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SYNOPSIS OF THE MOLLUSCA OF THE CRETACEOUS FORMATION,

Including the Geographical and Stratigraphical Range and Synonymy.

By WILLIAM M. GABB.

MARCH, 1861.

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P R E F A C E.

IN September 1859, I published in the Proceedings of the Academy of Natural Sciences of Philadelphia, a "Catalogue of the Invertebrate Fossils of the United States." Having, since that time, been repeatedly requested to prepare a supplement, with the additions that have been made to the subject, and such corrections as I may have found necessary, I have preferred going over the whole of the formation, bringing it up to the year 1860, since the latest work of the kind only extends to 1850.

My former catalogue was at first prepared for my own use only and afterwards published at the advice of some of my friends. Not being intended originally for general use, and having been compiled during a press of other engagements, it was necessarily imperfect in many particulars. In the present paper I have endeavored to remedy these defects. Having access, in the collection of the Academy, to all the known types of Dr. Morton's, and a large number of Mr. Conrad's species, I am happily able to settle some points which have long been in doubt. Thus, the original specimens from which Dr. Morton described the species, *Inoceramus Barabini*, I find belong, as has long been suspected, to two very distinct species: one is probably *I. problematicus*, Schl't.; the other will have to retain the name *I. Barabini*. The types of *Clypeaster geometricus*, and *C. florealis*, both very badly figured in the "Synopsis," and with scarcely a generic description, still exist in the collection. The first is probably, as Agassiz, in his Catalogue Raisonné considered it, a *Pygurus*, although being but an imperfect cast, there is yet some uncertainty. The latter is not a *Faujasia* as considered by d'Orbigny and Desor, but is a true *Cassidulus*.



Again, by a comparison with the types (the only true resort in case of a dispute) I have ascertained the relations of *Gryphaea Pitcherii* and Marcou's *G. dilatata* var. *Tucumcarii*. (See Proc. Acad. Feb. 12, 1861.)

In preparing the synonymy of the foreign species, I have placed most confidence in special monographs, preferring in all cases to defer to the opinions of such authors as have the reputation of being most reliable.

As to the American species, in addition to my own acquaintance with the subject, I have received much valuable assistance from my friends, Messrs. Conrad and Meek, both in conversation and by means of their numerous papers, more especially from the excellent catalogue of the species from Nebraska, recently published by the latter gentleman in connection with Dr. Hayden.

For convenience, I have used many abbreviations, a list of which is given below. When two or three numbers follow a reference, unless otherwise stated, the first designates the page; the second, the plate; and the rest the figures, thus: "Con. Jour. Acad. v. ii, 275, 24, 3," means Conrad, Journal of the Academy, volume 2, page 275, plate 24, figure 3.

I have spared no labor to make this the most complete paper of the kind ever yet published, and to that end have gone over the entire subject anew; still a work like this must almost necessarily have some imperfections, spite the utmost vigilance of the author. I shall therefore feel myself under many obligations to any one who may take the pains to point out to me any defects, and I shall endeavor at a suitable time to correct them.

W. M. G.

LIST OF ABBREVIATIONS.

d'Arc. M. G. S. F.—d'Archiac Memoirs of the Geological Society of France, 2d ser. vol. ii.

B. & C.—Baile & Coquand, id. 2d ser. vol. iv, 1851.

Baily, Q. J. G. S.—Quar. Jour. Geological Society. London, vol. ii.

Blainv.—Blainville (H. D. de) Mémoire sur les Belemnites, considérées zoologiquement et Géologiquement. Paris, 1827.

Von Buch, Petr. rec. par Humb.—Pétrifications recueillies en Amérique, par Alex. Humboldt et par Chas. Degenhardt. Berlin, 1839.

Con.—Conrad (T. A.), Proceedings of the Academy, Philadelphia.

- Id.*—Journal of the Academy, Philadelphia.
- Id.*—Emory's Report of the Boundary Survey between the United States and Mexico, 1857.
- Id.*—Lynch's Report of the Expedition to the Dead Sea. Balt. 1852.
- Desh. Env. de Paris.—Deshayes (G. P.), Description des Coquilles fossiles des environs de Paris. Paris, 1824.
- Dubois, Conch. Foss.—Conchyliologie fossile et Aperçu géognostique des formations du Plateau Volhyni-Padolien. Berlin, 1831.
- B. Faujus St. Fond.—Histoire naturelle de la Montagne de St. Pierre de Maestricht. Paris, 7th year of the French Republic.
- Fleming (John), Brit. Anim.—History of British Animals. Edinburgh, 1828.
- Forbes, Q. J. G. S.—Quar. Jour. Geological Society. London, vol. i.
- Id.* G. T.—Transactions of the Geological Society of London.
- Id.*—In Darwin's Geology of South America. London, 1846.
- Gabb.—Proceedings of the Academy of Philadelphia.
- Id.*—Journal of the Academy.
- Galeotti, Bull. Acad. Brux.—Bulletin Acad. Bruxelles, vol. vii, 1839.
- Gein. Char. Kreid.—Geinitz (H. Br.), Die Versteinerungen von Kreslingswalde, und nachtrag zur charakteristik des Sächsisch-Böhmischen Kreidegebirges. Dresden, 1843.
- Goldf. Petr. Germ.—Goldfuss (G. A.), Petrefacta Germaniae, &c. 1826–1833.
- de Haan (W.)—Monographiae Ammoniteorum et Goniatiteorum specimen. 1825.
- H. & M.—Hall and Meek. Memoirs American Academy, Boston. 2d series, vol. v.
- Heb. M. G. S. F.—Hebert, Memoirs of the Geological Society of France, 2d series, vol. iv.
- Karst. Geog. Vert. N. Gren.—Die geognostischen Verhältnisse Neu Grenada's. Von H. Karst. Wien, 1856.
- Koch, Beitr. Ool.—Koch (F. C. L.), Beiträge zur Kenntniss des Norddeutschen Ooliten gebildes, &c. 1837.
- König.—Icones Fossilium sectiles, London, (date?)
- Lea, Phil. Tr.—Lea (Isaac), Transactions of the American Philosophical Society, Philadelphia, 2d ser. vol. vii.
- List. Hist. Anim. Ang.—Lister (Martin), Historiae Animalium Angliae, &c. London, 1678.
- Mant. Geol. Suss.—Mantell (G. A.) The Fossils of the South Downs or Illustrations of the Geology of Sussex. London, 1822.
- Marcou (Jules), Geol. N. A.—Geology of North America. Zurich, 1858.

- Math. Cat.—Matheron, Catalogue Methodique et descriptif des corps organisés fossiles du departement des Bouches du Rhône. Marseilles, 1842.
- Meek (F. B.), Assin. & Saskat. Exped.—Report of progress of the survey of the Northwest Territory and Report of the Assiniboine and Saskatchewan Expedition. Toronto, 1859.
- Meek.—Transactions of the Albany Institute, 1857.
- Meek and Hayden.—Proceed. Acad. Natural Sciences, Philadelphia.
- Morton, Syn.—Morton (S. G.), Synopsis of the Cretaceous Formation of the United States. Philadelphia, 1834. (Principally extracted from the Jour. Acad. Nat. Sci. 1st ser.)
- Nils. P. Suec.—Nilsson (S.), Petrifacta Suecana Formationis Cretaceae, &c. 1827.
- d'Orb.—d'Orbigny (Alcide), Coquilles Fossiles de Columbia (N. Gren.) Paris, 1842.
- Id.*—Paléontologie Française, Terrains Cretacées, vol. i, 1840, vol. ii, 1842, vol. iii, 1843, vol. iv, 1847. Vol. i, contains Cephalopoda, vol. ii, Gasteropoda, vol. iii, Acephala, and vol. iv, Brachiopoda and "Rudistes."
- Id.* Am. Merid.—Voyage dans Amérique Méridionale. Paris, 1842.
- Id.* Voy. Astrol.—Voyage de l'Astrolabe et Zélée. Paris, 1847.
- Id.* Prod.—Prodrome de Paléontologie Stratigr. v. ii, 1850, Paris.
- Park. Org. Rem.—Parkinson (J.), Organic Remains of a former world. London, 1804–1811.
- Passy, Seine Inf.—Description géologique du departement de la Seine Inferieure. Rouen, 1832.
- Phil. Geol. York —Phillips (John), Illustrations of the geology of Yorkshire, &c. London, 1836.
- P. & R. Env. Genev.—Pictet and Roux, Description des Mollusques Fossiles qui se trouvent dans le grès vert des environs de Genève. Genève, 1847–53.
- Pusch, Pol. Pal.—Polens Paläontologie, &c. Stuttg. 1836.
- Reuss, Böhm. Kreid.—Die Versteinerungen Böhmischen Kreide Formation, &c. Stuttg. 1844.
- Roem. Kreid. Tex.—Roemer (F.), Die Kreidebildungen von Texas, &c. 1852.
- Id.* Nord. Kreid.—Die Versteinerungen Norddeutschen Kreide Gebirges, 1840.
- Id.* Ool.—Die Versteinerungen des Norddeutschen Oolithen Gebirges, 1836–38.



- Sharpe, Q. J. G. S.—Quarterly Journal of the Geological Society of London, vols. v, vi, and xi.
- Sharpe, Foss. Moll. Chalk.—The fossil mollusca of the chalk of Great Britain. Palæontological Society of London, 1853.
- Shumard (B. F.)—Marcy's Report, Explorations of the Red River of Louisiana. 1853.
- Id.*—Proceedings of the Academy Nat. Sci. Philadelphia.
- Id.*—Transactions of the Academy of Arts and Sciences, St. Louis.
- Sow. Min. Con.—Sowerby (Jas.), The Mineral Conchology of Great Britain. London, 1812–1829.
- Sowerby (J. de C.) G. T.—Trans. Geological Soc. London, vol. iv.
- Tuomey.—Proceedings of the Acad. Nat. Sci. Philadelphia, 1854.
- Voltz (P. L.) Obs. sur Belem.—Observations sur les Bélemnites. 1830.
- Woodward, Q. J. G. S.—Quar. Jour. Geol. Soc. of London, vol. xii.

After the references to the authors and place of publication are placed those designating the localities. I have mentioned, when a species occurs in America, the particular State or States in which it is found. In all other cases I have only stated the country. The following are the abbreviations used :

Ala., Alabama,	G., Germany,	N. G., New Grenada,
Ark., Arkansas,	I., India,	N. J., New Jersey,
C., Chili,	Mex., Mexico,	N. M., New Mexico,
Cr., Crimea,	Miss., Mississippi,	R., Russia,
Del., Delaware,	Mo., Missouri,	Sw., Sweden,
E., England,	Neb., Nebraska,	Tex., Texas.
Fr., France,		

The position in the formation is designated by the initials at the right hand of the page, as follows : C., Chalk, U. G., Upper Greensand, G., Gault, L. G., Lower Greensand, N., Neocomien.

The synonyms are placed under the generic heads in which they were given, and the real names of the species are distinguished from the synonymical ones as follows :

EXOZYRA.

costata, Say, &c.

ponderosa, Roem. (*costata*), &c.

OSTREA.

Americana, Desh. (*EXOZYRA costata*), &c.

Generic synonyms are designated thus, **Exogyra**.

CATALOGUE.

CEPHALAPODA.

ACTINOCAMAX, Miller, 1826.

fusiformis, Voltz. (BELEMNITES subfusiformis), Obs. sur belemnites, 34, 1, 6.

Milleri, Voltz. (B. subfusiformis), ibid, 35, 1, 7.

verus, Miller (BELEMNITELLA mucronata), G. T., 2d s. vol. ii, 64, 9, 17.

AMMONITES, Brug. 1789.

abyssinis, Morton (SCAPH. Conradi), 1842. Jour. Acad. 1st ser. vol. viii, 203, 10, 4.

acostae, d'Orb. 1847, Prod. Pal.* vol. ii, 99. Bogota. N.

acutocarinatus, Shumard, Marcy's Rep. 209, 1, 3. Texas. C.

Adonis, d'Orb. Prod. Pal. 125, No. 55. Fr. G.

aeolus, d'Orb. ibid, 125, No. 56. Fr. G.

Aequatorialis, Von Buch, Petrif. Rec. en Amer. pl. 2, f. 20. Bogota. N.

affinis, de Haan (inflatus), Mem. Am. et Goni. p. 120.

Agassizianus, Pictet, Env. de Genève. 47, 4, 3. Fr. G.

Alexandrinus, d'Orb. Voy. Amer. Mer. 75, 17, 8, 11. N.

Alpinus, d'Orb. (subalpinus), Pal. Fr. vol. i, 283, 83, 1, 3.

alternatus, Woodw. Geol. Norfolk. Eng. C.

alternatus, d'Orb. (Orbigny), Coq. foss. de Col. 35, 1, 5, 6.

alternatus, Portl. (Oldhami), Geol. Londonderry, 408.

Americanus, Lea, Trans. Am. Phil. Soc. 2d s. vol. vii, 255, 8, 6. N. Grenada. N.

angulicostatus, d'Orb. Pal. Fr. vol. i, 146, 46, 3-4. Fr. N.

angulosus, Morton (SCAPH. Conradi), Synopsis, p. 39.

* All the references to d'Orbigny, Prodrome de Paléontologie Stratigraphique, relate to the 2d volume.

- angustus, Tuomey, 1854. Proc. Acad. Nat. Sci. vol. vii, p. 108.
 Alabama. *C.*
 Aonis, d'Orb. Prod. Pal. 64. Fr. *N.*
 Archiacianus, d'Orb. Pal. Fr. vol. i, 244, pl. 79. Fr. *G.*
 armiger, Sow. G. T. 2d s. vol. v, pl. 23, f. 13. India. ?
 arthriticus, Sow. id. vol. v, 23, f. 6. India. ?
 asperimus, d'Orb. Pal. F. vol. i, 206, 60, 4-6. Fr. *N.*
asper, Mérian, de Buch. 1829 (radiatus), Ann. Sc. N. 29, 5, 11.
 Asterianus, d'Orb. Pal. F. vol. i, 115, pl. 28. Fr. *N.*
 Auritus, Sow. Min. Con. tab. 134. Eng., Fr. *G.*
 Austeni, Sharpe, Foss. Moll. chalk, 28, 12, 1-2. Eng. *C., U. G.*
Balmatianus, Pictet (inflatus), pl. 9, f. 1.
 Beaudanti, Brong. Env. de Paris, pp. 95-99, pl. 7, f. 12. E. *G.*
 G., Fr. *G.*
 Beaumontianus, d'Orb. Pal. Fr. 328, 98, 1, 2. *U. G.*
 Belknapii, Marcou, 1858, Geol. N. A. 34, 2, 1. Texas. *C.*
 Belus, d'Orb. P. F. vol. i, 166, 52, 4, 6. Fr. *N.*
Bennettiae, Sow. (interrupta?), M. Con. pl. 539.
 bicurvatus, Mich. M. G. S. Fr. t. 3, pl. 12, f. 7. G. Fr. *G.*
 bidichotomus, Leym., d'Orb. P. F. 190, 57, 3-4. Fr. *N.*
 bidorsatus, Roem., Nord. Kreid. 88, 13, 5. G. *C.*
binodosus, Tuomey, *not Munster* (Meekii), 1855. Proc. Acad.
 vol. vii, p. 168.
 Bogotensis, Forbes, 1844, Q. J. G. S. p. 178. Fr., N. Grenada. *N.*
 Bonnetianus, Pictet Env. de Genev. 49, 4, 6. *G.*
borealis, Morton (SCAPH. Conradi), 1841, Proc. Acad. Nat. Sci.
 vol. i, p. 107.*
biplicatus, Mant. (lautus), Geol. Suss. 91, 22, 6.
 Bouchardianus, d'Orb. P. F. 300, 88, 6-8. G. E., Fr. *G.*
 Bourgeoisianus, d'Orb. Prod. p. 212. Fr. *C.*
Bourritianus, Pictet. (Timotheanus), Env. de Genev. 42, 4, 1.
 Boussingaultii, d'Orb. Voy. dans Am. Mer. vol. iii, part 4, p. 68,
 1, 1, 2. N. Gren. *N.*
 Brama, Forbes, G. T. 2d s. vol. vii, 100, 8, 1. India. *C.*
 Bravaisianus, d'Orb. P. F. 308, 91, 3, 4. E., Fr. *U. G.*
 Brazoensis, Shumard. Trans. St. Louis Acad. 1860, p. 594.
 Texas. *C.*
 Brochii, Sow. Min. Con. 202. E. Cr. ? *N.*
 Brongniartianus, Pictet. Env. de Genev. 55, 5, 3. F. *G.*
Brongniartii, de Haan (varians), Mem. Amm. et Goni. 121.

* The young of the form described as *A. Abyssinis*.

- Brottianus, d'Orb. P. F. 288 bis. 185, 5-7. G. F. *G.*
Buchiana, Forbes (Tethys), 1845, Q. J. G. S. vol. i, 177.
 Budha, Forbes, G. T. 2d s. vol. vii, 112, 14, 9. India. *C.*
 Bunburianus, Sharpe, Foss. Moll. of chalk, 25, 9, 3. E. *C.*
 Barnstoni, Meek, 1859. Assiniboine and Saskatchewan Exped.
 184, 2, 1-3. British America. *C.*
 Billingsi (ii), Meek, ibid, 184, 2, 4-6. British America. *C.*
 Caillaudianus, d'Orb. Prod. 99, No. 600. Fr. *N.*
 Cala, Forbes, G. T. 2d s. vol. vii, 104, 8, 4. India. *C.*
 Calypso, d'Orb. P. F. 167, 52, 7, 9. Fr. *N.*
 Camatteanus, d'Orb. P. F. 241, 67, 1-2. Fr. *G.*
 Camelinus, d'Orb. 1847, Prod. 100. Fr. *N.*
Candollianus, Pictet. (inflatus), Env. de Genève. 105, pl. 11. Fr. *G.*
Canteriasus, DeFr. (regularis), Brong., Env. de Paris, 1822.
carinatus, Tuomey, 1854, not Brong., Eichw., Beyrich, nor
 Riss. (Tuomeyi), Proc. Acad. vol. vii, p. 168.
 Carlavantii, d'Orb. Prod. 113. Fr. *L. G.*
Carolinus, d'Orb. (Woolgari), P. F. 310, 91, 5, 6.
 Carteronii, d'Orb. P. F. 209, 61, 1, 3. Fr. *N.*
cassida, Rasp. Ann. de Sc. d'Obs. vol. iii, pl. 11, f. 3. *N.*
 Cassisianus, d'Orb. Prod. 146. Fr. *U. G.*
 Castellanensis, d'Orb. P. F. 109, 25, 3-4. Fr. *N.*
 catillus, Sow. Min. Con. 564. E., Fr. *U. G.*
catillus, d'Orb. not Sow. (Geslinianus), P. F. 325, 97, 1-2.
catinus, Mant. (rusticus?) Geol. Suss. 198, 22, 10. *C.*
 Causonianus, d'Orb. Prod. 99. Fr. *N.*
 Cenomanensis, d'Arc. M. G. S. Fr. vol. ii, pp. 62 and 78. Fr., E. *U. G.*
 Ceranonis, d'Orb. P. F. pl. 109, f. 415. Fr. *N.*
 cesticulatus, Leym. in d'Orb. P. F. 275, 81, 4-5. Fr. *G.*
 Chabreyanus, Pictet. Env. de Genève. 67, 7, 1. Fr. *G.*
 Charrierianus, d'Orb. Pal. Fr. p. 618. Fr. *N.*
Cheyenensis, Owen (SCAPH. Conradi), Rep. Iowa, Wis. & Minn.
 cinctus, Mant. Geol. Suss. p. 116. Eng. *C., U. G.*
 circularis, Sow. in Fitt. G. T. 2d ser. vol. iv, pl. 11, f. 20. Eng. *G.*
clavatus, Deluc. (Mammillaris), Brong. Env. de Paris, 99, 6, 14.
 clementinus, d'Orb. Pal. Fr. 260, 75, 5, 6. Fr. *G.*
 Cleon, d'Orb. Prod. 1847, p. 124. Fr. *G.*
 clypeiformis, d'Orb. Pal. Fr. 137, 42, 1, 2. Fr. *N.*
 Collandoni, Pictet. Env. de Genève. 89, 8, 1. Fr. *G.*
 Columbianus, d'Orb. Voy. dans Am. Mer. 77, 17, 12-14. *N.*
 Grenada. *N.*

- complanatus*, Mant. not Brug. (subcomplanatus), Geol. Suss. p. 118.
- complexis*, Hall & Meek, Mem Am. Acad. Boston, 2d s. vol. v, 394, 4, 1. N. J. and Nebraska. C.
- compressissimus*, d'Orb. P. F. 240, 61, 4-5. F. N.
- concinus*, Phil. (fissicostatus), Geol. York. pl. 2, f. 47.
- Conradi*, Morton (SCAPHITES), Synopsis, 39, 16, 1-3.
- consobrinus*, d'Orb. P. F. p. 147, pl. 47. Fr. N.
- constrictus*, Sow. (SCAPHITES), Min. Con. pl. 184 a.
- Cornuelianus*, d'Orb. Pal. Fr. 364, 112, 3-5. G., Fr. N.
- cornutus*, Pictet, Env. de Genève. 93, 8, 16. Fr. G.
- costellatus*, Leym. (Deshayesi), M. G. S. F. vol. iii.
- Cottae*, Roem. Nord. Kreid. 86, 13, 4. G. C.
- Couloni*, d'Orb. Prod. Pal. 147. Fr., G. U. G.
- Coupei*, Brong. Env. de Paris, pl. 6, f. 3. Fr. C.
- crassicostatus*, d'Orb. P. F. 197, 59, 1, 4. Fr. N.
- crenatus*, Sow. in Fitt. (auritus), G. T. 2d s. vol. iv, pl. 11, f. 22.
- Crishna*, Forbes, G. T. 2d s. vol. vii, 103, 9, 2. India. N.
- cristatus*, Deluc. in Brong. Env. de Par. 95, 7, 9. E. G. G.
- cristatus*, Fitt. not Deluc. (Bouchardianus), G. T. 2d s. vol. iv, p. 337.
- cryptoceras*, d'Orb. P. F. 106, pl. 24. G., Fr. N.
- cultratus*, d'Orb. P. F. 145, 46, 1, 2. Fr. N.
- Cunliffei*, Forbes, G. T. 2d s. vol. vii, 109, 8, 2. India. C.
- Cunningtoni* (ii), Sharpe, Foss. Moll. of Chalk, 35, 15, 2. E. C.
- curvatus*, Mant. (falcatus), Geol. Suss. 118, 21, 18.
- curvinodus*, Phil. Geol. Yorkshire, pl. 2, f. 50. E. G.
- Danae*, d'Orb. (SCAPH. Conradi), Prod. 1847, p. 213.
- Decheni*, Roem. Nord. Kreid. 85, 13, 1. Fr., G. C.
- decipiens*, Sow. Min. Con. 294. E. G.
- Delaruei*, d'Orb. P. F. 296, 87, 6-8. Fr. G.
- Delawarensis*, Morton, Synopsis, 37, 2, 5. Del., N. J., Ala. C.
- Delucii*, Brong. (interruptus), Env. de Par. 95, 6, 4.
- denarius*, Sow. M. Con. 540. E., Fr. G.
- dentato-carinatus*, Roem. Kreideb. Tex. 33, 1, 2. Texas. C.
- dentatus*, Sow. (interruptus), M. Con. 308.
- Deshayesi*, Leym. (fissicostatus), in d'Orb. P. F. 288, 85, 1, 4.
- Deverianus*, d'Orb. P. F. 356, pl. 110. Fr. U. G.
- Diartianus*, d'Orb. Prod. 146. Fr. U. G.
- Didayanus*, d'Orb. P. F. 360, 108, 4, 5. Fr., N. Grenada. N.
- difficilis*, d'Orb. P. F. 135, 41, 1, 2. Fr. N.

