi Lincei, xxxiii, 1880, 175, i, 3.
- **glomerata**, Brady. Ann. Mag. Nat. Hist. [5], i, 1878, 433, xx, 1a-c [v. also *Haplophragmium*].
- **irregularis** (Rss.). Jones, Cat. Foss. Foram. B. M. 1882, 10 [v. *Haploplastiche*].
- **lagenalis**, Roem. Jones, *ibid.* 1882, 12 [Spirulina].
- **nautiloidea**, Lam. Bronn, Syst. urweltl. Conchyl. 1824, 9, i, 4a [Lituolites, 1804].
- (et *Lituolites*) [*nautiloides*] ——— Defrance, Dict. Sci. Nat. xxvii, 1823, 81; xxxii, 1824, 190; Atlas, Conch. xx, 3.

- LITUOLA** [nautiloides] Lam. Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 381, ii [error for xi], 3.
- D'Orbigny, Mém. Soc. Géol. France, [1], iv, 1840, 29, ii, 28-31; Facsimile in Science Gossip, 1870, 107, f. 112.
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- Carpenter, Parker & Jones, Introd. Foram. 1862, 144, vi, 44-46.
- Jones, Geologist, vi, 1863, 294, xv, 12.
- v. **canariensis** (d'O.). Parker & Jones, Phil. Trans. 1865, 406, xv, 45a, 45b; xvii, 92-95 [v. *L. canariensis*].
- var. **globigeriniformis**, P. & J. *Ibid.* 1865, 407, xv, 46, 47; xvii, 96-98 [v. *L. globigeriniformis*].
- var. **scorpiurus** (Montf.). *Ibid.* 1865, 407, xv, 48a and 48b [v. *L. scorpiurus*].
- Brady, Carbonif. Foram., Pal. Soc. xxx, 1876, 63, viii, 7.
- Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 26, pl., 87.
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- var. (**Haplophrag.**) **depressa**, Jones. Quart. Journ. Geol. Soc. XL, 1884, 765, xxxiv, 2.
- see *Fossilia minima*, etc., and *Nant. circumradiati*.
- **ovata** (v. Hagen.). Marsson, Miith. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 171, v, 40a-m [*Orbignyna*, 1842].
- **rotundata**, Howchin. Journ. R. Microsc. Soc. 1888, 536, viii, 5, 6.
- **rugosa**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 185, No. 755 [*Robulina*, 1826].
- P., J. & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 242, ix, 31.
- **scorpiurus** (Montf.). Brady, Trans. Linnean Soc. XXIV, 1864, 467, xlviii, 5 [*Reophax*, 1808].
- Brady, Nat. Hist. Trans. Northumb. I, 1865-67 (1867), 96, xii, 3.
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- **soldanii**, Jones & Parker. Quart. Journ. Geol. Soc. XVI, 1860, 307, No. 184 [v. *Haplostiche*].
- Carpenter, Parker & Jones, Introd. Foram. 1862, vi, 42 and 43.
- **soldani**, P. & J., v. **intermedia** Vanden Broeck. Ann. Soc. Belge Micros. II, 1876, 74, ii, 1, 3, 4 and 6; and Fonds de la Mer, III, (1876).
- **subglobosa**, M. Sars. Forh. Vidensk. Selsk. Christiania, 1868 (1869), 250 [not described] [v. *Haplophragmium*].
- [—————], Deshayes, Coq. Foss. Paris, 1837, not descr., cv, 9-18, 20-23, 28-31, 33 and 34.
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- Terquem, Bull. Soc. géol. France, [3], iv, 1876, 508, xiii, 3.

- LITUOLA**, Carpenter, Ency. Brit. 9th ed., ix, 1879, "Foraminifera," 375, 6a, b, c.
 ——— Martin, Jaarboek Mijnwezen in Nederland. Oost-Indië, xi, (1), 1882, 97, iii, 5e.
 ——— see *Lituolites* and *Coprolithen*.
- LITUOLINA**, Goës, 1881. Ofver. K. Vetensk.-Akad. Förh. 1881, No. 8, 33; and K. Svenska Vet.-Ak. Handl. xix, No. 4, 1882, 137.
 ——— **foedissima**, Reuss. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 138, xii, 415-418 [*Dentalina*, 1860].
 ——— **irregularis**, Röm. Goës, *ibid.* xix, No. 4, 1882, 139, xii, 419 and 420 [*Spirolina*, 1840].
 ——— ——— v. **compressa**, Goës. *Ibid.* xix, No. 4, 1882, 141, xii, 421-423.
 ——— ——— v. **globigerinæformis**, P. & J. Goës, *ibid.* xix, No. 4, 1882, 141, xii, 424 and 425 [v. *Lituola nautiloidea* and also *Haplophragmium*.]
 ——— **scorpiura** (Montf.). Goës. Ofver. K. Vetensk.-Ak. Förh. 1881, xxxviii, No. 8, 34, figures [*Keophax*, 1808].
 ——— **scorpiurus**, Montf. Goës, K. Svenska Vet.-Akad. Handl. xix, No. 4, 1882, 136, xi, 406-409.
 ——— ——— var. **ammophila**, Goës. *Ibid.* xix, No. 4, 1882, 137, xii, 410-414.
- LITUOLITE**, Dujardin, Mém. Soc. Géol. France, [1], ii, 1835, 239, xvii, 15a, b.
- LITUOLITES**, Lamarck, 1804. Ann. Mus. v, 1804, 243.
 ——— **deformis**, Lamarck. Ency. Méthod, "Vers," ii, (1830), 368, pl. 466, f. 1; (pls. 1827). (P. & J. quote "part 23, 1816") [v. also *Lituola*].
 ——— **difformis**, Lam. Ann. Mus. v, 1804, 243, No. 2 and f. 13a, b, pl. 62, viii, 1806 [v. also *Lituola*].
 ——— ——— Parkinson, Organ. Rem. former World, iii, 1811, 161, xi, 6 and 7.
 ——— ——— Lamarck, Coq. Foss. Paris, 1823, 14, xiv, 13a, b.
 [——— **nautiloidea**, Lam. Lamarck, Vélins, du Muséum Paris, No. 47, f. 13.]
 [——— **nautiloides**] Lam. Ann. Mus. v, 1804, 243, No. 1; and f. 12, pl. 62, viii, 1806 [v. also *Lituola*].
 ——— ——— Parkinson, Organ. Rem. former World, iii, 1811, 161, xi, 5.
 [——— **nautiloides**], ——— Lamarck, Ency. Méthod, "Vers," ii, (1830), 368, pl. 465, f. 6 and 466, f. 4; (pls. 1827), (P. & J. quote "pt. 23, 1816") [= *L. nautiloidea*].
 [——— **nautiloides**], ——— Lamarck, Coq. Foss. Paris, 1823, 14, xiv, 12.
 ——— ——— Crouch, Introd. Lamarck, 1827, 40, xxii, 3.
 ——— ——— Brown, Conch. Text-book, 1839, 63, x, 22.
 ——— ——— Bowdich, Elem. Conch. (1), 1822, 20, i, 7.
- LITUUS**, Soldani, Testac. i, (1), 1789, 76, pl. 67, vv-zz [*Vertebralina striata*, d'O., Ann. Sci. Nat. vii, 1826, 283, 1].
 ——— **elegans**. *Ibid.* i, (1), 1789, 64, pl. 56Q [*Cristellaria elegans*, d'O., Ann. Sci. Nat. vii, 1826, 293, 24].
 ——— **innominatus**, *Ibid.* i, (1), 1789, 64, pl. 57T, t [*Cristellaria aculeata*, d'O., Ann. Sci. Nat. vii, 1826, 292, 14].
- LOBATULA**, Fleming, 1828. Hist. Brit. Anim. 1828, 232.
 ——— **vulgaris**, Fleming. *Ibid.* 1828, 232 [= *Trunc. lobatula*].
 ——— ——— Thorpe, Brit. Mar. Conch, 1844, 235.
- LOBULARIA vesiculosa**, Costa. Atti R. Acc. Sci. Borbon. iv, 1839, 186 [founded on Soldani, tab. vii, 45 and xix, 91v, x].
- LOFTUSIA**, Carpenter & Brady. Phil. Trans. 1869, 721.
 ——— **carbonica**, Möller. Verh. k. russ. min. Ges. St. Petersburg, [2], xvi, 1881, 189.
 ——— **columbiana**, G. M. Dawson. Quart. Journ. Geol. Soc. xxxv, 1879, 69, vi, 1-7.
 ——— **persica**, Carpenter & Brady. Phil. Trans. 1869, 739, lxxvii-lxxx.
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 ——— ——— 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 *Uvigerina*. 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*.

——— **dactioloïdes**, 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.

——— **dispansus**, 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.

——— **faujassii**, 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, 11a-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. *Orbulit. s.*].

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- MARGARITINA**, Schwager, 1887. Pal. Indica, [13], No. 7, 1887, 992 ["near *Saccammina*"].
- **schwageri** (Zittel). Schwager. Pal. Indica, [13], No. 7, 1887, 993, cxxviii. 12-15 [*Saccammina*, 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.
- **ackneriana**, 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. Specialkarte 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, I, 28 [v. *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**, Gumbel. 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, XVII, 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.

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 — **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, XLIV, 1863, 404, viii, 20a, b.
 — **biplicata**, Terquem. *Ibid.* XLIV, 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-f.
 — **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. éykönyve, 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, XLIV, 1863, 406, ix, 3a, b, c, d [v. *Dentalina*].
 — — Terq. & Berthelin, Mém. Soc. Géol. France, [2], X, 1875, 54, iv (xiv), 17.
 — **callipolis**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, (1), 1862 (1863), 60, v, 16a, b.
 — **cancellaroides**, 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.
 — **ccizeckana**, Neugeboren. [v. *M. czizekiana*].
 — **clathrata**, Costa. Microdoride Méditerranæa, 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 "*Margiulina?* (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, XLIV, 1863, 412, ix, 13a, b, c, d.
 — **consecta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 258, No. 13.
 — — = *M. sp.* (cast), see "*Nurlei in thalamis Orthoc.*, etc.
 — **consobrina**, Terquem. Mém. Ac. Imp. Metz, XLIV, 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.

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 ——— 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, 1868 (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-Expedit., Geol. (1), 1864, 212, xxii, 44.
 ——— **crustuliformis**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 82, ii, 19a, b and 20.
 ——— **cultrata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 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 *ccizeckana*, by Neugeboren, 1860].
 ——— **damæcormis**, 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.
 ——— **denaloides**, 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, XLIV, 1863, 398, viii, 8a, b.
 ——— **dichotoma**, Terquem. *Ibid.* XLII, 1862, 444, vi, 1a, b.
 ——— **dispar**. Reuss. Sitz. k. Ak. Wiss. Wien, xi.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. *Vaginulina*].
- **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.
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- **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.
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- **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**, Dunkowski. Kosmos [Lemberg], iv, 1879, 109, plate, 11.
- **eximia**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 114, xiii, 17a, b (and Mém. Soc. Dunkerquoise).
- **fabacea**, Terquem. Mém. Ac. Imp. Metz, xxxix, 1858, 611, iii, 4a-c.
- **fabiformis**, Terquem. Ess. Anim. Plage Dunkerque, (3), 1881, 113, xiii, 14-16 (and Mém. Soc. Dunkerquoise).
- **falx**, Parker & Jones. Quart. Journ. Geol. Soc. xvi, 1860, 302, No. 28 [v. *Amphicorone*].
- **ferruginea**, Terquem. Bull. Soc. géol. France, [3], iv, 1876, 488, xvi, 6.
- **fichteliana**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. II, 1851, 124, iv, 19 [*Fichteliana* in 1860].
- **filiformis**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 396, viii, 6.
- **flabellata**, Gümbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 223, iii, 24a, b, c.
- **flabelloides**, Terquem. Bull. Soc. d'Hist. Nat. Moselle, xi, 1868, 102, vi, 1a, b; varr. A, 2; B, 3a, b; C, 4a, b; D, 5a, b, 6; E, 7; F, 8; G, 9a, b; H, 10a, b; I, 11a, b; J, 12; K, 13a, b, 14; L, 15a, b; M, 16; N, 17a, b; O, 18a, b; P, 19a, b; Q, 20a, b; R, 21a, b; S, 22a, b; T, 23a, b; U, 24a, b; V, 25a, b; W, 26a, b; X, 27; Y, 28, 29; Z, 30a, b.

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- Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 20, ii, 15 and 16.
- Deecke, Mém. Soc. Emul. Montbéliard, xvi, 1886, [26], ii, 7.
- **flaccida**, Schwager. Jahresh. Ver. vat. Nat. Württ. xxi, 1865, 116, iv, 27 [*flaccida* in descript. of plates].
- Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 27, iii, 23.
- **flaccida**, see *M. flaccida*.
- **flexuosa**, Costa. Microdoride Mediterranea, 1861, 52, viii, 10.
- **floridana**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 305.
- **fragraria**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 635, i, 58a, b, c [v. also *Cristellaria*].
- **galiciana**, Dunikowski. Kosmos [Lemberg], iv, 1879, 122, plate, 13.
- **gibberula**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 53, iv (xiv), 21a, b.
- **gibbosa**, Terq. *Ibid.* [3], iv, 1886, 23, ii, 31 and 32 [*M. bigibbosa*, 1868].
- **glabra**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 259, No. 6.
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- v. **pedum**, d'Orb. Rzechak, Verh. Nat. Ver. Brünn, xxiv, 1885 (1886), 84, i, 3 [*M. p. dum*, 1846].
- **gladius**, Hüppel. Tertiar. nordwest. Deutsch. 1843, 40, i, 37 [v. also *Cristellaria*]. [In explan. to plates, described as *Margulinina?*].
- **globulosa**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 26, iii, 22.
- **gracilis**, Cornuel. Mém. Soc. Géol. France, [2], iii, 1848, 252, i, 32, 33.
- **gradata**, d'Orbigny. *Ibid.* [1], iv, 1840, 18, i, 23 and 24; Facsimile in Science Gossip, 1870, 82, f. 87.
- Mangin, Mystères Océan, 1864, 177, f. 3.
- **granitocalcareo**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 634, i, 62 [*Granitocalcareo* in text].
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sabulosus, Montfort. Conch. Syst. I, 1808, 175, 44th genre [v. *Alveolina*].
saxorum, Lamarck. Ann. Mus. v, 1804, 352, No. 5; and f. 2a, b, pl. 17, in vol. ix, 1807 [v. *Miliola*, *Quinqueloculina* and *Pentellina*].
 ———— Parkinson, Organ. Rem. former World, III, 1811, 163, xi, 12 and 13.
 ———— Ency. Method. "Vers," II, (1830), (pls. 1827), 445, pl. 469, f. 3; [P. & J. quote 1816, pt. 23].
 ———— Parkinson, Introd. Study Foss. Organ. Rem. 1822, 169, vi, 18.
 ———— Lamarck, Coq. Foss. Paris, 1823, 15, xv, 2a, b.
trigonula, Lamarck. Ann. Mus. v, 1804, 351, No. 3; and f. 4, pl. 17, in vol. ix, 1807 [v. *Miliola*, *Mitolina* and *Triloculina*].
 ———— Parkinson, Organ. Rem. former World, III, 1811, 163, xi, 17-19.
 ———— Lamarck, Coq. Foss. Paris, 1823, 15, xv, 4.
- MILLARELLA**, Carter, 1888. Annals Mag. Nat. Hist. [6], I, 1888, 178. [Considered to be a new genus of *Loftusidae*; but later (Annals, [6], II, 1888, 45, etc.), relegated to a "reticulated rhizopodous mycelium" "which may have extended itself throughout the *Parkeria*, so as to destroy by transformation the whole of the structure of the latter and replace it by one which is totally different."
 ———— *cantabrigiensis*, Carter. *Ibid.* [6], I, 1888, 178, xiii, 6-8.
- MILLEPORA**, Linnaeus, 1758.
 ———— *globularis*, Phillips. Geol. York., I, 1829, 155, xx, 5 [see *Coscinopora*].
 ———— *miniacea*, Pallas. Elenchus Zoophytorum, 1766, 251, no fig. [= *Polytrema*, q. v.].
 ———— Esper, Die Pflanzenthier, (1), 1791, 225, xvii, 1-4.
 ———— *rubra*, Lamarck. Anim. sans Vertèbres, II, 1816, 202 [v. also *Polytrema*].
 ———— *woodwardii*, Carter. Annals Mag. Nat. Hist. [5], I, 1878, 306, xvii, 6-9 [? *Bradya tergestina*, Stache MS. 1877].
- MILLETTIA**, J. Wright, MS. Ann. Mag. Nat. Hist. [6], IV, 1889, 448 (*Milletia*).
 ———— *earlandi*, J. Wright, MS. *Ibid.* (*Milletia earlandi*).
- "Minute encrusting form . . . cretaceous of New Jersey." Gabb & Horn, Journ. Ac. Nat. Sci. Philad. n. s., v, (2), 1862, 179, xxi, 71 [= *Webbina*, q. v.].
- MISILUS aquatifer**, Montfort. Conch. syst. I, 1808, 255, 74th genre [= *Polym. lactea*, var. *tubulosa*, d'O.].
- MCELLERINA**, Ulrich, 1886.
 ———— *greenei*, Ulrich. Contrib. Amer. Palæont. I, (1), 1886, 35, iii, 8a-e [see *Geol. Mag.*, August, 1886].

- MONETULITES**, Ehrenberg, 1856. Abhandl. k. Ak. Wiss. Berlin, 1856, 145.
- MONNAIE de St. Pierre**, Sage. Journ. de Phys. LX, 1805, 222 [= *Nummulites*].
- “**Moniliform lituola**,” Carpenter. Microscope, ed. 5, 1875, 531, f. f [= *Hormosina carpenteri*, q. v.].
- MONOCYSTIS**, Ehrenberg, 1854, v. *Miliola arcella* = *Orbulina*.
- MARGINULINA**, 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*].
- MULTILOCOLIDÆ**, 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, 1, 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].
- “**Nautilus microscopiques**” de Soldani. De Montfort, in Buffon, Hist. Nat. Mollusq. Sonnini's ed., IV, 1802, 239, XLVII, 3-6.
- “**Nautilus microscopique granuleux**.” d'Argenville, Conchyliologie, 1780, I, 680, VII, B, 1; and 728, LXIX, D, 2 [Polystomella crispa].
- “**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, referatissimæ— (Lapis siliceus, etc.)**. Soldani, Sagg. Oritt. 1780, 142, XXII, 99, G, II 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 = ? *Nontionina*].
- “**Nautiloid lituola**.” Carpenter, Microscope, ed. 5, 1875, 536, f. 274a, b, c [= *Cyclanmina cancellata*, 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, XXIII, a e [= *Orbiculina adunca* (F. & M.)].
- Wood, Index Testaceologicus, 1825, 65, XII, 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*].
- Linnæus, 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 polythalamia, 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* [= *Bullimina 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. *Nontonia* and *Placentula*].
 ———— [**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 [= *Rotulia* = *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. *Rosulina*, *Rotulina* and *Rotalia*].
 ———— Martini, Neues syst. Conchyl.-Cab. I, 1769, 261, xix, 178, 179; xx, 175-177.
 ———— Schröter, Innere Bau See-und Erd Schneckens, 1783. 2, i, 3.
 ———— Murray, Fund. Test. in Linnæus, Amœnitates academicæ, viii, 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. cultrata*]; var. γ , xi, g-h, var. δ , xi, i-k, var. ϵ , xii, a-c [*C. calcar*]; var. ζ , xii, d-f [*C. cultrata*]; 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 cultrata*].
 ———— 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*e, 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, 8L* and 9*M*, also 10*N* [7 9 = *Crist. calcar*; 10 = *Lit. nautiloidea*].
- (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. *Lenticulites*; *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-1a* [*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**, Schreter. 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*, *Helicoza* 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 [Planus, de Conch. 10, t. 1, f. 2 [v. *Polystomella*].
 ———— Martini, Neues Syst. Conchyl.-Cab. 1, 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. Oritt. 1780, 100, ii, 14-16 [14 = ? *Biloculina*; 15 = *Adelosina lavigata*; 16 V X = *Rot. schreibersii*; 16 T T to X X = *Nonionina pompilioides*].
- **seu margine coronato dentali**, Sold. *Ibid.* 1780, 98, i, 5 H [= *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. Oritt. 1780, 134, xviii, 90 M, N, O; 91 P, Q, R, S; xix, 91 T, V, X [90 M, N = *Crist. costatus*; O = *Crist. calcar*; 91 P, Q = *C. cultrata*, many chambers; R = *Crist. crepidula*; S = *Alveolina boscii*; T = *Frondic. complanata*; V X = ? *Globig. bulloides*].
- **sive papilloso, 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].
- **entrochus**, Schröter. 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 faveata* (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.
- **gazelliconis**, 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 gyzeusis*, Ehrenberg].
- **granum**, Linn. Syst. Nat. ed. 10, 1758, 711, ed. 13 (Gmelin's), 1788, 3372.
- (**O.**) **harpa**, Batsch. Conch. Seesands, 1791, v, 14a-14e [14a = *Frond. complanata*, Defr.; 14b, c = *Flab. harpa*, Batsch; 14d, e = *Planularia avris*, Defr.].
- **helicites**, Schröter. 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 *Trochammina*].