- diphylloides*, Forbes, G. T. 2d s. vol. vii, pl. 8, f. 8. India. *C.*
diphyllus, d'Orb. P. F. 181, 55, 1-3. Fr. *N.*
dispar, d'Orb. (catillus), P. F. 142, 45, 1, 2.
Dufrenoyi, d'Orb. P. F. 200, 33, 4-6. Fr. *N.*
Dumasianus, d'Orb. Voy. Am. Mer. 69, 2, 1, 2. N. Grenada. *N.*
Dupinianus, d'Orb. P. F. 276, 81, 6, 8. Fr., G. *G.*
Durga, Forbes, G. T. 2d s. vol. vii, 104, 7, 11. India. *C.*
Dutempleanus, d'Orb. Prod. 123. Fr. *G.*
Duvalianus, d'Orb. P. F. 158, 50, 4-6. Fr. *N.*
Egertoni, Forbes, G. T. 2d s. vol. vii, 108, 8, 2. India. *C.*
Emerici, Rasp. Ann. des Sc. d'Obs. t. 3, 12, 6. Fr. *N.*
Escragnollensis, d'Orb. Prod. 65. Fr. *N.*
euomphalus, Sharpe, Foss. Moll. of Chalk, 31, 13, 4. E. *C.*
Ewaldi, Von Buch. (CERATITES), Uber ceratiten, pl. 6, f. 6-7.
falcatus, Mant. Geol. Suss. 117, 21, 6, 2. E., Fr., G. *C., U. G.*
fascicularis, d'Orb. P. F. 117, 29, 1, 2. Fr. *N.*
Ferandinus, d'Orb. P. F. 324, 76, 4, 5. E., Fr. *U. G.*
fissicostatus. Phil. Geol. Yorks. pl. 2, f. 49. G., E., Fr. *C., B.*
fissicostatus, Portl. not Phil. (Portlockii), Geol. Lond'y, 408.
Pittoni, d'Arc. (splendens), d'Orb. P. F. 225, 64, 1, 2.
flaccidicosta, Roem. Kreideb. Texas, 33, 1, 1. Texas. *C.*
Fleuriausianus, d'Orb. P. F. 350, 107. Fr. *U. G.*
flexuisulcatus, d'Orb. P. F. 144, 45, 3, 4. Fr. *N.*
Forbesianus, d'Orb. Prod. 213. India. *C.*
formosus, Sow. G. T. 2d s. vol. v, pl. 23, f. 7. I. ?
furcatus, Sow. in Fitt. G. T. 2d s. vol. iv, pl. 14, f. 17. E. *L. G.*
galeatus, Von Buch. Petrif. Rec en Amer. pl. 2, f. 20. N.
 Grenada, Fr. (teste d'Orb.) *N.*
Galliennei, d'Orb. Prod. 190. Fr. *U. G.*
Galpini (ii), Evans & Shumard, Trans. St. Louis Acad. 1857,
 vol. i, p. 42. Nebraska. *C.*
Ganesa, Forbes (Crishna), G. T. 2d s. vol. vii, 103, 7, 8.
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Conradi, Morton (HELICOCERAS), 1841, Proc. Acad. Phila.
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- Hillsii, Sow. Sp. (**Scaphites**), d'Orb. P. F. p. 494. E. G.
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 ? *Nebrascensis*, Meek & Hayden (**HELICOCERAS**), 1856, Proc.
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 ? uncus, M. & H. 1858, Proc. Acad. Phil. p. 56. Nebraska. C.
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Aptychus, Von Meyer, 1831 (**TRIGONELLITES**,* Park. 1811).

- Cheyennensis*, Meek & Hayden (**TRIGONELLITES**), Proc. Acad.
 1860, 421.
crassus, Hebert (**TRIGONELLITES**), M. G. S. Fr. 368, 28, 8.

* The generic name, given by Parkinson in "Organic Remains," vol. iii, p. 184, must take precedence of the name *Aptychus* ordinarily used. The type is *T. lata*, and is well figured, although the author did not know where to place it in the classification. There has been considerable doubt in regard to the nature of "Aptychus." D'Orbigny considered it a pedunculated cirrhipede; but it is now generally believed to be the operculum of Ammonites.

- fragilis*, M. & H. (TRIGONELLITES), Proc. Acad. 1816, 421.
Gollevilliensis, Sharpe (TRIGONELLITES), Foss. Moll. of Chalk,
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- anceps, Lam. An. Sans. Vert. vol. vii, 648. E., F., G., Sweden,
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 annulatus, Con. Proc. Phil. Acad. vol. vii, 265. Texas. C.
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 gigas, Rouss. Voy. dans Russ. Mer. vol. ii, 784, 12, 3. Crimea. C.
 gracilis, Shumard, Trans. St. Louis Acad. 1860, 596. Texas. C.
 grandis, H. & M. Mem. Am. Acad. Boston, vol. v, 402, pl. 6,
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- Neocomensis, d'Orb. P. F. 560, 138, 1-5. G., Fr. *N.*
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ovatus, Say, 1829, Jour. Acad. Nat. Sci. 1st s. vol. vi, pl. 5, f. 5-6. U. S., N. J. *C.*
ornata, d'Orb. (vagina), Voy. Astrolabe, pl. 3, f. 2.
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Spillmani, Con. (anceps), 1858, Jour. Acad. 2d s. vol. iii, 335, 35, 24.
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- Americana*, Morton, Sp. (mucronata), Gabb Cat. Cret. p. 4.
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- ? *ambiguus*, Morton (is a "fish spine," fide Leidy), Synopsis, 35, 1, 4, 5.
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- Conradi*, Morton, Sp. (**HELICOCERAS**), Con. Proc. Acad. vol. vii, 226.
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- larvatus*, Con. Proc. Acad. vol. vii, 1855, p. 265. Texas. C.
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- Puzosii*, Lev. (*ANCYL. Puzosianus*), M. G. S. F. vol. ii, 315.
- raricostatus*, Roem. (*HAMULINA subraricostata*), Kreid. 93, 13, 14.
- raricostatus*, Phil. (*H. raricostata*), Geol. York. pl. 1, f. 23.
- Raulinianus*, d'Orb. P. F. 546, 134, 5-11. Fr., G. G.
- rotundatus*, Con. 1855, Proc. Acad. vol. vii, 266. Texas. C.
- rotundus*, Sow. M. Con. 61. E. G.
- rotundus*, d'Orb. (*Carolinus*), Bull. G. S. F. 1st s. vol. vii, 282.
- rotundus*, Geinitz (*consobrinus*), Kreid. 12, 7, 41.
- Royerianus*, d'Orb. (*HAMULINA*), P. F. 531, 131, 1-5.
- rugatus*, Forbes, G. T. 2d s. vol. vii, 117, 11, 2. India. C.
- Sablieri*, d'Orb. P. F. 543, 133, 6-10. Fr. G.
- simplex*, d'Orb. P. F. 550, 134, 12-14. Fr. U. G.
- simplex*, d'Orb. (*subcompressus*), Voy. Astrolabe, pl. 3, f. 15-17.
- spiniger*, Sow. (*alternatus*), M. C. 216.
- Studerianus*, Pictet, Env. Genève. 137, 15, 1-4. Fr. G.
- subcompressus*, Forbes, G. T. 2d s. vol. vii, 116, 11, 6. India. C.
- subelegans*, Gabb, 1861 (*elegans*, d'Orb.). Fr. G.
- subnodosus*, Roem. (*HAMULINA*), Kreid. 93, 13, 10.
- semicinctus*, Roem. (*HAMULINA*), Kreid. 92, 15, 2.

tenuisulcatus, Forbes (ANCYLOCERAS), G. T. 2d s. vol. vii, 116, 11, 3.

tenuis, Sow. (attenuatus), M. Con. 61.

torquatus, Morton, Synopsis, 45, 15, 4. Ala. C.

trabeatus, Morton, Synopsis, 45, 15, 3. Ala. C.

trinodosus, Geinitz, 1849. Quadersands. G.

tuberculatus, Sow. (alternatus), M. Con. 216.

turgidus, Sow. (alternatus), M. C. 216.

undulatus, Forbes, G. T. 2d s. vol. vii, 118, 10, 6. India. C.

virgulatus, Brong. Env. de Par. 99, 7, 6. Fr., G. G.

HAMULINA, d'Orb. 1849.

Alpina, d'Orb. Prod. 102. Fr. N.

Astieriana, d'Orb. Prod. 102. Fr. N.

cineta, d'Orb. (ANCYLOCERAS), Prod. 102. Fr. N.

decurrens, Roem. Sp. (HAMITES), d'Orb. Prod. 66. G. N.

Degenhardtii, Buch, Sp. (HAMITES), d'Orb. Prod. 102. N.

Grenada. N.

dissimilis, d'Orb. (HAMITES), Prod. 102. Fr. N.

Emericiana, d'Orb. (HAMITES), Prod. 66. Fr. N.

hamus, Quenst. Sp. (HAMITES), d'Orb. Prod. 102. Fr. N.

? *incerta*, d'Orb. (HAMITES), Prod. 66. Fr. N.

obliquecostata, Roem. Sp. (HAMITES), d'Orb. Prod. 66. G. N.

raricostata, Phil. Sp. (HAMITES), d'Orb. Prod. 115. E. G.

Roemeri, d'Orb. Prod. 66. G. N.

Royeriana, d'Orb. (HAMITES), Prod. 115. Fr. G.

semicincta, Roem. Sp. (HAMITES), d'Orb. Prod. 66. G. N.

subcylindrica, d'Orb. Prod. 102. Fr. N.

subnodosa, Roem. Sp. (HAMITES), d'Orb. Prod. 66. G. N.

subraricostata, d'Orb. Prod. 66. G. N.

subundulata, d'Orb. Prod. 102. Fr. N.

Varusensis, d'Orb. Prod. 102. Fr. N.

HELICOCERAS, d'Orb. 1842.

annulatum, d'Orb. P. F. 161, 148, 7-9. Fr. G.

armatum, Geinitz, Sp. (HAMITES), d'Orb. Prod. 216. G. C.

Asterianum, d'Orb. Prod. 127. Fr. G.

Conradi, Morton, Sp. (AMMONCERATITES), Gabb, 1861. N. J. C.

depressus, d'Orb. Prod. 127. Fr. G.

<i>elegans</i> , d'Orb. Prod. 127. Fr.	G.
<i>gracilis</i> , d'Orb. P. F. 612, 148, 10-15. Fr.	G.
<i>interruptum</i> , d'Orb. Prod. 102. Fr.	N.
<i>Moutonianum</i> , d'Orb. Prod. 127. Fr.	G.
<i>obliquatum</i> , d'Orb. Prod. 127. Fr.	G.
<i>plicatilis</i> , d'Orb. Prod. 127. Fr.	G.
<i>polyplacum</i> , Geinitz, Sp. (<i>Turrilites</i>), d'Orb. Prod. 216. G.	C.
<i>tuberculatum</i> , d'Orb. Prod. 127. Fr.	G.
<i>Varusensis</i> , d'Orb. Prod. 102. Fr.	N.
Mortoni, H. & M. Sp. (<i>Hamites</i>), Meek & Hayden, 1860, Proc. Acad. p. 421. Nebraska.*	C.
<i>tenuicostatum</i> , Meek & Hayden (Mortoni), 1856, Proc. Acad. p. 56.	
<i>cochleatum</i> , M. & H. (" <i>Turrilites</i> (<i>HELICOCERAS</i>)"), Proc. Acad. 1860, p. 185. Nebraska.	C.
<i>Nebrascense</i> , M. & H. (<i>Ancyloceras</i> ?), Proc. Acad. 1860, p. 421. Neb.	C.
<i>tortum</i> , M. & H. 1858, Proc. Acad. 54. Nebraska.	C.
<i>Cheyennense</i> , M. & H. (<i>Ancyloceras</i> ?), Proc. Acad. 1860, p. 421. Neb.	C.
<i>angulatum</i> , M. & H. Proc. Acad. 1860, p. 176. Nebraska.	C.
<i>umbilicatum</i> , M. & H. (<i>Turrilites</i> ?), Proc. Acad. 1860, 185. Neb.	C.

HETEROCERAS, d'Orb. 1847.

<i>Emericianus</i> , d'Orb. (<i>Turrilites Emerici</i>), Prod. 102. Fr.	N.
<i>polyplacus</i> , Roem. Sp. not Gein. (<i>Turrilites</i>), d'Orb. Prod. 216. G.	C.

LINDIGIA, Karst. 1856.

<i>helicoceroides</i> , K. Geog. Verhält. N. Grenada's, pl. 1, f. 5. Grenada.	N.
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MEGASIPHONIA, d'Orb. 1847.

<i>orbiculata</i> , Tuomey, Sp. (<i>Nautilus</i>), Gabb, 1861. (<i>Nautilites</i> , Con. 1858, Gabb, 1859). Ala.	C.
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* I received a copy of Meek and Hayden's paper in advance of the regular issue, but still so late as to be unable to insert their species in the proper place.

NAUTILUS, Breyn. 1732.

- Alabamensis*, Morton (MEGASIPHONIA), Synopsis. Tertiary (Eocene).
Albensis, d'Orb. Prod. 122. Fr. G.
angulus, Tuomey, 1855, Proc. Acad. vol. vii, 167. Ala. C.
angulites, Schlot. (triangularis), Petrif. 84.
Archiacianus, d'Orb. (expansus), P. F. 99, pl. 21.
Astierianus, d'Orb. Prod. 122. Fr. G.
Bouchardianus, d'Orb. P. F. 75, 13. G., Fr. G.
Charpentieri, Leym. M. G. S. F. 2d s. vol. iv, 198, pl. c, f. 2. Fr. C.
Clementinus, d'Orb. P. F. p. 77, pl. 13, bis Fr. G.
Clementinus, Forbes, *not d' Orb.* (Indicus), G. T. 2d s. vol. vii.
compressus, Sow. (Fittoni), in Fitt. G. T. 2d s. vol. iv, 203 and 367.
Comptoni, Sow. (CRISTELLARIA rotula), M. Con. 121.
Danicus, Schlot. Petrif. 117. Fr., G., Den'k. *Maest. beds, and C.*
Dekayi, Morton, Synopsis, 33, 8, 4. N. J., Del., Ala., Miss.,
 Tenn., Ark., Mo., Texas, Nebraska (E., Fr., G., Chili,
 and Pondichery, E. Indies, *fide d' Orb.*). C.
Deslongchampsianus, d'Orb. P. F. 90, 20. E., Fr. U. G., C.
elegans, Sow. M. Con. 116. E., G., Fr. (Texas, *fide Roem.*). C., U. G.
elegans, Mant. pars (Deslongchampsianus), Geol. Suss. pl. 21, f. 8.
expansus, Sow. M. Con. 458. E., Fr. C.
Farringdonensis, Sharpe, Quart. J. G. Soc. vol. x, 198, 6, 1. L. G.
Fittoni, Sharpe, Foss. Moll. of Chalk, 17, 6, 4. E. U. G.
Fleuriausianus, d'Orb. (triangularis), P. F. 82, pl. 15.
Hebertinus, d'Orb. Bull. G. Soc. Fr. 2d s. vol. vii, 127. Fr. *Danien.*
inaequalis, Sow. M. Con. 40. E. C.
Indicus, d'Orb. Prod. 211. India, Chili. C.
laevigatus, d'Orb. (sublaevigatus), P. F. 84, 17.
laevigatus, d'Orb. (Dekayi), Voy. Astrolabe, pl. 6, f. 1.
Largilliertianus, d'Orb. P. F. 86, 18. E., Fr. U. G.
Lallierianus, d'Orb. P. F. 160. Fr. L. G.
Matheronianus, d'Orb. Rev. Zool. 1841, 318. Fr. U. G.
Neckerianus, Pictet, Env. Genève. 16, 1, 2. Fr. G.
Neocomensis, d'Orb. P. F. 74, pl. 11. E., Fr. L. G., N.
orbiculatus, Tuomey (MEGASIPHONIA), 1855, Proc. Acad. p. 167.
Orbignyanus, Forbes (Dekayi), in Darwin, S. A. pl. 5, f. 1.
perlatus, Morton (Dekayi), Synopsis, 33, 13, 4.
plicatus, Sow. in Fitt. G. T. 2d s. vol. iv, 12, 9. E. L. G.
pseudoelegans, d'Orb. P. F. p. 70, pl. 8-9. E., Fr., G., Crimea. N.

- radiatus*, Sow. (subradiatus), M. Con. 356.
Requienianus, d'Orb. (plicatus), P. F. p. 72, pl. 10.
Rhodani, Roux. Env. Genève. 19, 1, 4. Fr. G.
Ricordeanus, d'Orb. Prod. 112. Fr. L. G.
Sassureanus, Pictet, Env. Genève. 17, 1, 3. Fr. G.
simplex, Sow. M. Con. 122. E., Fr. U. G., L. G.
simplex, Roem. not Sow. (Dekayi), Kreid. Tex. 37.
sinuato-punctatus, Gein. 1843, Kreid. 8, 1, 6. G. C.
Sowerbyanus, d'Orb. P. F. 88, pl. 16. Fr. C.
Sowerbyanus, d'Orb. (Indicus), Voy. Astrolabe, pl. 4, f. 1-2.
sphaericus, Forbes (Dekayi), G. T. 2d s. vol. vii, p. 98.
Spillmani, Tuomey, 1855, Proc. Acad. Phila. vol. vii, 167. Ala. C.
Texanus, Shumard, 1860, Trans. Acad. St. Louis, p. 590. Texas. C.
sublaevigatus, d'Orb. Prod. 189. Fr. C.
subradiatus, d'Orb. Prod. 145. E., Fr. U. G.
triangularis, Montf. Conch. Syst. 1808, p. 7. G., Fr. U. G.
undulatus, Sow. M. Con. 40. E., G. L. G.
Varusensis, d'Orb. Prod. 97. Fr. N.

Orthocera.

- Humboldtiana*, Lea (ANCYLOCERAS), 1840, Tr. Am. Phil. Soc.
 2d s. vol. vii, 253, 8, 1.

Pseudobelus.

- bipartitus*, Blainv. (BELEMNITES), Mem. Sur. Belem. 113, 5, 19.

PTYCHOCERAS, d'Orb. 1841.

- adpressus*, Sow. Sp. (Hamites), d'Orb. P. F. p. 555. E., Fr. G.
annulifer, Morton, Sp. (SOLENO CERAS), Gabb, Cat. Cret. p. 5.
Astierianus, d'Orb. Prod. 125. Fr. G.
Emericianus, d'Orb. P. F. 555, 137, 1-4. Fr. N.
Gaultinus, Pictet. Env. Genève. 139, 15, 5-6. Fr. G.
laevis, Math. Cat. 266, 41, 3. Fr. L. G.
Mortoni, M. & H. (SOLENO CERAS), 1857, Proc. Acad. Phila. 134.
Puzosianus, d'Orb. P. 557, 137, 5-7. Fr. N.
Puzosianus, Quenst. (Gaultinus), pl. 21, f. 22.
sipho, Forbes, G. T. 2d s. vol. vii, 118, 11, 5. India. C.
Humboldtianus, Karst. (SOLENO CERAS), Geog. Ver. N. Gren.
 pl. 1, f. 1.

RHYNCHOTEUTHIS, d'Orb. 1846.

- alatus, d'Orb. Pal. Univ. pl. 80. Fr. N.
 Astierianus, d'Orb. id. pl. 80. Fr. L. G.

PHYLLOTEUTHIS, M. & H. 1860.

- subovatus, M. & H. 1860, Proc. Acad. Phila., p. 175. Nebraska. C.

SCAPHITES, Park. 1811.

- abyssinus*, Morton, Sp. (Conradi?), Meek & Hayden, 1860, Proc. Acad. 421.
aequalis, Sow. M. Con. 18. E., Fr., G. C., U. G.
aequalis, var. d'Orb. (obliquus), P. F. 518, 129, 3-6.
aequalis, Geinitz, not Sow. nor d'Orb. (Geinitzii).
 Alpinus, d'Orb. Prod. 100. Fr. N.
 Astierianus, d'Orb. P. F. p. 521. Fr. G.
 binodosus, Roem. Nord. Kreid. 90, 13, 6. G. C.
 Bowerbanksii, Sow. Sp. (Cricoceratites), d'Orb. Prod. 114. E. L. G.
 compressus, d'Orb. P. F. 517, 128, 4, 5. Fr. C.
compressus, Roem, not d'Orb. (Roemeri), Nord. Kreid. 91, 15, 1.
Cheyennensis, Owen, Sp. (Conradi?), M. & H. 1860. Proc. Acad. 420.
 Conradi, Morton, Sp. (Ammonites), d'Orb. Prod. 214. N. J., Ala., Del., Miss., Nebraska. C.
Conradi, vars. *gulosus* and *petechialis*, Morton, (Ammonites).
comprimis, Owen, Sp. (Conradi?), Rep. I. W. & M. 580, 7, 3.
 constrictus, Sow. M. Con. 184. A., E., Fr. C.
Cuvieri, Morton (hippocrepis), Syn. 41, 7, 1.
 costatus, Mant. Geol. Suss. 120, 22, 8 & 12. E., Fr. C.
 Geinitzii, d'Orb. Prod. 214. Fr., G. C.
gigas, Sow. (ANCYLOCERAS), M. Con. 593.
 Hillsi (ii), Sow. in Fitt. G. T. 2d s. vol. iv, pl. 15, 1, 2. E. L. G.
 hippocrepis, De Kay (Ammonites), in Morton's Synop. 41, 7, 1. N. J., Del. C.
 Hugardianus, d'Orb., P. F. 521. Fr. G.
 inflatus, Roem. Nord. Kreid. 90, 14, 3. G. C.
iris, Con. (Conradi), 1858, Jour. Acad. 2d s. vol. iii, 335, 35, 23.
 Ivanii, Puzos. Bull. G. S. Fr. vol. ii, pl. 2. Fr. U. G.