- NAUTILUS inflatus**, Montagu. Brown, *Illustr. Conch. Gt. Brit.* 1827, fly-leaf, lii, 4.
- **jugosus**, Montagu. *Testac. Brit.* 1803, 198, xiv, 4 [v. *Orthocera*].
- **laeves** (**Lenticulæ**), Sold. *Testac.* i, (1), 1789, 44, pl. 33, *nn* [*Robulina rosacea*, d'O. *Ann. Sci. Nat.* vii, 1826, 289, 11].
- **laeves** (**Lenticulæ**), Sold. *Ibid.* i, (1), 1789, 54, pl. 33, *mm* [*Robulina marginata*, d'O., *Ann. Sci. Nat.* vii, 1826, 288, 6].
- **laevi-lucido-umblicati**, Soldani. *Sagg. Oritt.* 1780, 99, i, 11o [= *Crist. cultrata*].
- **laevigatulus**, Walker & Jacob. In Kannmacher's ed. of Adams' *Essays Micros.* 1798, 641, xiv, 32 [Walker's *Nautilus spiralis geniculis laevibus*, 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 [Planus, *Cornu Hammonis*, de Conch. 8, t. 1, f. 7 [v. *Orthocera*, *Nodosarina*, *Dentalina* and *Vaginulina*].
- ——— after Planus, 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. *Spirulina*].
- ——— Wood, *Index Testaceologicus*, 1825, 65, xiii, 34.
- (**Orthoceras**) **leguminiformis**, Batsch. *Conch. Seesands*, 1791, iii, 8a, 8b [8a = *Vag. leguminiformis*, Batsch; 8b = *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 cosecta*, 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, *dl* [*Planularia rostrata*, 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 longata*, 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 Kanmacher's ed. of Adams' Essays Micros. 1798, 642, xiv, 3*6* [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**) **margaritiferus**, 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**, Sold. 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 *Melonia*].
- 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. VII, 1791, 241, no fig. [*C. cultivata*].
- (**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. min. [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. Anima. 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 papillosa* (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, *d-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 *Planicus*, de Conch, tab. 1, f. 4] [= *Crist. rotulata*].
- (**Orthoc.**) **pennatula**, Batsch. Conch. Seesands, 1791, iv, 13a-13c [v. *Grammostomum*, *Vulvulina*, *Bigeneriina*, *Capreolus*].
- **pertusus**, Forskal. Descr. Anim. 1775, 125, No. 65 [v. also *Peneroplis*].
- **pompilioides**, Fichtel & Moll. Test. Micr. 1798, 31, ii, a-c [= *Nonionina*].
- Wood, Index Testaceologicus, 1825, 65, xiii, 37.
- **prorsus microscopici, quos gibbosos, seu papyraceos minimos** voco, etc., Soldani. Sagg. Oritt. 1780, 101, ii, 18A [= *Traucat. 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 [*Planicus*, 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 [*Planicus*, 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. 1, 1781, 381, ii, 10a, b, c.
- *Ibid.* 1, 1781, 382, ii, 10d, e, f ["Den anden Art (Lit. d, e, f) er meget merkvaerdig."].
- [**NAUTILUM rectum**], Schröter. Neue Litt. u. Beytr. 1, 1784, 316, i, 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.; *Noutou. 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, i, 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, i, 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 plurimus**, Walker & Boys. *Ibid.* [1784], 19, iii, 68 [= *Nonionina asterizans* v. *depressula*, W. & J.].
- **spirula**, Spengler. Nye Saml. K. Danske Selsk. Skr. 1. 1781, 370 [T. 1], f. 3a, b, c, d and ? f. 4 and 5 [3 = *Calcarina*; 4 and 5 = *Pteroplis*].
- **spirula**, Linn. Martini, see Ammonshörner, Martini.
- **striati**, Soldani. Sagg. Oritt. 1780, 100, ii, 17 Z [= *Polystom. crispa*].
- **striati**, etc., Sold. Testac. 1, (1), 1789, 54, pl. 34, I [*Polystomella strigillata* (F. & M.)]. D'Orb., Ann. Sci. Nat. vii, 1826, 284, 4].
- *Ibid.* 1, (1), 1789, 59, pl. 33, ee [*Robulina sulcata*, d'O. Ann. Sci. Nat. vii, 1826, 289, 10].
- **communes (crispi linnæi)**, Sold. *Ibid.* 1, (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**, Schröter. 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.) subarcuata*, 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 Kammacher'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**) **tricostulati**, 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 Kaummacher'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, lii, 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. 9d] [= *Calcarinu*].
- Wood, Index Testaceologicus, 1825, 64, xiii, 18.
- (**Orthoceras**) **vaginæformis**, Batsch. Conch. Seesands, 1791, iii, 7a-7d [7a = *Lingul. carnata*; 7b, *Lingul. or Gland.*; 7c, d, *Margulinina* 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-t* [= *Crist.*; d'Orbigny's *Rob. orbicularis* and *R. imperatoria* are varieties of this form] [*v. Cristellaria*].
- Sold. Testac. ii, App. 1798, 145, pl. 18, 91p, *P, Q* [*Soldania carinata*, d'O. Ann. Sci. Nat. vii, 1826, 281, 1].
- Sold. *Ibid.* i, (1), 1789, 59, pl. 47, *E* [*Robulina laevigata*, 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].
- see *Ammonia* and *Orthoceras*.
- 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. Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 745, xiv, 20a, b [*Glandulina*, 1850].
- (**Dent.**) **abnormis**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 134, ii, 10 [*v. Dentalina*, 1863].
- **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. 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. Mith. 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, Versteiu Böhm. 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 Mith. 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].
- **acute-costata**, Silvestri. Atti Accad. Giænia Sci. Nat. n. s. vii, 1872, 48, iv, 82-89.
- **adolphina**, d'Orb. Schwager, Novara-Exped., Geol. ii, 1866, 235, vi, 72 and 73 [*Dentalina*, 1846].
- **adpersa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVII, (1), 1863 (1864), 43, ii, 13.
- **adtenuens**, Olszewski. Sprawozd. Kom. fizyj. Ak. Umiej. Krakowie, ix, 1875, 103, i, 4.
- **æqualis**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 253, No. 16.
- **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].
- **affinis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 39, i, 36-39.
- — — — Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 748, xiv, 33.
- — — — see *Orthoceratia conico-cylindroidea* and *Orthoceras feniculum*.
- **agglutinans**, Terquem. Mém. Ac. Imp. Metz, LI, 1870, 354, xxviii, 18 [error for xxix. 18] [= *Reophax scorpiurus*].
- — — — Terquem, Mém. Soc. Géol. France, [3], iv, 1886, 10, i, 20.
- **aglaïæ**, 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. radiculata*].
- **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. glabra* 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.
- [**anulata**] — — — Costa, Mem. Acc. Sci. Napoli, ii, 1855 (1857), 139, i, 16.
- (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.
- **anomala**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 129, i, 20-22.
- **antennula** (d'Orb.). Costa, Atti Accad. Pontaniana, vii, (2), 1856, 140, xii, 25 (var.), xvi, 3 [*Dentalina*, 1846].

- NODOSARIA antennula**, [Costa]. Silvestri, Atti Accad. Gioenia Sci. Nat. n. s. vii, 1872, 89, xi, 252-259.
- **antipodum**, Stache. 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.
- ——— ——— Andreae, Abh. geol. Specialkarte Elsass-Lothr. ii, (3), 1884, 203, x, 13-15.
- **archiaciana**, Gemmellaro. Atti Accad. Gioenia Sci. Nat. (2), xv, 1860, 283, i, 8a. [“This plate was never published;” *vide* Sig. J. Bertini, Sec’y Gioenia Acad. Catania, 21 June, 1887].
- (**Dent.**) **arcuata**, d’O., v. *Dentalina*; v. *Orthoceras intortum*, etc.
- **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.
- **aspera**, Silvestri. Atti Accad. Gioenia Sci. Nat. n. s. vii, 1872, 76, viii, 191-200.
- **aspera**, Terq. & Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 19, i (xi), 18a, b.
- **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.
- **bacillum**, DeFranc. Dict. Sci. Nat. xxxv, 1825, 127; xxxvi, 1825, 487; Atlas Conch. xiii, 4.
- ——— Blainville, Malacol. 1825 (pls., 1827), v, 4.
- ——— Cuvier, Règne Animal, 1836-46, ix (pls. x), 35, xv, 12.
- [— **bacillum**, DeFr.] Costa, Fauna Regno Napoli, 1838, Foraminiferi, not descr., iv, 7.
- ——— D’Orbigny, Foram. Fossiles Vienne, 1846, 40, i, 40-47.
- ——— Costa, Mem. Acc. Sci. Napoli, ii, 1855 (1857), 134, i, 7a
- B, C.**
- ——— Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 72, vi, 14a-e.
- ——— [d’Orb.]. Mackie, Recreative Science, i, 1859, 148, f. 18.
- ——— Suess, Boden Stadt Wien, 1862, 45, f. 1¹.
- ——— Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 618, i, 30.
- ——— 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.
- ——— Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 197, viii, 14.
- ——— Schlumberger, F. Jeun. Nat. Jan., 1882, i, 5, and ii, 5.
- ——— Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 748, xiv, 34.
- ——— See *Orth. seu tubuli*, etc., and *Orth. perfecte conica*, etc.; [*Nodosaria*, sections of], *Orth. brevissima*, etc., and *Orth. perfecte globularia*, etc.

- NODOSARIA** *bactridium*, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 130, i, 24 and 25.
- *bactroides*, Reuss. Sitz. k. Ak. Wiss. Wien, xlvi, (1), 1862 (1863), 37, ii, 5.
- “——— *baculoides*, Gm.” Jones, Cat. Foss. Foram. B. M. 1882, 29.
- *badenensis*, d'Orbigny. Foram. Fossiles Vienne, 1846, 38, i, 34 and 35.
- *v. aculeata*, Egger. Neues Jahrbuch, 1857, 305, xv, 17-21.
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- Sherborn & Chapman, Journ. R. Micr. Soc. [2], vi, 1886, 748, xiv, 35.
- Prestwich, Geology, 1888, ii, 352, 175a.
- “*baguette*,” DeFrance. Blainville, Manuel Malac. et Conch. 1825 (pls., 1827), not descr., v, 4 [= *Nodos. bacillum*].
- *balenarum*, Ehrenberg. Monatsbericht. k. preuss. Ak. Wiss. Berlin, 1872, 285.
- E. in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii, n. d., i, 19.
- *berthelotiana*, Reeve. Conch. System. ii, 1842, 293, cccxvii, 15 [*Marginulina*, d'Orb. = *Marginulina*].
- *beyrichi*, Neugeboren. Denkschr. k. Ak. Wiss. Wien, xii, 2, 1856, 72, i, 7-9.
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- Jones, M. Micr. Journ. xv, 1876, cxxviii, 1.
- *bicuspidata*, Reuss. Sitz. k. Ak. Wiss. Wien, lxii, (1), 1870, 472; figured by v. Schlicht, Foram. Septar. Pietzpuhl, 1870, ix, 10-12, 14, 16.
- *biformis*, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 130, i, 23.
- *bitziana*, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. iii, 1852, 53, i, 36 and 37 [*Bietziana* in 1860 “= *bronnana*”].
- *bistegia*, Duukowski. Kosmos [Lemberg], iv, 1879, 106, pl. 4.
- *bolli*, Reuss. Zeitschr. deutsch. geol. Ges. vii, 1855, 265, viii, 6.
- *boeana*, d'Orbigny. Foram. Fossiles Vienne, 1846, 37, i, 30 and 31.
- *brevicula*, Schwager. Novara-Exped., Geol. (2), 1866, 234, vi, 71.
- *brevis*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 252, No. 3.
- *bronniana*, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. iii, 1852, 52, i, 33-35 [*Bronnana* in 1860].
- *brukenthaliana*, Neugeboren. *Ibid.* iii, 1852, 40, i, 13 and 14 [*Bruken-thalana* in 1860].
- *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), 28, same pl. and fig.
- Jones, M. Micr. Journ. xv, 1876, cxxix, 8a, b.
- *cactus*, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 10, ii, 2.
- Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 10, i, Jurensismergel, 1.
- *calamus*, Silvestri. Atti Accad. Giænia Sci. Nat. n. s., vii, 1872, 87, x, 243-251.
- *callosa*, Stache. Novara-Exped., Geol. (1), 1864, 197, xxii, 23.
- *calomorpha*, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 129, i, 15-19.
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- **cancellata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 254, No. 29.
- = *Lag. melo*, d'O. (bilocular), q. v.; v. also *Orthoceratia flosculi*.
- **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.
- v. **striatissima**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, (3), 1884, 204, x, 4 and 5.
- **capitata**, Buvignier. Stat. Géol., etc., Meuse, 1852, Atlas, 47, xxxii, 28.
- **carinata**, Reeve. Conch. System. II, 1842, 293, cccxvii, 14 [*Lingulina*, d'Orb. = *Lingulina*].
- (Dent.) **carinata**, d'O. v. *Dentalina*; v. *Orthoceras obliquum*.
- **catenulata**, Brady. Report Challenger, 1884, 515, lxxiii, 32-34.
- Sherborn & Chapman, Journ. R. Micr. Soc. 1889, 486, xi, 21, 22.
- **catesbyi**, d'Orbigny. De la Sagra, Hist. Phisiq. etc., Cuba, 1839, "Foraminifères," 16, i, 8-10; also in Spanish, 1840, 45, same pl. and fig.
- **cingillum**, Kübler & Zwingli. Neujahrsblatt. Burgersbibl. Winterthur, 1866, 7, i, 3.
- Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 5, i, Turnerithon, 2.
- **citriformis**, Schmid. Neues Jahrbuch, 1867, 586, vi, 52 and 53.
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- **clausa**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, x, 1878, 131, i, 8.
- **clava**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 276, i, 4.
- **clava**, Cornuel. Mém. Soc. Géol. France, [2], III, 1848, 250, i, 16, 17.
- **clava**, Costa. Atti Accad. Pontaniana, VII, (2), (1856), 147, xiii, 7.
- **clava**, Karrer. In von Drasche, Frag. Geol. Luzon, 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.
- **claviformis**, Terquem. Sixième Mém. Foramin. Lias, 1866, 477, xix, 17 and 18a, b.
- Terquem and Berthelin. Mém. Soc. Géol. France, [2], x, 1875, 19, i (xi), 17.
- **clavulæformis**, Schwager. Boll. R. Com. Geol. Ital. IX, 1878, 521, i, 4.
- **clavulus**, Lamarek. Ency. Méth. "Vers," 1830 (pls. 1827), pl. 466, f. 3 [P. & J. quote "pt. 23, 1816"] [= *Clavulina*].
- (Orthocerina) ———— d'Orbigny, Ann. Sci. Nat. VII, 1826, 255, No. 48; and Modèles, No. 2, 1826.
- P., J. & B. [d'O., Modèles, 2], Ann. Mag. Nat. Hist. [3], XVI, 1865, 18, i, 25.
- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 160, f.
- **coarctata**, Hantken. A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 19, xii, 15; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875, (1881), 24, same pl. and fig.
- **coccoptycha**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 611, i, 16.

- NODOSARIA columella**, Karrer. Abh. k. k. Geol. Reichs. ix, 1877, 379, xvib, 21.
- **comata** (Batsch). Brady, Report Challenger, 1884, 509, lxiv, 1-5 [*Nautilus* (*Orthoceras*), 1791].
- **commemorabile**, Franzénau. Math. termész. értesítő, vii, 1889, 252, iv, 6.
- **communis**, d'Orbigny. Reuss, Verstein. Böhm. Kreide, 1845-6, i, 28, xii, 21 [*Dentalina*, 1826].
- (Dent.) ——— Parker & Jones, Phil. Trans. 1865, 342, xiii, 10.
- ——— Brady, Report Challenger, 1884, 504, lxii, 19-22.
- ——— Agassiz, Three Cruises. "Blake," ii, 1888, 166, f. 505.
- ——— Goëss, Bihang K. Svenska Vet.-Ak. Handl. xv, 1889, ii, 18-26.
- (Dent.) ——— v. *Orthoceras farcimen*.
- **compressiuscula**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. iii, 1852, 59, i, 54-56.
- ——— Neugeboren, Denkschr. k. Ak. Wiss. Wien, xii, 2, 1856, 79, ii, 1-7.
- **conica**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. iii, 1852, 54, i, 4.
- **conica**, Soldani. Silvestri, Atti Accad. Gioenia Sci. Nat. n. s., vii, 1872, 39, iii, 52-56 [v. *Orthoceras perfecta conica in acutum apicem*, etc.].
- ——— v. **coarctata** Silvestri. *Ibid.* vii, 1872, 44, iii, 58-61.
- ——— v. **monstruosa**, Silvestri. *Ibid.* vii, 1872, 42, iii, 57.
- **concinna**, Reuss. Sitz. k. Ak. Wiss. Wien, xl, 1860, 178, i, 3.
- **conferta**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 26, xiii, 10.
- **conferta**, Schmid. Neues Jahrbuch, 1867, 585, vi, 49.
- ——— Brady, Carbonif. Foram., Pal. Soc. xxx, 1876, 126, 7, 14.
- (Dent.) **consobrina**, d'Orbigny. var. **emaciata**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 132, ii, 12, 13 [*Dentalina*, 1846 and 1851].
- (Dent.) ——— Parker & Jones, Phil. Trans. 1865, 342, xvi, 3.
- (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].
- (Dent.) ——— Andreae, Abh. geol. Spezialkarte Elsass-Lothr. ii, (3), 1884, 203, x, 9-12.
- **conspurcata**, Reuss. Zeitschr. deutsch. geol. Ges. iii, 1851, 59, iii, 3.
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, (1), 1863 (1864), 43, ii, 10-12.
- ——— Reuss, Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 130, ii, 19-21.
- **constricta**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 26, xiii, 12 and 13 [v. *Haplostiche*].
- sp. (cfr. *constricta*, Reuss), v. d. Marck, Verh. nat. Ver. preuss. Rheinl. xv, 1858, 56, i, 14.
- **contorta**, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 159, xvi, 2.
- (Dent.) **contorta**, Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 89, i, 16.
- **contracta**, Costa. Mem. Acc. Sci. Napoli, ii, 1855 (1857), 135, i, 3.
- **corallina**, Gümbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 218, iii, 10a, b.
- (Dent.) **cornicula**, d'Orbigny, *Dentalina*, q. v., v. also *Orthoceras corniculum*.
- **costai**, Schwager. Novara-Exped., Geol. (2), 1866, 229, vi, 62.
- **costellata**, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 27, viii, 8.
- **costulata**, Reuss. Brady, Report Challenger, 1884, 515, lxiii, 23-27 [*N. stipitata*, var., 1870].
- **crassa**, Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 86, i, 15 [*erassa* in descr. to plate].
- ——— Hantk., A magy. kir. földt. int. évkön. iv, 1875 (1876), 23, xlii, 4; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 28, same pl. and fig.
- **crassitesta**, Schwager. Novara-Exped., Geol. (2), 1866, 224, v, 55.

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- *crispata*, Terquem. Sixième Mém. Foram. Lias, 1866, 476, xix, 9, 10a, b, c, 11a, b.
- *culmen*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 158, xiii, 15.
- *culminiformis*, Gümbel. Abh. m.-ph. Cl. k. bayer. Ak. Wiss. x, 1868 (1870), 614, i, 23.
- *cuspidata*, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866, 13, ii, 23.
- ——— Zwingli & Kübler, Foraminif. schweiz. Jura, 1870, 15, ii, Blagdenischicht, 2.
- (Dent.) *cuvieri*, d'Orbigny, v. *Dentalina*; v. *Orthoceras varietas Raphani*, etc.
- *cylindracea*, Reuss. Verstein. Böhm. Kreide, 1845-6, i, 25, xiii, 1, 2.
- *cylindracea*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 146, xii, 12 and 14; xiii, 6.
- *cylindrella*, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 222, i, 2.
- *cylindrum*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, not descr. xxvii, 1.
- *czizckiana*, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. iii, 1852, 52, i, 30 [quoted as *Czizceckiana* = *Bronnana* by Neugeb., in 1860.]
- *dacrydium*, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 128, i, 13 and 14.
- (Dent.) *debilis*, Hantken. Magyar. Földt. Társ. Munkálatai, iv, 1868, 88, ii, 27 [v. also *Dentalina*].
- *decem-costata*, Egger. Neues Jahrbuch, 1857, 306, xv, 24 and 25.
- *deceptor*, Schwager. Novara-Exped., Geol. (2), 1866, 212, v, 30.
- *deformis*, Costa. Atti Accad. Pontaniana, vii, (2), 1856, 161, xiii, 19.
- *deiscens*, Costa. Mem. Acc. Sci. Napoli, ii, 1855 (1857), 139, i, 6.
- *dentalina*, Lamarck. Anim. sans Vert. vii, 1822, 596, No. 2.
- *detruncata*, Schwager. Benecke's Geogn. Pal. Beiträge, i, 1868, 656, xxxiv, 7.
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- **humilis**, Roemer. Verst. n.-d. Kreide, 1840-1, 95, xv, 6 [v. also *Glandulina*].
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- *crepidula* (F. & M.). *Ibid.* xix, No. 4, 1882, 43, ii, 44; iii, 36-43 [*Nautilus*, 1798].
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- NOIGERINA**, Rzehak, 1888. Misprint for *Uciqerina*.
- NONION incrassatus**, Montfort. *Conch. syst.* I, 1808, 211, 53d genre [= *Nonionina*].
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 ——— **aglajæ**, Ehrenberg. *Abh. k. Ak. Wiss. Berlin*, 1872 (1873), iv, 3.
 P ——— **archetypus**, Ehr. *Monatsbericht k. preuss. Ak. Wiss. Berlin*, 1858, 310 and 337, i, xiii [*Glaucinite*].
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 ——— [**asterisans**] (F. & M.). Parker & Jones, *Annals Mag. Nat. Hist.* (2), XIX, 1857, 287, xi, 20 and 21.
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 ——— ——— Brady, *Report Challenger*, 1884, 728, cix, 1 and 2.
 ——— ——— see *Polystom. crispa* (Linn.).
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 ——— **attenuata**, Costa. *Atti Accad. Pontaniana*, VII, (2), 1856, 202, xvii, 10A, B.
 ——— **badensis**, Zwingli & Kübler. *Foraminif. schweiz. Jura*, 1870, 37, iv, Geissberger schicht, 3 [= *Planorbulina*, near *Ammonoides*].
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 P ——— **bavarica**, Ehrenberg. *Abhandl. k. Ak. Wiss. Berlin*, 1855, 163, iii, i-iv [= young *Amphistegina*] [Glarc.].
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- **compressa**, Roemer. Verst. n.-d. Kreide, 1840-1, 99, xv, 33.
- Reuss, Verstein. Böhm. Kreide, 1845-6, i, 35, viii, 51.
- (P) ——— Eley, Geol. in the Garden, 1859, 198, v, 28 [flint cast].
- **costata**, Roemer. Neues Jahrbuch, 1838, 392, iii, 67.
- **crassula** (Walker & Jacob), v. *Nautilus*.
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AN INDEX

TO THE

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BY

CHARLES DAVIES SHERBORN.

PART II. NON to Z



CITY OF WASHINGTON.
PUBLISHED BY THE SMITHSONIAN INSTITUTION,
FEBRUARY, 1896.

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.

- NONIONINA crassula** (W. & J.) [d'Orb.]. Jones, Microgr. Dict. ed. 4, 1883, 544, xxiv, 18a, b.
- ? ——— **crisiæ**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 285.
- Ehr., Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 8.
- ? ——— **crystallina**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 285.
- Ehr., in Koldewey, Zweite Deutsche Nordpolarfahrt, 1874, ii, n. d., i, 4.
- **dense-punctata**, Egger. Neues Jahrbuch, 1857, 299, xiv, 22 and 23.
- **depressa** (d'Orbigny). Reuss in Geinitz, Grundr. Verstein. 1845-46, 666, xxiv, 34 [= *Heterostegina*, 1826].
- **depressula** (Walker & Jacob). Anon, Science Gossip, 1870, 12, f. 29 [*Nautilus*, 1798].
- Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxiii, 1880, 218, iv, 77.
- Brady, Report Challenger, 1884, 725, cix, 6 and 7.
- Brady, Parker & Jones, Trans. Zool. Soc. xii, (7), 1888, 229, xliii, 25.
- Terrigi, Mem. R. Acc. Lincei, (4), vi, 1889, 119, x, 4.
- see *Polystom. crista* (Linn.).
- **elegans**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 294, No. 10.
- **elegans**, Williamson. Recent British Foram. 1858, 35, iii, 74 and 75 [= *Opercul. ammonoides*, Gron.].
- (cf.) Tate & Blake, Yorkshire Lias, 1876, 473, xvii, 39.
- **elongata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 294, No. 18.
- **elyptica**, d'Orbigny. *Ibid.* vii, 1826, 294, No. 16.
- **erythræa**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 132.
- **escheri**, Kaufmann. In Heer, Urwelt Schweiz, 1865, 198, f. 110; and transl. 1876, 208, f. 110 [= *Globig. cretacea*].
- **excavata**, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], xviii, 1862, 98, i, 4, 4a.
- **exponens**, Brady, Parker & Jones. Trans. Zool. Soc. xii, (7), 1888, 230, xliii, 16.
- **faba** (Fichtel & Moll). Terrigi, Atti Acc. Pont. Nuovi Lincei, xxxv, 1883, 204, iv, 50 [= *Nautilus*, 1798].
- see *Chrysolus*.
- see *Polystom. crista* (Linn.).
- **falx**, Czjzek. Haidinger's Nat. Abh. ii, 1848, 142, xii, 30 and 31 [v. *Pullenia*].
- **floridana**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 1.
- **flustrella**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 286.
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- Nummi lapidei**, Mercatus. Metall. Vatic. 1717-19 [= *Nummulites*].
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- **contraria**, (d'Orb.). *Ibid.* 1881, 31, ii, 1-7 [*Biloculina*, 1846].
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- ——— Dixon, Geol., etc., Sussex, 1850, 85, viii, 12 and 13.
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- ——— Carter, Geol. Papers Western India, 1857, 451, xviii, 14, 14a.
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- **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. xliiii, 1887, 132] [*Lenticulites*, 1804] [v. *Nummulina* and *Nummulites*].
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- Nummularius lapis**, Gesner. Dis. phys. petrif. 1756, 12 and 31 [= *Nummulites*].
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- [antiquior, Rouill.]. Trautschold, Nouv. Mém. Soc. Imp. Nat. Moscou, XIV, (1), 1879, 42, vi, 3.
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¹ See also *Nummulites*.