- larvaeformis, M. & H. 1856, Proc. Acad. p. 58. Nebraska. *C.*
 *Mandanensis, Morton, Sp. (Conradi?), Meek & Hayden, 1856,
 Proc. Acad. 281.
 Nicolletii, Morton, Sp. (Conradi?), M. & H. Proc. Acad. 1856,
 281.
 nodosus, Owen (S. (Ammonites?) nodosus), Rep. I. N. M.
 581, 8, 4. Nebraska. *C.*
 nodosus, var. brevis, M. & H. Proc. Acad. 1860, 420. Nebraska. *C.*
 nodosus, var. exilis, M. & H. ibid. Nebraska. *C.*
 nodosus, var. quadrangularis, M. & H. ibid. Nebraska. *C.*
 nodosus, var. plenus, M. & H. ibid, p. 177. Nebraska. *C.*
 obliquus, Sow. M. Con. 53, 18, 1, 2. E., Fr. *U. G.*
 ornatissimus, d'Orb. Prod. 214. Fr. *C.*
 ornatus, Roem. Nord. Kreid. 91, 13, 8. G. *C.*
 Phillipsii, Bean. Sp. (Hamites), d'Orb. Prod. 114. E. *G.*
 plicatellus, Roem. Nord. Kreid. 91, 13, 7. G. *C.*
 pulcherrimus, Roem. ibid, 91, 14, 4. G., Fr. *C.*
 reniformis, Morton (hippocrepis juv.), Synopsis, 42, 2, 6.
 Rochatianus, d'Orb. Prod. 147. Fr. *U. G.*
 Roemeri, d'Orb. Prod. 214. G. *C.*
 semicostatus, Roem. Kreid. Tex. 35, 1, 5. Texas. *C.*
 striatus, Mant. (aequalis), Geol. Suss. 119, 22, 3-12.
 subreniformis, d'Orb. (hippocrepis), Prod. 214 (improperly re-
 ferred to Morton, who never described such a species).
 Texanus, Roem. Kreid. Tex. 35, 1, 6. Texas. *C.*
 Vermiculus, Shumard, Trans. Acad. St. Louis, 1860, p. 594.
 Texas. *C.*
 Warreni (ii), Meek & Hayden, Proc. Acad. 1860, p. 177. Ne-
 braska. *C.*

SOLENO CERAS, Con. 1860.†

- annulifer, Morton, Sp. (Hamites), Con. Jour. Acad. vol. iv, 2d
 s., p. 284. N. Jersey, Ala. *C.*

* Although the typical forms of these "species" (?) are very distinct from each other and can generally be recognized at a glance, I have never been able to detect any difference in the septa of Morton's types; and the number and arrangement of the ribs and tubercles vary so, that I cannot agree with my friends, Messrs. Meek and Hayden, in considering them distinct. They might well be designated for convenience, S. Conradi var. Abyssinus, Mandanensis, Nicolletii, &c.

† Although I agree with Mr. Conrad in believing this to be a good genus, still, I fear that his diagnosis of the genus may be incorrect in one particular. He says that the large portion is "suddenly recurved." It may be the case, but the evi-

- Humboldtianus, Karst. Sp. (**Ptychoceras**), Gabb, 1861. N.
 Gren. N.
 Mortoni, Meek & Hayden. Sp. (**Ptychoceras**), Gabb, 1861. Ne-
 braska. C.

TOXOCERAS, d'Orb. 1841.

- annulare, d'Orb. P. F. 480, 118, 1-6. Fr. N.
 Astierianum, d'Orb. Prod. 66. Fr. N.
 bituberculatus (um), d'Orb. P. F. 476, 116, 8-10. Fr. N.
Cornelianus, d'Orb. (**ANCYLOCERAS**), P. F. 484, 119, 5-9.
 Duvalianus (um), d'Orb. P. F. 479, 117, 6-9. Fr. N.
 elegans, d'Orb. P. F. 477, 117, 1-5. Fr. N.
 Emericianum, d'Orb. P. F. 487, 120, 5-9. Fr. N.
gracilis, d'Orb. (**Hamites**), P. F. 488, 120, 10-12.
 Honnoratianus (um), d'Orb. P. F. 483, 119, 1-4. Fr. N.
 Joubertianus (um), d'Orb. Prod. 101. Fr. N.
 Moutonianus (um), d'Orb. Prod. 101. Fr. N.
 nodosus (um), d'Orb. Prod. 101. Fr. N.
 obliquatus (um), d'Orb. P. F. 486, 120, 1-4. Fr. N.
 plicatilis (le), d'Orb. Prod. 101. Fr. N.
 Requienianus (um), d'Orb. 474, 116, 1-7. Fr. N.
 Royerianus (um), d'Orb. P. F. 481, 118, 7-11. Fr. L. G.
 Varusensis (se), d'Orb. Prod. 102. Fr. N.

TRIGONELLITES, Park. 1811.* (**Aptychus**, Von Meyer, 1831.)

- Cheyennensis, M. & H., Sp. (**Aptychus**), Gabb, 1861.
 crassus, Hebert, Sp. (**Aptychus**), Gabb, 1861.
 fragilis, M. & H., Sp. (**Aptychus**), Gabb, 1861.
 Gollevilliensis, Sharpe, Sp. (**Aptychus**), Gabb, 1861.
 Icenicus, Sharpe, Sp. (**Aptychus**), Gabb, 1861.
 insignis, Hebert, Sp. (**Aptychus**), Gabb, 1861.
 leptophyllus, Sharpe, Sp. (**Aptychus**), Gabb, 1861.
 obtusus, Hebert, Sp. (**Aptychus**), Gabb, 1861.
 peramplus, Sharpe, Sp. (**Aptychus**), Gabb, 1861.

dence is very slight. I have frequently examined the type of the genus, which is also Morton's type of his species, and although, at the extremity of the fragment there is a slight deflection, it always appeared to me to be only a thickened lip or rib, such as occurs at intervals on other species in this family. The channel for receiving the older or smaller arm of the shell, is so deep as to render a section across the mouth crescentic.

* See note under **APTYPCHUS**.

Portlockii, Sharpe, Sp. (*Aptychus*), Gabb, 1861.

rugosus, Sharpe, Sp. (*Aptychus*), Gabb, 1861.

TURRILITES, Lam. 1801.

- acute-costatus*, d'Orb. P. F. 605, 147, 3, 4. Fr. C.
acutus, Passy. (*costatus*), Desor. Geol. Seine Inf., 334, 16, 3, 4.
Alpinus, d'Orb. Prod. 148. Fr. U. G.
Archiacianus, d'Orb. P. F. 607, 148, 5, 6. Fr. C.
alternatus, Tuomey, 1855. Proc. Acad. Phila. vol. vii, 168. Ala. C.
Astierianus, d'Orb. P. F. 578, 140, 8-11. Fr. G.
Beehii, Sharpe, Foss. Moll. of Chalk, 66, 26, 13. E. C.
Bergeri, Brong. Env. Paris, pl. 7, f. 3. E., Fr., G. G.
bifrons, d'Orb. P. F. 606, 147, 5-6. E., Fr. U. G.
bituberculatus, d'Orb. P. F. 582, 141, 7-10. G., Fr. G.
Brazoensis, Roem. Kreid. Tex. 37, 3, 2. Texas. C.
Carcitanensis, Math. Catalogue, 267, 41, 4. Fr. U. G.
cateratus, d'Orb. P. F. 574, 140, 1-3. Fr., G. G.
cateratus-evolutus, Quenst. (*Astierianus*), K. pl. 21, f. 25.
Cheyennensis, M. & H. (*HELICOCERAS*), Proc. Acad. 1856, p. 176.
cochleatus, M. & H. (*HELICOCERAS*), 1858, Proc. Acad. p. 55.
costatus, Lam. An. Sans. Vert. p. 102. E., G., Fr. U. G.
Desnoyersii, d'Orb. (*Scheuchzerianus*), P. F. 601, 146, 1, 2.
elegans, d'Orb. P. F. 577, 140, 6, 7. Fr., G. G.
Emericianus, d'Orb. (*HETEROCERAS*), P. F. 580, 141, 3, 6.
Escherianus, Pictet, Env. Genève. 154, 15, 11. Fr. G.
Essensis, Geinitz, Das Quadersands, pl. 4, f. 1, 2. G. U. G.
Geinitzii, d'Orb. Prod. 216. G. C.
Germaniae, d'Orb. Prod. 216. G. C.
giganteus, Haan (*tuberculatus*), M. Am. et Gon. p. 78, No. 6.
Gravesianus, d'Orb. P. F. 596, 144, 3-5. Fr. U. G.
Hugardianus, d'Orb. P. F. 588, 147, 9-11. Fr., G. G.
Mantelli, Sharpe, Foss. Moll. of Chalk, 63, 25, 5-6. E. C.
Mayorianus, d'Orb. P. F. 576, 140, 4, 5. Fr., G. G.
Morrisii, Sharpe, Foss. M. of Chalk, 65, 26, 4-8. E. C.
Moutonianus, d'Orb. P. F. 584, 147, 7-8. Fr. G.
Nebrascensis, M. & H. (*HELICOCERAS*), 1856, Proc. Acad. p. 280.
ornatus, d'Orb. P. F. 604, 147, 1, 2. Fr. U. G.
?planorbis, Forbes (*AMMONITES pumilus*), G. T. 2d s. vol. vii,
115, 9, 5.
plicatilis, Roem. Sp. (*Hamites*), d'Orb. Prod. 216. G. C.

- plicatus*, d'Orb. P. F. 592, 143, 7, 8. Fr. C.
polyplocus, Gein. (HELIOCERAS), Nacht. Kreid. 8, 5, 4.
polyplocus, Roem. (HETEROCERAS), Nord. Kreid. 92, 14, 1, 2.
Puzosianus, d'Orb. P. F. 587, 143, 1, 2. Fr., G., E. G.
Robertianus, d'Orb. P. F. 585, 142. Fr., G. G.
Senequierianus, d'Orb. P. F. 597, 141, 1, 2. Fr., G. G.
Scheuchzerianus, Bosc. in Buff. & Deterv. Verst. t. 5, p. 190.
 Fr., G. U. G.
spinifera (us), Con. Jour. Acad. 2d s. vol. iv, p. 284. Ala. C.
triplicatus, Sow. (costatus), Dixon's Geol. Succ. 350, 29, 16.
tuberculatus, Bosc. Buff. & Deterv. vol. v, 189, 42, 8. E.,
 Fr., G. U. G.
tuberculatus, Mant. (Gravesianus), Geol. Succ. 24, 6.
? umbilicatus, M. & H. (HELIOCERAS), 1858, Proc. Acad. p. 56.
undulatus, Sow. (Scheuchzerianus), M. Con. 75.
undulatus, Gein. (Geinitzii), Char. Kreid. 42, 13, 3.
undulatus, Reuss. (SCALA subundulata), Bohm. Kreid. 24, 7, 8, 9.
varicosa, Bosc. (tuberculatus), Buff. & Deterv. vol. v, 190.
Vibrayeanus, d'Orb. P. F. 589, 148, 1-4. Fr. G.
Wiestii, Sharpe, Foss. Moll. of Chalk, 67, 27, 8-9 and 17. E. C.

GASTEROPODA.

ACMAEA, Eschsh. 1833.

- dimidiata*, Reuss (HELCION), Kreid. 42, 11, 8.
Gaultina, P. & R. (HELCION), Env. Genève. 284, 27, 11.
inflata, P. & R. (HELCION), Env. Genève. 283, 27, 10.
Reussii, Geinitz (HELCION), 74, 18, 23.
subcentralis, d'Arc. Sp. (HELCION), M. G. S. F. 334, 22, 5. (1847.)

ACTAEON, Montf. 1810. (Acteon, d'Orb.).

- affinis*, Sow. Sp. (Tornatella), d'Orb. Prod. 149. E. U. G.
affinis, d'Orb. (Marullensis), P. F. 117, 167, 6.
Albensis, d'Orb. P. F. 120, 167, 10-12. Fr. N.
Astierianus, d'Orb. P. F. 118, 167, 7. Fr. N.
attenuata, M. & H. (SOLIDULA), 1858, Proc. Acad. p. 54.
biplicata, M. & H. not d'Orb. (SOLIDULA), Proc. Acad.

- brevis*, d'Orb. P. F. 125. Fr. N.
curculio, Forbes, Sp. (*Tornatella*), d'Orb. Prod. 219. India. C.
concinus, H. & M. (*CINULIA*), M. Am. Acad. Boston, 2d s. vol. v, 390, 1, 4.
Dupinianus, d'Orb. P. F. 116, 167, 1-3. Fr. N.
elongatus, Reuss, *not Sow.* (Reussii), Bohm. Kreid. 50, 7, 21.
Forbesianus, d'Orb. Prod. 115. E. G.
lineolatus, Reuss, Sp. (*Phasianella*), d'Orb. Prod. 219. G. C.
marginatus, d'Orb. P. F. 119, 167, 8, 9. Fr. N.
Marullensis, d'Orb. Prod. 67. Fr., N. Grenada. N.
modicellus, Con. Jour. Acad. 2d s. vol. iv, p. 287. Ala., Miss. C.
Moutonianus, d'Orb. Prod. 103. Fr. N.
Nerei, d'Orb. Prod. 68. Fr. N.
ornatus, d'Orb. Voy. dans Am. Mer. p. 79. N. Gren. N.
ovum, d'Orb. P. F. 123, 167, 19, 20. Fr. U. G.
Popii, Sow. Sp. (*Tornatella*), d'Orb. Prod. 68. E. N.
Reussii, d'Orb. Prod. 219. G. C.
ringens, d'Orb. P. F. 121, 167, 13-15. Fr. N.
scalaris, d'Orb. Prod. 68. Fr. N.
semen, Forbes, Sp. (*Tornatella*), d'Orb. Prod. 219. India. C.
subacutus, d'Orb. Prod. 220. India. C.
subalbensis, d'Orb. Prod. 115. E. L. G.
subelliptica, M. & H. (*SOLIDULA*), 1856, Proc. Acad. vol. viii, p. 63.
subsulcatus, d'Orb. Prod. 219. Fr. C.
sulcata, Dujard, *not Desh.* (subsulcatus), M. G. S. F. vol. ii, 231, 17, 3.
unidentulus, d'Orb. Voy. Ast. et Zel. pl. 6, f. 22-25. India. C.
unidentata, d'Orb. (unidentulus), Prod. 219.
Vibrayeanus, d'Orb. P. F. 122, 167, 16-18. Fr. G.

ACTEONELLA, d'Orb. 1847.

- conica*, Munst. Sp. (*Tornatella*), d'Orb. Prod. 220. G. C.
crassa, Dujard, Sp. (*Volvaria*), d'Orb. P. F. 111, pl. 116. Fr. C.
dolium, Roem. Kreid. Tex. 43, 4, 4. Texas. C.
gigantea, Sow. Sp. (*Tornatella*), d'Orb. P. F. 165, f. 1. G., Fr. C.
Goldfussii, d'Orb. Prod. 220. G. C.
Lamarckii, Sow. Sp. (*Tornatella*), d'Orb. P. F. p. 108. G. C.
Lefebreana, d'Orb. P. F. 108. Egypt. C.
laevis, Sow. Sp. (*Volvaria*), d'Orb. P. F. 110, 165, 2, 3. G., Fr. C.
Renauxiana, d'Orb. P. F. 108, 164, 7. Fr. C.

- subglobosa, Munst. Sp. (*Tornatella*), d'Orb. Prod. 220. G. C.
 Toucasiana, d'Orb. Prod. 191. Fr. C.
 voluta, Munst. Sp. (*Tornatella*), d'Orb. Prod. 220. Fr., G. C.

ACTAEONINA, d'Orb. 1847.

- biplicata*, M. & H. Sp. (*SOLIDULA*), Gabb, Proc. Acad. 1860,
 92, 3, 13.
naticoides, Gabb (*SOLIDULA*), Jour. Acad. 2d s. vol. iv, 299, 48, 2.
Texana, Roem. Sp. (*Eulima*), Gabb, 1861. Texas. C.

AMAUROPSIS, Mörch.

- paludinaeformis*, Hall & Meek (*Natica*), M. & Hayden, 1860,
 Proc. Acad. p. 185. Nebraska, N. Jersey, Ala., Miss. C.
Mariae, d'Orb. Sp. (*Natica*), Gabb, 1861. India. C.

ANISOMYON, Meek & Hayden, 1860.

- alveolatus*, M. & H. (*Helcion*), Am. Jour. Sci. vol. xxxviii, 2d
 ser. p. 35. Neb. C.
borealis, Morton, Sp. (*Hipponyx*), M. & H. ibid, p. 35. N. J. C.
patelliformis, M. & H. (*Helcion*), ibid, p. 35, pl. 1. Neb. C.
sexsulcatus, M. & H. (*Helcion*), ibid, p. 35. Nebraska. C.
Shumardi, M. & H. Proc. Acad. 1860, 423. Nebraska. C.
subovatus, M. & H. (*Helcion*), Am. Jour. Sci. 2d s. vol. xxxviii,
 p. 35. Neb. C.

ANCHURA, Conrad.

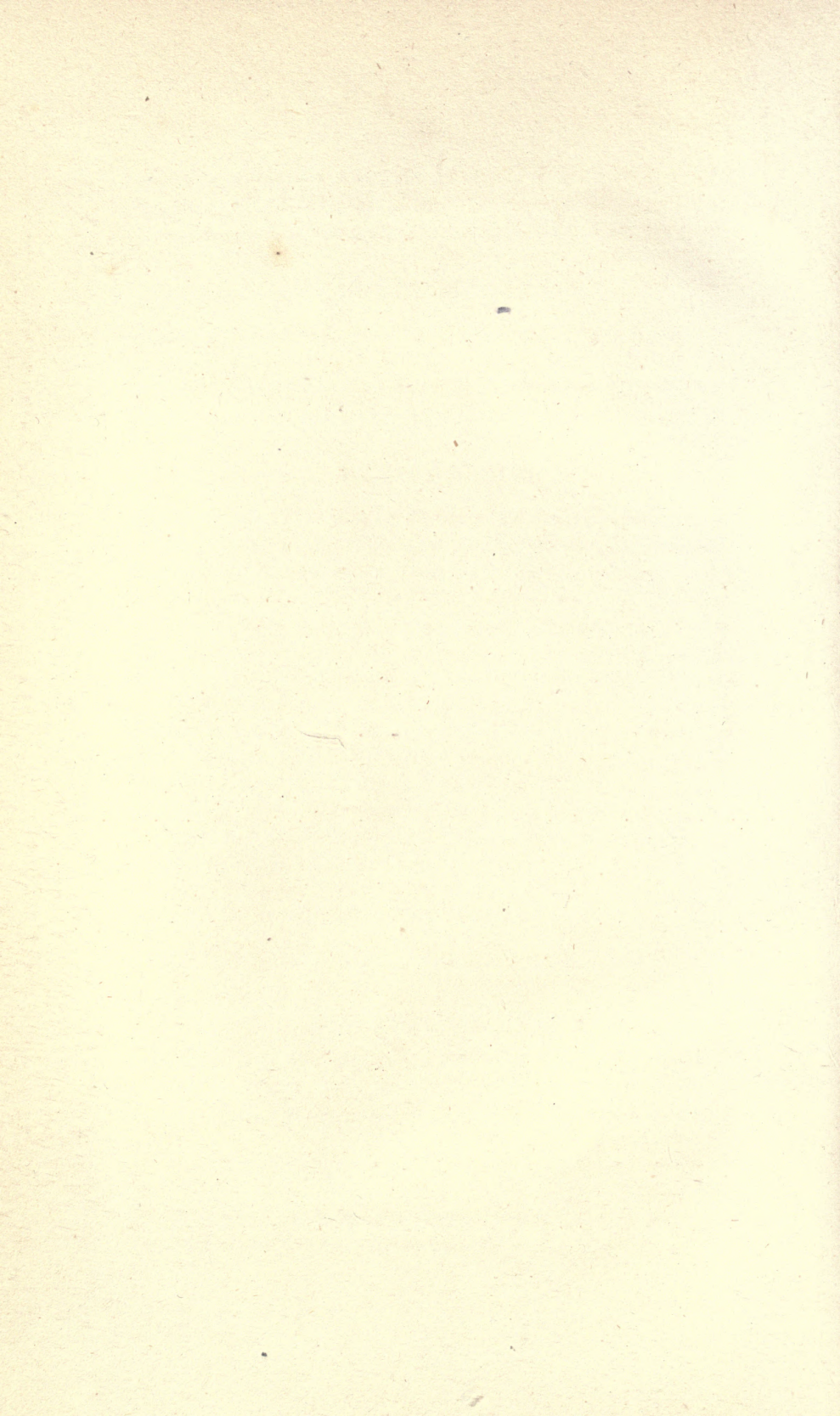
- abrupta*, Con. Jour. Acad. 2d s. vol. iv, 284, 47, 1. Alabama. C.

Ampullaria, Lam. 1799.

- bulimoides*, Desh. (*NATICA*), in Leym. M. G. S. F. vol. v, 12, 16, 9.
canaliculata, Mant. (*NATICA* Gaultina), Geol. Succ. pl. 19, f. 13.
laevigata, Desh. (*NATICA*), in Leym. M. G. S. F. vol. v, 13, 16, 10.

APORRHAI, Petiv. 1711, Da Costa, 1778.

- Americana*, Evans & Shum. Sp. (*Rostellaria*), M. & H. Proc.
 Acad. 1860, p. 423. Nebraska. C.



- biangulata, M. & H. (*Rostellaria*), Proc. Acad. 1860, 185. Neb. *C.*
 decemlirata, Con. Jour. Acad. 2d s. vol. iii, 320, 34, 11. Ala.,
 Miss. *C.*
 Dupiniana, d'Orb. Sp. (*Rostellaria*), Gabb, 1861. Fr. *N.*
 Nebrascensis, E. & S. (*Rostellaria*), M. & H. Proc. A. 1860,
 423. Neb. *C.*
 parva, M. & H. Proc. Acad. 1860, 178. Nebraska. *C.*
 sublaevis, M. & H. Proc. Acad. 1860, 178. Nebraska. *C.*
 stenopterus (a), Goldf. Sp. (*Rostellaria*), Sow. Dix. Geol. Suss.
 358, 27, 31. E., G. *C.*

ARCHITECTONICA, Bolten, 1798. (*Solarium*, Lam. 1799.)

- Albensis, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 abyssinis, Gabb, Sp. (*Solarium*), Gabb, 1861. N. J. *C.*
 Alpina, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *N.*
 Astieriana, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 Circitanensis, Math. Sp. (*Solarium*), Gabb, 1861. Fr. *L. G.*
 catenata, Sow. Sp. (*Solarium*), Gabb, 1861. E. *C.*
 cirrhoidea, Brong. Sp. (*Trochus*), Gabb, 1861. G., Fr. *G.*
 Bailyi, Gabb (*Solarium pulchellum*, Baily), Gabb, 1861. S.
 Africa. *U. G.*
 dentata, Desh. Sp. (*Delphinula*), Gabb, 1861. G., Fr. *G.*
 deperdita, d'Orb. Sp. (*Solarium*), Gabb, 1861. India. *C.*
 Deshayesii, P. & R. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 dilatata, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 granosa, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr., G. *G.*
 granulata, Mant. Sp. (*Solarium*), Gabb, 1861. E. *C., U. G.*
 monilifera, Mich. Sp. (*Solarium*), Gabb, 1861. G., Fr. *G.*
 Neocomiensis, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *N.*
 plicata, Sow. Sp. (*Solarium*), Gabb, 1861. E. *G.*
 pulchella, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *N.*
 Rochantiana, P. & R. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 scalaris, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *U. G.*
 subangulata, d'Orb. Sp. (*Solarium*), Gabb, 1861. G. *C.*
 subornata, d'Orb. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 tabulata, Phil. Sp. (*Solarium*), Gabb, 1861. E. *G.*
 Thirriana, d'Arc. Sp. (*Solarium*), Gabb, 1861. Fr. *U. G.*
 Tingryana, P. & Roux, Sp. (*Solarium*), Gabb, 1861. Fr. *G.*
 Tolloitiana, P. & R. Sp. (*Solarium*), Gabb, 1861. Fr. *G.*

AURICULA, Lam. 1799.

- decurtata*, Sow. (AVELLANA), G. T. 2d s. vol. iii, pl. 38, 10.
globulosa, Desh. (AVELLANA), Leym. M. G. S. F. vol. v, 12, 16, 2.
incrassata, Mant. (AVELLANA), Geol. Suss. pl. 19, f. 33.
inflata, Sow. (RINGINELLA), in Fitt. G. T. 2d s. vol. iv, pl. 11, f. 11.
obsoleta, Phil. Geol. Yorkshire, pl. 2, f. 40. E. (*Speeton Clay*), G.
orum, Dujard. (ACTAEON), M. G. S. F. vol. ii, 17, 2.
spirata, Roem. (NATICA Roemeri), Nord. Kreid. 77, 11, 4.
sulcata, Dujard. (ACTAEON subsulcatus), M. G. S. F. 2, p. 281, 17, 3.

AVELLANA, d'Orb. 1843.

- Alpina, Pictet & Roux, Sp. (*Ringinella*), d'Orb. Prod. 129. Fr. *G.*
 Archiaciana, d'Orb. P. F. 137, 169, 7-9. Fr. *C.*
bullata, Morton, Sp. (*SOLIDULA*), d'Orb. Prod. 220.
cassis, d'Orb. P. F. 138, 169, 10-13. Fr., E. *C., U. G.*
 Chiliensis, d'Orb. Voy. Astrolabe, 4, 32, 34. Chili. *C.*
 Clementina, d'Orb. (*Ringinella*), Prod. 128. Fr. *G.*
decurtata, Sow. Sp. (*Auricula*), d'Orb. Prod. 220. Fr. *C.*
 Dupiniana, d'Orb. P. F. 136, 169, 1-4. Fr. *G.*
globulosa, Desh. Sp. (*Auricula*), d'Orb. P. F. 132, 168, 9-11. Fr. *N.*
 Hugardiana, d'Orb. P. F. 135, 168, 17-19. Fr. *G.*
incrassata, Sow. Sp. (*Auricula*), d'Orb. Prod. 149. E., G., Fr. *U. G.*
incrassata, d'Orb. (subincrassata), P. F. 133, 168, 13-16.
inflata, Sow. Sp. (*Auricula*), d'Orb. Prod. 128. E., Fr. *G.*
labiosa, Forbes, Sp. (*Tornatella*), d'Orb. Prod. 220. India. *C.*
lachryma, Mich. Sp. (*Tornatella*), d'Orb. Prod. 128. Fr. *G.*
 Mailleana, d'Orb. (*Ringinella*), Prod. 149. Fr. *U. G.*
ovula, d'Orb. P. F. 137, 169, 5-6. Fr. *G.*
 Prevostii, d'Arc. M. G. S. F. 2d s. vol. ii, 343, 25, 1. Belgium. *U. G.*
 Rauliniana, d'Orb. P. F. p. 141. Fr. *U. G.*
 Royana, d'Orb. P. F. 140, 169, 14-16. Fr., G. *C.*
sphaera, d'Orb. Prod. 68. Fr. *N.*
subglobosa, M. & H. (CINUIA), Proc. Acad. 1856, p. 64.
subincrassata, d'Orb. Prod. 128. Fr. *G.*
 Texana, Shumard. Trans. St. Louis Acad. 1860, p. 537. Texas. *C.*
 Varusensis, d'Orb. Prod. 149. Fr. *U. G.*

BELLEROPHINA, d'Orb. 1843.

- Vibrayei, d'Orb. P. F. 411, 236, 7-12. Fr. *G.*

BUCCINUM, Lam. 1799.

- bicarinatum*, Munst. (HARPAGO pseudobicarinatus), Goldf. Petrif. 30, 173, 5.
constrictum, H. & M. Sp. (**Fusus**), M. & H. Proc. Acad. 1860, p. 422. Neb. C.
costatum, Goldf. (ROSTELLARIA papilionacea), Petrif. pl. 173, f. 4.
 ? *Nebrascense*, M. & H. (PSEUDOBUCINUM), 1856, Proc. Acad. p. 67.
productum, Reuss. (CERITHIUM), Bohm. Kreid. 42, 10, 18.
Gaultinum, d'Orb. P. F. 350, 233, 1-2. Fr. G.
pseudo-lineatem, d'Orb. Prod. 156. E. U. G.
turritum, Roem. (ROSTELLARIA), Nord. Kreid. 79, 11, 19.
 ? *vinculum*, H. & M. (**Fusus**), Mem. Soc. Boston, 2d s. vol. v, pl. 3, f. 5.

BUCCINOPSIS, Con. 1857.

- Parryi*, Con. Emory's Report, 158, 3, 4. Texas. C.

BULLA, Klein. Brug. 1789.

- alternata*, d'Orb. Voy. Astrolabe, pl. 5, f. 1, 5. India. C.
Chiliensis, d'Orb. ibid. pl. 1, f. 13-15. Chili. C.
cretacea, d'Orb. ibid. pl. 3, f. 18-21. India. C.
macrostoma, Gabb, Jour. Acad. 2d s. vol. iv, p. 301, 48, 16. Ala. C.
Mantelliana, Sow. in Fitt. G. T. 2d s. vol. iv, 176, 22, 3. E. N.
minor, M. & H. Proc. Acad. 1856, p. 69. Nebraska. C.
Mortoni, Lyell & Forbes, 1844, Q. J. G. S. vol. i, p. 63. N. J. C.
occidentalis, M. & H. Proc. Acad. 1856, p. 69. Nebraska. C.
recta, Gabb (CYLICHNA), Jour. Acad. 2d s. vol. iv, 302, 48, 17.
Santonensis, d'Orb. Prod. 233. Fr. C.
speciosa, M. & H. Proc. Acad. 1860, p. 185. Nebraska. C.
subcylindrica, M. & H. not d'Orb. (*speciosa*), Proc. Acad. 1856, p. 270.
tenuis, Reuss. Sp. (**Volvaria**), d'Orb. Prod. 233. G. C.
volvaria, M. & H. 1856, Proc. Acad. p. 69. Nebraska. C.

BULLOPSIS, Con. 1858.

- cretacea*, Con. (CYLICHNA), Jour. Acad. 2d s. vol. iii, p. 334.

BUSYCON, Bolt. 1798.

Bairdii, M. & H. (**Pyrula**), Proc. Acad. 1856, p. 126. Nebraska. *C.*

CALYPTRAEA, Lam. 1799.

? corrugata, Forbes, G. T. 2d s. vol. vii, 137, 12, 11. India. *C.*

? elevata, Forbes, G. T. 2d s. vol. vii, 137, 12, 10. India. *C.*

CALYPTRAPHORUS, Con.

palliatu8, Forbes, Sp. (**Rostellaria**), Gabb, 1861. India. *C.*

CANCELLARIA, Lam. 1799.

Alabamensis, Gabb, Jour. Acad. 2d s. vol. iv, 301, 48, 14. Ala. *C.*

Eufalensis, Gabb, ibid, 390, 68, 8. Ala. *C.*

Hilgardii, Con. Sp. (**Turbinopsis**), Gabb, 1861. Ala., Miss.,
N. J. *C.*

septemlirata, Gabb, Proc. Acad. 1860, 94, 2, 10. N. J. *C.*

CAPULUS, Montf. 1810.

Dunkerianus, Bosq. Sp. (**Hipponix**), d'Orb. Prod. 232. G. *C.*

elongatus, Munst. Sp. (**Pileopsis**), d'Orb. Prod. 156. G. *U. G.*

fragilis, M. & H. (**TECTURA** papillata), 1856, Proc. Acad. p. 68.

occidentalis, H. & M. (**TECTURA**), M. Acad. Boston, 2d s. vol.

v, p. 385, f. 13.

ornatissimus, d'Orb. Prod. 292. Fr.

Darien.

consobrinus, d'Orb. Prod. 292. Fr.

"

CASSIDARIA, Lam. 1812.

incerta, d'Orb. Sp. (**STROMBUS**), P. F. 308, pl. 215.

CASSIS, Lam. 1812.

avellana, Brong. Sp. (**AVELLANA** cassis), Env. Par. pl. 6, f. 10.

clathratum, Sandb. (**PLEUROTOMARIA** *Catantostoma* subclath-
rata), Goldf. Petr. G. vol. iii, 78, 188, 2.

CERITHIOPSIS, Forbes & Hanley.

Moreauensis, M. & H. (**Turritella**), Proc. Acad. 1860, p. 185.

Nebraska.

C.

CERITHIUM, Adanson, 1757.

- affine, Sow. Sp. (**Nassa**), d'Orb. Prod. 231. Fr. C.
 Albense, d'Orb. P. F. 355, 227, 10-12. Fr., G. N.
 Alpinum, d'Orb. Prod. 116. Fr. G.
 amietum, Munst. Sp. (**Fusus**), d'Orb. Prod. 231. G. C.
 Aptiense, d'Orb. P. F. 363, 229, 1-3. Fr. L. G.
 Ataxense, d'Orb. P. F. 372, 231, 1. Fr. C.
 attenuatum, Sow. Sp. (**Melanopsis**), d'Orb. Prod. 72. E. Weald.
attenuatum, Forbes (subattenuatum), Q. J. G. S. 1, 352, 4, 11.
 Barremensis (se), d'Orb. Prod. 116. Fr. L. G.
 Beaudouini, d'Orb. P. F. 361, 206, 7-8. Fr. N.
 Belgicum, Munst. in Goldf. Petrif. 34, 174, 5. Fr., G. U. G.
 binodosum, Roem. Nord. Kreid. 79, 11, 16. G. C.
 Birekii, Geinitz, Quader. G. U. G.
 Bosquense, Shumard, Trans. Acad. St. Louis, 1860, p. 596.
 Texas. C.
 buccinoides, Sow. Sp. (**Rostellaria**), d'Orb. Prod. 134. E. G.
 Bustamentii, Galeotii, Bull. Acad. Brux, vol. vii, p. 5, f. 5.
 Mexico. C.
 carinatum, Sow. Sp. (**Nassa**), d'Orb. Prod. 231. Fr. C.
 Cassisianum, d'Orb. P. F. 382. Fr. U. G.
 Cenomanense, d'Orb. P. F. 382. Fr. U. G.
 cingulatum, Galeotti, Bull. Acad. Brux. vol. vii, p. 6, f. 6.
 Mexico. C.
 Clementinum, d'Orb. P. F. 357, 228, 1-3. Fr. N.
conoideum, Murch. & Sedgw. not Sow. (**TURRITELLA** Requieri-
 ana), G. T. vol. iii, pl. 39, f. 18.
 Cornuelianum, d'Orb. P. F. 361, 228, 11-13. Fr. L. G.
 costellatum, Sow. Sp. (**Nassa**), d'Orb. Prod. 156. E. U. G.
 Dechenii, Munst. in Goldf. Petrif. 34, 174, 2. G. C.
 Derignyanum, Pictet & Roux. Env. Genev. 278, 27, 5. Fr. G.
 Dupinianum, d'Orb. P. F. 354, 227, 4-6. Fr. N.
 Ervynum, d'Orb. P. F. 367, 230, 1-3. Fr. G.
 excavatum, Brong. Env. Par. 339, 11, 10. Fr., G. G.
fasciatum, Reuss. (subfasciatum), Bohm. Kreid. 42, 10, 4.
 Fittonii, d'Orb. Prod. 116. E. L. G.
 Fontanieri, d'Orb. Voy. Ast. et Z. pl. 4, f. 2. India. C.
 Forbesianum, d'Orb. Prod. 116. Eng. G.
 Gallicum, d'Orb. P. F. 375, 231, 7, 8. Fr. U. G.

- Gargasense, d'Orb. P. F. 382. Fr. *L. G.*
 Gaudryi, d'Orb. P. F. 358, 228, 4-6. Fr. *N.*
 Guerangeri, d'Orb. P. F. 374, 231, 5, 6. Fr. *U. G.*
 gurgitis, P. & R. Env. Genev. 280, 27, 8. Fr. *G.*
 Hector, d'Orb. Prod. 156. Fr. *U. G.*
 Hugardianum, d'Orb. Prod. 134. Fr. *G.*
 Jason, d'Orb. Prod. 156. Fr. *U. G.*
imbricatum, Munst. *not Brong.* (subimbricatum), d'Orb. Prod. 231. *G.* *C.*
 Lalliertianum, d'Orb. P. F. 365, 229, 7-9. Fr., *G.* *G.*
limaeforme, d'Orb. (Sarhacense), P. F. 376, 232, 1-3. *C.*
 Luschitzianum, Gein. Char. Kreid. pl. 18, f. 12. *G.* *C.*
 Marollianum, d'Orb. P. F. 353, 227, 2, 3. Fr. *N.*
 Matheronii, d'Orb. P. F. 379, 232, 7. Fr. *C.*
 Matronense, d'Orb. P. F. 381. Fr. *L. G.*
 Moutonianum, d'Orb. Prod. 105. Fr. *N.*
nassoides, d'Orb. *not Grateloup* (subnassoides), P. F. 359, 228, 7-9. *C.*
 Neocomiense, d'Orb. P. F. 360, 232, 8-10. Fr. *N.*
 Nerei, Munst. Goldf. Petrif. 34, 174, 3. *G.* *C.*
 nodosum, Tuomey, 1855, Proc. Acad. vol. vii, p. 170. *Ala.* *C.*
 ornatissimum, Desh. M. G. S. F. vol. v, 14, 17, 10. Fr. *G.*
 perigrinosum, d'Orb. P. F. 374, 231, 3-4. Fr. *C.*
 Perigordianum, d'Orb. (*Nerinea*), Prod. 230. Fr. *C.*
 Phillipsii, Leym. M. G. S. F. vol. v, 14, 10, 10. Fr. *N.*
Phillipsii, Forbes, *not Leym.* (Forbesianum), Q. J. G. S. 1844, vol. i. *C.*
 Ponsianum, d'Orb. Prod. 193. Fr. *C.*
 Prosperianum, d'Orb. P. F. 378, 232, 6. Fr. *C.*
 provinciale, d'Orb. P. F. 380, 233, 3. Fr. *C.*
 pseudo-clathratum, d'Orb. Prod. 231. *G.* *C.*
 pseudo-conoideum, d'Orb. Prod. 230. *G.*, Fr. *C.*
 pseudo-coronatum, d'Orb. Prod. 231. *G.* *C.*
 pustulosum, Sow. G. T. 2d s. vol. i, 39, 19. *G.* *C.*
 pyramidale, d'Orb. *not Sow.* (subpyramidale), P. F. 361, 206, 7-9. *C.*
 reflexilabrum, d'Orb. Prod. 156. Fr. *U. G.*
 Renauxianum, d'Orb. P. F. 373, 231, 2. Fr. *C.*
 Requienianum, d'Orb. P. F. 377, 232, 4, 5. Fr. *C.*
 reticosum, Sow. G. T. 2d s. vol. iii, pl. 39, f. 17. *G.* *C.*
reticulatum, Roem. (MITRA), Nord. Kreid. 79, 11, 18. *C.*



Rhodani, P. & R. Env. Genev. 279, 27, 6. Fr.	G.
Rouyanum, d'Orb. P. F. 382. Fr.	N.
Royanum, d'Orb. Prod. 230. Fr.	C.
Sabaudianum, P. & R. Env. Genev. 278, 27, 5. Fr.	G.
Sarthacense, d'Orb. Prod. 156. Fr.	U. G.
Scalaroideum, Forbes, G. T. 2d s. vol. vii, 125, 13, 7. India.	C.
sphaeruliferum, Forbes, ibid. 125, 13, 6. India.	C.
subattenuatum, d'Orb. Prod. 116. Eng.	G.
subelongatum, d'Orb. Prod. 156. Fr.	U. G.
subfasciatum, d'Orb. Prod. 231. G.	C.
subimbricatum, d'Orb. Prod. 231. G.	C.
subminutum, d'Orb. Prod. 231. Mexico.	C.
submuricatum, d'Orb. Prod. 231. G.	C.
subnassoides, d'Orb. Prod. 72. Fr.	N.
subpyramidale, d'Orb. Prod. 72. Fr.	N.
subspinosum, Desh. M. G. S. Fr. vol. v, 14, 17, 12. Fr.	G.
subtricarinatum, Sow. Sp. (<i>Melanopsis</i>), d'Orb. Prod. 72. E.	Weald.
suturosum, Galeotti, Bull. Acad. Brux. vol. vii, p. 4, f. 4. Mexico.	C.
tectum, d'Orb. P. F. 368, 230, 4-6. Fr.	G.
terebroides, d'Orb. P. F. 352, 227, 1. Fr.	N.
Tombeckii, Heb. M. G. S. F. 2d s. vol. iv, 372, 29, 8. Fr.	C.
Toucasianum, d'Orb. Prod. 230. Fr.	C.
trimonile, Mich. M. G. S. F. vol. iii, 100, 12, 5. Fr.	G.
Trinchinopolitense, Forbes, G. T. 2d s. vol. vii, 126, 15, 10. India.	C.
tuberculatum, Forbes (Aptiense), Q. J. G. S. 1844, vol. i.	
turriculatum, Forbes, Q. J. G. S. vol. i, 352, 4, 7. Eng.	L. G.
Varusense, d'Orb. Prod. 72. Fr.	N.
Vibrayeanum, d'Orb. P. F. 366, 229, 10-13. Fr.	G.
Vindinense, d'Orb. P. F. 382. Fr.	U. G.
Carolinum, d'Orb. Prod. 292. Fr.	Danien.
Gea, d'Orb. Prod. 292. Fr.	"
dymorphum, d'Orb. Prod. 292. Fr.	"
uniplicatum, d'Orb. Prod. 292. Fr.	"
urania, d'Orb. Prod. 292. Fr.	"
Hebertianum, d'Orb. Prod. 292. Fr.	"

*CHEMNITZIA, d'Orb. 1839 (*Turbonilla*, *Con. not Riss.*).

- Aeolis*, d'Orb. Prod. 149. Fr. *U. G.*
arenosa, Reuss, Böhm. Kreid. 51, 10, 7. G. *U. G.*
cerithiformis, M. & H. (SCALA), Proc. Acad. 1860, p. 185.
corona, Con. (*Turbonilla*), Jour. Acad. 2d s. vol. iv, 287, 46,
 50. Miss. *C.*
? distans, Con. (*GLADIUS arenarum*), Jour. Acad. 2d s. vol. iii,
 333, 35, 30.
gloriosa, Roem. Kreid. Tex. 40, 4, 3. Texas. *C.*
inflata, d'Orb. P. F. 71, 156, 2. Fr. *C.*
? interrupta, Con. Jour. Acad. 2d s. vol. iii, 333, 35, 15. Miss. *C.*
laqueata, Con. (*Turbonilla*), Jour. Acad. 2d s. vol. iv, 288,
 46, 36. Miss. *C.*
Meekana, Gabb (*RIMELLA*), Jour. Acad. 2d s. vol. iv, 299, 48, 1.†
melanopsis, Con. (*Turbonilla*), Jour. Acad. 2d s. vol. iv, 287,
 46, 35. Miss. *C.*
Mosensis, d'Orb. P. F. 71, 156, 2. Fr. *U. G.*
Moutoniana, d'Orb. Prod. 103. Fr. *N.*
occidentale (is), Gabb, Jour. Acad. 2d s. vol. iv, pl. 68. In-
 dian Terr. *C.*
Pailletteana, d'Orb. P. F. 69, 155, 19. Fr. *C.*
Rouyana, d'Orb. Prod. 67. Fr. *N.*
Spillmani, Con. (*Turbonilla*), Jour. Acad. 2d s. vol. iv, 287,
 46, 48. Miss. *C.*
Sutherlandii, Baily, Q. J. G. S. vol. xi, 1853, 459, 12, 5. S.
 Africa. *U. G.?*
trigemmata, Con. (*Turbonilla*), J. Acad. 2d s. vol. iv, 288, 47,
 36. Miss. *C.*
undosa, Forbes (SCALA undata), G. T. 2d s. vol. vii, 125, 15, 11.
Varusensis, d'Orb. Prod. 103. Fr. *N.*

CINULIA, Gray, 1840.

- concinna*, M. & H. Sp. (*Actaeon*), Proc. Acad. 1860, 424. Neb. *C.*

* By mistake, d'Orbigny refers in the index to his "Prodrome" to all the "Senonien" Nerineas under the head of Chemnitzia. I mention it to guard other students against error.

† Through inadvertence, the name Chemnitzia was put over this species instead of Rimella, as was intended.

CIRRHUS, Sow. 1815.

- crotaloides*, Morton (PLEUROTOMARIA), Syn. 49, 19, 5.
depressus, Mant. (P. perspectiva), Geol. Suss. 194, 18, 18.
granulatus, Mant. (ARCHITECTONICA), Geol. Suss. 195.
perspectivus, Mant. (PLEUROTOMARIA), Geol. Suss. 194, 18, 12.
plicatus, Sow. (ARCHITECTONICA), M. Con. 141.

COLUMBELLINA, d'Orb. 1847.

- contorta*, Sow. Sp. (PUGNELLUS), d'Orb. Prod. 231. India. C.
monodactylus (a), Desh. Sp. (Rostellaria), d'Orb. P. F. 347,
 126, 2-5. Fr. N.
ornata, d'Orb. P. F. 348, 226, 6-7. Fr. U. G.
uncata, Forbes, Sp. (PUGNELLUS), d'Orb. Prod. 231. India. C.

Chenopus, Philippi, 1836. (APORRHAI, Petiv.)

- Buchii*, Munst. (GLADIUS), Goldf. Petrif. Germ.
Dupinianus, d'Orb. (APORRHAI), Prod. 71.

CONUS, Linn. 1758.

- **gyratus*, Morton (sauridens), Syn. 49, 10, 13. S. Carolina, Ala.,
 Miss., Tex. Eocene.
canalis, Con. Jour. Acad. 2d s. vol. iii, 331, 35, 22. Ala. C.
Marticensis, Math. Cat. 257, 40, 24-25. Fr. C.
tuberculatus, Dujard. M. G. S. F. vol. ii (1835), 232, 17, 11. Fr. C.

CYLICHNA, Loven.

- cretacea*, Con. Sp. (Bullopsis), Gabb, 1861. Miss. C.
recta, Gabb (Bulla), N. J. C.
scitula, M. & H. 1860, Proc. Acad. Phila. p. 178. Nebraska. C.

CYPRAEA, Linn. 1740.

- bullaria*, Lyell (OVULA), 1835, "On the cretaceous," p. 250.
Cunliffei, Forbes (O. antiquata), G. T. 2d s. vol. vii, 134, 12, 22.

* This species, with several others, was described by Morton as cretaceous, coming from a white limestone, since ascertained to belong to the Eocene formation. They are all from South Carolina. The same deposit extends as far south as Tampa Bay, Florida.

- Kayeii*, Forbes (OVULA), G. T. 2d s. vol. vii, 133, 12, 20.
Marticensis, Math. (OVULA), Catalogue, 255, 40, 21.
Newboldi, Forbes (O. incerta), G. T. 2d s. vol. vii, 134, 12, 21.
 Mortoni, Gabb, 1860, Jour. Acad. 2d s. vol. iv, 391, 68, 8.
 Ala., N. J. C.

DAPHNELLA, Hinds, 1844.

- ? *Eufalensis*, Con. Jour. Acad. 2d s. vol. iv, p. 285. Ala. C.
 ? *lutea*, Con. ibid, 285, pl. 46, f. 47. Ala. C.
 ? *subfilosa*, Con. ibid. 285. Ala. C.

DELPHINULA, Lam. 1804.