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 ——— *chartersi*, Savi & Meneghini. Consid. Geol. Toscana, 1851, 189 and 203, no fig. [v. also *Nummulites*].
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 ——— *discoidalis*, d'Orbigny. Modèles, No. 88, 1826 [v. also *Assilina*].
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 ——— *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.
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 ——— [*gizehemis*] ——— Hoernes, Elem. Palæont. 1884, 26, f. 14; French ed., 1886, same fig.
 ——— ——— Steinmann, Elem. Palcont. I, 1888, 34, f. 21, *E-G*.
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 ——— ——— Bronn, Lethæa Geognostica, ed. 3, III, 1853-56, 222, xxxv², 32*a, b*.
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 ———— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. and O. Alpenver., Beilage, 1878, 138, f. 48¹³.
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 ———— [d'Orb.]. Galeotti, Mém. Couronnés Ac. R. Bruxelles, xii, 1837, (3), 141, iii, 12.
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 ———— **lenticularis** (Fichtel & Moll), v. *Nautilus*, 1798; v. also *Nummulites*.
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 ———— Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 215, xxxv², 13.
 ———— Schauroth, Sitz. k. Ak. Wiss. Wien, xvii, 1855, 542, iii, 2.
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 ———— **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*].
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 ———— **manilla** (Fichtel & Moll). Bronn, Lethæa Geognostica, ed. 3, iii, 1853-56, 217, xxxv², 12a-d [*Nautilus*, 1798].
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 ———— D'Arch., Mém. Soc. Géol. France, [2], iii, 1848, 417, ix, 18a.
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- **marginata**, Michelotti. Nat. Verh. Holland Maatsch. Wetensch. Haarlem, [2], iii, (2), 1847, 16, i, 10 [*Nummulites*, 1841].
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- [——?] ——— Gümbel, Anleit. Geol. Beob. Alpenreisen, Zeitschr. D. & O. Alpenver., Beilage, 1878, 138, f. 48¹⁹.
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- [——?] ——— v. *N. perforata* (Montf.).
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- ——— Costa, Atti Accad. Pontaniana, vii, (2), 1856, 207, xvii, 4.
- ——— Bronn, Klassen Ordn. Thier-Reichs, i, 1859, 71, vi, 11a, b.
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- ——— Brady, Geol. Mag. [2], ii, 1875, 534, xiii, 4a, b; and Jaarb. Mijn. Ned. Oost-Indie, vii, 2, 1878, 161, i, 4a, b.
- ——— v. **verbeekiana**, 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.
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- **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].
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- ———? ——— 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. 48¹⁵.
- ——— Hoernes, Elem. Palæont. 1884, 27, f. 16; French ed. 1886, same fig.
- **seminulum**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 93; and Mikrogeologie, 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].
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- ——— 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].
- **fargionii**, 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].
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- **wilcoxi**, Heilprin. [Heilprin], Amer. M. Micro. Journ. iv, 1883, 1, f. 1 and 2 [*Nummulites*, 1882].
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- Carpenter, Quart. Journ. Geol. Soc. vi, 1850, 22, pls. iii to viii [minute structure].
- Mantell, Medals Creation, ed. 2, 1854, 344, f. 110.
- 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**, Schafhäutl. 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. Vand. 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, 13*a-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, 1*a-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, 9*a-f*.
- **boricensis**, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, 162, v, 23.
- **biaritzensis**, d'Archiac. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, (1), 1853, 131, viii, 4*a-f*, 5*a*, 6*a* [v. *Nummulina*].

- NUMMULITES biaritzensis**, d'Archiac. 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. Mijn. Ned. Oost.-Ind. 1874, ii, 155, ii, 28-33.
 ———— De la Harpe, Bull. Soc. Borda à Dax, v, 1880, 68, f. 1.
 ———— [**biarizensis**] ———— Abich, Geol. Forsch. Kaukas. Ländern, 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 [*ærigata*, 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, xiii, 11a, b, c; lxxv, 16a, b, c.
- **cretacea**, Fraas. Württemberg. nat. Jahresh. 1867, 227, ii, 8a, b, c. See also Lartet, Geol. Palestine, (1), 1869, 177.
- **cummingsii** (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 Russia 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-e.
- **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-Bayerns 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*, on 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.
- [**garansensis**] —— Carter, Geol. Papers Western India, 1857, 544, xxiii, 19 and 20.
- [**garansensis**] —— 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 gizehensis*].
For full synonymy see de la Harpe, Mém. Soc. paléont. Suisse, VII, 1881, 117.
- [**gizehensis**] ——— D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 94, ii, 6a-f, 7a, 8 [*gizehensis* on plate].
- Zittel, Handbuch Paläont. (1), 1876, 99, f. 39¹ 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.
- [**gizehensis**] ——— Quenstedt, Handbuch Petref. ed. 3, (5), (1885), 1055, lxxxvi, 34.
- [**gizehensis**] ——— *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. Etruria, 1846, 104, i, 10 and 11.
- **globulina**, Michelotti. Mem. Soc. Ital. Sci. XII, 1841, 297, iii, 6 [*Nummulina* on p. 302, q. v.].
- **globulus**, Leymerie. Mém. Soc. Géol. France, [2], I, 1844, 359, xiii, 14a-d [v. also *Nummulina*].
- **granulosa**, d'Archiac. D'Archiac & Haime, Descr. Anim. groupe nummulitique Inde, I, 1853, 151, x, 11a, b, c, 12a, 13, 14a, b, 15a, b, 16-19a-d [fig. 1 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 5a.
- **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, 18a-c, 19a, 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, 10a, b.
- ——— var. **striolata**, de la Harpe. *Ibid.* [3], V, 1877, 825, xvii, 9a, b.
- ——— var. **plicata**, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], XVI, 1879, 210, x, 10a, b.
- ——— var. **striolata**, de la Harpe. *Ibid.* [2], XVI, 1879, 210, x, 9a, b.
- ——— De la Harpe, Palæontographica, XXX, 1883, Pal. Theil, 171, xxx (1), 29-42.
- **guttula**, Schafhäütl. Sud-Bayerns Lethæa Geogn. 1863, 96, xiii, 8a-d; xiv, a-c, e.

- NUMMULITES heberti**, d'Archiac & Haime. Deser. 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. Ertesitő, 1883, [56], iii, 5*a, b, c*.
 ——— heeri, de la Harpe. Mém. Soc. paléont. Suisse, x, 1883, 152, iv, 9-15.
 ——— heilprini, Hantken. Földt. Köz. xvi, 1886, 154 and 188, i, 2*a, b, c*.
 ——— hungarica, Hantken & Madarasz. Jegyz. az 1873 vilagtarl. kiáll. 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, Deser. 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. borniensis, Tellini. *Ibid.* vii, 1888, 53, 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, Deser. 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, Gümbel. Neues Jahrbuch, 1872, 254, vi, 1-9.
 ——— kelatensis, 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. Ertesitő, 1883, [49], iii, 4*a, b, c*.
 ——— kovaciensis, Hantken & Madarasz. Jegyz. az 1873 vilagtarl. kiáll. numm. 1873, 11.
 ——— laceratus, Quenstedt. Handbuch Petref. ed. 3, (5), (1885), 1055, lxxxvi, 38.
 ——— lævigata, 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*.
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 ——— ——— Deshayes, Deser. Coq. Charact. 1831, 251, iii, 11 and 12.
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 ——— ——— Pilla, Distinz. terr. Etruria, 1846, 105, i, 20 [17-20].
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 ——— ——— D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, 1, 1853, 103, iv, 1*a-g*, 2*a, 3, 4a, 5a, b, 6* and 7.
 ——— ——— Pictet, Traité de Paléont. ed. 2, iv, 1857, 502, cix, 21.
 ——— [lævigatus] ——— Zittel, Handbuch Palæont. (1), 1876, 99, f. 392*a, b*.

- NUMMULITES** *lævigata*, Lamarck. 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. *aquitana*, 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.
- ———— De la Harpe, Bull. Soc. Vaud. Sci. Nat. [2], xvii, 1881, 435, fig.
- ———— De la Harpe, Mém. Soc. Paléont. Suisse, vii, 1881, 65, f. 9.
- ———— v. *gironnica*, 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.
- ———— Lamarck, Ency. Method. "Vers," III, (1832), 638, 471, f. 1 (pls., 1827), (P. & J. quote "pt. 23," 1816).
- ———— Cuvier, Animal Kingdom, Henderson's ed. III, 1834 (pls., 1837), 17, iv. ter., 1.
- ———— 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.
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- ———— 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**, Schaffhäutl. Süd-Bayerns Lethaea Geogn. 1863, 99, lxxv, 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. 1, 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, xvii, 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. Krone, 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.
 ———— **lyelli**, d'Archiac & Haime. Descr. Anim. groupe nummulitique Inde, I, 1853, 95, ii, 9a-c; 10a-b; iii, 1a, b, 2.
 ———— Pictet, Traité de Paléont. ed. 2, iv, 1857, 502, cix, 22.
 ———— Schaffhäutl, 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), (II), xv, 4.
 ———— **mammilla** (F. & M.). Lamarek, 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 *Orbitolites*.]
 ———— Morton, Synopsis Org. Rem. Cretac. Group, 1834, 45, v, 9.
 ———— Lyell, Quart. Journ. Geol. Soc. IV, 1848, 11.

- NUMMULITES marginata**, Michelotti. Mem. Soc. Ital. Sci. xxii, 1841, 297, iii, 4. [*Nummulina* ou p. 302; q. v.]
- **maxima**, Catullo. Ann. Fisica (Zantedeschi's), 1849-50, p. 251.
- **meneghini**, d'Archiac & Haime. Deser. Anim. groupe nummulitique Inde, i, 1853, 120, v, 7a, b, c.
- Bütschli, in Bronn, Klassen, etc., Thier-Reichs, 1880, 213, xii, 2.
- **mille-caput**, Bouée. 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.
- Joly & Leymerie, Mém. Ac. Sci. Toulouse, [3], iv, 1848, 187, etc. i, 1-3.
- ? 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, lxx^b, 20a, b, c.
- **molli**, 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**, Brummer. 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 deser. 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**, Boubéc. 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.
- **partschi**, de la Harpe. Bull. Soc. Vaud. Sci. Nat. [2], XVII, 1880, 37, iii, 1, 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, Deser. 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, Deser. Anim. groupe nummulitique Inde, I, 1853, 120, vi, 5-8 [with subvarr.]
- ——— [d'Orb.] v. B, **columbrensis**, d'Archiac & Haime. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 120, vi, 9 and 10 [with subvarr.]
- ——— [d'Orb.] v. C, d'Archiac & Haime. D'Archiac & Haime, Deser. 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, Palaeontologie, 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, Kohlenflötze, 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 perriblanci.** 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**, Lamarek (& 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. Kankas. 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, cix, 19.
- ———— ———— De la Harpe, Bull. Soc. géol. France, [3], v, 1877, 821, xvii, 1-3b.
- **radiatus** (Fiechtel & 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. Dict. 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. 393^a.

- 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. Deser. Anim. groupe nummulitique Inde, I, 1853, 121, vi, 14*a-d*.
- Figuier, 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, Palæontologie, 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, Deser. 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. Deser. 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 (Sommi's Buffon), v, 1805, p. 57. [v. also *Nummulina*.]
- D'Archiac & Haime, Deser. 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, Prodrome 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. Mijn. 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, Kohlenflötze, 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. Mijn. 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*, Schafhäntl. 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 & Blanford, 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 alen-tisch. Inseln, 1871, 84, v, 11-14.
- *suprajurensis*. Alth. Pamietnik akad. Umiej. Krakowie, vi, 1881, 132, xii, 26.
- Alth, Mojsisovics und Nenmayr's Beiträge Pal. Oest.-Ungarn, I, 1882, 314, xxix, 26.
- *tchihatcheffi*, d'Archiac. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 98, i, 9*a-e*. [*N. 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, Kohlenflötze, 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. *luxispira*.]
- Vutskits, Orvos termes. tars. Ertesitö, 1883 [62], iii, 1a, b, c. [Described as *N. bouilleti*, 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, Deser. 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. sédim. tert. 1886, pl. vii, 50-52.
- Jones, Quart. Journ. Geol. Soc. XLII, 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, Deser. 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. *tenüispina*, 29-32].
- **verneuili**, D'Archiac & Haime. Deser. 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. Deser. 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. Deser. 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.
- **willcoxi**, 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'alc. 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.
- Parkinson, Organ. Rem. former World, iii, 1811, 148, etc., x, 17, 20, 22-26.
- Bowdich, Elem. Conch. Part 1, 1822, 15, i, 3 and 4.
- Parkinson, Introd. Study foss. Organ. Rem. 1822, 165, vi, 5.
- Ure, New System Geology, 1829, pl. iii, fig.
- Bakewell, Introd. Geology, 4th ed. 1833, p. xxxiii, pl. viii, 13.
- 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.
- Bendant, Géologie, ed. 8, 1858, 239, fig. 321, later eds. same fig.
- Hitchcock, Elem. Geology, 1860, 30th ed. 140, fig. 92.
- Schafhäütl, 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 *Lenticula diversi generis*, etc.
- see *Rotalites*.
- NUMMULO Brattenburgensi**, Stobaeus. 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 Glocestrie, vulgatissimus. Luid.,
Lithoph. Brit. Ichnogr. 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. miocen. Messina, 1862, 75,
ii, 65-67. [v. *Lagena oviformis*, Sherborn & Chapman; Referred to
Chilostomella, 1889.]
- OCULINA**, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur, 1866,
p. 11.
—— *carinata*, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur,
1866, 14, ii, 19.
—— *cretacea*, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur,
1866, 19, iii, 20. [= *Miliolina*.]
—— *liasica*, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur,
1866, 11, i, 24. [= a *Miliolina*.]
—— *nucleus*, Kübler & Zwingli. Neujahrsblatt Burgersbibl. Winterthur,
1866, 14, ii, 20.
—— *porosa*, Kübler & Zwingli. 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** *laevigata*, 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, Lethaea Geognostica, ed. 3,
II, 1851-52, p. 95.
—— *macroporus* (Lam.). Bronn, Lethaea 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, Lethaea 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. [*Ellypsoïdes* 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. [* 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.
- Bromm, 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, xlv, 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**, Schaffhäntl. Süd-Bayerns Lethaea Geogn. 1863, 105, xiv, 4a, b, and d.
- **boissyi**, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 417, ix, 26. Schauroth, Sitz. k. Ak. Wiss. Wien, xvii, 1855, 545, iii, 7.
- **canalifera**, d'Archiac. Hist. Prog. Géol. III, 1850, p. 245. D'Archiac & Haime, Deser. Anim. groupe nummulitique Inde, I, 1853, 182, xii, 1a, b, c; and II, 1854, 346, xxxv, 5a; xxxvi, 15a, 16a.
- Gümbel, Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 664, ii, 112.
- (cf.) Schwager, Palaeontographica, xxx, 1883, Pal. Theil, 144, xxix (6), 3a, b.
- **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.]
- [Basterot]. D'Orbigny, Ann. Sci. Nat. VII, 1826, 281, No. 1, xiv, [iv in text, by error], 7-10.
- D'Orbigny, Modèles, No. 80, 1826.
- Michelotti, Mem. Soc. Ital. Sci. xxii, 1841, 285, ii, 1.
- [d'Orb.]. Reuss, in Geinitz, Grundr. Verstein. 1845-46, 665, xxiv, 41.
- Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. xi, 1850, Mém. 2, iv, 56.
- [Bast.]. Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 208, xxxv², 7a-d.
- T. Wright, Ann. Mag. Nat. Hist. 2, xv, 1855, 75, vii, 4a, b.
- [Bast.]. Parker & Jones, Ann. Mag. Nat. Hist. 2, xix, 1857, 285, xi, 3 and 4.
- [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.]. Lœcard, Ann. Soc. Agrie. 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.
- v. **granulosa**, Leym. Woodward & Thomas, 13 Ann. Rept. Geol. N. H. Survey Minnesota for 1884 (1885), 164, ii [error for iv], 36.

- OPERCULINA complanata** (DeFr.). Gümbel, Geol. Bayern, Th. I, Lief. 2, 1885, fig. 266, 28.
- **costata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, p. 281, No. 2.
- **crenato-costata**, Schaeuroth. Sitz. k. Ak. Wiss. Wien, XVII, 1855, 545, iii, 8.
- **cretacea**, Reuss. Verstein. Böhm. Kreide, 1845-46, i, 35, xiii, 64 and 65.
- ——— V. d. Marek, Verh. nat. Ver. preuss. Rheinl. xv, 1858, 54, i, 6.
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 309, ii, 1a, b.
- ——— Steinmann, Elem. Paléont. I, 1888, 33, figs. 18 and 19.
- **cruciensis**, Pictet & Renevier. Mat. paléont. Suisse, [1], Mém. I, 1858, 167, xxiii, 4a, b, c.
- **discoidea**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 145, xxix (6), 5a-d.
- **gaimardi**, d'Orbigny. Ann. Sci. Nat. VII, 1826, p. 281, No. 5.
- **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, lxxxvi, 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.
- ——— Leymerie, Mém. Soc. géol. France, [2], I, 1844, 359; xiii, 12a, b, c.
- ——— Brady, Géol. Mag. dec. 2, vol. II, 1875, 532, xiii, 1a, b, c.
- ——— Brady, Jaarb. Mijn. Ned. Oost-Indie, VII, 2, 1878, 158, i, 1a, b, c.
- **hardiei**, d'Archiac & Haime. Deser. Anim. Foss. groupe nummulitique Inde, II, 1854, 346, xxxv, 6a, b, c.
- **heberti**, Munier-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. *Trochammia*.]
- **involvens**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 370, xlvi, 30. [v. *Cornuspira*.]
- **irregularis**, Cornuel. Mém. Soc. géol. France, [2], III, 1848, 256, ii, 20-22.

- OPERCULINA irregularis**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxiii, 1864, 10, i, 17.
- **libyca**, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 142, xxix (6), 2a-g. (Type is *O. ammonca*, 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.
- [—————] (fide Nyst). Potiez et Michaud, Galerie des Mollusques Mus. Donai, Paris, i, 1838, 34, x, 1 and 2.
- **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*.]
- Pictet, 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**, Schauroth. 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**, Gümbel. 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. Descr. 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.
- **thracensis**, d'Archiac. In Tchihatcheff's Asie Mineure, Palaeontologie, 1866, 224, ix, 6a, b.
- Lyell, Elem. Geol. 1838, 55, fig. 21. [= *Crist. cultrata*.]
- Ansted, Geology, 1844, ii, 63, fig. f.
- Pictet, Traité de Paléont. iv, 1846, 229, xii, 10. [= *Cornuspira*.]
- Pilla, Trattato di geol. pt. i, 1847, 461, fig. 80. [= *Cristellaria*.]
- ? sp. Carter, Journ. Bombay Br. R. Asiat. Soc. v, pt. xviii (1853), 131, ii, 3 and 4. [See *O. tattaensis*.]
- Macdonald, Ann. Mag. Nat. Hist. [2], xx, 1857, 193, vi, 31 and 33. [= *Calc. spengleri*.]
- Carpenter, Phil. Trans. 1859, 12, pls. iii, iv, v, vi, and woodcuts in text iv, v, vi, vii, viii.
- 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 Histiologicae*, 1864, 31. [Structural.]
- Williamson, *Pop. Sci. Rev.* iv, 1865, 173, viii, 14. [Section of shell-wall showing pseudopodial tubes.]
- Figuier, *Ocean World* [1873], p. 84, fig. 19.
- Carpenter, *Ency. Brit.* 9th ed. ix, 1879, Foraminifera, 381, fig. 22. [Structure.]
- Bütschli, in Bronn, *Klassen*, etc. Thier-Reichs, 1880, 212, x, 4.
- OPERCULUM** *minimum* *Littoris Arimenensis durissimum depressum*, Cornu Hammonis quodammodo referens. Plancois, *De Conch. Min.* 1739, also 1760, p. 18, pl. iii, *A, B, C*; and pl. iii, f. 2 *E, D, C*. [= ? *Biloculina*.]
- see *Umbilicum*.
- 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*.]
- *birmenstorfensis*, 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, cxcvii, 3. [*Heterostegina depressa*, d'O. = *Heterosteg.*]

- ORBICULINA**, Lamarek, 1816. Ency. Méthod., "Vers," III (1832), 669 (P. & J. quote pt. 23, 1816); Brady, Report Challenger, 1884, p. 208.
- **adunca** (Fichtel & Moll). Lamarek, 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 Histologicæ, 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**, Lamarek. 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** (Lamarek). 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**, Lamarek. 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**, Lamarek. 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, Henderson's ed. III, 1834, (pls. 1837), 18, *ivbis*, 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, cexcvii, 2.
 ———— Bendant, 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.
 ———— Pietet, Traité de Paléont. 2 ed. iv, 1857, 506, cix, 26.
 ———— **uncinata**, Lamarek. Hist. Anim. s. Vert. VII, 1822, p. 609, No. 3. [= *O. adunca* (F. & M.).]
 ———— Crouch, Introd. Lamarek, 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, cexcvii, 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. *Anmodiscus* 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.
 ———— (**Discocyclus**) **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. *Junglühn, Tertiärsch. Java*, 1879-80, 161, xxviii, 2.
- K. Martin, *Niederländ. Arch. Zoöl.* 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** (Rütin.) (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. Mij. 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. 43⁶. [*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. [*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'Archia). 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 nummulitica**, 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.
- (**Discocyclina**) **papyracea** (Bouée). 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 deser. of plate.]
- Brady, Geol. Mag. dec. 2, II, 1875, 535, xiv, 1a, b, c, d.
- Zittel, Handbueh 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.
- (**Discocyclina**) ——— Jennings, Geol. Mag. dec. 3, v, 1888, 530, xiv, 5.
- (**Aktinocyclina**) **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*.] [Glaue.]
- (**Asterocyclina**) **priabonensis**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 715, iv, 3b, a, b, 41 [40].
- (**Asterocyclina**) ——— Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 215, xii, 17.
- (**Aktinocyclina**) **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'Archie). 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.
 ———— Steimmann, Elem. Paléont. i, 1888, 36, fig. 23, E.
 ———— (**Asterocyclina**) ———— [Gümbel.] 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.
- *concaua*, P. & J. *Lyell, Antiq. of Man*, ed. 4, 1873, p. 64, fig. 22. [= *Porosphaera*.]
- ———— Martin, *Jaarb. Mija. 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. concaua* (Lam.).] [= *Porosphaera*.]
- *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.* I, 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.
- *sphærolata*, P. & J. *Ann. Mag. Nat. Hist.* [3], 1860, 34.
- *sphærololiteata*, 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.* XLVII, 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, xlv, 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. sédim. tert. 1886, pl. vii, 58 and 59.
- v. *laciniata*. Brady, Journ. R. Microsc. Soc. 1888, 693, x, 1-14.
- *concava*, 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*, *concava*. 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. li, 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. Pflanzenthiere, 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*, Brummer [MS.]. Rüttimeyer, Nouv. Mém. Soc. Helvet. Sci. Nat. XI, 1850, Mém. 2, 118, v. 74 (78).

- ORBITOLITES stellata**, d'Archiac. Mém. Soc. géol. France, [2], III, 1848, 405, viii, 14. [*Calcarina*, 1846.]
- **submedia**, d'Archiac. Mém. Soc. géol. France, [2], II, 1846, 184, vi, p. 6.
- ——— Fritel, Foss. caract. terr. sédim. 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. Zoöl. (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 duplex*, 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. [*Orbitulites 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.
- *circumvoluta*, Gümbel. Neues Jahrbuch, 1872, 259, vii, 11–18.
- *complanata* (Lamarck). [v. *Orbitulites*.]
- [*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.
- *præcursor*, Gümbel. Neues Jahrbuch, 1872, 256, vii, 1–10.
- *pratii*, Michelin. Catullo, Dei Terreni sed. sup. Venezia, 1857, 26, i, 9. [*Pratii* on pl.]. [*Orbitulites*, 1810.]
- *roncana*, Catullo. Dei Terreni sed. sup. Venezia, 1857, 25, i, 8.
- *tenuissimus*, Carpenter. Abich, Geol. Forsch. Kaukas. Ländern, 1882, 243, fig. 41. [v. *Orbitulites*.]
- *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 *Orbitulites*, Lamarck, Syst. 1801, p. 376, and we can only presume that he was favored by Lamarck's opinion on his specimens.

- ORBITULITES**, Bromm, 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. [= holothroid 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.
- _____ Toula, *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. 1
- _____ Abich, *Geol. Forsch. Kaukas. Ländern*, 1882, 241, fig. 40.
- _____ Terquem, *Mém. Soc. géol. France*, [3], ii, 1882, 24, 1 (ix), 1.
- _____ Schlumberger, *F. Jenn. Nat.*, Jan. 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, lxxxi, 20 and 21; lxxxii, 2 and 3.
- _____ Woodward & Thomas, *13 Ann. Rep. Geol. N. H. Survey Minnesota*, for 1884 (1885), 174, iv, 25-31.
- _____ Gümbel, *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 *Sphaerula vitrea*.

- ORBICULINA**, Ledermüller, Mikrosk. Gemüths. 1763, 8, iv, *n, m*.
 ——— Wallich, North Atlantic Sea-bed, pt. I, 1862, no descr. vi, 10, 13–15. [Structural.]
 ——— Alcock, Mem. Lit. Phil. Soc. Manchester, [3], III, 1868, iv, 1 and 2.
 ——— Chinmo, 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*. Sebaeko, Arch. f. Naturgesch. (Wiegmann's), 1883 (49th Jahrg.), i, 429 etc. xiii, 1.
 ——— Neumayr, Stämme d. Thierreiches, I, 1889 (8), 187, fig. 28b.
 ——— (hispid varr.) see *Sphaerulite hispide*.
 ——— v. *Miliola*.
 "Orbuline *lituola*." Carpenter, The Microscope, 5th ed. 1875, 533, fig. 273a, b. [= *Thurammina papillata*, q. v.]
- ORBULITES**, Lamarek, 1812. Extrait Cours Zool. 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. méthod. 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. méthod. 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. Diet. 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. Diet. Sci. Nat. xxxii, 1824, 188; xxxvi, 1825, 155; Atlas, Conch. xix, 4. [= *Crist. acutauricularis* (F. & M.).]
 ——— ——— Blainville, Manuel Malac. et Conch. 1825 (pls. 1827), 384, x, 4.
 ——— **subulatus**, Montfort. Conch. Syst. I, 1808, 95, 24th genre. [= *Crist. acutauricularis*.]
- OROBAS**, 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** [Montagn]. 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.]

- ORTHOCCERA 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.]. Lamarek, Ency. Méthod., "Vers," n. d. (pls. 1827), 465, f. 3. (P. & J. quote pt. 23, 1816.) [*Nautilus*, 1758.]
 _____ Lamarek, 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.). Lamarek, 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.). Lamarek, Hist. Anim. s. Vert. vii, 1822, p. 594. [*Nautilus*, 1758.]
 _____ **raphanoides**, Lamarek. Syst. Anim. s. Vert. 1801, p. 103. [v. *O. raphanus*.]
 _____ **raphanus** [Linn.]. Lamarek, Ency. Méthod., "Vers," n. d. (pls. 1827), 465, f. 2. (P. & J. quote pt. 23, 1816.) [*Nautilus*, 1758.]
 _____ [Lam.]. Brown, Syst. urweltl. Conchyl. 1824, 9, i, 2 [error for 1].
 _____ Crouch, Introd. Lamarek, 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*.]
ORTHOCCERAS, auct.
 _____ **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. 2r, 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** *farci men*, 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. fascia* [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.) cucieri*, 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. Orit. 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 definentia, 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 = *Sphæc. 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*m*. [*Polymorphina soldanii*, d'O. Ann. Sci. Nat. vii, 1826, 265, 12.]
- Sold., Testac. I, pt. 2, 1791, 99, pl. 107*kk*. [*Polymorphina 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*. [*Marginulina hirsuta*, d'O. Ann. Sci. Nat. vii, 1826, 259, 5.]
- **vitrea in longum striata, pellucida, minuscule**, Soldani. Sagg. Orit. 1780, 107, v, 41*Z*, *Y*, *A*, *B*, *C*, *D*. [41*Y* = *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.]
- **minuscule**, Sold. Testac. I, pt. 2, 1791, 93, pl. 98*A*. [*Nodos. dubia*, 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, Pietorial 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), 111, vi, 3*a*, *b*, *c*; and Géol. Colomb. bolivarienne, 1886, 62, vi, 3*a*, *b*, *c*. [Compare *Nodosaria millepunctata*, Tontkowski, 1887.]
- [**ORTHO CERINA**] **hæringense**, Gumb. Tate & Blake, Yorkshire Lias, 1876, 469, xvii, 29, 29*a*. [*Rhabdogonium*, 1868.]
- **multicostata**, Bornemann. Lias v. Göttingen, 1854, 35, iii, 14*a*, *b*, 15*a*, *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. Physiq. 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*.
- [**ORTHO 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, Denksehr. k. Ak. Wiss. Wien, XLV, Abth. 2, 1882, 194, vi, 79.
 ——— Pictet, Traité de Paléont. iv, 1846, 219, xii, 3.
- ORTHO CEROS**, Mendes da Costa, Elem. Couch. 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.
 ——— boscii, DeFrance. Dict. Sci. Nat. xvi, 1820, 106; Atlas, Zooph. xviii, 4.
 [= *Alveolina sabulosa*.] [See *Borelis*, and *Alveolina*.]
 ——— ——— Bronn, Syst. urwelt. Pflanzenthiere, 1825, 31, vii, 17a-c.
 ——— ——— Blainville, Actinologie, 1834, lxxiii, 4.
- OTHO CERINA**, 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. Couch. Syst. II, 1810, 363, 91st genre.
 [= *Ovulites* of Lamarck.]
- 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**, Lamarck, 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. Palæo-phytologie, 1887, 38, etc.].
 ——— elongata, Lamarck. Hist. Anim. s. Vert. II, 1816, 194.

- OVULINA elongata**, Lamarek. Ency. 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, xji, 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, Ency. 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.
 ———— Lamoureaux, Exposit. méthod. Ordre Polypiers, 1821, 43, etc. pl. 71.
 ———— Bronn, Syst. nrvwelt. Pflanzenthieri, 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. spherica* is the only species yet described.]
 ———— **spherica**, 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, Ency. 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, Mammal Palaeont. ed. 3, 1889, I, 199.
- PATELLINA**, Williamson, 1858. Recent British Foram. 1858, 46; Brady, Report Challenger, 1884, 633.
- [*Note.* For further information concerning *Patellinae* 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; *Canulites cooki*, Carter; *Cyclotina eretacea*, d'Orb.; *Orbitolina discoidea*, Gras; *O. gigantea*, d'Orb.; *Modreparites lenticularis*, Blum.; *Orbitolina mamillata*, d'Arch.; *Cyclotina pedunculata*, Carter; *Orbitolina 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. Dict. 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.
 ——— Bitschli, in Brom, 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. *laevigata*) ; 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'Orbigny. 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 Paleont. 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* (*Litua*) *arietinus*, Batsch.
- var. *arietinus*, Batsch. See *Nautilus* (*Litua*).
- *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, Lethaea 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. *laevigata*, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 153, iii, 7.
- [Montf.]. Zittel, Handbuch Palaeont., Abth. I, 1876, 79, fig. 13².
- [Montf.]. Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 27, pl., 108.
- Schlumberger, F. Jenn. 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 semilunares*.
- ?——— *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, 265, xx, 186 and 187.
 [———] Targioni, Relaz. d' ale. 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 Kleime, 1866, 101, fig. 39.
 ——— Sollas, Nature (30 Nov. 1871), v, 83, figure. [Monstrous.]
 ——— Carpenter, Eney. Brit. 9th ed. ix, 1879, Foraminifera, 374, i, 5.
 ——— Carpenter, Eney. Brit. 9th ed. ix, 1879, Foraminifera, 377, fig. 8.
 ——— Bütschli, in Bronn, 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**, Munnier-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.)]. Munn.-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. sédim. tert. 1886, pl. vii, 62 and 63.
 ——— Munn.-Ch. & Schlumb., Bull. Soc. géol. France, [3], xiii, 1885, 281, etc., fig. [Structural.]
- PERILOCULINA**, Munnier-Chalmas & Schlumberger, 1885. Bull. Soc. géol. France, [3], xiii, 1885, p. 308, etc.

- PERILOCULINA 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. *laeviuscula*; 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*.]
- Phacolites**, 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.
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 ———— **oceanicum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), iii, 10.
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 ———— **pæonia**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ———— **pelagicum**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 287.
 ———— Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 14.
 ———— **porulosum**, Ehrenberg. Mikrogeologie, 1854, xxxi, i, 15. [= *Globig. hirsuta*, d'O.]
 ————? ———— Ehr., Abh. k. Ak. Wiss. Berlin, 1855, 176, vii, 15. [= *Globig. cretacea*.]
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 ———— **scutellatum**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 13.
 ———— **senarium**, Ehrenberg. Mikrogeologie, 1854, xxxii, i, 25. [= *Globig. hirsuta*.]
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 ————? 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 laevis*, Mont.]
 ———— **clavata**, Seguenza. Foram. monotal. miocen. Messina, 1862, 45, i, 17. [= *L. laevis*, 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.]
 ———— **cylindræa**, 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.]
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 ———— **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. laevis*, 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, Smithsonian. 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. Schenckler, 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.
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- Pierres lenticulaires.** Guettard, Mém. diff. part. Sci. II, 1770, 185, etc. ; III, 1770, 431, pl. xiii.
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- **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**, Schaffhäntl. Geogn. Unters. sudbay. Alpengeb. 1851, 48, xiii [misprinted in text xviii], fig. 5. [An "oolitic granule;" may be *Trochamnina*.]
- PIRULINA**. Bronn, 1851-52. Error for *Pyrulina*.
- PLACENTULA**, Lamarek, 1822. Hist. Anim. s. Vert. vii, 1822, 621.
- **asterizans**, [F. & M.], Lamarek. Hist. Anim. s. Vert. vii, 1822, 621, No. 2. [*Nautilus*, 1798.]
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- **partschiana**, Berthelin. Bull. Soc. géol. France, [3], xi, 1883, 304, figure p. 307. [= *Pulvinulina partschiana*, d'Orb.]
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- **anomala**, Terquem. Cinq. Mém. Foram. Lias, 1866, 423, xvi, 6a, b, c.
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- **antiqua**, Terquem. Bull. Soc. géol. France, [3], viii, 1880, 416, xi, 2. [Cast.]
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- **cenomana**, d'Orb., 1847. Prodrome de Paléont. ii, 1850, 185, No. 758. ["(Enfs de Molluscs," 1848; see also *Lituola*.]
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- **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.
- **flouesti**, Terquem. *Mém. Ac. Imp. Metz*, XLIV, 1863, 390, vii, 17a, b.
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- **prisca**, Terquem. *Bull. Soc. géol. France*, [3], viii, 1880, 415, xi, 1a, b, c. [Cast.]
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- See *Polyxenes*.
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 ——— *thebaica*, Ehr. Mikrogeologie, 1854, xxiv, 63. [= *Crist. italica* ?]
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 ——— *angusta*, Nilsson. K. Vet. Ak. Handl. 1825 (1826), 343. [v. also *Frondicularia*.]
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 ——— *elliptica*, Nilsson. K. Vetensk. Acad. Handl. for 1825 (1826), 342. [v. *Flabellina*; also *Frondicularia*.]
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 ——— *ampliata*, Ehrenberg. Mikrogeologie, 1854, xxxi, 60. [Near *P. ariminenensis*.]
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 ——— *annulosa*, Ehrenberg. Mikrogeologie, 1854, xxviii, 44. [= *Cristellaria*.]
 ——— Ehr., Mikrogeologie, 1854, xxvii, 42a, b, and xxx, 29. [= *Planorb. ammonoides*.]
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 ? ——— *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*.]
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- Basset, Ann. Soc. Sci. Charente-Inf. 1884 (85), 162, fig. = *Planorb. rotula* (d'O.), v. *Ammonia foliaceae*, and *Hammonia subrotunda*.
- **aspera**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 427.
- Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
- **baileyi**, Ehr., v. *Aristospira*.
- **caspia**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1872 (1873), xii, 7.
- **centoculus**, Ehrenberg. Mikrogeologie, 1854, xxiv, 45. [= *Planorb. vulgaris.*]
- **chloëa**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 288.
- ? ——— **conspersa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 372.
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- ? ——— **crisiae**, 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.*]
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- { **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. 1858, 25.
 ——— **incerta**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 280, No. 3.
 ——— ——— = *Truncat. lobatula* (young); see *Ammoniaæ plano-convexæ*.

- 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. [= *Planorbulinae*.]
 ? ——— **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. [= *Planorbulinae*.]
 ——— **leptoderma**, Ehrenberg. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 307.
 ——— Ehr., 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.
 ——— Ehr., 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*.] [Glauc.]
 ——— **micropentas**, 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.
- **oceanii**, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1841, 427.
- **ocellaris**, Ehrenberg. Mikrogeologie, 1854, xxix, 12. [Near *P. ariminenensis.*]
- **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. turgidula*, 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. ariminenensis.*]
- 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, xxxiii, 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. ariminensis.*]
- **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 levigata*, 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.
- **prototetras**, Ehrenberg. Mikrogeologie, 1854, xxiv, 50. [= *Planorb. tuberosa*, F. & M.]
- Ehr., Mikrogeologie, 1854, xx, ii, 16. [= *Glob. bulloides.*]
- **pyramidum**, Ehrenberg. Abh. k. preuss. 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. ariminensis.*]
- **soldanii**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 280, No. 4. [v. *Planorbulina.*]
- = *Planorbulina*; see *Hammonie subrotundæ*; and *H. planerotundæ.*
- **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*.]
 ————— **suboctonaria**, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 48. [= *Planorb. anononoides*.]
 ————— **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*.]
 [———— ?] Maedonald, Ann. Mag. Nat. Hist. [2], xx, 1857, 193, v, 15.
 ————— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1875 (1876), 158, i, 1.
- PLATOU**, F. E. Schulze, 1875. Arch. Mikr. Anat. xi, 1875, 115.
 ————— **parvum**, F. E. Schulze. Arch. Mikr. Anat. xi, 1875, 115, vi, 1-4.
 ————— Möbins, Abh. k. pr. Ak. Wiss. Berlin, 1888 (1889), 15.
- PLATULINA**, Guérin-Méneville, 1829-43. Misprint for *Planulina*.
- PLATYŒCUS** ? **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. Spezialkarte Elsass-Lothr. II, IIeft 3, 1884, 199, vii, 10.
 ————— **comatum**, Dunikowski. Kosmos [Lemberg], iv, 1879, 131, plate, 26.

- PLECANIUM** *tuberiforme*, Segnenza. 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 bicamrate, 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. henrichii*.]
- ? —— *calciparus*, Ehr. Mikrogeologie, 1854, xxviii, 28 and 29, and xxx, 19. [= *Virg. henrichii* (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. henrichii*.]
- *turgidus*, Ehr. Mikrogeologie, 1854, xxix, 38. [= *Virg. henrichii* (Ehr.).]
- PLEUROPHRYS**, Claparède & Lachmann. Mém. Inst. Nat. Génèvois, vi, 1858 (1859), 454.
- *lageniformis*, O. E. Schulze. Arch. Micr. 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.
- PLEUROS TOMELLA**, 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.
- Schumberger, 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.
- *eoæna*, 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.

- PLEUROSATOMELLA 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.
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 ———— **bimucronata**, Costa. Ann. Mus. Zool. Univ. Napoli, I, 1862, Art. 11, 94, no figure.
- PLEUROTREMA 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.]
- Pœcilospermos**, Mercatus, Metallotheca, 1719, 285, fig., and 286, fig. [= *Nummulites*.]
- Polimorphina**, Hantken, 1875. Misprint for *Polymorphina*.
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 ———— **janiformia**, Sold. Testac. II, 1798, 39, pl. 14h. [*Textularia tuberosa*, d'O. Ann. Sci. Nat. VII, 1826, p. 263, 26.]
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 ———— 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.]
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- POLYMORPHA sagittulæ**, Sold. Testac. I, pt. 2, 1791, p. 120, pl. 133T.
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- **subcordiformia vel oviformia**, Sold. Testac. I, pt. 2, 1791, p. 114,
 pl. 112 (not 132)gg. [*Polymorphina (Glob.) ovata*, d'O. Ann. Sci. Nat.
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- **subovalia**, Sold. Testac. I, pt. 2, 1791, p. 115, pl. 117p. [*Marginu-
 lina lobata*, d'O. Ann. Sci. Nat. VII, 1826, p. 259, 12.]
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 laria caulata*, d'O. Ann. Sci. Nat. VII, 1826, p. 263, 25.]
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 123K. [*Globigerina elongata*, d'O. Ann. Sci. Nat. VII, 1826, p. 277, 4.]
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 [*Globigerina bulloides*, d'O. Ann. Sci. Nat. VII, 1826, p. 277, 1.]
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 (Pygulina) gutta*, d'O. Ann. Sci. Nat. VII, 1826, p. 267, 28.]
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 120, i, 13.
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 lina*.]
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- (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, Schr. 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. Spezialkarte 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-Expéd., 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, xvii, 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, 21*a*, *b*.
- *imbricata*, Terquem. Six. Mém. Foram. Lias, 1866, 524, xxii, 28*a*, *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, 7*a*, *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, 29*a*, *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. [v. *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 149*a*.
- 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, 52*a*–*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).
- _____ Toulou, 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. Lineei [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.
- _____ **lingua**, 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. Specialkarte 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.
- Hautken, 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, Manual 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 Münster. Roemer, Neues Jahrbuch, 1838, 385, iii, 23.
- [Roem.]. Reuss, Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 471, iii, 9 and 10.
- [Roem.] var. Reuss, Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 471, iii, 8.
- (**Gutt.**) **obtusa**, Bornemann. Andreae, Abh. geol. Specialkarte 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. Specialkarte 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. [*Apiopterina*, 1834.]

- POLYMORPHINA orbignii** (Zborzewski). Büttschli, 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 subcordiformia*, 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. nat. Württ. XXI, 1865, 138, vii, 8. [*Polymorphina* 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.
- **prælonga**, Egger. Neues Jahrbuch, 1857, 287, xiii, 25-27.
- **prælonga**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 39, iii (viii), 20-21b.
- Terquem, Mém. Soc. géol. France, [3], II, 1882, 142, xiv (xxii), 34-45; and xv (xxiii), 1-8.
- **prisca**, Ehr. Mikrogeologie, 1854, xxiv, 34. [= *P. compressa*, d'O.]
- **prisca**, Reuss. Berthelin, Mém. Soc. géol. France, [3], I, 1880, 57, iv (xxvii), 20a-21. [*Globulina*, 1862.]
- **problema**, d'Orbigny. Modèles, No. 61, 1826. [v. *Guttulina*.]
- (Gutt.) ——— Egger, Neues Jahrbuch, 1857, 287, x, 23-25.
- v. **deltoidea**, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 154, iv, 8.
- (Gutt.) ——— P., J., & B. [d'O., Modèles, 61], Ann. Mag. Nat. Hist. [3], XVI, 1865, 28, ii, 50.
- J., P., & B., Crag Foram., Pal. Soc. XIX, 1866, n. d., i, 64.
- B., P., & J., Trans. Linn. Soc. XXVII, 1870, 225, xxxix, 11a, b.
- v. **deltoidea**, Reuss. Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 50, viii, 3; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 59, same pl. and fig. [*P. gibba*, d'O., var. *deltoidea*, Rss., in deser. of plate.]
- Tate & Blake, Yorkshire Lias, 1876, 470, xvii, 33.
- (Gutt.) ——— v. **deltoidea**, Reuss. Andreae, Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 210, ix, 21.