- Bonnardii*, d'Arc. M. G. S. F. 2d s. 334, 22, 6. G. U. G.
coronata, Roem. (TURBO), Nord. Kreid. 81, 12, 2.
Dupiniana, d'Orb. P. F. 209, 182, 1-4. Fr. N.
laevis, Dujard. (TURBO Iris), M. G. S. F. 231, 17, 4.
lapidosa, Morton (not *Straparollus lapidosus*, Gabb),* Synopsis,
 46, 19, 7. N. J., Del. C.

DENTALIUM, Linn. 1758.

- Arcotinum*, Forbes, G. T. 2d s. vol. vii, 138, 12, 16. India. C.
Chilense, d'Orb. Voy. Astrolabe, pl. 1, f. 37, 38. Chili. C.
Cretaceum, Con. Lynch's Exped. 228, Appendix, pl. 1, f. 1. Syria. C.
cylindricum, Sow. M. Con. 79. E. L. G.
decussatum, Sow. M. Con. 70. E. G.
 ? *difforme*, Sow. Dix. Geol. Suss. 348, 29, 10. E. C.
ellipticum, Sow. (decussatum), M. Con. 70.
fragilis, M. & H. 1856, Proc. Acad. p. 69. Nebraska. C.
gracile, Hall & Meek, 1854, Mem. Acad. Bost. 2d s. vol. v, pl.
 3, f. 11. N. C.
hamatum, Forbes, G. T. 2d s. vol. vii, 138, 15, 8. India. C.
medium, Sow. M. Con. pl. 79. Eng. U. G.
Mosae, Bronn in Goldf. Petrif. vol. iii, 3, 116, 10. G. C.

* By some unaccountable mistake, when describing this species, I confounded two specimens, both of which, in the top view, resemble Morton's figure of *D. lapidosa*, even to the manner of their fracture. They were in the collection of the Academy together. Morton's species (the type of which is in the Academy's museum), is a true Delphinula, and not, as d'Orbigny thinks (Prod. vol. ii, p. 223), a Turbo. My species, on the contrary, is a *Straparollus*. W. M. G.

- pauperculum*, M. & H. 1860, Proc. Acad. p. 178. Nebraska. *C.*
planicostatum, Hebert, M. G. S. F. 2d s. vol. iv, 174, 29, 11. Fr. *C.*
polygonum, Reuss, Böhm. Kreid. 41, 11, 5. G. *C.*
Rhodani, Pictet & Roux, Env. Genève. 286, 27, 13. Fr. *G.*
Ripleyanum, Gabb, 1860, Jour. Acad. 2d s. vol. iv, pl. 69, f. 48.
 Ala., N. J. *C.*
Rhotomagense, d'Orb. Prod. 156. Fr. *U. G.*
serratum, P. & R. (SERPULA), Env. Genève. 286, 27, 12.
sexcarinatum, Goldf. Petrif. 3, 166, 12, vol. iii. G. *C.*
striatum, Sow. M. Con. pl. 76. E. *C.*
subarcuatum, Con. 1853, Jour. Acad. 2d s. vol. ii, 276, 24, 13.
 N. J. *C.*

DOLIUM, Humph. 1797.

- nodulosum*, Sow. (STROMBUS), M. Con. 426 and 427.

DRILLIA, Gray, 1838.

- distans*, Con. Jour. Acad. 2d s. vol. iv, 286, 46, 49. Ala., Miss. *C.*
novemcostata, Con. ibid. vol. iii, 331, 35, 13. Miss. *C.*
 ? *Tippana*, Con. ibid. vol. iii, 331, 35, 5. Miss. *C.*

EMARGINULA, Lam. 1801.

- affinis*, Sow. Dixon's Geol. Suss. 348, 27, 20-25. E. *C.*
carinata, Reuss, Böhm. Kreid. 41, 11, 6. G. *C.*
comosa, Roem. Sp. (Patella), d'Orb. Prod. 232. G. *C.*
cretacea, d'Orb. Prod. 292. Fr. *Danien.*
cretosa, Dujard. M. G. S. F. vol. ii, 230, 17, 1. Fr. *C.*
Guerangeri, d'Orb. P. F. 393, 234, 9-12. Fr. *U. G.*
 ? *Naissanti* (ii), Heb. M. G. S. F. 2d s. vol. iv, 374, 29, 10. Fr. *C.*
Neocomensis, d'Orb. P. F. 392, 234, 4-8. Fr., E. *L. G., N.*
Pelagica, Passy, Geol. Seine Inf. 335, 16, 2. Fr. *U. G.*
reticulata, Leym. (Neocomensis), M. G. S. F. vol. v, p. 30.
Sanctae-Catharinae, Passy, Geol. Seine Inf. 335, 16, 1. Fr. *U. G.*
Toucasiana, d'Orb. Prod. 232. Fr. *C.*
Varusensis, d'Orb. Prod. 134. Fr. *C.*

EULIMA, Riss. 1826.

- Albensis*, d'Orb. P. F. 65, 115, 14-16. Fr. *N.*
amphora, d'Orb. P. F. 66, 156, 1. Fr. *C.*

- antiqua*, Forbes, G. T. 2d s. vol. vii, 134, 12, 17. India. C.
melanoides, Desh. in Leym. M. G. S. F. vol. v, pl. 16, f. 6. Fr. N.
Requieniana, d'Orb. P. F. 67, 155, 18. Fr. C.
seminosa, Gabb, 1860, Proc. Acad. 197, 3, 6. Chili. C.
 ? *Texana*, Roem. (ACTÆONINA), Kreid. Tex. 40, 4, 2.

FASCIOLARIA, Lam. 1801.

- elongata*, Sow. (VOLUTA), G. T. 1835, pl. 39, f. 22.
prima, d'Orb. Prod. 291. Fr. *Danien.*
Roemeri, Reuss (MITRA), Böhm. Kreid. 111, 9, 10.
supracretacea, d'Orb. Prod. 291. Fr. *Danien.*
Saffordii, Gabb, Jour. Acad. 2d s. vol. iv, 390, 68, 6. Tenn. C.

FICUS, Klein, 1753. (*Syctyphus*, Browne, 1756.)

- minimus*, Hoen. Sp. (*Pyrula*), Gabb, 1861. G. C.
octoliratus, Con. (PERISSOLAX), Jour. Acad. 2d s. vol. iii, 332, 35, 6.
Pondicherriensis, Forbes, Sp. (*Pyrula*), Gabb, 1861. India. C.

FISSURELLA, Lam. 1801.

- depressa*, Gein. *not Lam.* (subdepressa), Char. Kreid. 75, 18, 24.
laevigata, Goldf. Petrif. vol. iii, 8, 167, 14. Fr., G. C.
 **patelloides*, Reuss, Böhm. K. 41, 11, 9. G. C.
subdepressa, d'Orb. Prod. 232. G. C.

FOSSAR.

- ? *Nebrascensis*, M. & H. 1860, Proc. Acad. 423. Nebraska. C.

FUSUS, Lam. 1799.

- abbreviatus*, Mich. *not Lam.* (Clementinus), M. G. S. F. vol. iii, p. 100.
Actæon, d'Orb. (*male Acteon*), Prod. 155. Fr. U. G.
Alabamensis, d'Orb. Prod. 228. Ala. C.
Albensis, d'Orb. P. F. 334, 222, 8-10. Fr. G.
Alpinus, d'Orb. Prod. 133. Fr. G.
amictus, Munst. (CERITHIUM), in Goldf. Petrif. vol. iii, 24, 171, 19.

* d'Orbigny says in his Prodrôme "peut être la même que la précédente espèce" (*laevigata*).

- atavus, Forbes, Sp. (**Triton**), d'Orb. Prod. 230. India. *C.*
bilineatus, P. & R. (subbilineatus), Env. Genève. 272, 26, 6.
breviplicatus, Forbes, Sp. (**Voluta**), d'Orb. Prod. 230. India. *C.*
brevissimus, d'Orb. Sp. (? **PERISSOLAX**), Prod. 228. Ala. *C.*
 Brightii, Sow. Sp. (**Pyrula**), d'Orb. Prod. 155. Eng. *U. G.*
buccinoides, d'Orb. *not Gratel.* (subbuccinoides), Voy. Astrol.
 pl. 4, f. 41, 42.
calcar, Sow. Sp. (**Murex**), d'Orb. Prod. 155. Eng. *U. G.*
carinatus, Munst. Sp. (**Pyrula**), d'Orb. Prod. 229. G. *C.*
carinatus, Roem. Sp. (**Pyrula**), d'Orb. Prod. 228. G. *C.*
carinella, Sow. (subcarinella), G. T. 2d s. vol. iii, pl. 39, f. 24.
carinifer, Reuss (subcarinifer), Bohm. Kreid. 43, 9, 13.
Chilinus, d'Orb. Voy. Astrolabe, pl. 4, f. 29. Chili. *C.*
cingulatus, Sow. G. T. 2d s. vol. iii, pl. 39, f. 27. G. *C.*
clathratus, Sow. (subclathratus), G. T. 2d s. vol. iv, 240, 18, 19.
clementinus, d'Orb. P. F. 339, 223, 8-9. Fr. *G.*
costato-striatus, Munst. (**SCALA**), in Goldf. Petrif. vol. iii, 24,
 171, 18.
Cottae, Roem. Sp. (**Pyrula**), d'Orb. Prod. 229. G. *C.*
Cottaldinus, d'Orb. Prod. 133. Fr. *G.*
contortus, M. & H. (**TURRIS**), Proc. Acad. 1856, p. 65.
Culbertsonii, M. & H. 1856, Proc. Acad. p. 65. Nebraska. *C.*
Dakotensis, M. & H. (**NEPTUNEA**), 1856, Proc. Acad. p. 65.
 Nebraska. *C.*
decussatus, P. & R. *not Desh.* (subdecussatus), Env. Genève.
 273, 26, 7.
delphinulus, d'Orb. Prod. 71. Fr. *N.*
depauperatus, Reuss. Bohm. Kreid. 44, 12, 7. G. *C.*
depressus, Munst. Sp. (**NEPTUNEA**), d'Orb. Prod. 229. G. *C.*
difficilis, d'Orb. (**NEPTUNEA**), Voy. dans. Am. Mer. 118, 12,
 11-12.
Dupinianus, d'Orb. P. F. 334, 222, 6, 7. Fr. *G.*
Durvillei, d'Orb. (**PERISSOLAX**), Voy. Astrolabe, pl. 5, f. 1.
elegans, Desh. Sp. (subelegans), d'Orb. P. F. 337, 222, 4, 5.
Ellerii, Con. Lynch's Exped. 226, 16, 82. Syria. *C.*
Espallaci, d'Orb. P. F. 340, 224. Fr. *C.*
Eufalensis, Tuomey, 1855, Proc. Acad. p. 169. Ala. *C.*
Fisianus, P. & R. Env. Genève. 273, 26, 5. Fr. *G.*
Fleuriausianus, d'Orb. P. F. 343, 226, 1. Fr. *C.*
 ? *flexuicostatus*, M. & H. 1856, Proc. Acad. p. 66. Nebraska. *C.*
fluctuosus, Forbes, Sp. (**Murex**), d'Orb. Prod. 230. India. *C.*

- Fontanieri*, d'Orb. (GLADIUS palliatus), Astrolabe, pl. 5, f. 6, 7.
Forbesianus, d'Orb. Prod. 229. India. C.
Galathea, d'Orb. Prod. 155. Fr. U. G.
Galpinianus, M. & H. 1856, Proc. Acad. p. 65. Nebraska. C.
Gaultinus, d'Orb. P. F. 335, 223, 1. Fr. G.
Haleanus, d'Orb. (NEPTUNEA), Prod. 228.
Haydeni, Evans & Shum. (Culbertsonii), Trans. Acad. St. Louis, 1860, p. 91.
Hombroiana, d'Orb. (PERISSOLAX), Voy. Astrol. pl. 1, f. 31.
indecisus, d'Orb. Prod. 133. Fr. G.
infracretaceus, d'Orb. (NEPTUNEA), 332, 222, 2-5.
intertextus, M. & H. 1857, Proc. Acad. 139. Nebraska. C.
Itierianus, d'Orb. P. F. 336, 223, 2, 3. Fr., G. G.
longirostra, d'Orb. Sp. (PERISSOLAX), Prod. 229.
Marrotianus, d'Orb. P. F. 342, 225, 2. Fr. C.
Mullicaensis, Gabb (*Pleurotoma*), 1861. N. J. C.
muricatus, Sow. (CERITH. peregrinorsum), G. T. 2d s. vol. iv, pl. 39, f. 25.
Neocomiensis, d'Orb. P. F. 331, 222, 1. Fr. N.
Neptuni, d'Orb. (NEPTUNEA), Prod. 291.
Nereidis, Munst. in Goldf. Petrif. vol. iii, 24, 171, 20. G. C.
Nereis, d'Orb. (NEPTUNEA), Prod. 228.
nodosus, Reuss. (Fleuriausianus), B. Kreid. pl. 10, f. 1.
ornatus, d'Orb. (NEPTUNEA), P. F. 333, 222, 11-13.
Newberryi, M. & H. (PYRIFUSUS?), 1857, Proc. Acad. p. 66.
planulatus, Roem. Sp. (*Pyrula*), d'Orb. Prod. 228. G. C.
? Pedernalis, Roem. Kreid. Tex. 38, 4, 13. Texas. C.
ponderosus, d'Orb. (NEPTUNEA), Voy. Astrol. pl. 2, f. 33.
Pondicherriensis, Forbes, Sp. (*Murex*), d'Orb. Prod. 230. India. C.
propinquus, Munst. in Goldf. Petrif. Germ. 23, 171, 16. G. C.
Proserpinae, Munst. ibid. 23, 171, 17. G. C.
purpuriformis, Forbes, Sp. (*Voluta*), d'Orb. Prod. 229. India. C.
quadratus, Sow. M. Con. 410. E., G. U. G.
Renauxianus, d'Orb. P. F. 339, 223, 10. Fr. C.
Requienianus, d'Orb. P. F. 342, 225, 3. Fr. C.
retifer, Gabb, 1860, Jour. Acad. vol. iv, 2d s. 301, 48, 11. N. J. C.
rigidus, Sow. in Fitt. G. T. 2d s. vol. iv, pl. 18, f. 16. E. U. G.
Royanus, d'Orb. Prod. 228. Fr. C.
rusticus, Sow. in Fitt. G. T. 2d s. vol. iv, pl. 18, f. 18. E. U. G.
rusticus, d'Orb. not Sow. (Gaultinus), P. F. 335, 223, 1.
Sabaudinus, P. & R. Env. Genèv. 273, 26, 7. Fr. G.

Scarboroughii, M. & H. 1857, Proc. Acad. p. 139. Nebraska. *C.*
 semicostatus, Munst. Sp. (*Conus*), P. Germ. 14, 169, 2. *G.* *C.*
 semiplicatus, Munst. Sp. (*Pleurotoma*), Germ. 20, 170, 11. *G.* *C.*
 Smithii, Sow. Sp. (*Pyrula*), d'Orb. Prod. 133. *E.* *G.*
 subabbreviatus, Sow. Sp. (*Pyrula*), d'Orb. Prod. 228. *G.* *C.*
 Shumardi, H. & M. Mem. Acad. Boston, 2d s. vol. v, 391, 3,

6. Nebraska. *C.*

subbilineatus, d'Orb. Prod. 133. *Fr.* *G.*
 subbuccinoides, d'Orb. Prod. 229. *India.* *C.*
 subcancellatus, d'Orb. Prod. 229. *India.* *C.*
 subcarinella, d'Orb. Prod. 228. *G.* *C.*
 subcarinifer, d'Orb. Prod. 229. *G.* *C.*
 subclathratus, d'Orb. Prod. 155. *E.* *U. G.*
 subcostatus, d'Orb. Prod. 228. *G.* *C.*
 subdecussatus, d'Orb. Prod. 134. *Fr.* *G.*
 subelegans, d'Orb. Prod. 133. *Fr.* *G.*
 subheptagonus, d'Orb. Prod. 228. *G.* *C.*
 subincertus, d'Orb. Prod. 229. *India.* *C.*
 subplicatus, d'Orb. Prod. 228. *G.* *C.*
 subsemicostatus, d'Orb. Prod. 228. *G.* *C.*
 subsemiplicatus, d'Orb. Prod. 229. *G.* *C.*
 subturritus, M. & H. 1857, Proc. Acad. 139. *Neb.* *C.*
 suturalis, Munst. Sp. (*Pleurotoma*), d'Orb. Prod. 229. *G.* *C.*
 Tippiana (us), Con. 1860, Jour. Acad. 2d s. vol. iv, 286, 46,

42. *Ala.* *C.*

? tenuilineatus, H. & M. Mem. Acad. Bost. 2d s. vol. v, 394,
 3, 9. Nebraska. *C.*

trunculus, P. & R. Env. Genev. 271, 26, 4. *Fr.* *G.*

trivulous, Gabb (*PERISSOLAX*), Proc. Acad. 1860, 94, 2, 5.

turritellatus, d'Arc. Sp. (*Turbo*), M. G. S. T. 2d s. vol. ii,
 190, 12, 11. *Fr.* *C.*

Vaughani, M. & H. 1857, Proc. Acad. 138. *Neb.* *C.*

Vibrayeanus, d'Orb. P. F. 338, 223, 6, 7. *Fr.* *G.*

vinculum, M. & H. (*Buccinum*), 1860, Proc. Acad. 183. *Ne-*
braska. *C.*

Holmesianus, Gabb, 1860, Jour. Acad. vol. iv, 389, 68, 4. *Ala.* *C.*

GLADIUS, Klein, 1753 (*Rostellaria*, Lam. 1799).

acutus, d'Orb. Sp. (*Rostellaria*), Gabb, 1861. *Fr.* *N.*

acutirostrus, Pusch. Sp. " " *G.* *C.*

Aegion, d'Orb. Sp. (Rostellaria), Gabb, 1861.	G.	U. G.
Alpinus, d'Orb. Sp. " "	Fr.	U. G.
Americanus, d'Orb. Sp. " "	N. Gren.	N.
angulosus, d'Orb. Sp. " "	N. Gren.	N.
anserinus, Nils. Sp. " "	G., Sweden.	C.
Aonis, d'Orb. Sp. " "	Fr.	U. G.
arenarum, Morton, Sp. " "	N. J., Ala.	C.
Astierianus, d'Orb. Sp. " "	Fr.	N.
Boussingaultii, d'Orb. Sp. " "	N. Grenada.	N.
Buchii, Munst. Sp. (Chenopus), " "	G.	C.
calcaratus, Sow. Sp. (Rostellaria), " "	E.	U. G.
carinatus, Mant. Sp. " "	E., Fr.	G.
carinellus, d'Orb. Sp. " "	G., Fr.	G.
? Cheyennensis, M. & H. Proc. Acad. 1860, p. 422.	Nebraska.	C.
cingulatus, P. & R. Sp. (Rostellaria), Gabb, 1861.	Fr.	G.
coarctatas, Geinitz, Sp. " "	G.	C.
collinus, Con. Sp. " "	Syria.	C.
compositus, Phil. Sp. " "	E.	L. G.
costae, Sharpe, Sp. " "	Portugal.	
	" <i>Lower Cret.</i> "	
costatus, Sow. Sp. " "	G.	C.
Delucii, P. & R. Sp. " "	Fr.	G.
divaricatus, Reuss, Sp. " "	G.	C.
Drunensis, d'Orb. Sp. " "	Fr.	G.
elator, d'Orb. Sp. " "	India.	C.
elongatus, Sow. Sp. " "	E.	G.
emarginulatus, Gein. Sp. " "	G.	
fusiformis, P. & R. Sp. " "	Fr.	G.
Gargasianus, P. & R. Sp. " "	Fr.	G.
Geinitzii, d'Orb. Sp. " "	G.	U. G.
glabrus, Forbes, Sp. " "	E., Fr.	L. G.
granulatus, Sow. Sp. " "	G.	C.
Grasianus, P. & R. Sp. " "	Fr.	G.
inornatus, d'Orb. Sp. " "	Fr.	U. G.
irregularis, d'Orb. Sp. " "	Fr.	N.
Itierianus, d'Orb. Sp. " "	Fr.	G.
læviusculus, Sow. Sp. " "	G.	C.
Mailleanus, d'Orb. Sp. " "	Fr.	U. G.
Megaera, d'Orb. Sp. " "	E., G.	U. G.
megaloptera, Reuss, Sp. " "	G.	C.
Moutonianus, d'Orb. Sp. " "	Fr.	N.

Muletii, d'Orb. Sp.	(Rostellaria), Gabb, 1861.	Fr.	G.
mucronatus, d'Orb. Sp.	" "	G.	U. G.
Neckerianus, P. & R. Sp.	" "	Fr.	G.
Nereis, d'Orb. Sp.	" "	Fr.	U. G.
Moulenianus, d'Orb. Sp.	" "	Fr.	C.
Orbignyanus, P. & R. Sp.	" "	Fr.	G.
ornatus, d'Orb. Sp.	" "	Fr.	C.
Parkinsonii, Mant. Sp.	" "	E., Fr., G.	G.
pennatus, Morton, Sp.	" "	Del., N. J., Ala.	C.
provincialis, d'Orb. Sp.	" "	Fr.	N.
pseudosubulatus, d'Orb. Sp.	" "	G.	G.
Pyrenaicus, d'Orb. Sp.	" "	Fr.	C.
Requienianus, d'Orb. Sp.	" "	Fr.	C.
Reussi, Geinitz, Sp.	" "	G.	U. G.
Robinaldinus, d'Orb. Sp.	" "	Fr.	N.
rostratus, Gabb,	" "	N. J., Ala.	C.
Royerianus, d'Orb. Sp.	" "	Fr.	N.
scalaris, d'Orb. Sp.	" "	Fr.	N.
Schlotheimii, Reuss, Sp.	" "	G.	C.
securiferus, Forbes, Sp.	" "	India.	C.
semilineatus, Goldf. Sp. (Pleurotoma), Gabb, 1861.		G.	C.
simplex, d'Orb. Sp. (Rostellaria), Gabb, 1861.		Fr.	C.
striatus, Goldf. Sp.	" "	G.	C.
subcompositus, d'Orb. Sp.	" "	E.	L. G.
subelongatus, d'Orb. Sp.	" "	E., Fr.	C.
submarginatus, d'Orb. Sp.	" "	Fr.	G.
subsubulatus, d'Orb. Sp.	" "	G.	C.
tenuistriatus, Reuss, Sp.	" "	G.	C.
Timotheanus, P. & R. Sp.	" "	Fr.	G.
tricostatus, d'Orb. Sp.	" "	Fr.	G.
turritus, Roem. Sp. (Buccinum), Gabb, 1861.		G.	C.
varicosus, d'Orb. Sp. (Rostellaria), Gabb, 1861.		Fr.	U. G.
Varusensis, d'Orb. Sp.	" "	Fr.	N.
Vespertilis, Munst. Sp.	" "	G.	C.
Westphalicus, d'Orb. Sp.	" "	G.	C.

GLOBICONCHA, d'Orb. 1843.

coniformis, Roem. Kreid. Tex. 42, 4, 5. Texas.	C.
elevata, Shumard, Marcy's Rep. 208, 4, 3. Tex., Indian Terr.	C.
elongata, d'Orb. Prod. 220. Fr.	C.
Fleuriausa, d'Orb. P. F. 144, 169, 18. Fr.	C.