- POLYMORPHINA problema**, d'Orbigny. Brady, Report Challenger, 1884, 568, lxxii, 20; lxxiii, 1.
- (Gutt.) ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 161, fig.
- **proteiformis**, Reuss. Bull. Ac. Roy. Belg. [2], xv, 1863, 151, ii, 30-36; iii, 37-40.
- **pulchella**, (d'O.). B., P., & J., Trans. Linn. Soc. xxvii, 1870, 239, xli, 28a, b. [*Guttulina*, 1839.]
- **pupa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 265, No. 9.
- **pupiformis**, Terq. Quatr. Mém. Foram. Lias, 1864, 300, xiii, 22-37.
- ——— Terquem, Six. Mém. Foram. Lias, 1866, 525, xxii, 31a, b.
- ——— Terquem, Quatr. Mém. Foram. Oolithique, 1874, 303, xxxiii, 4.
- ——— Terquem, Mém. Soc. géol. France, [3], iv, 1886, 63, vii, 19.
- **pusilla**, Ehr. Monatsbericht k. pr. Ak. Wiss. Berlin, 1872, 291.
- ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), iv, 12.
- **pygmea**. See *P. pygmea*.
- **pyriformis**, Terquem. Quatr. Mém. Foram. Lias, 1864, 298, xii, 41-43.
- **quadrata**, Terquem. Quatr. Mém. Foram. Lias, 1864, 296, xii, 25-32.
- **racemosa**, Terquem. Bull. Soc. zool. Fr. xi, 1886, 335, xi, 22.
- **regina**, B., P. & J. Trans. Linn. Soc. xxvii, 1870, 241, xli, 32a, b.
- ——— Brady, Report Challenger, 1884, 571, lxxiii, 11-13.
- ——— Wright, Proc. Belfast Nat. Field Club, 1884-85, App. ix, 1886, 331, xxvii, 13 and 14. [13 is fistulose.]
- **regularis**, von Muenster. Roemer, Neues Jahrbuch, 1838, 385, iii, 21.
- ——— Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 247; vii, 70-73.
- ——— v. **nysti**, Reuss. Bull. Acad. Roy. Belg. [2], xv, 1863, 152, iii, 42.
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- **sacculus**, Terquem. Quatr. Mém. Foram. Lias, 1864, 303, xiii, 43a, b.
- **schwageri**, Karrer. Abh. k. k. geol. Reichs. ix. 1877, 384, xvii, 43.
- **seguenzana**, Brady. Report Challenger, 1884, 567, lxxii, 16 and 17.
- **semicostata**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 150, ii, 19a, b, c.
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- POLYMORPHINA septata**, Terquem. Quatr. Mém. Foram. Lias, 1864, 301, xiii, 40.
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- (**Glob.**) **spinosa**, d'Orb. Egger, Neues Jahrbuch, 1857, 292, xiv, 9 and 10. [*Globulina*, 1846.]
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- **subacuta**, d'Orb., 1847. Prodrome de Paléont. iii, 1852, 159, No. 2978. [*P. acuta*, d'O., 1846.]
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- 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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- **berthelotiana**, d'Orbigny. Barker-Webb & Berthelot, Hist. Nat. Iles Canaries, II, pt. 2, 1839, "Foraminifères," 129, ii, 31 and 32.
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- **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*.]
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- **costifera**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 47, ii (x), 26a, b.
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- v. (*Nonion*.) *umbilicatula*, Mont. Hamilton, Trans. N. Zealand Inst. XIII, 1881, 395, xvi, 14.
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- _____ Dawson, Handbook Zoölogy, ed. 3, 1886, 45, fig. 37.
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- _____ = *P. macella* (F. & M.); see *Nautili striati communes* (*crispi* Linnaei).
- _____ See *Thameon*.
- _____ **cryptostoma**, Egger. Neues Jahrbuch, 1857, 301, ix, 19 and 20.
- _____ **depressula**, Brown. Illustr. 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**, Renss. Sitz. k. Ak. Wiss. Wien, I, 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, xlviii, 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.
- **karrereri**, 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 verzaam. 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.
- **latidosata**, Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 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 *Ammonia*.
- ———— 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; xiv, 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**, Gümbel. 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, eix, 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. Diet. ed. 4, 1883, 623, xxiv, 19.
———— Brady, Report Challenger, 1884, 733, eix, 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, Testae. i, 1, 1789, 54, pl. 34ee, ff = this form.
See *P. crisa* (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. Jeun. Nat., Feb. 1882, ii, 10 (after Schultze).
———— = *P. crisa*; 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-Expéd., 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. 1, 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, cexevii, 8. [*Planorbulina*, d'O. = *Planorb.*]
- [——?] Ledermüller, Mikr. Gemüths, 1763, 16, viii, b.
- Pietet, Traité de Paléont. IV, 1846, 229, xii, 11.
- Rüttimeyer, Nonv. 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**, Sassan 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, xlv, 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*] ——— Möbins, 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 melobesioides*.]
 ——— *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, Zöoph. 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*.]
Porpita *nummularis*, Stobæus. Dis. epist. ad W. Grothaus, de Numm. Bratt. 1732. [= *Orbitolites*.]
Porpita *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 *Psammecinus*); 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.]
- PROROPORUS**, 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 *Bigennerina*.]
- —— 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, xxiii, 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. 1, 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. *Hyperammina*.]
- 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 ammelid; F. Chapman, in Quart. Journ. Geol. Soc. 1895, shows it to be a Foraminifer.]
- PSAMMOSPHERA**, F. E. Schulze, 1875. II. Jahresh. Comm. Wiss. Untersuch. deutsch. Meer in Kiel, 1875, 113; Brady, Report Challenger, 1884, 249.
- *fusca*, Schulze. II. Jahresh. 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'Orb.]
 ——— Ehr., Mikrogeologie, 1854, xxv, i, *A*, 43. [= *Planorb. vulgaris*.]
- **senarium**, Ehr. Mikrogeologie, 1854, xxxii, i, 27. [= *Globig. hirsuta*, d'Orb.]
 ——— 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.
 ——— Steinmann, 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**, Seguenza. Atti R. Acc. Lincei, [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 Lincei, 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 ent, 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, evi, 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. i, 1, 1789, 56, pl. 37E = this form.
- *sec Caneris*.
- **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** (Gümbel). Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 192, iii, 7 and 8 ; v, 4, 5, and 8. [*Rotalia*, 1868.]
- **broeckiana**, 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 *Pub. budensis* in descr. of plate.]
- **boueana** (d'Orbigny). Reuss, Denkschr. 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 descr., 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. I, 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, cv, 1a, b, c.
 ———— Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 190, iii, 3 and 4.
 ———— Soldani, Testac. I, 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. [*Valvulina*, 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, cxv, 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, cv, 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, cvi, 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], I, 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.).
 _____ **kilianii**, 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. Specialkarte 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, xlvi, 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, ciii, 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. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 216, viii, 12.
- **petrolei**, Andreae. Abh. geol. Specialkarte Elsass-Lothr. II, Heft 3, 1884, 217, viii, 15.
- **procera**, Brady. Quart. Journ. Micr. 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. Micr. 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 deser. of plate.]
- [**pygmæa**, Hantk.]. Andreae, Abh. geol. Specialkarte 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. **melcheliniana** (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 = varr. of this form.
 ———— v. **pulchella**, d'O. Soldani, Testac. I, 1, 1789, 56, pl. 36S, V, X = varr. of this form. [X = *P. boueana* (d'O.).] [See *Rotalia*.]
 ———— vermicular var. See *Fruentaria 7 speciei*.
 ———— **rjäsänensis**, 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, exv, 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.
 ———— **semiornata**, 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*, Andrae. 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 deser., xv, 9; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), same pl. and fig. [Given as *Discorb. discu* 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.]
- ——— Teirigi, Atti Acc. Pont. Nuovi Lincei, 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 *Polymorphina.*]
 - 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 *Polymorphina.*]
 - 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.
- "*Quadriloculares*," 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 *Polymorphina*.

- QUINQUELOCULINA akneriana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 290, xviii, 16-21. [See *Miliolina*.]
 ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 85, xii, 5*a*, *b*, *c*; (and Mém. Soc. Dunkerquoise).
 ——— **alata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 38, vi, 2*a*, *b*, *c*; (and Mém. Soc. Dunkerquoise).
 ——— **anguina**, Terq. Mém. Soc. géol. France, [3], I, 1878, 78, ix (xiv), 20*a-c*.
 ——— Terquem, Mém. Soc. géol. France, [3], II, 1882, 180, xix (xxvii), 20*a-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, 13*a*, *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**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 384, xlix, 18.
 ——— **annularis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 180, xix (xxvii), 17*a-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), 11*a-c*.
 ——— = *Q. seminulum* (Linn.); see *Fruentaria seminula*.
 ——— **asperula**, Seguenza. Atti Accad. Gioenia Sci. Nat. [2], XVIII, 1862, 120, ii, 6, 6*a* and 6*b*.
 ——— Schwager, Novara-Exped., Geol. Theil II, 1866, 203, iv, 16*a*, *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), 10*a-c*.
 ——— **bicarinella**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 456, i, 6*a-c*.
 ——— **bicornis** (Walk.). Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 39, vi, 6*a*, *b*, *c*; (and Mém. Soc. Dunkerquoise). [*Serpula*, 1798.]
 ——— v. **elegans**, Will. Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 39, vi, 7*a*, *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.
- **biröstris** (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. Pontauiana, 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. Diet. ed. 4, 1883, 651, xxiii, 6a, b.
- **bronniiana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 287, xviii, 4-6.
- **büchiana**, d'Orbigny. Foram. Fossiles Vienne, 1846, 289, xviii, 10-12.
- Costa, Atti Accad. Pontauiana, 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, l, 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.

- QUINQUELOCULINA contraria**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 85, vii (xvii), 12a, b.
- **cora**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 76, ix, 16-18.
- **cor-anguinum** (Lamarek). Mantell, Pictorial Atlas Foss. Rem. 1850, 143, lxii, 12 and 13. [*Miliolites*, 1804.]
- **corrugata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, n. d., xxv, 14.
- **costata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 3.
- Terquem, Mém. Soc. géol. France, [3], I, 1878, 63, vi (xi), 3a-5c.
- Terquem, Mém. Soc. géol. France, [3], II, 1882, 183, xx (xxviii), 8 and 9.
- **costata**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 362, iii, 4.
- **crassa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 14.
- Terquem, Mém. Soc. géol. France, [3], II, 1882, 186, xx (xxviii), 20 and 21.
- **crassicostata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 185, xx (xxviii), 14-17.
- **cuvieriana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 190, xi, 19-21; also in Spanish, 1840, 164, same pl. and fig. [v. *Miliolina*.]
- **denticulata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 325, xxv, 9A, B, C [error for 6].
- **depressa**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 38.
- Terquem, Mém. Soc. géol. France, [3], I, 1878, 70, viii (xiii), 1-11.
- **dilatata**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 192, xi, 28-30; also in Spanish, 1840, 166, same pl. and fig.
- **dimidiata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 81, xi, 5a, b, c; (and Mém. Soc. Dunkerquoise).
- **disciformis** (Will.). Terquem, Mém. Soc. géol. France, [3], I, 1878, 73, viii (xiii), 22a-c. [v. *Miliolina seminulum*.]
- var. Terquem, Ess. Anim. Plage Dunkerque, pt. 3, 1881, 135, xvii, 17a, b; (and Mém. Soc. Dunkerquoise).
- **disparilis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 21.
- **disticha**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 183, xx (xxviii), 7a-c.
- **dubia**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 303, No. 47.
- **dutemplei**, d'Orbigny. Foram. Fossiles Vienne, 1846, 294, xix, 10-12.
- Harting, Magt van het Kleine, 1849, iii, fig. 6; German by Dr. A. Schwartzkopf, 1851, 81.
- **eborea**, Schwager. Novara-Exped., Geol. Theil II, 1866, 204, iv, 18a, b, c.
- **elegans**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 12.
- Terquem, Mém. Soc. géol. France, [3], I, 1878, 64, vi (xi), 7a-9c.
- **enoplostoma**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 196, xii, 14-17; also in Spanish, 1840, 169, same pl. and fig.
- **eos**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 457, i, 7a-c.
- **ermani**, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 351, xix, 6.
- v. **trigonostomea**, Franzenau. Földtani Közlöny, XI, 1881, 45 and 98, iii, 10-12.
- **excavata**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 148, ii, 9.
- **fabularoides**, Karrer. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 704, i, 3.
- **falcifera**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 151, iii, 3.

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 ———— *gracilis*, Karrer. Sitz. k. Ak. Wiss. Wien, IV, Abth. 1, 1867, 361, iii, 2.
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 ———— *grizingensis*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 385, li, 1.
 ———— *gualtieriana*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 186, xi, 1-3; also in Spanish, 1840, 162, same pl. and fig.
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- **inca**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 75, iv, 20-22.
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- **instabilis**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 177, xix (xxvii), 6-11.
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- ——— Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, 321, xxv, 4A, B, C, D.
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- ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 40, vi, 9a, b, c; (and Mém. Soc. Dunkerquoise).
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- **kostejana**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 152, iii, 4.
- **krenneri**, Franzenau. Földtani Közlöny, XI, 1881, 46 and 98, iii, 13-18.
- **lachesis**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 146, ii, 4.
- **lacunosa**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 362, iii, 6.
- **ladidorsata**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 386, I, 12.
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- **lævigata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 6.
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- **lamellidens**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 41, i, 7a-c.
- **lanceolata**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 84, vii (xvii), 7a, b.

- QUINQUELOCULINA** *lata*, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 82, xi, *8a, b*; (and Mém. Soc. Dunkerquoise).
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- *limbata*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 20.
- *lobata*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, n. d., xxvi, 248.
- *longicollis*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, n. d., xxv, 3.
- *longidentata*, Terquem. Mém. Soc. géol. France, [3], II, 1882, 176, xviii (xxvi), 29 and 30, and xix (xxvii), 1 and 2.
- *longirostra*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 303, No. 46.
- ———— D'Orb., Foram. Fossiles Vienne, 1846, 291, xviii, 25–27.
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- [*longirostris*] ——— Schwager, Boll. R. Com. Geol. Ital. VIII, 1877, 27, pl., 116.
- ———— See *Fruentaria seminula*.
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- *ludwigi*, Reuss. Denkschr. k. Ak. Wiss. Wien, xxv, 1865, 126, i, 12.
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- ———— Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 40, vi, *12a, b*; (and Mém. Soc. Dunkerquoise).
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- *nobilis*, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 149, ii, 11.
- ? ——— *nodulus*, Ehrenberg. Mikrogeologie, 1854, xxiv, 65.
- *notata*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 385, 1, 7.
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- ———— Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, 326, xxv, 10 and 11.
- *obliqua*, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 75, ii, *6a, b, 7a-c*.
- ? ——— *oblonga*, Ehrenberg. Abh. k. Ak. Wiss. Berlin, 1838, 133.
- ———— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), i, 7.
- *oblonga* (Mont.). Terquem, Ess. Anim. Plage Dunkerque, pt. 1, 1875, 40, vi, *10a, b*; (and Mém. Soc. Dunkerquoise). [*Vermiculum*, 1803.]
- *oblonga*, Reuss. Sitz. k. Ak. Wiss. Wien, xviii, 1856, 252, ix, 89.
- *oblonga*, Will. Terquem, Ess. Anim. Plage Dunkerque, pt. 2, 1876, 85, xii, *6a, b*; (and Mém. Soc. Dunkerquoise). [See *Miliolina seminulum*, var.]
- *obsoleta*, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 328, xxi [error for xxvi], *4A, B, C*.
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- ———? ——— Dawson, Canad. Nat. II, 1857, 422, vii, 18.
- *oculus*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 31.

- QUINQUELOCULINA** *oculus*, d'Orbigny. Terquem, Mém. Soc. géol. France, [3], i, 1878, 65, vi (xi), 12a-c.
- *opaca*, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 42, ii, 9a-c.
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- *orbicularis*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 37.
- Terquem, Ess. Anim. Plage Dunquerque, pt. 2, 1876, 86, xii, 9a, b; (and Mém. Soc. Dunkerquoise).
- *ornatissima*, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 151, iii, 2. [v. *Hauerina*.]
- *ovalis*, Bornemann. Zeitschr. deutsch. geol. Ges. VII, 1855, 351, xix, 9.
- *ovata*, Roemer. Neues Jahrbuch, 1838, 393, iii, 78.
- Reuss, Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 252, ix, 88.
- *ovula*, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 147, ii, 8.
- *ovula*, Terquem. Quatr. Mém. Foram. Oolith. 1874, 332, xxxvi, 8-16.
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- *parasitica*, Terquem. Mém. Soc. géol. France, [3], i, 1878, 78, ix (xiv), 22a-c.
- *parisiensis*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 5.
- Terquem, Mém. Soc. géol. France, [3], ii, 1882, 181, xix (xxvii), 21a-c.
- *partschii*, d'Orbigny. Foram. Fossiles Vienne, 1846, 293, xix, 4-6.
- Terquem, Ess. Anim. Plage Dunquerque, pt. 2, 1876, 83, xi, 9a, b, c; (and Mém. Soc. Dunkerquoise).
- *patagonica*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 74, iv, 14-16.
- *paucisulcata*, Reuss. Sitz. k. Ak. Wiss. Wien, I, Abth. 1, 1864 (1865), 452, i, 7.
- *pauperata*, d'Orbigny. Foram. Fossiles Vienne, 1846, 286, xvii, 22-24.
- Terquem, Ess. Anim. Plage Dunquerque, pt. 1, 1875, 40, vi, 11a, b, c; (and Mém. Soc. Dunkerquoise).
- *peregrina*, d'Orbigny. Foram. Fossiles Vienne, 1846, 292, xix, 1-3.
- v. *edentula*, Frauenau. Földtani Közlöny, XI, 1881, 45 and 97, iii, 4-6.
- *pertusa*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 183, xx (xxviii), 5a-c.
- *peruviana*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 73, iv, 1-3, 10-13.
- *philippii*, Reuss. Sitz. k. Ak. Wiss. Wien, XVIII, 1856, 252, ix, 87.
- *placenta*, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 374.
- *plana*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 301, No. 8.
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- Terquem, Mém. Soc. géol. France, [3], ii, 1882, 174, xviii (xxvi), 20 and 21.
- *planciana*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 186, x, 24 and 25, xi, 4-6; also in Spanish, 1840, 162, same pl. and figs.
- *plicata*, Terquem. Mém. Soc. géol. France, [3], ii, 1882, 179, xix (xxvii), 14a-c.
- *plicatella*, Reuss. See *plicatula*.
- *plicatula*, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 74, iii, 2a-c. [*plicatella* on plate.]

- QUINQUELOCULINA plicosa**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 322, xxv, 2A, B, C, 5A, B, C, and 7.
- **pocayana**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 191, xi, 25-27; also in Spanish, 1840, 166, same pl. and fig. [*Q. pocayana* on plate.]
- **polygona**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 198, xii, 21-23; also in Spanish, 1840, 170, same pl. and fig.
- **ponderosa**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 76, ix (xiv), 11a-13c.
- **porosa**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 374.
- **prisca**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 32.
- ——— Terquem, Mém. Soc. géol. France, [3], II, 1882, 182, xx (xxviii), 1-4.
- **proxima**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 69, vii (xii), 15a-16c.
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- ——— Brady, Trans. Linnean Soc. XXIV, 1864, 466, XLVIII, 4.
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- ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 3, 1881, 134, xvii, 15 and 16; (and Mém. Soc. Dunkerquoise).
- ——— See *Frumentaria seminula*.
- **punctata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 40.
- **punctata**, Reuss. Neues Jahrbuch, 1853, 675, ix, 8.
- **punctulata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 22.
- **pygmæa**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 384, I, 3. [See *Miliolina*.]
- **quadrangula**, Nemes. Orvos termes. értesítő (term. szak), XIII, 1888, 163 and 218, vi, 3.
- **quadrangularis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 2, 1876, 82, xi, 7a, b, c; (and Mém. Soc. Dunkerquoise).
- **quinquangularis**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 74, ix (xiv), 1a-2c.
- **radiosa**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 77, ix (xiv), 14a-c.
- **rakosiensis**, Franzenau. Földtani Közlöny, XI, 1881, 45 and 98, iii, 7-9.
- **rawackensis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 302, No. 19.
- **regularis**, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 384, I, 1.
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- **reticulata**, Karrer. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 449, ii, 5.
- **rhomboides**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 187, xx (xxviii), 23a, b.
- **rodolphina**, d'Orbigny. Foram. Fossiles Vienne, 1846, 299, xx, 7-9.
- **rostrata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 174, xviii (xxvi), 18 and 19.
- **rotunda**, Roemer. Neues Jahrbuch, 1838, 394, iii, 79.
- **rotundata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, n. d., xxvi, 10.

- QUINQUELOCULINA rotundata**, Terq. & Berth. Mém. Soc. géol. France, [2], x, 1875, 85, vii (xvii), 10a, b¹.
- **rugosa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 302, No. 24.
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- **sagra**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 188, xi, 16-18; also in Spanish, 1840, 163, same pl. and fig.
- **sancti-beati**, Rüttimeyer. Nouv. Mém. Soc. Helvet. Sci. Nat. xi, 1850, Mém. 2, v, 62.
- **sandbergeri**, Reuss. Neues Jahrbuch, 1853, 674, ix, 7.
- **sarmatica**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 375, xvi, a, 11a, b, c.
- v. **elongata**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 376, xvi, a, 11b.
- v. **virgata**, Karrer. Abh. k. k. geol. Reichs. ix, 1877, 376, xvi, a, 11c.
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- ———— 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.*
- ———— Haeusler, *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.*
- ———— Haeusler, *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**, Haeusler. *Neues Jahrbuch, Beil. iv, Heft 1, 1885, 10, i, 8.*
- sp. ind. Haeusler, *Neues Jahrbuch, 1883, i, 61, iv, 15.*
- sp. ind. Haeusler, *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**, Haeusler, 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 ant.) spinulosa** (Renss). 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 *Astrorhizide*.]
- **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. [*Astro-rhiza*, 1879.]
 ———— Haensler, *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**, Deceke. *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 *Bromm, 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. Haensler, *Neues Jahrbuch*, 1883, i, 53, iii, 4 and 5.
 ———— De Folin, *Bull. Soc. N. H. Toulouse*, xv, 1881, 133; 43 new species proposed but not described !
- RHABDAMMINELLA**, 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'Archiaë & Haime, 1854. *Descr. 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. *Descr. Anim. Foss. groupe nummulitique Inde*, II, 1854, 351, xxxvi, 18a, b.
 ? ———— sp. ind. Meneghini, *Paléont. Ile Sardaigne*, 1857, 330F, 11a, 11a¹.
- 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 *Mith. 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), 44, 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*, Hantken. *Magyar. földt. társ. Munkálatai*, IV, 1868, 90, i, 18a, b, c.
- *tricarinatum* (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, xlv, 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*.]
- *algæformis*, 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, 114, 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.
- **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. Jern. 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**, Neugeboren. Arch. Ver. siebenburg. Landeskunde, 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. Ac. Imp. Metz, XLIV, 1863, 430, x, 19 [20] a, b.
- ——— var. **alta**, Deecke. Abh. geol. Spezialkarte 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 deser. 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, 92.
- ——— 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, exxix, 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**, Renss. 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, exxviii, 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, exxviii, 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, exxviii, 16.
 [d'Orb.]. Schumberger, 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, 37*A, 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, 58*a, b*.
- **confusa**, Seguenza. Atti R. Acc. Lineei, [3], VI, 1880, 142, xiii, 21, 21*a*.
- **corona-lunæ**, Stache. Novara-Exped., Geol. Theil I, 1864, 250, xxiii, 29*a, 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.
- ? ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 207, xxxv², 9*a, b*.
- [d'Orb.] var. **antipodum**, Stache. Novara-Exped., Geol. Theil I, 1864, 251, xxiii, 30*a, 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 (Lenticule marginate)*; and *Nautilus circumalati*, etc.; and *Naut. levi-acido*, 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, 1*a, b*.
- **curvicosta**, Seguenza. Atti R. Acc. Lineei, [3], VI, 1880, 144, xiii, 31 and 31*a*.
- **curvisepa**, Seguenza. Atti R. Acc. Lineei, [3], VI, 1880, 142, xiii, 20, 20*a*.
- **curvispira**, Seguenza. Atti R. Acc. Lineei, [3], VI, 1880, 144, xiii, 28*a-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, 76*a, 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, 60*a, b*, 61*a, 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. Landesknnde, 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.
- **glauca**, Coppi. Boll. R. Com. geol. Ital. VII, 1876, 208, no fig.
- **glauca**, 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. goniphora*.
- **goniphora**, Neugeboren. Arch. Ver. siebenburg. Landesknnde, N. F. x, Heft 2, 1872, 289, iii, 19 and 20. [*goniaphora*, on plate.]
- **gottingsensis**, 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. Mier. Journ. xv, 1876, exxix, 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. Mier. Journ. xv, 1876, exxix, 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.
- **incrustata**, 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. I, 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. Mier. Journ. xv, 1876, exxviii, 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.
- **limbosa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. I, 1863 (1864), 55, vi, 69a, b.
- **limbosa**, 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.
- **lobata**, Jones, M. Mier. Journ. xv, 1876, exxviii, 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*.]
- **marginata**, = *Crist. cassis*; see *Nautili (Lenticulae marginatae)* [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.
- **nautiloides**, 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.
- **neglecta**, 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, Testae. 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. I, 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. I, 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, 10*a*, *b*.
 ————— Terquem, Cinq. Mém. Foram. Oolithique, 1883, 366, xli, 12*a*, *b*.
 ————— Terquem, Mém. Soc. géol. France, [3], iv, 1886, 46, v, 2*a*, *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, cix, 15.
 ————— **planciana**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 20.
 ————— = *Nonion. umbilicatulula* (Mont.) ; see *Lenticule*.
 ————— **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, 5*a*, *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, 3*a*, *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. Emul. Montbéliard, xvi, 1886 [35], ii, 17, 17*a*.
 ————— **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, 72*a*, *b*.
 ————— **pulchella**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 288, No. 8.
 ————— = *Crist. calcar* ; see *Nautili* (*Lenticule radiate*).
 ————— **pusilla**, Stache. Novara-Exped., Geol. Theil i, 1864, 247, xxiii, 26*a*, *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, 65*a*, *b*.
 ————— **radiata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 288, No. 7.
 ————— = *Crist. calcar*. ; see *Nautili* (*Lenticule radiate*).
 ————— **radiifera**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 643, ii, 76, 4*a*, *b* [76*aa*, *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.
 ————— **roseacea**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 289, No. 11. [v. *Cristellaria*.]
 ————— = *Crist.* ; see *Nautili laeves* (*Lenticule*).
 ————— **rosetta**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 642, i, 73*a*, *b*.
 ————— **rostrata**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 143, xiii, 24, 24*a*.
 ————— **rotunda**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 24.
 ————— = *Crist. calcar* ; see *Nautilus lenticula*.
 ————— **rugosa**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 290, No. 21.
 ————— = *Lituola* ; see *Lenticule*.

- ROBULINA seminuda**, Terquem. Cinq. Mém. Foram. Oolithique, 1883, 366, xli, 13*a*, *b*.
 ————— Terquem, Mém. Soc. géol. France, [3], iv, 1886, 47, v, 3*a*, *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 25*a*.
 ————— **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, 21*a*, *b*; (and Mém. Soc. Dunkerquoise).
 ————— Jones, M. Mier. Journ. xv, 1876, exxviii, 13. [= *Crist. rotulata*, Lam.]
 ————— **simplicissima**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 141, xiii, 18, 18*a*.
 ————— **sogamozae**, Karsten. Amtlicher Ber. 32 Vers. deutscher Nat. Aerzte, 1856, 1858, 114, vi, 5*a*, *b*; and Géol. Colomb. bolivarienne, 1886, 62, vi, 5*a*, *b*.
 ————— **soldanii**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 288, No. 5. [v. *Cristellaria*.]
 ————— = *Crist.*; see *Nautili globuli*.
 ————— **spirata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 23, i, 15*a*, *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, 64*a*, *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*.
 ————— **taettowata**, Stache. Novara-Exped., Geol. Theil I, 1864, 252, xxiii, 32*a*, *b*. [*taettovata* in explan. of plate.]
 ————— **tenuis**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 143, xiii, 26 and 26*a*.
 ————— **torosa**, Reuss. Sitz. k. Ak. Wiss. Wien, L, Abth. 1, 1864 (1865), 465, iii, 2*a*, *b*.
 ————— **trachyomphala**, Reuss. Haidinger's Naturw. Abh. 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, 17*A*, *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. Phisiq. 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.
- *concaua*, 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.
- *discoides* (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. Abh. 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, undeser. 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, Abh. 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 deser.,
 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,
 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, Prodrôme de Paléont. III, 1852, 194,
 No. 545. [*Turbinulina*, 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. *Globigera*.]
 ——— **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.]
 ——— **maorica**, 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. *Globigera*.]
 ——— ——— Reuss, in Geinitz, Grundr. Verstein. 1845-46, 676, xxiv,
 57.

- 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.]
- **mariaë**, Jones. In Prestwich, Quart. Journ. Geol. Soc. viii, 1852, 267, xvi, 13. [= *Planorbulina*.]
- **mediterrænensis**, 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. Phisiq. 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, Prodrôme 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. Phisiq. etc. Cuba, 1839, "Foraminifères," 99, iv, 25-27; also in Spanish, 1840, 105, same pl. and fig. ["*Rotalia beccarii*, d'Orb., 1825."]
- **patella**, Egger. Neues 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. [*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. Auomalina*.]
- ——— 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 *Hammonie trochi*.
- ——— = *Pulvin.*; see *Hammonie 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.
- **squamosa**, 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. **elatiior**, Stache. Novara-Exped., Geol. Theil I, 1864, 280, 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. Phisiq. 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. umbilicatala*.]
 ——— 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**, Frauzenau. 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. uvivolute*.
 ——— **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. arininensis*.]
 ——— **ammonoides**, Gümbel. Sitz. k.-bay. Ak. Wiss. 1870, 283. [= *Anomallina*.]
 ——— **ammonoides**. See *Ammon. concavo-umbilicata*.

- 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.
- **antillarum**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- **antiqua**, Ehrenberg. Mikrogeologie, 1854, xxxvii, xi, A-D, 11. [= *Endothyra*, near *boumani*.]
- **arenacea**, Carter. Ann. Mag. Nat. Hist. [5], vii, 1881, 363, xviii, 10.
- **areolata**, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1843, 167.
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- ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
- **articulata**, Dumikowski. 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. haingeri?*]
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- [**becarii**] ——— Brown, Illustr. Recent Conch. Gt. Brit., ed. 2, 1844, 1, i, 11.
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- ——— Mackie, Recreative Science, I, 1859, 145, fig. 7. [= *Discorbina globularis*.]
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- ——— *v. soldanii* (d'O.). Parker & Jones, Phil. Trans. 1865, 389, xvi, 31-33. [*Rosalina*, 1826.]

* [D'Orbigny was mistaken as to this species: *Streblus beccarii* and *Streblus 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.]

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- _____ Anon., Science Gossip, 1870, 11, fig. 26.
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- _____ Idem, 172, xii, 148. [v. *Rosalina soldanii*, d'O.]
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- _____ 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. 18o.
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- _____ **bimammata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. X, 1868 (1870), 649, ii, 85a-c. [v. *Pulvinulina*; and *Rotalina*.]
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- _____ 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.

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- [**boucana**] —— American Cyclopaedia, vii, (1883), 311, fig. 21.
= *Pulvinulina*, see *Hammonia*.
- **bractea**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 28.
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- **calembergensis**, d'Orb. Pictet, Traité de Paléont. 2 ed. iv, 1857, 508, cix, 28. [*v. Rotalina kalembergensis*.]
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- **capitata**, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 653, ii, 92a, b. [*v. Rotalina*.]
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- **centralis**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
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- **cochlea**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428, ii, vi, 42. [= *Pulv. cultrata*, ? d'O.]
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- *denaria*, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 375.
- *densa*, Ehrenberg. Mikrogeologie, 1854, xxix, 3a, b, c. [= *Planorb. globulosa* (Ehr.).]
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- *depressa*, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1841, 428.
- Ehr., Mikrogeologie, 1854, xxv, i, A, 48. [= *Planorb. arimiuensis*.]
- *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.]
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- *eoæna*, Gümbel. 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.
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 ——— (**Discorbe**) [**gervilei**] ——— Basset, Ann. Soc. Sci. Charente-Inf. 1884 (1885), 162, fig.
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 ——— 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. var. *i*; Bericht, 1844, 67; and Mikrogeologie, 1854, xxii, 78. [= *Globigerina*.]
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 ——— Ehr., Mikrogeologie, 1854, xxi, 90a, b. [= *Globig. bulboides*.]
 ——— 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-protoplepta**, 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*.]
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 ————— *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.
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 ————— 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.
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 ————— **helvetica**, Kübler & Zwingli. *Neujahrsblatt Bürgersbibl. Winterthur*, 1866, 18, iii, 8. [= *Planorbulina*.]
 ————— **hemprichii**, Ehr. *Mikrogeologie*, 1854, xxiv, 62. [= *Planorb. ammonoides*.]
 ————— **hemisphaeria**, 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*.]
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 ————— **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, xxiii, 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, Prodrôme 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**, Segnenza. 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, 1863, 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 east.]
 ——— **micROTIS**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
 ——— Ehrenberg, in Koldewey, 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'Archiac & 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 east.]
 ——— **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 *haidingeri*.]
 ——— **orbicularis**, d'Orb. Brady, Trans. Linnean Soc. xxiv, 1864, 470, xlvi, 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. [Glaucouite.] ["May be *Nonionina*," P. & J.]
 ——— **palæotetras**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 308 and 337, i, f. viii. [Glaucouite.] ["May be *Globigerina*," P. & J.]
 ——— **palæotrias**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 308 and 339, i, f. vii. [Glaucouite.] ["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. 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, evi, 9a, b, c.
- v. **compressiuscula**, Brady. Report Challenger, 1884, 708, evii, 1a, b, c; young, eviii, 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**, Staech. 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.
- **præincta**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 189, v, 7. [= *Truncatulina.*]
- **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. [= *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. globu-*
losa (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. *Truncatu-*
lina.]
 ——— 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. [= *Globigerine*.]
 ——— Ehr., Mikrogeologie, 1854, xxxvii, iv, 4. [= ? *Globi-*
gerina.]
 ——— **saxorum**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 272, No. 2. [v. *Rota-*
lina.]
 ——— **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 Ammonius 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. *Faujasi*, sp., Williamson, 1853.]
- Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 207, ix, 3.
- [*schroeteriana*] —— Carpenter, The Microscope, ed. 6, 1881, 575, fig. 330. [Structural.]
- Brady, Report Challenger, 1884, 707, exv, 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. hemispherica* 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, Impressathon, 15. [= a *Planorbulina*.]
- (Turbin.) *siennensis*, d'Orbigny. Ann. Sci. Nat. VII, 1826, 275, No. 50.
- (Turbin.) —— = *Planorb. ungeriana* (d'O.); see *Hammonie univolute*.
- *soldanii*, d'Orb. var. Stache, Novara-Exped., Geol. Theil I, 1864, 273, xxiv, 23a, b, c. [*Gyroïdina*, 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.
- Toulia, 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. [*Gyrodina 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, 20. ——— 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 Histologicae*, 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. [= *Planorbulina*.]
- 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 = ? *Globigerina*.]
- 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, *Nene Litt. u. Beytr.* III, 1786, iii, f. 22.
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- [———] Deshayes, *Coq. Foss. Paris*, 1824-1837, not deser., 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*.]
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- 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. Etrurio*, 1846, 104, i, 6.
- Mantell, *Wonders Geol.* 1848, 6th. ed., 303, fig. 51. [= *Rosalina*, q. v.]
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- 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. [Sarcode.]
 ? — 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.]
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 ? — Wright, Rept. Proc. Belfast Nat. F. C. App. iii, 1875, 87 [89], iii, 18.
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 — sp. ind. Hopkins, Execut. Doc., 45 Congress, Sess. 3, iv, Rpt. Chief Engineers, pt. 2, App. W, 1878–79, 885, i, 62 and 63.
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 — Carpenter, The Microscope, ed. 6, 1881, 573, fig. 328B. [Glauconic cast.]
 ? — cast ? 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 *Ammonsborn*.
 — 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, Impressathon, 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, Neues 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**, Gumb. 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** (Montagu). 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. Abh. 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. [*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.
 ———— **cristellaroides**, 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 & Zwiugli. 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).
- **girardana**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 73, v, 34.
- **granosa**, Reuss. Zeitschr. deutsch. geol. Ges. III, 1851, 75, v, 36.
- **guerini** (d'Orb.). Terq., Mém. Soc. géol. France, [3], II, 1882, 69, vi (xiv), 3a, b, c. [*Rotalia*, 1826.]
- **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. Pontaniana, 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).
 ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 75, vii (xv), 7a-c.
- ? ——— **heteroclitia**, 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).
- **increscens**, Kübler & Zwingli. Neujahrsblatt Bürgersbibl. Winterthur, 1866, 15, iii, 3. [= *Planorbulina ammonoides*.]
- **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.]
 ——— Williamson, Pop. Sci. Rev. IV, 1865, 174, viii, 8.
- **inflata**, Terquem. Ess. Anim. Plage Dunkerque, pt. 1, 1875, 27, iii, 4a, b; (and Mém. Soc. Dunkerquoise).
 ——— Hertwig, Jenaische Zeitschr. für Naturwiss. XI, 1877, 344, xx, 9 and 10. [Structural.]
 ——— Terquem, Ess. Anim. Plage Dunkerque, pt. 3, 1881, 119, xiv, 2a, b, c; (and Mém. Soc. Dunkerquoise).
- **infundibulum**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 237, xiv, 9A, B, C.

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- **liasina**, Terq. et Berth. Mém. Soc. géol. France, [2], x, 1875, 59, v (xv), 5a-c.
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- **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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- **marginata**, Cornuel. Mém. Soc. géol. France, [2], III, 1848, 257, ii, 17-19.
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- **nitida**, Reuss. Geogn. Skizze Böhmen, II, 1844, pt. 1, 214. [v. *Placentalia*.]
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- **nitida**, Williamson. Recent British Foram. 1858, 54, iv, 106-108.
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- **oblonga**, Williamson. Recent British Foram. 1858, 51, iv, 98-100. [v. *Pulvinulina* ; = *Pulvin. auricula*.]
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- **planorbiformis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 121, xiv, 6a, b, c ; (and Mém. Soc. Dunkerquoise).
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- **schreibersii**, d'Orbigny. Foram. Fossiles Vienne, 1846, 154, viii, 4-6. [v. *Pulvinulina*.]
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 ——— **subæquilateralis**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 121, xiv, 5a, b; (and Mém. Soc. Dunkerquoise).
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 ? ——— **turgida**, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 308.
 ——— **turgida**, Williamson. Recent British Foram. 1858, 50, iv, 95-97. [v. *Nonionina*.]
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- ? ——— (*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. [= ? *Miliolina*; 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 *Astrorhiza*.
- SAGRANA**. 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.
- [**SAGRANA**] **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.
- [**SAGRANA**] **aspera**, Marsson. Mitth. Nat. Ver. Neu-Vorpommern u. Rügen, Jahrg. x, 1878, 157, iii, 26a-d.
 ——— **bifrons**, Brady. Quart. Journ. Micros. Sci. XXI, 1881, 64.
 ——— Brady, Report Challenger, 1884, 582, lxxv, 18-20.
 ——— **clavata**, Franzenan. Math. termész. értesítő, VII, 1889, 260, v, 3.
 ——— **columellaris**, Brady. Quart. Journ. Mier. 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. Mier. Sci. XIX, 1879, 276, viii, 22-24. [v. *Nubecularia*.]
 ——— **limbata**, Brady. Report Challenger, 1884, 586, cxiii, 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.
- [**SAGRANA**] ——— 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.
- [**SAGRANA**] ——— Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 92, xxix¹, 24.
 ——— Boudant, Géologie, ed. 8, 1858, 117, fig. 96; later eds., same fig.
- [**SAGRANA**] **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. Mier. Sci. XIX, 1879, 275, viii, 19-21.

* Phil. Trans. 1865, 364.

- SAGRINA** *virgula*, Brady. Report Challenger, 1884, 583, lxxvi, 4-10.
 ——— See *Uvigerina*.
- 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. Gypsmodell. Foram.* [1861], No. 80.
 ——— *capreolus* (d'Orb.). Schlumberger, *Fenille Jenn. 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, *Kohlenflözte, etc. ungar. Krone*, 1878 (trans. from Magyar), 228, fig. 44.
 ——— *neugeborni*, 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**, Mmier-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. *Neues 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, *Richthofen'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. Monuments 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 oblecta, 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 *Kanmacher'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 William-son). [v. *Rotalina*; *Pulvinulina*; *P. repanda*, var.; and *Discorbina*.]
 ————— filum, Schmid. *Neues Jahrbuch*, 1867, 583, vi, 48. [v. *Ammodiscus*; *Trochammina*.]
 ————— lactea, Walker & Jacob. In *Kanmacher'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 *Kanmacher'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 *Tritocolina*.]
- (**Lagena**) **perlucida** [Montagu]. Turton, Conch. Dict. 1819, 157, vii, 23. [*Vermiculum*, 1803.]
- **pusilla**, Geinitz. Verstein. deutsch. Zechsteingebirges n. Rothliegenden, Heft I, 1848, 6, iii, 3, 4, 5, 6. [v. also *Trochammina*; *Spirulina*.]
- ? ——— ——— 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, 1. [= *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. [= *Spheroidina*.]
- **haueri**, Czjzek. Haidinger's Nat. Abh. II, 1848, 149, xiii, 35-38.
- ——— Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 249, xxxv³, 8a, b, c.
- Sextularia**, Leidy, 1884. Misprint for *Textularia*.
- Spheroidina**, Schwager, 1866. Misprint for *Spheroidina*.
- SHEPHEARDELLA**, Siddall, 1880. Q. Journ. Micros. Sci. xx, 1880, 131. [One of the *Gromidae*.]
- **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*, Gumb.]
- ——— D'Orbigny, Ann. Sci. Nat. VII, 1826, 297, No. 1.
- ——— [d'Orb.]. Guérin-Ménéville's Cuvier, Iconographie, Mollusques, 1829-33, 9, ii, 8.

- SIDEROLINA calcitrapoides** [d'Orb.]. Cuvier, Animal Kingdom, Hender-
son'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, "Petrifacata," 1755-1773, III, supp., figs. 9-16.
 ———— **cruscula**, Harting. Verh. Kl. Koninkl.-Nederland. Inst. [3], iv, 1852,
115, ii, 7a, b, c. [= ?]
 ———— **defrancii**, Deshayes. Eney. Méth. "Vers," 1832, 948.
 ? ———— **indica**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1845, 376.
 ———— **kochi**, Hautken. 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. *Cal-*
carina.]
 ———— 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 *Lenticule*.
 "Siderolina-ähnliche formen." Gümbel, Jahresh. Ver. vat. Nat. Württ.
xviii, 1862, 235, iv, 19. [= Sponge spicule.]
SIDEROLITES, Lamarek, 1801. Syst. Anim. s. Vert. 1801, 376.
 ———— **calcitrapoides**, Lamarek. Syst. Anim. s. Vert. 1801, 376. [v. *Sidero-*
lina; and *Calcarina*.]
 ———— [**calcitrapoide**], Lamarek. Faujas de St. Fond,* Hist. Nat. Mont St.
Pierre Maestricht, 1799, 188, xxxiv, 5-12.
 ———— [**calcitrapes**] ———— Montfort, Conch. Syst. I, 1808, 151, 38th genre.
 ———— Lamarek, Eney. 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. Lamarek, 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. Bronn, 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, Bronn. Lethaea Geognostica, ed. 2, 1837,
712, xxxiii, 17a, b, c.
 ———— Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 83, xxxiii,
17a-c.
SIDEROPORUS calcitrapa (Lam.). Bronn, Syst. urweltl. Pflanzenthier, 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 sigmoïdea*; *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 Lamarek, 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.
 ——— *nummulitinus*, 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.]
 ——— *ocræa*, 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 Lineei, 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.
 ——— = *Cornusp. foliacea* (?) (Phil.); see *Hammonie 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. 135J. [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. exponens* (Sow.); see *Porpita 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], 6A, 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. Micr. Sci. XIX, 1879, 28; Brady, Report Challenger, 1884, 251.
- **confusa**, Brady. Q. Journ. Micr. 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 *Spheroidina*?
- 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. Diet. ed. 4, 1883, 704, xxiv, 4.
 ——— Queenstedt, 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.
 ———— Pictet, Traité de Paléont. 2d ed. IV, 1857, 525, eix, 46.
 ———— Reuss, Sitz. k. Ak. Wiss. Wien, XLVIII, Abth. 1, 1863 (1864), 58, vii, 86a, b.
 ———— Parker, Trans. Mier. 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 *Syringosphæridæ* 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 *Globigerine*.]
- SPIDESTOMELLA**, Costa, 1856. Atti Accad. Pontaniana, VII, fas. 2, 1856, not described. [= ? *Miliolina*.]
 ———— **globulifera**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, not descr., xxvii, 27.
- SPINCTERULES costatus**, Montfort. Conch. Syst. I, 1808, 223, 56th genre. [= *Crist. costata*.]
- SPIRALINA**, Gümbel, 1862. See *Spirolina*.
- Spiriline Cornuspiræ**. Chimmio, Bed of Atlantic [1870], 16, i, 4². [A gasteropod.]
- 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. Neujaarsblatt 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. Diet., 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.
- **trochoides**, 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. [= *Trochammuna*.]
- [? ——] Chimmo, *Nat. Hist. Euplectella, etc.* 1878, 21, vi, 19a, b, c, d. [Described as a Polyceyistine.]
- ? —— 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. [Glauconite.]
- SPIROCYCLINA**, Munier-Chalmas, 1887. *Compte-Rendu Sommaire Soc. géol. France*, No. 7, 21 Fév. 1887, p. xxxi.
- **choffati**, Mun.-Ch. *Ibid.*, no fig. ["Conches infra-valenginiennes 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*.]
- ———— Pictet, *Traite de Paléont.*, 2d ed., iv, 1857, 506, eix, 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**, Deecke. *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.
- **cylindracea**, Lamarek. *Parkinson, Organ. Rem. former World*, iii, 1811, 162, xi, 9, and 10 var. ? [*Spirolinites*, 1804.]
- Lamarek, *Ency. Method.*, "Vers," iii (1832), 972 (pls. 1827), 466, f. 2 (P. & J. quote "pt. 23," 1816).
- Lamarek, *Ency. Method.*, "Vers," iii (1832), 972 (pls. 1827), 465, f. 7 (P. & J. quote "pt. 23," 1816). [= *Peneroplis*.]
- var. Lamarek, *Ency. Method.*, "Vers," iii (1832), 972 (pls. 1827), 466, f. 3 (P. & J. quote "pt. 23," 1816). [= *Peneroplis*.]
- Bronn, *Syst. urweltl. Conchylien*, 1824, 9, i, 15a-c.
- Blainville, *Malacologie*, 1825, v, 1. [= *Peneroplis*.]
- König, *Icones fossilium sectiles*, [1825], n. d., x, 125.
- D'Orbigny, *Ann. Sci. Nat.* vii, 1826, 286, No. 1.
- D'Orbigny, *Modèles*, No. 24, 1826.
- (et **Spirolinites**) ———— Defrance, *Dict. Sci. Nat.* L, 1827, 298; *Atlas, Conch.* xiii, 1. [= *Peneroplis*.]
- [**cylindrica**] ———— Bronn, *Lethaea Geognostica*, ed. 2, 1837, 1135, xlii, 24a, b.
- Reuss, in Geinitz, *Grundr. Verstein.* 1845-46, 659, xxiv, 37.
- Mantell, *Pictorial Atlas Foss. Rem.* 1850, 143, lxii, 9.
- P., J., & B. [d'O., *Modèles*, No. 24], *Ann. Mag. Nat. Hist.* [3], xvi, 1865, 22, i, 19.
- Terq., *Mém. Soc. géol. France*, [3], ii, 1882, 52, iii (xi), 4a, b, 5.
- Basset, *Ann. Soc. Sci. Charente-Inf.* 1884 (1885), 163, fig.
- depressa**, Lamarek. *Parkinson, Organ. Rem. former World*, iii, 1811, 162, xi, 8. [*Spirolinites*, 1804.]
- Blainville, *Malacologie*, 1825, v, 2. [= *Peneroplis*.]
- (et **Spirolinites**) ———— Defrance, *Dict. Sci. Nat.* L, 1827, 298; *Atlas, Conch.* xiii, 2. [= *Peneroplis*.]
- Mantell, *Pictorial Atlas Foss. Rem.* 1850, 143, lxii, 8.
- Terquem, *Mém. Soc. géol. France*, [3], ii, 1882, 53, iii (xi), 10a, b.
- grandis**, Reuss. *Denkschr. k. Ak. Wiss. Wien*, vii, Abth. 1, 1854, 69, xxv, 14.
- (**Dendritina**) (ef.) **haueri**, d'O. Schwager, *Palaeontographica*, xxx, 1883, Pl. Theil, 91, xxiv (i), 11a-c. [*Dendritina*, 1846.]
- hemprichii** (Ehr.). P., J., & B., *Ann. Mag. Nat. Hist.* [3], xv, 1865, 230. [*v. Coscinospira*.]
- See *Nautilus (Lituus) arietinus*, Batsch.
- humboldti**, Reuss. *Zeitschr. deutsch. geol. Ges.* iii, 1851, 65, iii, 17 and 18. [*v. Haplophragmium*.]
- inæqualis**, Roem. Reuss, *Verstein. böhm. Kreide*, 1845-46, i, 35; viii, 62-66, and 75; in Part ii, 109, corrected to *Spirolina irregularis*. [*v. S. irregularis*.]
- inflata**, Reuss. Haidinger's *Naturw. Abh.* iv, Abth. 1, 1851, 32, ii, 5 and 6.
- irregularis**, Roemer. *Verst. norddeutsch. Kreide*, 1840-41, 98, xv, 29. [*v. S. inæqualis*; *Spirulina*; *Lituolina*; *Haplophragmium*.]
- juleana** (d'Orb.). Schwager, *Boll. R. Com. geol. Ital.* viii, 1877, 27, pl., 109. [*Dendritina*, 1846.]
- laevigata**, d'Orbigny. *Ann. Sci. Nat.* vii, 1826, 287, No. 4.
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- **stenostoma**, Deshayes. In Lyell, Principles of Geology, iii, 1833, 251, iv, 15-18.
- ——— Brown, Elem. Foss. Conch. 1843, 25, ii, 33 and 35.
- [**SPIRALINA**] **streitbergensis**, Gümbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 232, iv, 7a, b.
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- SPIROLINITES**, Lamarek, 1804. Ann. Mus. v, 1804, 245.
- **complanata**, Lamarek. Cuvier, Animal Kingdom, Henderson's ed. iii, 1834 (pls. 1837), 18, viii, 8. [This fig. is the *Spirolina depressa*, Lam. fig'd by DeFrance, q. v.]
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- ——— var. Lamarek, Ann. Mus. v, 1804, 245, No. 2; and fig. 16a, b, pl. 62, in vol. viii, 1806. [= *Clavulina*?]
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- ——— Lamarek, Coq. Foss. Paris, 1823, 14, xiv, 14.
- **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.]
- **omninorecta**, Lamarek, MS. Vélins du Muséum Paris, No. 22, fig. 27.
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- SPIROLOCULINA**, d'Orbigny, 1826. Ann. Sci. Nat. VII, 1826, 298; Brady, Report Challenger, 1884, 147.
 ——— **acutimargo**, Brady. Report Challenger, 1884, 154, x, 12-15.
 ——— ——— Balkwill & Wright, Trans. R. Irish Ac. XXVIII (Sci.), 1885, 323, fig. 1a, b, c.
 ——— **affixa**, Terquem. Mém. Soc. géol. France, [3], I, 1878, 55, v (x), 13a-c.
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 ——— **alata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 158, xvi (xxiv), 17 and 18.
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 ——— [**badensis**] ——— Hoernes, Elem. Palaeont. 1884, 34, fig. 30; French ed. 1886, same fig.
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 ————— **crenata**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 135, i, 9.
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- **elongata**, Neugeboren. *Verh. Mitth. siebenburg. Ver. Nat. Jahrg.* xx, 1869, 26, no fig.
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- **galeata**, Ehr. *Bericht k. preuss. Ak. Wiss. Berlin*, 1844, 96.
- **grata**, Terquem. *Mém. Soc. géol. France*, [3], I, 1878, 55, v (x), 14a-15b.
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- **ornata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 159, xvi (xxiv), 23a, b.
- **ovalis**, Roemer. Neues Jahrbuch, 1838, 392, iii, 68.
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 ————— **speciosa**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 135, i, 8.
 ————— **striata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 298, No. 10.
 ————— **striata**, Fischer. Fond de la Mer, I (1870), 253 not fig'd.
 ————— **striata**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 160, xvi (xxiv), 26*a-c*.
 ————— **striatella**, Reuss. Denkschr. k. Ak. Wiss. Wien, XXIII, 1864, 7, i, 8.
 ————— **subangulosa**, Terquem. Mém. Soc. géol. France, [3], II, 1882, 159, xvi (xxiv), 22*a, b*.
 ————— **tateana**, Howchin. Trans. R. Soc. S. Austr. XII, 1889, 3, i, 4 and 5.