Marrotiana, d'Orb. P. F. 145, 170, 1, 2.	Fr.	C.
*oliva, d'Orb. Prod. 220.	Ala.	C.
ovula, d'Orb. P. F. 145, 173, 3.	Fr.	C.
planata, Roem. Kreid. Tex. 41, 4, 6.	Texas.	C.
rotundata, d'Orb. P. F. 143, 169, 17.	Fr.	U. G.
tumida, Shumard, Marcy's Rep. 208, 5, 3.	Texas.	C.

HARPAGO, Klein. 1753 (**Pterocera**, Lam. 1799.)

Beaumontianus, d'Orb. Sp. (Pterocera), Gabb, 1861.	Fr.	N.
bicarinatus, d'Orb. Sp.	" "	Fr. G.
carinellus, P. & R. Sp.	" "	Fr. G.
Collegnii, d'Arc. Sp.	" "	Fr. U. G.
Dupinianus, d'Orb. Sp.	" "	Fr. N.
Emericii, d'Orb. Sp.	" "	Fr. N.
Fittonii, Forbes, Sp.	" "	E., Fr. L. G.
Gaultinus, P. & R. Sp. (Pterodonta), Gabb, 1861.	Fr.	G.
inflatus, d'Orb. Sp. (Pterocera), Gabb, 1861.	Fr.	U. G.
marginatus, d'Orb. Sp.	" "	Fr. U. G.
Moreausianus, d'Orb. Sp.	" "	Fr. N.
Neocomiensis, d'Orb. Sp.	" "	Fr. N.
Pelagi, Brong. Sp. (Strombus), Gabb, 1861.	Fr., G.	N.
polycerus, d'Orb. Sp. (Pterocera), Gabb, 1861.	Fr.	U. G.
pseudobicarinatus, d'Orb. Sp.	" "	G. C.
pseudoretusus, d'Orb. Sp.	" "	Fr. G.
retusus, Sow. Sp. (Rostellaria), Gabb, 1861.	E., G.	G.
Rochatianus, d'Orb. Sp. (Pterocera), Gabb, 1861.	Fr.	N.
speciosus, d'Orb. Sp.	" "	Fr. N.
supracretaceus, d'Orb. Sp.	" "	Fr. C.
Tippanus, Con. Jour. Acad. 2d s. vol. iii, 331, 35, 25.	Miss.	C.
Toucasianus, d'Orb. Sp. (Pterocera), Gabb, 1861.	Fr.	C.
tricarinatus, d'Orb. Sp.	" "	Fr. N.
Verneuili, d'Orb. Sp.	" "	Fr. U. G.

HELClON, Montf. 1810.

<i>alveolatus</i> , M. & H. (ANISOMYON), Proc. Acad. 1856, p. 68.	
angulosa, Gein. Sp. (Patella), d'Orb. Prod. 232.	G. C.
borealis, Morton, Sp. (ANISOMYON), Gabb, Cat. Cret. 1859, p. 7.	

* It is to be regretted that M. d'Orbigny did not give more extended descriptions in his Prodrome. He says of this species: "Petite espèce de la forme d'une olive, lisse." There may be a dozen species to which that might apply.

- campanulata, Reuss, Sp. (**Patella**), d'Orb. Prod. 193. G. C.
 carinatus, M. & H. (*A. borealis*), Proc. Acad. 1856, p. 68.
 conica, d'Orb. Prod. 134. Fr. G.
 corrugata, Forbes, Sp. (**Patella**), d'Orb. Prod. 232. India. C.
 dimidiata, Reuss, Sp. (**Acmaea**), d'Orb. Prod. 232. G. C.
 Gaultina, P. & R. Sp. (**Acmaea**), d'Orb. Prod. 135. Fr. G.
 Hebertiana, d'Orb. Prod. 293. Fr. Danien.
 inflata, P. & R. Sp. (**Acmaea**), d'Orb. Prod. 232. Fr. G.
 lamellosa, Koch, Sp. (**Patella**), d'Orb. Prod. 72. G. N.
 Martinianus (a), d'Orb. Prod. 105. Fr. N.
 orbis, Roem. Sp. (**Patella**), d'Orb. Prod. 232. G. C.
 patelliformis, M. & H. (ANISOMYON), 1856, Proc. Acad. 68.
 *pelagi, d'Orb. Prod. 156. Fr. U. G.
 Reussii, Gein. Sp. (**Acmaea**), d'Orb. Prod. 232. Fr., G., India. C.
 semistriata, Reuss, Sp. (**Patella**), d'Orb. Prod. 232. G. C.
 sexsulcatus, M. & H. (ANISOMYON), 1856, Proc. Acad. p. 68.
 subcentralis, d'Arc. Sp. (**Acmaea**), d'Orb. Prod. 156. Fr. U. G.
 subovatus, M. & H. (ANISOMYON), 1856, Proc. Acad. p. 68.
 subtenuicosta, d'Orb. Prod. 193. G. C.
 tentorium, Morton, Sp. (**Patella**), d'Orb. Prod. 232. N. J. C.
 tenuicosta, Mich. Sp. (**Patella**), d'Orb. P. F. 398, 235, 7-10. Fr. G.
 tenuicosta, Reuss, not d' Orb. (subtenuicosta), B. Kreid. 110, 44, 11.

HELICOCRYPTUS, d'Orb. 1847.

- radiatus, Sow. Sp. (**Planorbis**), d'Orb. Prod. 151. E., Fr. U. G.

HELIX, Mull. 1774.

- Gentii, Sow. (NATICA Gaultiana), M. Con. 145.

Hipponyx, Deifr. 1819.

- borealis, Morton (ANISOMYON), Jour. Acad. 1st s. vol. viii, p. 210.

INFUNDIBULUM, Montf. 1810.

- cretaceum, d'Orb. P. F. 390, 234, 1-3. Fr. C.
 supracretacea (um), d'Orb. Prod. 292. Fr. Danien.

* "Coquille lisse très-évasee!" Can this be identified?

LITTORRINA, Ferrus. 1821.

- decussata*, Leym. (TURBO), M. G. S. F. vol. v, 13, 17, 6.
elegans, Leym. (TURBO), id. 14, 17, 7.
gracilis, Sow. *not Brocchi* (Fittoni), G. T. 2d s. vol. iv, pl. 18, f. 12.
 Fittoni (ii), d'Orb. Sp. (Turbo), Gabb, 1861. E. U. G.
monilifera, Sow. G. T. 2d s. vol. iv, pl. 18. E. U. G.
plicatilis, Desh. in Leym. (GLADIUS Parkinsonii, *juv.*), M. G. S. F. 2d s. vol. v, 17, 17, 8.
pungens, Sow. (NATICA), G. T. 2d s. vol. iv, pl. 18, 5.
Roissyi, d'Arc. (TURBO), M. G. S. F. 337, 23, 3, vol. ii, 2d s.
sculpta, Reuss (T. subsculpta), B. Kreid. 49, 10, 16.

LUNATIA, Gray, 1847.

- Halli, Gabb, Jour. Acad. 2d s. vol. iv, 391, 68, 11. N. J. C.
 Moreauensis, M. & H. (Natica), *ibid.* 422. Neb. C.
 Occidentalis, M. & H. (Natica), Proc. Acad. 1860, 422. Neb. C.
 subcrassa, M. & H. (Natica), Proc. Acad. 1860, p. 422. Neb. C.
 Texana, Con. Sp. (Natica), Gabb, 1861. Tex. C.

MARGARITA, Meek & Hayden, 1860.

- flexuistriata*, E. & S. Sp. (Solarium), M. & H. 1860, Proc. Acad. 423. Neb. C.
 Nebrascensis, M. & H. (Turbo), 1856, Proc. Acad. p. 64. Neb. C.

Melania, Lam. 1799.

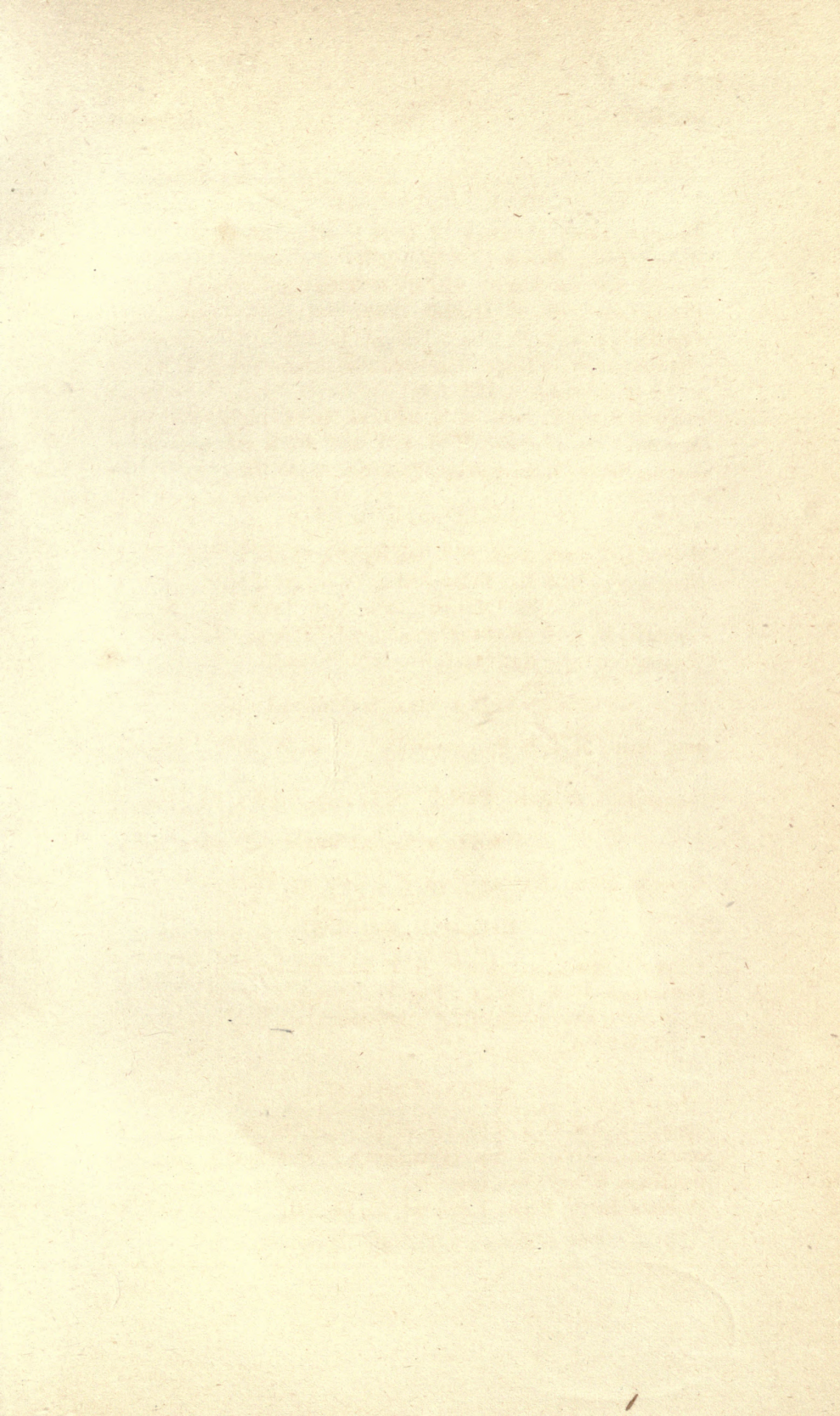
- decorata*, Roem. (SCALA), Nord. Kreid. 82, 12, 11.

Melanopsis, Ferr. 1807.

- attenuata*, Sow. (CERITHIUM), G. T. 2d s. vol. iv, 178, 22, 5.
Clementina, Mich. (SCALA), Mag. Zool. Comp. 4, pl. 39.
tricarinata, Sow. (CERITHIUM subtricarinatum), G. T. vol. iv, 178, 22, 4.

MITRA, Humph. 1797.

- cancellata*, Sow. G. T. 2d s. vol. iii, pl. 39, f. 30. G. C.
cancellata, d'Orb. *not Sow.* (Cassisiiana), P. F. 329, 221, 5.
 Cassisiiana, d'Orb. Prod. 154. U. G.
clathrata, Reuss, Böhm. Kreid. 44, 11, 13. G. C.



- Requieni, d'Orb. Prod. 154. Fr. U. G.
 reticulata, Roem. Sp. (*Cerithium*), d'Orb. Prod. 226. G. C.
 Roemeri, Reuss, Sp. (*Fasciolaria*), d'Orb. Prod. 226. G. C.
 Vignyensis, d'Orb. Prod. 291. Fr. Danien.

Monodonta, Lam. 1799.

trochleata, Dujard. (TURBO), M. G. S. F. vol. ii, 231, 17, 5.

MOREA, Con. 1860.

- cancellaria*, Con. Jour. Acad. 2d s. vol. iv, 290, 46, 30. Miss. C.
naticella, Gabb, id. 301, 48, 15. N. J. C.

MUREX, Linn. 1758.

- calcar*, Sow. (FUSUS), M. Con. 410.
fluctuosus, Forbes (FUSUS), G. T. 2d s. vol. vii, 126, 13, 19.
Genevensis, P. & R. (FUSUS), Env. Genève. 269, 26, 3.
Pondicherriensis, Forbes (FUSUS), G. T. 2d s. vol. vii, 127, 13, 20.
 ? *Trinchinopolitensis*, Forbes, G. T. 2d s. vol. vii, 127, 15, 7. India. C.

NARICA, d'Orb. 1841.

- carinata*, Sow. Sp. (*Natica*), d'Orb. Prod. 150. E. U. G.
Cretacea, d'Orb. P. F. 180, 175, 7-10. Fr. U. G.
Genevensis, P. & R. Env. Genève. 188, 18, 5. Fr. G.
granosa, Sow. Sp. (*Natica*), d'Orb. Prod. E. U. G.

NASSA, Lam. 1799.

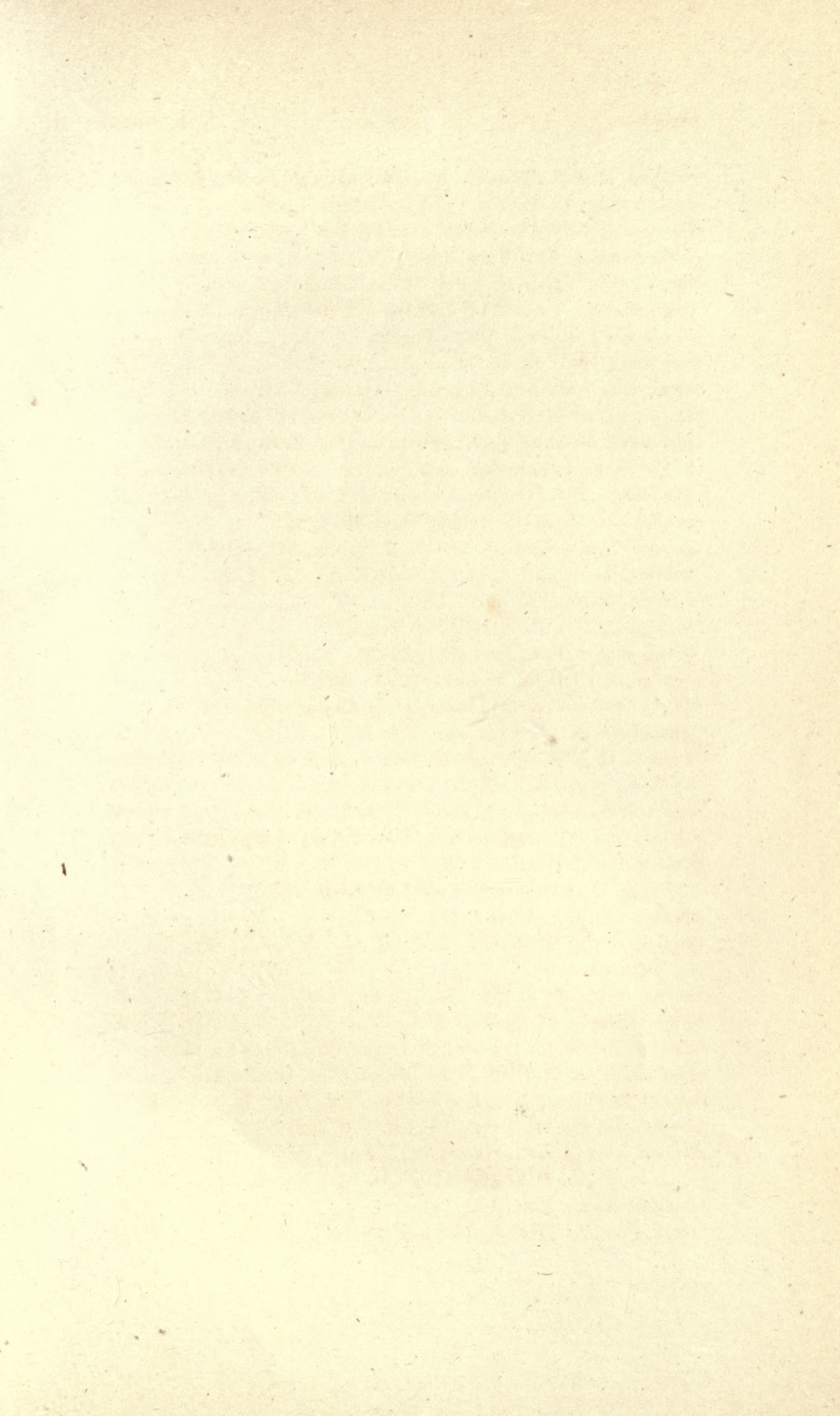
- affinis*, Sow. (CERITHIUM), G. T. 2d s. vol. iii, pl. 39, 29.
carinata, Sow. (CERITHIUM), id. pl. 39, f. 28.
costellata, Sow. (CERITHIUM), id. pl. 18, f. 26.
lineata, Sow. (BUCCINUM pseudolineatum), id. pl. 18, f. 25.

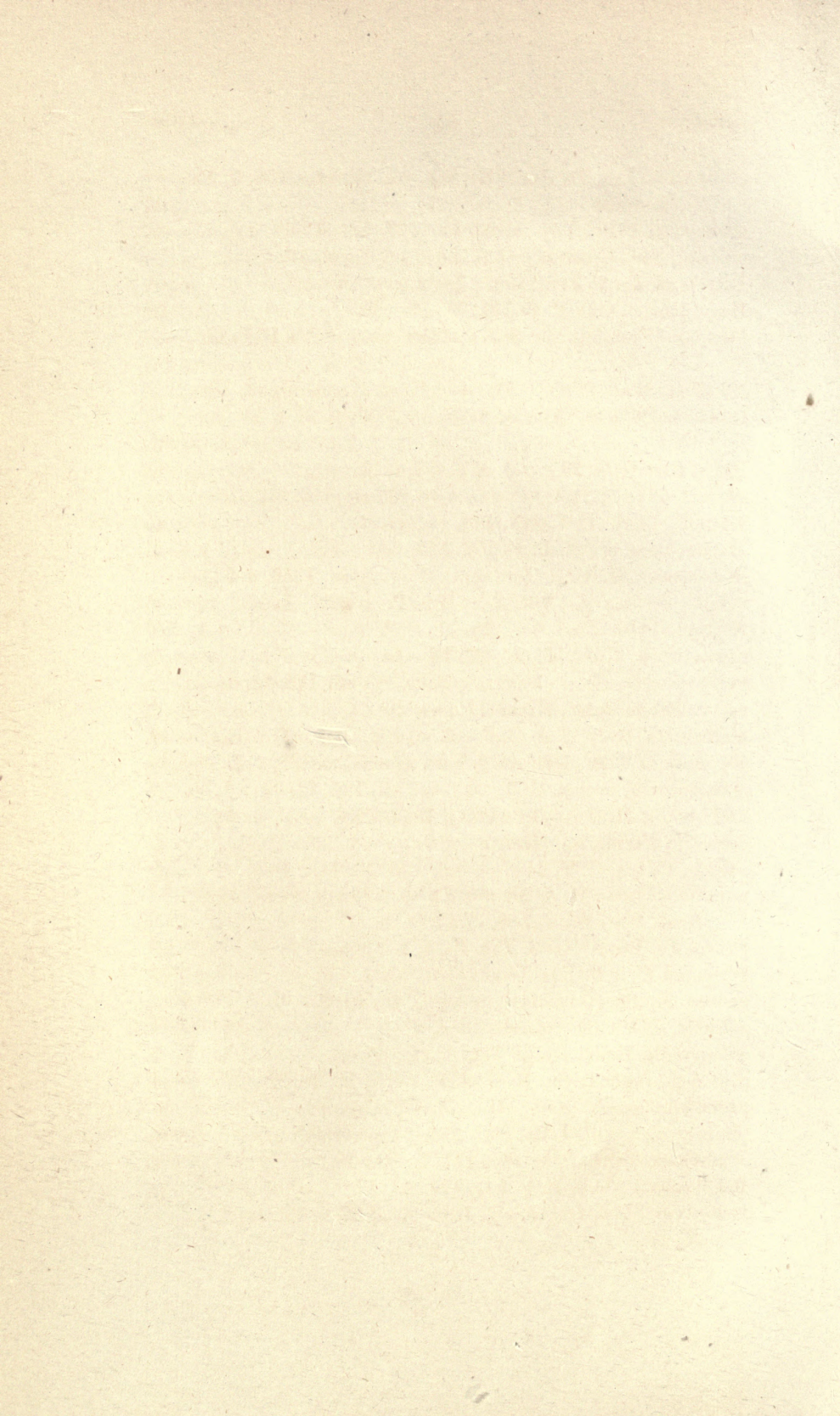
NATICA, Adanson, 1757.

- abyssina*, Morton, Sp. (GYRODES), Syn. 49, 13, 3.
acutimargo, Roem. (Gaultiana), Nord. Kreid. 83, 12, 14.
acutispira, Shum. Trans. St. Louis Acad. 1860, p. 597. C.
affinis, d'Orb. (pagoda), Voy. Astr. pl. 4, f. 3.
Allaudiensis, Math. (bulimoides), Catalogue.
alveata, Con. (GYRODES), Jour. Acad. 2d s. vol. iv, p. 289, 46, 45.

- ambigua*, M. & H. (FOSSAR? *Nebrascensis*), Proc. Acad. 1856, p. 66.
angulata, Sow. G. T. 2d s. vol. iii, pl. 38, f. 12. G. C.
Araucana, d'Orb. Am. Merid. 115, 12, 4-5. Chili. C.
Arduennensis, d'Orb. Prod. 129. Fr. G.
Auca, d'Orb. Voy. Astr. pl. 4, 22-23. Chili. C.
Australis, d'Orb. Am. Merid. 115, 14, 3-5. Chili. C.
Bogotina, d'Orb. Prod. 104. Bogota. C.
Bruguierii, Math. Catal. 230, 39, 1. Fr. N.
bulbiformis, Sow. G. T. 2d s. vol. iii, pl. 12, f. 38. G. C.
bulbiformis, d'Orb. *not* Sow. (subbulbiformis), P. F. 162, 174, 3.
bulimoides, Desh. Sp. (**Ampullaria**), d'Orb. P. F. 153, 172, 2,
 3. France, Portugal. N.
canaliculata, Sow. (Gaultina), in Fitt. G. T. 2d s. vol. iv, pl. 11, f. 12.
canaliculata, Gein. (Geinitzii), Nach. 10, 1, 20.
carinata, Sow. (NARICA), Fitt. G. T. vol. iv, 241, 18, 8.
carinata, Roem. (subcarinata), Nord. Kreid. 83, 12, 15.
Carteroni, d'Orb. Prod. 68. Fr. N.
Cassiana, d'Orb. P. F. 166, 175, 1-4. Fr. U. G.
Chilina, d'Orb. Voy. Astr. pl. 1, 24-26. Chili. C.
Clementina, d'Orb. P. F. 154, 172, 4. Fr., G. G.
collina, Con. (LUNATIA *Texana juv.*?), Emory's Rep. 157, 13, 2.
Coquandiana, d'Orb. P. F. 151, 171, 1. Fr. N.
concinna, H. & M. Mem. Acad. Boston, 2d s. vol. v, 389, 3, 2.
 Neb., Miss., Ala., N. J., Tenn. C.
Cornuillian, d'Orb. P. F. 150, 170, 4, 5. Fr. N.
crenata, Con. (GYRODES), Jour. Acad. 2d s. vol. iv, p. 289.
cretacea, Goldf. Petrif. vol. iii, 119, 199, 12. G. C.
dichotoma, Geinitz, Nacht. Kreid. 10, 1, 19. G. C.
difficilis, d'Orb. P. F. 163, 174, 4. Fr. U. G.
Dupinii, Leym. M. G. S. F. 2d s. vol. v, p. 13, 16, 7. Fr., E.,
 Portugal. G., C.
Ervyna, d'Orb. P. F. 159, 173, 7. Fr., G. G.
Eseragnollensis, d'Orb. Prod. 104. Fr. N.
exaltata, Goldf. (Clementina), P. Germ. 120, 199, 13.
excavata, Mich. M. G. S. F. vol. iii, pl. 12, f. 4. Fr., G. G.
extensa, Sow. Sp. (**Vivipara**), d'Orb. Prod. 150. E. U. G.
fasciata, Goldf. (subfasciata), Petrif. 120, 199, 14.
Favrina, P. & R. Env. Genève. 181, 17, 4. Fr. G.
Gaultina, d'Orb. P. F. 156, 173, 3, 4. E., Fr., G. G.
Geinitzii, d'Orb. Prod. 150. G. U. G.
Gentii, Sow. Sp. (**Helix**), d'Orb. Prod. 150. E, Fr. U. G.







- Gibboniana, Lea, Tr. Am. Phil. Soc. vol. vii, 2d s. 256, 9, 10.
 N. Grenada. *N.*
- Grangeana, d'Orb. Voy. Astrol. pl. 1, 18, 19. Chili. *C.*
- granosa*, Sow. (NARICA), G. T. 2d s. vol. iv, pl. 18, f. 7.
- Hispanica, d'Orb. Prod. 150. Spain, near Oviedo. *U. G.*
- Hugardiana, d'Orb. P. F. 151, 171, 2. Fr. *N.*
- laevigata*, Desh. Sp. *not Sow.* (sublaevigata), d'Orb. P. F. 148, 170, 6-7.
- lamellosa*, Roen. (PHASIANELLA?), Nord. Kreid. 83, 12, 13.
- Lusitanica, Sharpe, Q. J. G. S. vol. vi, 1849, pl. 24, f. 5. Portugal. *"L. Cret."*
- lyrata, Sow. G. T. 2d s. vol. 3, pl. 38, f. 11. G. *C.*
- Mariae*, d'Orb. (AMAUROPSIS), Voy. Astrol. pl. 3, 32, 33.
- Martinii, d'Orb. P. F. 164, 174, 5. Fr. *C.*
- Matheroniana, d'Orb. P. F. 166, 175, 5-6. Fr. *C.*
- Moreauensis*, M. & H. (LUNATIA), Proc. Acad. 1856, p. 64.
- munita, Forbes, Sp. (NERITA), d'Orb. Prod. 222. India. *C.*
- Neptuni, d'Orb. Prod. 68. Fr. *N.*
- nodosa, Gein. Kreid. 47, 15, 27, 28. G. *C.*
- nodoso-costata*, Reuss (NERITA), Bohm. Kreid. 113, 44, 21.
- notata, Reuss. Bohm. Kreid. 118, 44, 20. G. *C.*
- multistriata, Baily, Q. J. G. S. vol. xi, 460, 12, 8. S. Africa. *U. G.*
- obliquata, H. & M. Mem. Acad. Bost. 2d s. vol. v, 389, 3, 1. Neb. *C.*
- obliquestriata, Forbes, G. T. 2d s. vol. vii, 136, 12, 12. India. *C.*
- occidentalis*, M. & H. (LUNATIA), 1856, Proc. Acad. p. 64.
- oviformis, Forbes, Sp. (NERITA), d'Orb. Prod. 222. India. *C.*
- pagoda, Forbes, G. T. 2d s. vol. vii, 136, 12, 14. India. *C.*
- paludinaeformis*, H. & M. *not d'Orb.* (AMAUROPSIS), Mem. Acad. Bost. vol. v, 389, 3, 3.
- Pedernalis, Roem. Kreid. Tex. 43, 4, 1. Texas. *C.*
- perspicua, P. & R. Env. Genève. 187, 18, 4. Fr. *G.*
- petrosa*, Morton (GYRODES), Synopsis, 48, 19, 5.
- petrorsa*, d'Orb. (G. petrosa), Prod. 221.
- praegrandis, Roem. Kreid. Tex. p. 44. Texas. *C.*
- praelonga, Desh. Leym. M. G. S. F. vol. v, 13, 16, 8. Fr. *N.*
- pseudoampullaria*, Math. (Hugardiana), Catalogue.
- pungens, Sow. Sp. (LITTORINA), d'Orb. Prod. 150. E. *U. G.*
- Rauliniana, d'Orb. P. F. 160, 174, 1. G., Fr. *G.*
- Requieniana, d'Orb. P. F. 161, 174, 2. Fr. *C.*
- rectilabrum*, Con. (concinna), Jour. Acad. 2d s. vol. iv, 344, 35, 28.

- Rhodani, P. & R. Env. Genève. 182, 17, 3. Fr. *G.*
 rotundata, Sow. Sp. (*Turbo*), d'Orb. Prod. 150. E. *U. G.*
 Royana, d'Orb. P. F. 165, 174, 6. Fr. *C.*
 rugosa, Hoen. (subrugosa), in Roem. Nord. Kreid. 83, 12, 16.
 rugosissima, Forbes, G. T. 2d s. vol. vii, 137, 14, 7. India. *C.*
 Roemeri, d'Orb. Prod. 222. G. *C.*
 subbulbiformis, d'Orb. Prod. 191. Fr., G. *C.*
 subcarinata, d'Orb. Prod. 221. G. *C.*
 subconica, d'Orb. Prod. 150. E. *U. G.*
 subcrassa, M. & H. (*LUNATIA*), 1856, Proc. Acad. p. 87.
 subfasciata, d'Orb. Prod. 221. G. *C.*
 sublaevigata, d'Orb. Prod. 68. E., Fr. *L. G., N.*
 subrugosa, d'Orb. Prod. 221. G. *C.*
 supracretacea, d'Orb. (*GYRODES*), Prod. 290. Fr. *Danien.*
 suturalis, Sow. (*AMAUROPSIS* Mariae), Forbes, G. T. 2d s. vol.
 vii, 137, 15, 1.
 Texana, Con. (*LUNATIA*), Emory's Rep. 157, 13, 1.
 Toucasiana, d'Orb. Prod. 192. Fr., G. *C.*
 truncata, P. & R. Env. Genève. 185, 18, 2. Fr. *G.*
 tuberculata, d'Orb. Prod. 150. Fr. *U. G.*
 Tuomeyana, M. & H. (*NERITOPSIS*), 1856, Proc. Acad. 270.
 Varusensis, d'Orb. Prod. 150. Fr. *U. G.*
 vulgaris, Reuss, Bohm. Kreid. 50, 10, 22. Fr., G. *U. G.*

NEPTUNEA, Bolt. 1798.

- difficilis, d'Orb. Sp. (*Fusus*), Gabb, 1861. Chili. *C.*
 ? depressa, Munst. Sp. (*Pyrula*), Gabb, 1861. G. *C.*
 infracretacea, d'Orb. Sp. (*Fusus*), " " Fr. *N.*
 Nereis, d'Orb. Sp. " " " Fr. *C.*
 ornata, d'Orb. Sp. " " " Fr. *N.*
 ponderosa, d'Orb. Sp. " " " India. *C.*
 Dakotensis, M. & H. " Proc. Acad. 1860, p. 421. Ne-
 braska. *C.*
 Haleanus, d'Orb. Sp. " Gabb, 1861. Ala. *C.*
 Neptuni, d'Orb. Sp. " " " Fr. *Danien.*
 glabra, Shum. (*Pyrula*), " " Neb. *C.*
 impressa, Gabb, Jour. Acad. vol. iv, 2d s. 389, 68, 5. Ala.,
 Miss., N. J., Tenn. *C.*

NERINEA, Defr. 1825.

Subgenera, *Nerinella*, *Trochalia*, and *Ptygmatis*, Sharpe, 1849.

- acus, Roem. Kreid. Tex. 42, 4, 10. Texas. C.
 Archimedi, d'Orb. P. F. 78, 158, 3-4. Fr., Portugal. N.
 (T.) annulata, Sharpe, 1849, Q. J. G. S. 112, 13, 1. Port. C.
 Aunisiana, d'Orb. P. F. 86, 160, 8, 9. Fr. U. G.
 Bagua, d'Orb. P. F. 91, 162, 1-2. Fr. U. G.
 bicincta, Brown, Goldf. Petrif. vol. iii, 46, 117, 5. G. C.
 (P.) bifurcata, d'Orb. P. F. 84, 160, 4-5. Fr. N.
 ? brevis, d'Homb. Firm. in d'Orb. P. F. 92, 162, 3-4. Fr. C.
 Bronni (ii), Munst. in Goldf. 46, 177, 4. G. C.
 Carteroni (ii), d'Orb. P. F. 83, 160, 1, 2. Fr. N.
 ? cesticulosa, Math. Sp. (*Turritella*), d'Orb. Prod. 191. Fr. C.
 Chamousseti (ii), d'Orb. P. F. 79, 159, 1, 2. Fr. N.
 (P.) Conimbrica, Sharpe, Q. J. G. S. vol. vi, 114, 13, 4. Por-
 tugal. "Lower Cret." C.
 Coquandiana, d'Orb. P. F. 75, 156, 3, 4. Fr. N.
 crenata, Munst. Goldf. P. Germ. 46, 117, 2. G. C.
 cretacea, Con. Lynch's Exped. 227, 16, 35. Syria. C.
 dubia, d'Arc. M. G. S. F. 2d s. vol. ii, 344, 25, 4. Fr. U. G.
 (N.) Dupiniana, d'Orb. P. F. 81, 159, 5-8. Fr. N.
 (P.) Eschwegii, Sharpe, Q. J. G. S. vol. vi, 113, 13, 2. Por-
 tugal. C.
Espallaciana, d'Orb. (bisulcata), P. F. 99, 164, 2.
 (P.) Fleuriausa, d'Orb. P. F. 85, 160, 6, 7. Fr. U. G.
 flexuosa, Sow. G. T. 2d s. vol. iii, pl. 38, f. 16. G. C.
 Geinitzii, Goldf. Petrif. 47, 177, 8. G. C.
 gigantea, d'Hombres. Firm. in d'Orb. P. F. 77, 158, 1, 2. Fr.,
 Port. N.
 granulata, Munst. in Goldf. 47, 177, 6. G. C.
 incavata, Brown, ibid. 46, 177, 1. G. C.
 involuta, Voltz, 1835, Jahrb. fur Min. 552, 6, 25. G. C.
 lobata, d'Orb. P. F. 83, 160, 3. Fr. N.
 longissima, Reuss, Bohm. Kreid. 114, 44, 1-4. G. C.
 Marcousana, d'Orb. Prod. 67. Fr. N.
 ? Marrotiana, d'Orb. P. F. 96, 163 bis, 1-2. Fr. C.
 Martiniana, d'Orb. Prod. 103. Fr. N.
 (N.) Matronensis, d'Orb. P. F. 82, 159, 9-10. Fr. N.
 monilifera, d'Orb. P. F. 95, 163, 4-6. Fr. U. G.

- (P.) *Olisiponensis*, Sharpe, Q. J. G. S. vol. vi, 114, 13, 3. Portugal. *C.*
nobilis, Goldf. pl. 177, f. 9. G., Portugal. *C.*
Pailletteana, d'Orb. P. F. 88, 161, 1-3. Fr. *C.*
pauperata, d'Orb. P. F. 90, 161, 6-7. Fr. *C.*
Perigordiana, d'Orb. (CERITHIUM), P. F. 96, 163 bis, 3, 4.
Podolica, Pusch. Polens. Pal. 113, 10, 17. Poland. *C.*
pulchella, d'Orb. *not Brown* (subpulchella), P. F. 89, 161, 4, 5.
regularis, d'Orb. P. F. 87, 160, 10. Fr. *U. G.*
Renauxiana, d'Orb. P. F. 76, 157. Fr. *N.*
Requieniana, d'Orb. P. F. 94, 163, 1, 3. Fr., G. *C.*
(N.) *Royeriana*, d'Orb. P. F. 80, 159, 3, 4. Fr. *N.*
Schotti (ii), Con. Emory's Rep. 158, 14, 3. Texas. *C.*
(N.) *subaequalis*, d'Orb. P. F. 93, 162, 5. Fr. *C.*
(N.) *subpulchella*, d'Orb. Prod. 219. Fr. *C.*
Texana, Roem. Kreid. Tex. 41, 4, 7. Texas. *C.*
Titan, Sharpe, Q. J. G. S. 1849, vol. vi, 112, 12, 3. Portugal. *C.*
turritellaris, Munst. Goldf. 46, 177, 3. G. *C.*
(T.) *turbinata*, S. *ibid.* 113, 12, 2. Portugal. *"Lower Cret."*
Uchauxiana, d'Orb. P. F. 98, 164, 1. Fr. *C.*
bisulcata, d'Arc. M. G. S. F. 1836. Fr. *C.*
ampla, Goldf. Petrif. 45, 176, 10. E. *C.*
cineta, Goldf. *ibid.* 45, 176, 12. G. *C.*
pyramidalis, Goldf. *ibid.* 45, 176, 11. G. *C.*

NERITA, Arist. Linn. 1758.

- arquata*, Munst. Sp. (Pileopsis), d'Orb. Prod. 222. G. *C.*
Bourgeoisiana, d'Orb. Prod. 192. Fr. *C.*
compacta, Forbes, G. T. 2d s. vol. vii, 122, 15, 6. India. *C.*
costulata, Roem. (NERITOPSIS), Nord. Kreid. 82, 12, 12.
divaricata, d'Orb. Voy. Astrolabe, pl. 7, f. 43, 44. India. *C.*
Fittoni, Sow. Sp. (NERITINA), d'Orb. Prod. 63. E. *Weald.*
Goldfussii, Kefenstein in Goldf. P. Germ. 115, 198, 20. G. *C.*
Mammaeformis, Renaux Sp. (Trochus), d'Orb. Prod. 104. Fr. *N.*
munita, Forbes (NATICA), G. T. 2d s. vol. vii, 122, 12, 15.
nodosa-costata, Reuss, Sp. (Natica), Bohm. Kreid. 113, 44, 21.
ornata, Forbes (divaricata), G. T. 2d s. vol. vii, 121, 13, 5.
ornatissima, d'Orb. Prod. 192. Fr. *C.*

- oviformis*, Forbes (NATICA), G. T. 2d s. vol. vii, 122, 12, 13.
plebeia, Reuss, Böhm. Kreid. 112, 44, 18. G. C.
turbinata, Sharpe, Q. J. G. S. vol. vi (1849), 192, 26, 6. Por-
 tugal. "Lower Cret."

NERITINA, Lam. 1809.

- bicornis*, Sharpe, Q. J. G. S. 1849, vol. vi, 192, 24, 7. Por-
 tugal. "Lower Cretaceous."
densata, Con. Jour. Acad. 2d s. vol. iv, 288, 46, 37. Miss. C.
Fittonii, Sow. (NERITA), G. T. 2d s. vol. iv, 178.

NERITOPSIS, Gray, 1840.

- costulata*, Roem. Sp. (Nerita), d'Orb. Prod. 222. G. C.
laevigata, d'Orb. P. F. 177, 176, 11-12. Fr. C.
Mariae, d'Orb. Prod. 69. Fr. N.
Moutoniana, d'Orb. Prod. 104. Fr. N.
ornata, d'Orb. P. F. 176, 176, 8-10. Fr. U. G.
pulchella, d'Orb. P. F. 177, 177 bis, 1-3. Fr. U. G.
Renauxiana, d'Orb. P. F. 175, 176, 5-7. Fr. C.
Robineausiana, d'Orb. P. F. 174, 176, 1, 4. Fr. N.
sublaevigata, d'Orb. Prod. 104. Fr. N.
 ? *Tuomeyana*, M. & H. (Natica), Proc. Acad. 1860, 423. Neb. C.
biangulatus, Shumard, Trans. Acad. St. Louis, 1860, p. 598.
 Texas. C.

OLIVA, Brug. 1789.

- vetusta*, Forbes, G. T. 2d s. vol. vii, 124, 12, 23. a. b. India. C.
Brandaris, d'Orb. (OVULA cretacea juv.), vide Prod. 291.

OVULA, Brug. 1789.

- antiquata*, d'Orb. Voy. Astrol. pl. 4, f. 4, 6. India. C.
bullaria, Lyell, Sp. (Cypraea), d'Orb. Prod. 291. Fr., G. *Danien*.
cretacea, d'Orb. Prod. 291. Fr. "
incerta, d'Orb. Voy. Astrol. pl. 4, f. 7, 8. India. C.
Kayei, Forbes, Sp. (Cypraea), d'Orb. Prod. 225. India. C.
Marticensis, Math. Sp. (Cypraea), d'Orb. Prod. 225. Fr. C.
 ? *ventricosa*, Reuss, Sp. (Strombus), d'Orb. Prod. 192. G. C.

Patella, Linn. 1758.

angulosa, Gein. (HELCION), Nacht. Kreid. 11, 6, 2-4.
campanulata, Reuss (HELCION), Böhm. Kreid. 110, 44, 9.
comosa, Roem. (EMARGINULA), Nord. Kreid. 77, 11, 2.
corrugata, Forbes (HELCION), G. T. vol. vii, 137, 12, 11.
elevata, Forbes (H. Reussii), G. T. vol. vii, pl. 12, f. 10.
laevis, Sow. (HELCION), M. Con. pl. 139, 3, 4.
lamellosa, Koch. (HELCION), Beitr. Zurkenn. Ool. 51, 6, 4.
orbis, Roem. (HELCION), Nord. Kreid. pl. 11, f. 1.
quadrata, Koch. (H. subquadrata), Beitr. Ool. 51, 6, 3.
semistriata, Munst. (HELCION), in Goldf. 7, 167, 12.
tentorium, Morton (HELCION), Synopsis, 50, 1, 11.

Pedipes, Adanson, 1757.

incrassata, Mant. Sp. (AVELLANA), Quenst. Wiegman's Archiv. 3, 249.

PERISSOLAX, Gabb, 1861.*

? *brevissima*, d'Orb. Sp. (**Fusus**), Gabb, 1861. Ala. C.

* It is with considerable reluctance that I propose a new genus in this family ; but I am obliged either to do so, or suggest a modification of the characters of the genus *Fusus* as now understood. There exists a group of shells in the cretaceous formation, of which *Fusus longirostris*, and *F. trivolvus*, may be taken as the types. The species of this group have been referred to various genera, but they all agree in possessing the general characters of *Fusus*, but with a very low spire, patulous body, whorl, and long, straight, slender canal ; in short, they have nearly the form of the genus *TUDICLA* or *HAUSTELLUM*, but have no folds, plates, or teeth on the columella. I have never seen the outer lip, but judging from casts and figures, I believe it to be plain. These shells cannot be referred to *TUDICLA*, *FASCIOLARIA*, or *BUSYCON*, because of the plain columella. The spire is very low, and as now understood the spire of *Fusus* is as long as the aperture. They resemble the genus *PAPILLINA*, Conrad, of which *P. papillata*, Con. (*Fusus id.*) is the type, but that genus has a fold on the columella like *BUSYCON*. *PYRULA* is untenable ; the umbilicus being entirely absent they cannot be referred to *RAPA*, even were the canal short. In view of these considerations, I propose the generic name *PERISSOLAX* (*περισσος*, excessive, and *ωλαξ*, furrow or canal), preferring to separate the species from *Fusus*, rather than dispute the high authority of H. and A. Adams, and others, who maintain that the length of the spire in that genus is of generic value.

This genus seems to be peculiar to the upper members of the cretaceous formation, unless the recent species, *Pyrula coarctata*, Sow., may prove to belong to

Hombroniana, d'Orb. Sp. (Fusus), Gabb, 1861.	Chili.	C.
Durvillei, " " " "	"	C.
longirostris, " " " "	"	C.
octolirata, Con. Sp. (Ficus), Gabb, 1861.	Ala., Miss., N. J.	C.
trivolvæ, Gabb (Fusus), Gabb, 1861.	N. J.	C.
Richardsonii?, Tuomey, Sp. (Pyrula), Gabb, 1861.	Ala.	C.

PHASIANELLA, Lam. 1804.

Beadlei, d'Orb. Prod. 152.	Syria.	U. G.
Ervina, d'Orb. P. F. 234, 188, 1-3.	Fr.	G.
formosa, Sow. G. T. 2d s. vol. iv, pl. 18, f. 14.	E.	U. G.
Gaultina, d'Orb. P. F. 233, 187, 3.	Fr.	G.
Haleana,* d'Orb. Prod. 224.	Ala.	C.
incerta, Forbes (FUSUS subincertus), G. T. vol. vii, 133, 13, 8.		
? lamellosa, Roem. Sp. (Natica), d'Orb. Prod. 224.	G.	C.
lineolata, Reuss (ACTÆON ?), Bohm. Kreid. 49, 10, 19.		
Neocomensis, d'Orb. P. F. 232, 187, 1.	Fr.	N.
ovula, d'Orb. Prod. 130.	Fr.	G.
perovata, Shumard, 1860, Trans. St. Louis Acad. 597.	Texas.	C.
punctata, Gabb, 1860, Jour. Acad. 2d s. vol. iv, 299, 48, 3.		
N. J.		C.
pusilla, Sow. G. T. 2d s. vol. iv, pl. 18, f. 13.	E.	U. G.
Royana, d'Orb. Prod. 224.	Fr.	C.
Sowerbyi, d'Orb. Prod. 152.	E.	U. G.
striata, Sow. (Sowerbyi), G. T. vol. iv, 241, 18, 15, not <i>Striata</i>		
M. Con.		
supracretacea, d'Orb. P. F. 234, 187, 4.	Fr.	C.

PHORUS, Montf. 1810.

canaliculatus, d'Orb. P. F. 180, 176, 13, 14.	Fr.	C.
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it. This is the only species outside of the limits of the chalk, with which I am acquainted, that seems even closely related to it.

Four of the species are found in the upper chalk of North America; the remaining three are from a deposit of the same age in Chili, and they are, in both cases, associated with species of **PUGNELLUS**, another chalk genus.

The characteristic markings are revolving ribs or lines, though some of the species are plain, with subangular whorls. This appears to be the case both with *P. trivolvæ* and *P. longirostris*.

* "Petite espèce bein plus courte que le *Ph. supracretacea*." This is all the description given.

leprosus, Morton, Sp. (**Trochus**), d'Orb. Prod. 222. N. J., Ala. C.
? umbilicatus, Tuomey, 1855, Proc. Acad. vol. vii, 169. Ala. C.