- SPIROLOCULINA tenera**, Ehrenberg. Mikrogeologie, 1854, xx, ii, 6. [= *Miliola*, young.]
- **tenuirostra**, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 358, ii, 5.
- **tenuis** (Czjz.). Brady, Report Challenger, 1884, 152, x, 7-11. [*Quinqueloculina*, 1848.]
- **tenuiseptata**, Brady. Report Challenger, 1884, 153, x, 5 and 6.
- **tenuissima**, Reuss. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 71, i, 11a, b.
- **transsylvanica**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. xx, 1869, 27, no fig.
- **tricarinata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 298, No. 5.
- ———— Terq., Mém. Soc. géol. France, [3], II, 1882, 158, xvi (xxiv), 19-21.
- **trigonostoma**, Neugeboren. Verh. Mitth. siebenburg. Ver. Nat. xx, 1869, 27, no fig.
- **tuba**, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 96.
- ———— Ehr., Monatsbericht k. preuss. Ak. Wiss. Berlin, 1858, 29.
- **vermiformis**, Terquem. Quatr. Mém. Foram. Oolithique, 1874, 325, xxxv, 8.
- **vulgaris**, Ehr. Abhandl. k. Ak. Wiss. Berlin, 1841, 429.
- **webbiana**, Reeve. Conch. system. II, 1842, 290, cexevii, 5. [*Triloc. webbiana*, d'O.; = *Triloc.*]
- **Soldani**, Testac. vol. I, pt. 1, 1789, pl. 61I, K, L, M; and App. 1798, pl. 9, 52I, T, V = this genus.
- ? ———— Deshayes, Descr. Coq. Foss. Paris, 1824-1837, numerous figures [pls. c-evi], of which descriptions or names were never published.
- [———] Costa, Fauna Regno Napoli, 1838, Foraminifera, not descr., ii, 2.
- Pilla, Distinz. terr. Etrurio, 1846, 104, i, 12.
- Pietet, Traité de Paléont. iv, 1846, 242, xii, 30.
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1847, 443, i, 95. [= young *Miliola* ?]
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1847, 457, vi, i, 82, 83. [= young *Cornuspira* ? or *Miliola* ?]
- Williamson, Mem. Lit. Phil. Soc. Manchester, [2], VIII, 1848, 46, pl., 36 and 37.
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 169, iv, xvii. [= *Quinqueloculina*.] [Glauc.]
- Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 170, iv, xxii. [Glauc.]
- Parker, Trans. Micr. Soc. London, n. s., VI, 1858, 56, pl. v, and figs.
- Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 69, viii, 7. [Sarcod.]
- Carpenter, Parker, & Jones, Introd. Foram. 1862, 75 and 77, vi, I and 2. [1 = *S. excavata*, d'O.; 2 = *S. canaliculata*, d'O.]
- Wallich, North Atlantic Sea-bed, pt. 1, 1862, no descr., v, 16. [Young.]
- v. Schlicht, Foram. Septar. Pietzpuhl, 1870, plate xxxvii.
- Chimmio, Bed of Atlantic [1870], 28, x, 2 and 3.
- Terq. et Berth., Mém. Soc. géol. France, [2], x, 1875, 73, vi (xvi), 5-8.
- ind., Hantken, A magy. kir. földt. int. évkönyve, IV, 1875 (1876), 17, xiii, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, IV, 1875 (1881), 20, same pl. and fig.
- Terquem, Bull. Soc. géol. France, [3], IV, 1876, 508, xiii, 1a-c; 2a-c.
- Carpenter, Ency. Brit. 9th ed. IX, 1879, Foraminifera, 374, i, 2.
- Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 189, iv, 16.
- sp., Steinmann, Neues Jahrbuch, 1881, 38, etc. ii, 8.
- (from Carpenter's "Introduction"). Schumberger, F. Jenn. Nat., Feb. 1882, ii, 4.
- Carpenter, Journ. Quekett Microsc. Club, [2], II, 1885, 95, fig. 7. [Structural.]
- ? ———— Wisniosk, Jahrb. k. k. geol. Reichs. xxxviii (1889), 693, xiii, 61.
- see under *Miliola*.

- Spirolocunina*, Stohr, 1877. Misprint for *Spiroloculina*.
- SPIROPLECTA**, Ehrenberg, 1844. Bericht k. preuss. Ak. Wiss. Berlin, 1844, 75; Brady, Report Challenger, 1884, 375.
- *abyssorum*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 293.
- *americana*, Ehrenberg. Mikrogeologie, 1854, xxxii, ii, 35. [*Heterohelix*, 1843.] [= *Text. gibbosa*.]
- ——— 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.
- ——— Brady, Report Challenger, 1884, 376, xlv, 24a, b.
- ——— Woodward & Thomas, 13 Ann. Rept. Geol. N. H. Survey Minnesota, for 1884 (1885), 168, iii, 9.
- *annectens* (Park. & Jones). Brady, Report Challenger, 1884, 376, xlv, 22, 23a, b. [*Textularia*, 1863.]
- *biformis* (Park. & Jones). Brady, Report Challenger, 1884, 376, xlv, 25-27. [*Textularia agglutinans*, v. *biformis*, 1865.]
- ——— Balkwill & Wright, Trans. R. Irish Ac. xxviii (Sci.), 1885, 333, xiii, 21, fig. 2.
- *capensis*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 294.
- *demersa*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 294.
- ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), vii, 26.
- *nana*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1861, 309.
- ——— Ehrenberg, Abh. k. Ak. Wiss. Berlin, 1872 (1873), v, 17.
- *prælonga* (Reuss). Wright, Proc. Belfast Nat. Field Club, 1884-85, App. ix, 1886, 329, xxvii, 3. [*Textularia*, 1845.]
- ? —— *propendissima*, Ehr. Monatsbericht k. preuss. Ak. Wiss. Berlin, 1872, 294.
- *rosula*, Ehr. Mikrogeologie, 1854, xxxii, ii, 36. [Stands; = *Text. biformis*, P. & J., when sandy, *T. complexa*, H. B. B., when clear; see Parker & Jones, Ann. Mag. Nat. Hist. x, 1872, 198.]
- ? —— Ehrenberg, Abhandl. k. Ak. Wiss. Berlin, 1855, 169, iv, xiii. [= *Spiroplecta*.] [Glauc.]
- Bronn, Klassen Ordn. Thier-Reichs, I, 1859, 69, viii, 3. [Sarcode.]
- SPIROPLEURITES** *nebulosus*, Ehrenberg. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 248.
- ——— Mikrogeologie, 1854, xxxv, B, iv, 7. [= *Pulvin. repanda*.]
- *platystomus*, Ehr. Bericht k. preuss. Ak. Wiss. Berlin, 1854, 248.
- SPIROSPHÆRINA**, Deshayes, 1830. See *Globulina*, Deshayes.
- SPIROSTEGINA**, Zborzewski. Bull. Soc. Imp. Nat. Moscou, xvi, 1843, 363, fig. f. [= ? Chara.]
- SPIRULA** *cylindracea*, Lam. Defrance, Dict. Sci. Nat. xxxii, 1824, 190. [*Spirolinites*, 1804.]
- ——— Blainville, Mannel Malac. et Conch. 1825 (pls. 1827), 382, v, 1.
- SPIRULINA** *cylindracea* (Lam.). Bronn, Lethaea Geognostica, ed. 3, III, 1853-56, 223, xlii, 24a, b. [*Spirolinites*, 1804.]
- *irregularis* (Roem.). Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 86, xxix¹, 13; xlii, 24. [*Spirolina*, 1840.]
- *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.
- [**SQUAMMULINA**] ——— Carpenter, Parker, & Jones, Introd. Foram. 1862, 67, i, 22. [= ? young *Nubecularia*.]

- [**SQUAMMULINA**] *lævis*, Schultze. Bütschli, in Bronn, Klassen, etc. Thier-Reichs, 1880, 188, iv, 7.
- [**SQUAMMULINA**] *scopula*, Carter. Ann. Mag. Nat. Hist. [4], v, 1870, 310, iv, 1-11.
- Referred to *Gastrophysema* by Haeckel, Jenaische Zeitschr. Nat. xi, 1877, 1, etc.
- [**SQUAMMULINA**] *varians*, Carter. Ann. Mag. Nat. Hist. [4], v, 1870, 321, v, 1-5.
- see *Haliphysema*.
- STACHEIA**, Brady, 1876. Carbonif. Foram., Pal. Soc. xxx, 1876, 107.
- *acervalis*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 116, ix, 6-8. [*Webbina*, 1873.]
- *congesta*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 110 and 117, ix, 1-5.
- *fusiformis*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 114, viii, 12-16.
- *grewincki*, v. Moeller. Jahrb. k. k. geol. Reichsanstalt, xxx, 1880, 584, x, 1-5.
- Moeller, Verh. russ. k. min. Ges. [2], xvi, 1881, 197, x, 1-5.
- *marginulinoides*, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 112, vii, 16-21; and 106, vii, 22 and 23.
- [*marginuloides*] ———— Roemer, Lethaea Geognostica, Th. I, Lief. 1, 1880, 269, fig. 43.
- *moriformis*, Howchin. Journ. R. Microsc. Soc. 1888, 543, ix, 19, 20.
- *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.
- Moeller, Mém. Ac. Imp. Sci. St. Pétersbourg, [7], xxvii, No. 5, 1879, 78, ii, 6.
- Schwager, Boll. R. Com. geol. Ital. viii, 1877, 26, pl., 94.
- Stellæ fissæ**. Knorr, Recueil des Monuments, iii, Suppl., 1775, 158, vi*, 9-16. [= *Siderolites*.]
- 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. Palacont. 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 Hallstädter beds, having priority.]
- *granulata*, Duncan. Sci. Results II. Yarkand Mission, "Karakoram Stones," 1879, 16, ii, 5; iii, 5-7.
- 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.
- STORILUS radiatus**, Montfort. Conch. syst. i, 1808, 131, 33d genre. [= *Rotalia*?]
- "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*.]
- *beccarii* (Linné). Fischer, Adversaria Zoologica, fas. II, 1819, 75. [*Nautilus*, 1758.]

- 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.?**) **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 *Bulin. 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;" = *Virgulina 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.?**) **leptoderma**, Ehr. Mikrogeologie, 1854, xxiv, 28 and 30. [= *Virg. hemprichii*.]

- STROPHOCONUS** ovum, Ehr. Mikrogeologie, 1854, xxiv, 29; xxvi, 21; and xxix, 32. [= *Virg. henrichii*.]
 ———— 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. henrichii*.]
 ———— ———— Ehr., Mikrogeologie, 1854, xxxi, 33 and 34. [= *Virg. schreibersii*.]
 ———— ———— Ehr., Mikrogeologie, 1854, xxxii, ii, 21. [= *Virg. schreibersii*, approaching *Bulin. 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. henrichii*.]
 ? ———— (Grammost. ?) teretiusculus, Ehr. Mikrogeologie, 1854, xxiv, 26. [= *Virg. schreibersii*.]
 ———— ———— Ehr., Mikrogeologie, 1854, xxvi, 25. [= *Virg. schreibersii*.]
 ? ———— (Grammost. ?) ———— Ehr., Mikrogeologie, 1854, xxiii, 24. [= probably *Bolin. 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. [*Spheronites* 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.
 ———— ———— Brady, Report Challenger, 1884, 246, xxv, 8-12.

- 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. *Ammodiscus* [*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. palæotrochus*”] = *Valvulina*, 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, Deser. Anim. 1775. [= *Nummulites*.]
- Testæ hammoniformes, plano-cochleatæ, tuberosæ, articulatæ, 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 ovaes, 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. Diet. 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 east.]
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. Win-
terthur, 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, 6*a*, *b*.
- _____ _____ Malagoli, Boll. Soc. geol. Ital. VI, 1887, 520, xiii, 2.
- _____ _____ Anon., Sci. News, 4 May, 1888, 413, fig. 10.
- _____ _____ Toutkowsky, Zap. Kievsk. Obslch. Est. IX, 1888, 9, ix, 3*a-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, 4*a*.
- _____ * *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, 4*a*, 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, 2*a*, *b*.
- _____ _____ Eley, Geol. in the Garden, 1859, 202, ix, 15*C*.
- _____ _____ 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, 24*a*, *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, xliv, 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, XI, 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, Ertek. Termesz. köreböl, XIII, No. 1, 1883, 29, i, Sa, 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. [*Spheroidina*, d'Orb.; = *Spheroidina*.]
 ———* **canaliculata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 147, xv (xxiii), 17a, b.
 ——— **candeiana**, d'Orbigny. De la Sagra, Hist. Phisiq. 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. Phisiq. 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. *Plecanium*.]
 ——— ——— 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. [*Plectanium*, 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; cxiii, 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, cxiii, 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 typica."
- v. **conica**, d'Orb. Williamson, Recent British Foram. 1858, 75, vi, 160 and 161. [v. *T. conica*.]

- TEXTULARIA cuneiformis**, d'Orbigny. Cooke, Thousand Objects Microsc. 1869, 93, ix, 24.
- 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.
- Jones, in King, Pal. Soc. 1850, 18, vi, 6.
- Richter, Zeitschr. deutsch. geol. Ges. vii, 1855, 532, xxvi, 23.
- Geinitz, Dyas, Heft 1, 1861, 122, xx, 34 and 35.
- Jones, in Microgr. Dict. ed. 4, 1883, 763, xxiii, 47a, b.
- **deltoidea**, Reuss. Denkschr. k. Ak. Wiss. Wien, 1, 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.
- Mackie, Recreative Science, 1, 1859, 148, fig. 27.
- * ————— Schlumberger, Feuille Jeun. 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. 48³; German by Dr. A. Schwartzkopf, 1851, 87, fig. 39, 4. [*Textularia*.]
- * **dumortieri**, Schwager. Benecke's Geogn. Pal. Beiträge, 1, 1866, 309, fig. 14.
- **echinata**, d'Orbigny. Ann. Sci. Nat. vii, 1826, 263, No. ?
- = *Bulim. 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**, Cornuel. 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**, Hautken. 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. 119³.
[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, 1, 1860, 355, xxii, 19a-d.
- Brady, Carbonif. Foram., Pal. Soc. xxx, 1876, 132, x, 27-29.
- * **falcata**, Ehr. Mikrogeologie, 1854, xxxvii, xi, A-D, 14. [Edge view of *T. recurcata*, 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.
- folium*, Park. & Jones. Phil. Trans. 1865, 370, xviii, 19.
- Möbius, Beitr. Meeresfauna Insel Mauritius, etc. 1880, 92, viii, 16 and 17.
- Brady, Report Challenger, 1884, 357, xlii, 1-5.
- * *franconica*, Gümbel. Jahresh. Ver. vat. Nat. Württ. xviii, 1862, 229, iv, 18a, b.
- fungiformis*, Fornasini. Boll. Soc. geol. Ital. vi, 1887, 387, x, 1a, b.
- geinitzi*, Richter. In Geinitz, Dyas, etc. Heft 1, 1861, 123, xx, 39.
- gibbosa*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 262, No. 6.
- D'Orbigny, Modèles, No. 28, 1826. [v. *Plecanium*.]
- P., J., & B. [d'O., Modèles, No. 28], Ann. Mag. Nat. Hist. [3], xvi, 1865, 23, ii, 60.
- J., P., & B., Crag Foram., Pal. Soc. xix, 1866, n. d., iii, 10-13.
- P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], viii, 1871, 167, xi, 115. [See *T. obtusa*, d'O.]
- Idem, 167, xi, 116. [See *T. levigata*, d'O.]
- Idem, 167, xi, 117. [See *T. punctulata*, d'O.]
- Idem, 168, xi, 118.
- Idem, 169, xi, 119. [See *T. tuberosa*, d'O.]
- Idem, 169, xi, 120. [See *T. caudata*, d'O.]
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- _____ * (*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, 17*a*, *b* ; xxx, 3*a*, *b* ; xxxii, i, 8 ; xxxii, ii, 12 and 13. [= *T. gibbosa*, d'O.]
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- _____ * 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.]
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 d'O.]
 _____* _____ Ehr., Mikrogeologie, 1854, xxv, i, A, 10. [= *T. globu-*
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- *lævis*, Roemer. Verst. norddeutsche Kreide, 1840-41, 97, xv, 17.
- * *lagenosa*, Ehr. Mikrogeologie, 1854, xxxvii, xi, A-D, 15. [Same as *Grammost. bursigerum*.]
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- * *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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- *nussdorfensis*, d'Orbigny. Foram. Fossiles Vienne, 1846, 243, xiv, 17-19.

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- **oviformis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 262, No. 8.
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- * **poroconus**, Ehr. Mikrogeologie, 1854, xxxii, i, 6. [= *T. gibbosa*.]
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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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 ————— v. *conica*, Goës. K. Svenska Vet.-Akad. Handl. XIX, No. 4, 1882, 83, vi, 181 and 182. [v. *T. conica*.]
 —————* *pusilla*, Schwager. Jahresh. Ver. vat. Nat. Württ. XXI, 1865, 139, vii, 14. [In descript. of plates, called *exigua*.]
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 —————* *rhodiensis*, Terq. Mém. Soc. géol. France, [3], I, 1878, 35, iii (viii), 10a and b.

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 ——— ——— 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.
 ——— **cassii**, Terquem. Mém. Soc. géol. France, [3], I, 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. Déscrip. 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], I, 1878, 60, v (x), 31a, b.

- TRILOCULINA crassa**, Nicolucci. Nuovi Ann. Sci. Nat. Bologna, [2], vi, 1846, 207.
- **cretacea**, d'Orb., 1847. D'Orbigny, Prodrôme 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**, Karrer. 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.
- [**difformis**] ———— 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**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 139, ii, 1.
- **divarricata**, Franzenan. 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 Jenn. 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 Jenn. 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.
- Toulou, 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. Miller, 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 *Fruentaria 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. Phisq. 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. Phisq. 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 *Fruentarium 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.]
- *maurinii*, 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.]
- *moguntiaca*, Reuss. Neues Jahrbuch, 1853, 672, ix, 5a-c.
- *nitens*, Reuss. Denkschr. k. Ak. Wiss. Wien, I, 1850, 382, xlix, 10.
- *nitida*, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 141, iii, 22-24.
- ——— Maekie, Science Gossip, 1867, 131, fig. 134.
- *nodosaroides*, Karrer. Sitz. k. Ak. Wiss. Wien, LV, Abth. 1, 1867, 360, ii, 9.
- *nodulus*, Eichwald. Lethaea Rossica, III, 1853, 12, i, 14a-d.
- *oblonga* (Montagu). D'Orbigny, Ann. Sci. Nat. VII, 1826, 300, No. 16. [*Verniculum*, 1803.]
- ——— D'Orbigny, Modèles, 1826, No. 95.
- [Lam.]. Bronn, Lethaea 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, Lethaea 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** (Montagn). 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.
- Andreea, Abh. geol. Spezialkarte Elsass-Lothr. II, IIeft 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. *Milolina* and *Quinqueloculina*.]
- = *Quinqueloc.*; see *Fruentaria reticulata*.
- **retortioris**, Nemes. Orvos 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. Haarlem, [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.]
- **striatella**, Seguenza. *Atti R. Acc. Lincei*, [3], vi, 1880, 153, xiv, 13a, b [error for 12].
- **striatella**, Karrer. *Sitz. k. Ak. Wiss. Wien*, LVIII, Abth. 1, 1868, 140, ii, 2.
- **strigilla**, d'Orbigny. *Ann. Sci. Nat.* VII, 1826, 300, No. 13.
- [**strigillata**] ——— Terq., *Mém. Soc. géol. France*, [3], II, 1882, 169, xvii (xxv), 25a-e.
- **subæquilateralis**, Terquem. *Mém. Soc. géol. France*, [3], i, 1878, 59, v (x), 27a, b.
- **subangusta**, d'Orb., 1847. D'Orbigny, *Prodrome de Paléont.* III, 1852, 162, No. 3031. [= "*T. angusta*, Phil. 1844."]
- **subinflata**, Reuss. *Sitz. k. Ak. Wiss. Wien*, LIX, Abth. 1, 1869, 454, i, 4a, b, c.
- **suborbicularis**, d'Orbigny. *Ann. Sci. Nat.* VII, 1826, 300, No. 12.
- D'Orb. in *De la Sagra*, *Hist. Phisiq. etc. Cuba*, 1839, "Foraminifères," 177, x, 9-11; also in Spanish, 1840, 156, same pl. and fig.
- **subtriquetra**, Eichwald. *Lethæa Rossica*, III, 1853, 12, i, 13a-d. [*Miliola*, 1830, q. v.; erroneously quoted as "*Melania*, 1830."]
- **sulcata**, Karrer. *Sitz. k. Ak. Wiss. Wien*, LVIII, Abth. 1, 1868, 139, i, 13.
- **symmetrica**, Quenstedt. *Handbuch Petref.* ed. 3, Abth. 5 (1885), 1061, lxxxvii, 10.
- **sypho**, Nicolucci. *Nuovi Ann. Sci. Nat. Bologna*, [2], VI, 1846, 207.
- (**Cruciloc.**) **triangularis**, d'Orb. Bütschli, in Bronn, *Klassen*, etc. Thier-Reichs, 1880, 190, iv, 25. [*Cruciloculina*, 1839.]
- **tricarinata**, d'Orbigny. *Ann. Sci. Nat.* VII, 1826, 299, No. 7. [v. *Miliola*; and *Miliolina*.]
- D'Orbigny, *Modèles*, No. 94, 1826.
- Guérin-Ménéville's Cuvier, *Iconographie, Mollusques*, 1829-43, 9, iii, 5.
- Cuvier, *Animal Kingdom*, Henderson's ed. III, 1834 (pls. 1837), 19, vi, 5.
- P., J., & B. [d'O., *Modèles*, No. 94], *Ann. Mag. Nat. Hist.* [3], xvi, 1865, 34, i, 8.
- J., P., & B., *Crag Foram.*, *Pal. Soc.* XIX, 1866, 7, iii, 33, 34.
- Reuss, *Sitz. k. Ak. Wiss. Wien*, LV, Abth. 1, 1867, 71, ii, 4a, b, c.
- Anon., *Science Gossip*, 1870, 10, fig. 19.
- Morris, *Lecture Geol. Croydon*, [1876], 8, fig. 2².
- Basset, *Ann. Soc. Sci. Charente-Inf.* 1884 (1885), 163, fig.
- **tricostata**, d'Orbigny. *Ann. Sci. Nat.* VII, 1826, 300, No. 21.
- Terq., *Mém. Soc. géol. France*, [3], II, 1882, 166, xvii (xxv), 7-11.
- = *Q. pulchella* (young). See *Fruentaria feniculum*.
- **trigonula** (Lamarck). D'Orbigny, *Ann. Sci. Nat.* VII, 1826, 299, No. 1, xvi, 5-9. [*Miliolites*, 1804.]
- D'Orbigny, *Modèles*, No. 93, 1826.
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- **advena**, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 87, vi, 3-5; also in Spanish. 1840, 97, same pl. and fig.
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* Given as a subgenus of *Rotalia*.

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 ——— Terrigi, Mem. R. Acc. Lineei, [4], vi, 1889, 117, vii, 10.
 ——— *budensis*, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 65, viii, 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 75, same pl. and fig.
 ——— *candei*, d'Orbigny. De la Sagra, Hist. Phisiq. etc. Cuba, 1839, "Foraminifères," 88, iii, 6-8; also in Spanish, 1840, 98, same pl. and fig.
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 ——— *colligera*, Schwager. Palaeontographica, xxx, 1883, Pal. Theil, 126, xxix (6), 14a-d.
 ——— *communis*, Roemer. Neues Jahrbuch, 1838, 389, iii, 56.
 ——— Reuss, Sitz. k. Ak. Wiss. Wien, xviii, 1856, 242, v, 56.
 ——— *compressa*, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 62, viii, 8; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 72, same pl. and fig.
 ——— *concinna*, Reuss. Zeitschr. deutsch. geol. Ges. vii, 1855, 288, xi, 4.
 ——— *conica*, Hantken. A magy. kir. földt. int. évkönyve, i, 1871, 130, ii, 13a, b, c; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, i, 1871, 136, same pl. and fig.
 ——— *contacta*, d'Orbigny. Ann. Sci. Nat. vii, 1826, 279, No. 4.
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 ——— *cristata*, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 660, ii, 105a, b.
 ——— (?). Uhlig, Jahrb. k. k. geol. Reichsanstalt, xxxvi, 1886, 179, ii, 23 and 24.
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 ——— *dekayi*, Reuss. Sitz. k. Ak. Wiss. Wien, XLIV, Abth. 1, 1861 (1862), 338, vii, 6a-b.
 ——— *depressa*, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 39, vi, 4-6.

- TRUNCATULINA disjuncta**, Terq. Mém. Soc. géol. France, [3], II, 1882, 95, x (xviii), 3a-c.
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- ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 61, viii, 5; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 71, same pl. and fig.
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- ——— Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 118, viii, 10, 11.
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- ——— v. **lævigata**, Howchin. Trans. R. Soc. S. Austral. xii, 1889, 13, i, 8.
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- ——— Terq., Mém. Soc. géol. France, [3], II, 1882, 93, ix (xvii), 26a, b.
- **evoluta**, Hantken. A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 65, x, 1; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 75, same pl. and fig. [*T. lobata*, in descr. of plate.]
- **falcata**, Reuss. Sitz. k. Ak. Wiss. Wien, LIX, Abth. 1, 1869, 461, ii, 1a-c.
- **flos**, Karrer. Sitz. k. Ak. Wiss. Wien, LVIII, Abth. 1, 1868, 182, iv, 15.
- **formosa**, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 149, xiv, 6a, b [error for 5].
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- ——— Hantken, A magy. kir. földt. int. évkönyve, iv, 1875 (1876), 64, ix, 6; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, iv, 1875 (1881), 74, same pl. and fig.
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- ——— Terrigi, Mem. R. Acc. Lincei, [4], vi, 1889, 117, viii, 5.
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- ——— Toutkowski, Zap. Kievsk. Obsheh. Est. ix, 1888, 50, viii, 3a-c.
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- *insignis*, Reuss. Sitz. k. Ak. Wiss. Wien, lix, Abth. 1, 1869, 461, ii, 2a-c.
- *interrupta*, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 127, xvi, 8a, b, c; (and Mém. Soc. Dunkerquoise).
- *involuta*, Rss. Franzenan, Math. termész. értesítő, vii, 1889, 263, v, 4. [*Rotalina*, 1851.]
- *kallomphalia*, Gümbel. Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868 (1870), 659, ii, 102a, b, c.
- *karreri*, Seguenza. Atti R. Acc. Lincei, [3], vi, 1880, 150, xiv, 7a, b [error for 6].
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- *laciniosa*, Karrer. Sitz. k. Ak. Wiss. Wien, lviii, Abth. 1, 1868, 183, v, 1.
- *lævigata*, Roem. Verst. norddentsch. Kreide, 1840-41, 97, xv, 23.
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- **tenuimargo**, Brady. Report Challenger, 1884, 662, xciii, 2 and 3.
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- 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. F. [= *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, lxxvii, 7.
 ———— **orbignyi**, Terquem. Ess. Anim. Plage Dunkerque, pt. 3, 1881, 132, xvii, 8a, 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. XLVI, 1884, 496.
 ———— **diffugiæformis**, Gruber. Nova Acta k. Leop.-Carol. Deutsch. Ak. Nat. XLVI, 1884, 496, viii, 18.
- UTERIA**, Michelin, 1845. Iconogr. Zoophyt. 1840-47, 177; see Gümbel, 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.]
 ———— Goës, 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, 4, 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.
- **crassicostata**, 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.
- **eoæna**, Gümbel. 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 Drasehe, 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, Testae. 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, Kohlenflötze, 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. pygmæa*, 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 Lineei, 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.
 _____ (ef.) _____ 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 descr. 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. Pitzpubl. 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 ; faesimile 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.
 _____ Toutkowsky, Zap. Kievsk. Obshch. Est. ix, 1888, 39, i, 1a, b, c.
 _____ Pietet, Traité de Paléont. iv, 1846, 235, xii, 21.
 _____ v. Schlicht, Foram. Septar. Pitzpubl. 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, 21a, 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 23a.
- **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), 7a-8b.
- **badenensis**, d'Orbigny. Foram. Fossiles Vienne, 1846, 65, iii, 6-8.
- ————— Neugeboren, Denkschr. k. Ak. Wiss. Wien, XII (2), 1856, 98, v, 7a, b, 8 and 9.
- ————— Costa, Atti Accad. Pontaniana, VII, fas. 2, 1856, 181, xii, 16a, A.
- [**badensis**] ————— Reuss' Models, No. 56, 1865 (Catal., No. 42, 1861).
- ————— Jones, in Microgr. Dict. ed. 4, 1883, 799, xxiii, 35a, 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), 9a, b.
- **biplicata**, Terquem. Mém. Ac. Imp. Metz, XLIV, 1863, 395, viii, 3a, b.
- **birmenstorffensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 25, iii, 14.
- **brukenthalii**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII (2), 1856, 98, v, 10a-d.
- ————— Brady, Report Challenger, 1884, 532, lxvi, 18 and 19.
- **bullosa**, Ehrenberg. Mikrogeologie, 1854, xxiv, 9. [= *V. leguminiformis*, Batsch.]
- **calcipara**, Ehr. Mikrogeologie, 1854, xxxii, ii, 7. [= *V. leguminiformis*, Batsch.]
- **caudata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 258, No. 8.
- ————— P., J., & B. [Soldani], Ann. Mag. Nat. Hist. [4], VIII, 1871, 163, ix, 60.
- ————— See *Orthoceratia vaginula*.
- **citharina**, d'Orb., 1847. D'Orbigny, Prodrome de Paléont. II, 1850, 185, No. 750.
- **clava**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 6, i, Turnerithon, 8.
- **clavata**, Costa. Mem. Acc. Sci. Napoli, II, 1855 (1857), 145, ii, 18A, B. [v. *Nodosaria*.]
- **clavula**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 26, iii, 16.
- **comitina**, Berthelin. Mém. Soc. géol. France, [3], II, 1880, 38, i (xxiv), 21a-d.
- **communis**, Costa. Mem. Acc. Sci. Napoli, II, 1855 (1857), not descr., ii, 3.
- **cordiformis**, Terq., var. **alsatica**, Deecke. Abh. geol. Specialkarte Elsass-Lothr. iv, Heft 1, 1884, 35, ii, 8, 8a.
- **cornu**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 25, iii, 13.
- **correcta**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 26, iii, 18.
- **costata**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 258, No. 6.
- **costata**, Neugeboren. Denkschr. k. Ak. Wiss. Wien, XII (2), 1856, 98, v, 11.
- **costulata**, Roemer. Neues Jahrbuch, 1842, 273, vii, B, 3. [v. also *Citharina*.]

- VAGINULINA costulata**, Roemer. Bronn, Lethaea Geognostica, ed. 3, II, 1851-52, 90, xxix¹, 22a-d.
 ——— [Reuss]. Jones, Geologist, VI, 1863, 295, xv, 18, 19.
 ——— Reuss, in Geinitz, Palaeontographica, XX, Th. 2, 1874, 90, xx, 24.
 ——— Quenstedt, Handbuch Petref. ed. 3, Abth. 5 (1885), 1051, lxxxvi, 15.
 ——— **cretæ**, Ehrenberg. Mikrogeologie, 1854, xxiv, 8. [= *V. lævigata*, Roem.]
 ——— Ehr., Mikrogeologie, 1854, xxxii, ii, 8. [= *V. leguminiformis*, Batsch.]
 ——— (**brachyarthra**) ——— Ehr., Mikrogeologie, 1854, xxviii, 5. [= *V. longa*, Cornuel.]
 ——— **crstellarioides**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 48, iii, 17a, b.
 ——— [**crstellarioides**] ——— Reuss' Models, No. 87, 1865 (Catal., No. 44, 1861).
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 ? ——— **elongata**, Roemer. Verst. norddeutsch. Kreide, 1840-41, 96, xv, 14.
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- **liasica**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 5, i, Turnerithon, 4.
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- **neglecta**, Terquem. Six. Mém. Foram. Lias, 1866, 497, xx, 35.
- **nodulosa**, Ehrenberg. Mikrogeologie, 1854, xxviii, 4. [= *V. levigata*, Roem. var.]
- **notata**, Reuss. Sitz. k. Ak. Wiss. Wien, XL, 1860, 203, ix, 3.
- **obscura**, Ehr. Mikrogeologie, 1854, xxvi, 27. [= *Virg. henprichii*.]
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- **paradoxa**, Ehr. Mikrogeologie, 1854, xxvi, 26. [= *Virg. henprichii*.]
- **parkinsoni**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 18, ii, Parkinsonithon, 7.
- **patens**, Brady. Report Challenger, 1884, 533, lxvii, 15 and 16.
- **paucicostata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 52, iv, 8a, b.
- **paucistriata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 48, iii, 16a-c.
- **perfoliata**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 6, i, Turnerithon, 6.

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- **rotundata**, Ehrenberg. Mikrogeologie, 1854, xxxi, 7. [Near *V. marginata*, d'O.]
- **rudis**, Deecke. Abh. geol. Spezialkarte Elsass-Lothr. IV, Heft 1, 1884, 30, i, 15a, b.
- **rugosa**, Terquem. Six. Mém. Foram. Lias, 1866, 497, xx, 34.
- **schloenbachi**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 46, iii, 6a, b.
- **siblingensis**, Zwingli & Kübler. Foraminif. schweiz. Jura, 1870, 34, iv, Impressathon, 7.
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- **striata**, Costa. Atti Accad. Pontaniana, VII, fas. 2, 1856, 182, xvi, 16a, A, B [error for 17].
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- **striatula**, Reuss, in Geinitz, Grundr. Verstein. 1845-46, 657, xxiv, 11.
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- **striolata**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 46, iii, 7.
- **strombecki**, Reuss. Sitz. k. Ak. Wiss. Wien, XLVI, Abth. 1, 1862 (1863), 46, iii, 8.
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- **subulata**, Ehr., Abhandl. k. Ak. Wiss. Berlin, 1855, 160, i, x. [Glauc.]
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 [A gasteropod.]
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- **cornu**, Ehrenberg. Abhandl. k. Ak. Wiss. Berlin, 1838, 135.
- **decurrens**, Brady. Carbonif. Foram., Pal. Soc. xxx, 1876, 87, iii, 17 and 18.
- **deformis**, d'Orbigny. Ann. Sci. Nat. VII, 1826, 271, No. 8.
- **excavata**, d'Orbigny. Barker Webb & Berthelot, Hist. Nat. Iles Canaries, 1839, II, pt. 2, "Foraminifères," 137, i, 43-45.
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- **ignota**, DeFr. D'Orbigny, Ann. Sci. Nat. VII, 1826, 270, No. 5.
- **inæqualis**, d'Orbigny. Voyage Amér. Mérid. 1839, v, pt. 5, "Foraminifères," 48, vii, 10-12. [v. *Discorbina*.]
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- **limbata**, Terq. Mém. Soc. géol. France, [3], II, 1882, 102, xi (xix), 7a-c.
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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 Palæont. 1879, I, 112, fig. 21C, D.
- —— Roemer, Lethæa Geognostica, Th. I, Lief. 1, 1880, 267, fig. 42.
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- **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.
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- **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.
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 ———— Guérin-Ménéville's Cuvier, Iconographie, Mollusques,
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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. *eocæna*, Gümb. 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. 1864 (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. I, 1876, 90, fig. 27¹.
 ———— 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**, Gümbel, 1868 (1870). Abh. m.-ph. Cl. k.-bayer. Ak. Wiss. x, 1868
 (1870), 648.
 ———— **haeringensis**, Gümbel. 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**, Gümbel. 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 *Müliolina* 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.** Plancois, De Couch. Min. 1739, also 1760, 17, pl. i, f. viii, *N*, *M*, *L*. [= ? *Serpula.*]
- Verneolina**, Costa; misprint for *Verneuilina*.
- Verneueilina**, Williamson, 1848; misprint for *Verneuilina*.
- 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**, Andreae. 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.
- **mauritii**, 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 Lineei, 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 deser., cvi, 1-3.
 ——— Eley, Geol. in the Garden, 1859, 202, ix, 38C.
 ——— Eley, Geol. in the Garden, 1859, 197, iv, 22; v, 31. [Flint east.] [Referred to *V. tricarinata* on p. 200.]
 ——— sp. ind. Andraea, Abh. geol. Spezialkarte 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 deser., 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. Foran. B. M. 1882, 88. [*Strophoconus*, 1854.]
- **hungarica**, Hantken. A magy. kir. földt. int. évkönyve, I, 1871, 129, ii, 15*a*, *b*; and Mitth. a. d. Jahrb. k. ungar. geol. Anstalt, I, 1871, 135, same pl. and fig.
- **mustoni**, Andreae. Abh. geol. Spezialkarte Elsass-Lothr. II, Heft 3, 1884, 254, xi, 4.
- **paradoxa** (Ehr.). Jones, Catal. Foss. Foran. B. M. 1882, 88. [*Vaginulina*.]
- **pauciloculata**, Brady. Report Challenger, 1884, 414, lii, 4 and 5.
- **pertusa**, Reuss. Sitz. k. Ak. Wiss. Wien, XLII, 1860 (1861), 362, ii, 16*a*, *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, 4*a*, *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, Palacontographica, xxx, 1883, Pal. Theil, 112, xxix (6), 12.
- ——— Brady, Report Challenger, 1884, 414, lii, 1-3.
- [**schreibersi**] ——— Andreae, Abh. geol. Spezialkarte 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.
 ————— Pictet, 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, Dict. 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.). Lamarek, Ency. Méthod., "Vers," III (1832), 1148 (pls. 1827), 470, f. 2 (P. & J. quote pt. 23, 1816). [*Nautilus*, 1798.]
 ————— **marginata** (F. & M.). Lamarek, 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.). Lamarek, Ency. Méthod., "Vers," III (1832), 1148 (pls. 1827), 470, f. 1 (P. & J. quote pt. 23, 1816). [*Nautilus*, 1798.]
 ————— Crouch, Introd. Lamarek, 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*.]
 _____ Bromm, Lethaea 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 *Bathypiopsis*.]
- 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 *Lagera* ; 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 ; xlvi.
- 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**, Bose. Nouv. Dict. Sci. Nat. v, 1816, 491 ; founded on one of Fichtel & 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** *calcata*. 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 (marginline 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; ad 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. *tribrachata* on p. 108 of Verst. Böhm. Kreide, II.
 ——— *subovata*, Deshayes. Ency. Méth. (Vers), 1830, 146 (T*).
- FUSULINA** *verneuili*. Should read *verneuilli*, and the reference is ii, 2a-g.
- FUSULINELLA** *struvii*. The plate should be ii; Möller is in error.
- GLANDULINA** *inflata*. Haesler, 1887; for 179 read 189.
- GLOBIGERINA** *bulloides*. Williamson, 1858; as these forms are said to be arenaceous, they are probably *Haplophragmium globigeriniiforme*.
 ——— ——— v. *rubra*. To Vanden Broeck's reference add fig. 7.
 ——— *glomerata*. In the French edition of Hoernes called *conglomerata*.
 ——— *omphalotetras*. 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 *megaloglossum* in descript. of plate.
 ——— *polytheca*. For xxxiii read xxiii.

- GROMIA** dujardini, Schultze. Organ. Polyth. 1854, 55, vii, 1-7.
 ——— fluviatilis, Duj. Micro. Dict. 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 *Peneroplides*.
- LITUUS** abbatius, 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 Dnnikowski; add fig. 78.
 ——— sp. Schwager; for 109 read 108.
 ——— sp. Williamson; ascribed in 1872 to *Vaginulina costata*.
- MELLOSSIS**, 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.
 ——— *conspurecata*. 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. (Sommi's), Mollusques, v (au xiii), records the following: *depressa*, p. 56; *levigata*, 55; *manilla*, 57; *plana*, 56; *orata*, 59; *radiata*, 58; *spira*, 57; var. *rucosa*, 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.
- PLEUROSATOMELLA.** Seguenza, Atti Acc. Lincei [3], xii, 1880, proposes but does not figure: *costæ*; *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*.
 ——— *melcheliniana*. Eley, Geol. Garden, 1859, 198, v, 27. [*melchiana*.]
 ——— *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. Mikrogeol. 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. Mikrogeol. 1854, xxviii; fig. 7 is described as *dilatata*.
 ——— Williamson, 1848. Altered to *Bolivina punctata* in 1872.
 ——— Chimino, 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 "Zeitsehr. deutsch. geol. Ges." x, 1858, pp. 433-438:—

- Cornuspira cassis*; *polygyra*.
Dentulina anomala; *bemigseni*; *declivis*; *fusiformis*; *grandis*; *indifferens*; *inflexa*; *isotoma*; *laxa*; *leptosoma*; *nutans*; *obtusa*; *scolex*; *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*.
Nodosuria anomala; *bactridium*; *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 renames 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 Strukturverhältnisse 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; *diformis*, 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.
Lagendina liassica, 16; *pupoides*, 16; *sercostata*, 16.
Marginulina dentalina, 17.
Nodosaria chrysalis, 34; *simplex*, 17; *sinemuriensis*, 16; *transversarii*, 34.
Orbulina argoviensis, 33.
Placopsilina argoviensis, 34; *bathoniana*, 26.
Robulina liassica, 19.
Rotalina maclurea, 37; *macrocephala*, 40; *mayeri*, 37; *peregrina*, 37; *pygmaea*, 40; *sulcifera*,
40; *supra-jurensis*, 38; *universa*, 28.
Textilaria argoviensis, 36; *auensteinensis*, 40; *oolitica*, 28; *shrubsolei*, 35; *simplex*, 28;
tenuissima, 40; *triangularis*, 38.
Vaginulina fragilis, 16.