PILEOLUS, Sow. 1823.

cretaceus, d'Orb.* Prod. 150. Fr. U. G.

Pileopsis, Lam. 1812.

arquata, Munst. (**NERITA**), in Goldf. vol. iii, 12, 168, 13.

PITONELLUS, Montf. 1810.

Archiacianus, d'Orb. (**Rotella**), Prod. 151. Fr. U. G.
cretaceus, d'Orb. Voy. Astrolabe, pl. 4, f. 18-21. India. C.

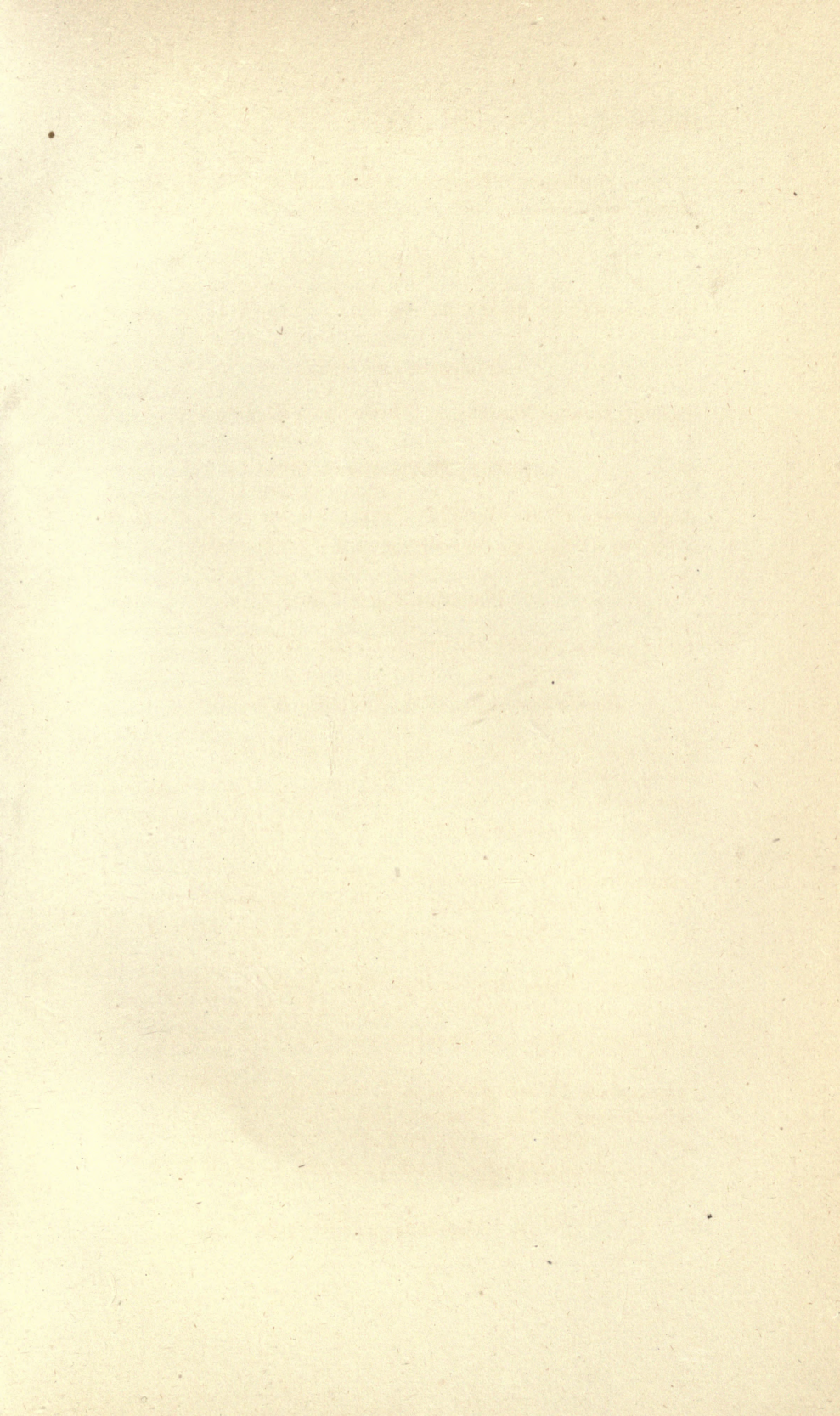
Planorbis, Guett. 1756.

radiatus, Sow. (**HELICOCRYPTUS**), M. Con. 140, f. 5.

Pleurotoma, Lam. 1799 (**TURRIS**, Bolt. 1798).

Araucana, d'Orb. (**TURRIS**), Voy. Astrol. pl. 4, 35, 36.
arata, Gabb (**TURRIS**), ibid. 198, 3, 9.
contorta, M. & H. (**TURRIS**), 1860, Proc. Acad. Phila. p. 183.
fusiforme, Sow. (*subfusiformis*), G. T. 2d s. vol. iii, pl. 39, f. 20
(not Sow. 1823).
induta, Goldf. (**TURRIS**), Petrif. vol. iii, 20, 170, 10.
Orbignyana, Gabb (**TURRIS**), 1860, Proc. Acad. 198, 3, 7.
minor, Evans & Shum. (**TURRIS**), Trans. St. Louis Acad. 1857,
p. 41.
Mullicaensis, Gabb (**FUSUS**), 1860, Proc. Acad. 94, 2, 8.
semilineata, Goldf. (**GLADIUS**), Petrif. vol. iii, 19, 170, 13.
semiplicata, Munst. (**FUSUS subsemiplicatus**), Goldf. Petrif. 20,
170, 11.
spinosa, Sow. (*T. subspinosa*), G. T. vol. iii, pl. 39, f. 21.
subfusiformis, d'Orb. (**TURRIS**), Prod. 230.
subspinosa, d'Orb. (**TURRIS**), Prod. 230.
suturalis, Munst. (**FUSUS**), Goldf. Petrif. vol. iii, 20, 170, 12.

* "Espèce lisse de Sainte Calais (Sarthe)"!



PLEUROTOMARIA, Defr. 1825.

Albensis, d'Orb. P. F. 273. Fr.	G.
Allobrogensis, P. & R. Env. Genève. 240, 23, 3. Fr.	G.
Alpina, d'Orb. P. F. 273. G., Fr.	G.
Astieriana, d'Orb. Prod. 104. Fr.	N.
Anstedi (ii), Forbes, Q. J. G. S. 1845, vol. i, 349, 5, 1. E. L. G.	G.
Barremensis, d'Orb. Prod. 104. Fr.	N.
bifrons, d'Orb. Prod. 154. Fr.	U. G.
Bourgeoisii, d'Orb. Prod. 225. Fr.	C.
Brongniartiana, d'Orb. P. F. 268, 203, 1, 4. Fr.	U. G.
Carteroni (ii), d'Orb. P. F. 273. Fr.	N.
Carthusiae, P. & R. Env. Genève. 235. Fr.	G.
Cassissiana, d'Orb. P. F. 266, 202, 1-4. Fr.	U. G.
contraria, d'Orb. not Koninck. (nondescripta), Prod. 70.	
coronata, P. & R. (Pictetiana), Env. Genève. 241, 23, 4.	
crotaloides, Morton, Sp. (Cirrus), d'Orb. P. F. 225. N. J., Texas, Ala.	C.
Defrancii, Math. Cat. 237, 39, 14. Fr.	N.
dictyota, Reuss (Trochus), Böhm. Kreid. 112, 44, 19.	
depressa, Passy. (perspectiva), Geol. Seine Inf. 335.	
dimorpha, d'Orb. P. F. 246, 191, 5-9. Fr.	N.
disticha, Goldf. Petr. Germ. vol. iii, 76, 187, 5. G.	C.
distincta, Goldf. (Goldfusii), P. G. vol. iii, pl. 187, 1.	
Dumontii, d'Arc. M. G. S. F. 2d s. vol. ii, 342, 24, 3. Fr.	U. G.
Dupiniana, d'Orb. P. F. 245, 191, 1-4. Fr.	N.
elegans, d'Orb. (Astieriana), P. F. 242, 190, 1-4.	
Espallaciana, d'Orb. P. F. 271, 205, 1, 2. Fr.	C.
falcata, d'Orb. P. F. 263, 200, 9-12. Fr.	U. G.
Faucignyana, P. & R. Env. Genève. 232, 22, 2. Fr.	G.
Fittoni, d'Orb. Prod. 70. E.	N.
Fittoni, P. & R. (Rouxii), Env. Genève. 244.	
Fittoni, Roem. (Roemerii), Nord. Kreid. 82, 12, 10.	
Fleuriausa, d'Orb. P. F. 265, 201, 5-6. Fr.	C.
formosa, Leym. M. G. S. F. 2d s. vol. v, pl. 16, f. 12. Fr.	U. G.
funata, Reuss, Böhm. Kreid. 47, 10, 11. G.	C.
Galliennei, d'Orb. P. F. 256, 197, 1-6. Fr.	C.
Gaultina, d'Orb. P. F. 247, 191, 10-11. Fr.	G.
Geinitzii, d'Orb. Prod. 153. G.	U. G.
Gibbsii, Sow. Sp. (Trochus), d'Orb. Prod. 131. E., Fr.	G.

<i>gigantea</i> , Sow. G. T. 2d s. vol. iv, pl. 14, f. 16. E.	N.
<i>gigantea</i> , Geinitz (Geinitzii), Nacht. Kreid. 10, 5, 5.	
<i>gigantea</i> , Goldf. (sub <i>gigantea</i>), P. G. 76, 187, 6.	
Goldfussii, d'Orb. Prod. 225. G.	C.
granulifera, Munst. in Goldf. P. G. 76, 187, 3. G.	C.
Guerangeri, d'Orb. P. F. 272, 205, 3, 6. Fr.	U. G.
Honii, d'Orb. Prod. 154. Fr.	U. G.
<i>Humboldtii</i> , Von Buch. (TURRITELLA), Petrif. Rec. 9, 2, 26.	
Indica, Forbes, G. T. 2d s. vol. vii, 121, 13, 13. India.	C.
Itieriana, P. & R. Env. Genève. 222, 22, 3. Fr.	G.
Jason, d'Orb. Prod. 104. Fr.	N.
Jurensisimilis, Roem. Nord. Kreid. 82, no. 2. G.	N.
Lahayesii, d'Orb. P. F. 251, 193, 1, 4. Fr.	U. G.
lima, d'Orb. P. F. 248, 192, 1-3. Fr., G.	G.
Mailleana, d'Orb. P. F. 253, 195. Fr.	U. G.
Marrotiana, d'Orb. P. F. 267, 202, 5, 6. Fr.	C.
Matheroniana, d'Orb. P. F. 264, 201, 1-4. Fr.	U. G.
Moreausiana, d'Orb. P. F. 260, 198, 3-6. Fr.	G.
Moutoniana, d'Orb. Prod. 131. Fr.	G.
Neocomensis, d'Orb. P. F. 240, 188, 8-12. Fr., G.	N.
Neptuni, d'Orb. Prod. 153. Fr.	U. G.
nondescripta, Gabb* (<i>contraria</i> , d'Orb.). Fr.	N.
Nystii, d'Arc. M. G. S. F. 2d s. vol. ii, 343, 24-2. Belgium.	U. G.
Pailletteana, d'Orb. P. F. 241, 189. Fr.	N.
Paris, d'Orb. Prod. 131. Fr.	G.
penultima, d'Orb. Prod. 291. Fr.	Danien.
perspectiva, Mant. Sp. (<i>Cirrus</i>), d'Orb. P. F. 255, 196. Fr., E. U. G.	
Phidias, d'Orb. Prod. 70. Fr.	N.
Pictetianus (a), d'Orb. Prod. 131. Fr.	G.
plana, Munst. Goldf. P. G. 76, 187, 4. G.	C.
plicata, Sow. Sp. (<i>Cirrus</i>), d'Orb. Prod. 131. E.	G.
Pollux, d'Orb. Prod. 104. Fr.	N.
provincialis, d'Orb. P. F. 244, 190, 9-10. Fr.	N.
quadrata, Sow. Sp. (<i>Solarium</i>), d'Orb. Prod. 225. G.	C.
regalis, Roem. Sp. (<i>Trochus</i>), d'Orb. Prod. 225. G.	C.
regina, P. & R. Env. Genève. 243, 24, 2. Fr.	G.
Requieniana, d'Orb. P. F. 262, 200, 5-6. Fr.	C.
Rhodani, Brong. Sp. (<i>Trochus</i>), d'Orb. P. F. 250, 192, 7-8.	
Fr., G., E.	G.

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- Robinaldi, d'Orb. P. F. 243, 190, 8. Fr. *N.*
 Roemerii, Gabb, 1861 (*Fittoni*, Roem.). G.
 Rouxii, d'Orb. Prod. 132. Fr. *G.*
 Royana, d'Orb. P. F. 269, 203, 5, 6. Fr. *C.*
 Sabaudiana, d'Orb. Prod. 131. Fr. *C.*
 Santonensis, d'Orb, P. F. 258, 198. Fr. *C.*
 Saussureana, P. & R. Env. Genève. 239, 23, 1. Fr. *G.*
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 secans, d'Orb. P. F. 261, 200, 1-4. Fr. *C.*
 simplex, d'Orb. P. F. 252, 194. Fr. *U. G.*
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PSEUDOBUCINUM, M. & H.

- Nebrascense, M. & H. (*Buccinum*), 1857, Proc. Acad. p. 140.
 Neb. *C.*

Pterocera, Lam. 1799. (HARPAGO, 1753, Klein.)

- Beaumontiana*, d'Orb. (HARPAGO), P. F. 305, 213.
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- contortus*, Sow. Sp. (Strombus), Gabb, 1861. India. *C.*
densatus, Con. (Strombus), Jour. Acad. 2d s. vol. iv, 284.
 Ala., Miss. *C.*
tumidus, Gabb, 1860, Proc. Acad. 197, 3, 13-14. Chili. *C.*
uncatus, Forbes, Sp. (Strombus), Gabb, 1861. India. *C.*

PURPUROIDEA, Lycet. 1848.

? dubia, Gabb, 1860, Proc. Acad. 94, 2, 11. N. J. C.

PYRAMIDELLA, Lam. 1796.

canaliculata, d'Orb. P. F. 104, 164, 3-6. Fr. C.

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? sagittata, Sharpe. P. J. G. S. 1849, 193, 2, 8. Portugal.
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? Newberryi, M. & H. (Fusus), Proc. Acad. 1860, p. 421.

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subdensatus, Con. Jour. Acad. 2d s. vol. iii, 322, 35, 12. Miss. C.

PYRULA, Lam. 1799.

Bairdii, M. & H. (BUSYCON), 1856, Proc. Acad. p. 66.

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- Smithii*, Sow. (FUSUS), G. T. 2d s. vol. iv, pl. 11, f. 15.
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trochiformis, Tuomey (TUDICLA), 1855, id. p. 169.
glabra, Shumard (NEPTUNEA), 1858, Trans. Acad. St. Louis,
 p. 125.

RAPA, Klein. 1753.

- pyruloidea, Gabb, 1860, Proc. Acad. 94, 2, 4. N. J. C.
 supraplicata, Con. 1858, Jour. Acad. 2d s. vol. iii, 332, 35, 20.
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elevata, Gabb (TUDICLA), Jour. Acad. 2d s. vol. iv, 301, 48, 12.
 depressa, Sow. Sp. (Pyrula), Gabb, 1861. E. U. G.

RIMELLA, Agas. 1840.

- curvilinearatus (a), Con. 1858, Jour. Acad. 2d s. vol. iii, 331, 35,
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 Meekiana, Gabb (Chemnitzia per err.), Jour. Acad. 2d s. vol. iv,
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Ringicula, Desh. 1838.

- acuta*, Forbes (ACTAEON subacutus), G. T. 2d s. vol. vii, 136,
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- incerta*, d'Orb. (Rissoa?), P. F. 62, 155, 11-13. Fr. G.

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anserina, Nils. (GLADIUS), Petrif. Suec. pl. 3, f. 6.
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biangulata, M. & H. (APORRHAI), 1856, Proc. Acad. p. 65.
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costato-striata, Munst. Sp.	" " " G.	C.
decorata, Roen. Sp. (<i>Melania</i>), Gabb, 1861.	G.	C.
Dupiniana, d'Orb. Sp. (<i>Scalaria</i>), Gabb, 1861.	Fr.	G.
elator, d'Orb. Sp.	" " " Fr.	N.
Gastyna, d'Orb. Sp.	" " " Fr.	G.
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C.

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- abyssinis*, Gabb (ARCHITECTONICA), 1860, Proc. Acad. p. 69, 4, 9.
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- Alpinum*, d'Orb. (ARCHITECTONICA), Prod. 69.
- angulatum*, Reuss (A. subangulatum), Böhm. Kreid. 48, 7, 24.
- Astierianum*, d'Orb. (ARCHITECTONICA), P. F. 196, 179, 5, 7.
- Circitanense*, Math. (ARCHITECTONICA), Cat. 234, 39, 3.
- catenatum*, Sow. (ARCHITECTONICA), Dix. Geol. Suss. 349, 29, 5.
- cirrhoide*, Brong. Sp. (ARCHITECTONICA), d'Orb. P. F. 202, 180, 9.
- conoideum*, Sow. (TROCHUS), G. T. 2d s. vol. iv, p. 364.
- dentatum*, Desh. Sp. (ARCHITECTONICA), Leym. M. G. S. F. vol. v, 13, 16, 14.
- deperditum*, d'Orb. (ARCHITECTONICA), Voy. Ast. et Zel. pl. 4, f. 9, 11.
- Deshayesi*, P. & R. (ARCHITECTONICA), Env. Genève. 214, 20, 4.
- Dupinianum*, d'Orb. (STRAPAROLUS), P. F. 194, 178, 10-13.
- dilatatus*, d'Orb. (ARCHITECTONICA), P. F. 195, 178, 7, 9.
- granosum*, d'Orb. (ARCHITECTONICA), P. F. 203, 181, 1-8.
- granulatum*, Mant. (ARCHITECTONICA), Sow. G. T. 2d s. vol. iv, p. 364.
- Guerangeri*, d'Orb. (STRAPAROLUS), P. F. 206, 177, bis 9-12.
- Hagianum*, P. & R. (TROCHUS), Env. Genève. 221, 21, 8.
- Martinianum*, d'Orb. (STRAPAROLUS), P. F. 204, 181, 9-14.
- minimum*, Forbes (TROCHUS), Q. J. G. S. vol. i, 348, 4, 3.
- Moniliferum*, Mich. (ARCHITECTONICA), in d'Orb. P. F. 197, 179, 8-12.
- Neocomiense*, d'Orb. (ARCHITECTONICA), P. F. 195, 179, 1-4.
- ornatus* (um), Sow. (A. subornata), in Fitt. G. T. 2d s. vol. iv, pl. 11, f. 13.
- plicatum*, Sow. (ARCHITECTONICA), M. Con. 141.
- pulchellum*, d'Orb. (ARCHITECTONICA), Prod. 104.
- pulchellum*, Bailly (A. Bailly), Q. J. G. S. vol. xi, 457, 12, 3.
- quadratum*, Sow. (PLEUROTOMARIA), G. T. 2d s. vol. iii, pl. 38, f. 17.
- Rochatianum*, P. & R. (ARCHITECTONICA), Env. Genève. 209, 20, 2.
- scalare*, d'Orb. (ARCHITECTONICA), P. F. 206, 177 bis, 14, 15.

subangulatum, d'Orb. (ARCHITECTONICA), Prod. 223.

subornatum, d'Orb. (ARCHITECTONICA), Prod. 130.

Thirrianum, d'Arc. (ARCHITECTONICA), M. G. S. F. 334, 22,

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Tollotianum, P. & R. (ARCHITECTONICA), Env. Genèv. 218,
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triplex, P. & R. (TROCHUS), Env. Genèv. 216, 21, 3.

tabulatum, Phil. (ARCHITECTONICA), Geol. York, pl. 2, f. 36.

flexuistriatum, Evans & Shumard (MARGARITA), Proc. Acad.
1854, p. 163.

SOLIDULA, Fisch. 1807.

attenuata, M. & H. (Actaeon), Proc. Acad. 1860, p. 185. Neb. C.

Mortoni, Forbes, Sp. (Bulla), Gabb, 1861. N. J. C.

linteus (a), Con. Jour. Acad. 2d s. vol. iii, 334, 35, 11. Miss. C.

subelliptica, M. & H. (Actaeon), Proc. Acad. 1860, p. 185,
425. Neb. C.

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STOMATIA, Helbling, 1778.

aspera, d'Orb. P. F. 237, 188, 4-7. Fr. U. G.

Gaultina, P. & R. Env. Genèv. 245, 24, 3. Fr. G.

SPINIGERA, d'Orb. 1847.

ovata, Munst. Sp. (Rostellaria), d'Orb. Prod. 228. G. C.

SPIRORBIS, Swains. 1840.

rotula, Morton, Sp. (Vermetus), Gabb, 1861. N. J.* C.

STRAPAROLUS, Montf. 1810 (Euomphalus, Sow. 1814).

ammontaeformis, d'Orb. Prod. 151. Fr. U. G.

Guerangeri, d'Orb. (Solarium), Prod. 151. Fr. U. G.

lapidosus, Gabb (not DELPHINULA lapidosa, Morton), Jour.

Acad. 2d s. vol. iv, 300, 48, 5. Ala. C.

Martinianus, d'Orb. (Solarium), Prod. 131. Fr. G.

Moutonianus, d'Orb. Prod. 104. Fr. N.

subplanus, Gabb, Jour. Acad. 2d s. vol. iv, 299, 48, 4. Ala. C.

* Characteristic of the "yellow limestone," which appears to be the highest member of the Cretaceous in New Jersey.

STREPSIDURA, Swains. 1840.

Ripleyana, Con. Jour. Acad. 2d s. vol. iv, 286, 46, 42. Miss. C.

STROMBUS. Linn, 1740, Brug. 1789.

arachnoides, Müll in Geinitz, Quadersand. G.

contortus, Sow. (PUGNELLUS), Forbes, G. T. 2d s. vol. vii, 129, 15, 9.

densatus, Con. (PUGNELLUS), Jour. Acad. 2d s. vol. iii, 330, 34, 6.

Dupinianus, d'Orb. P. F. 313, 217, 3. Fr., G. G.

incertus, d'Orb. (Pterocera), Prod. 154. Fr. U. G.

inornatus, d'Orb. P. F. 314, 214. Fr. U. G.

nodulosus, Sow. Sp. (Dolium), d'Orb. Prod. 154. E. U. G.

subspeciosus, d'Orb. Prod. 70. Fr. N.

pelagi, Brong. (HARPAGO), Ann. des Mines, vol. vi, 570, 7, 1.

pyriformis, Kner. Gein. Quader. G.

semicostatus, d'Orb. (PUGNELLUS uncatus), Voy. Ast. pl. 5, 38-39.

uncatus, Forbes (PUGNELLUS uncatus), G. T. vol. vii, 129, 13, 16.

TECTURA, Aud. and McEdw. 1830.

occidentalis, H. & M. (Capulus), M. & H. Proc. Acad. 1860, p. 423. Neb. C.

? papillata, M. & H. 1860, Proc. Acad. 423. Neb. C.

? parva, M. & H. 1860, Proc. Acad. 423. Neb. C.

TEREBRA, Adans. 1757.

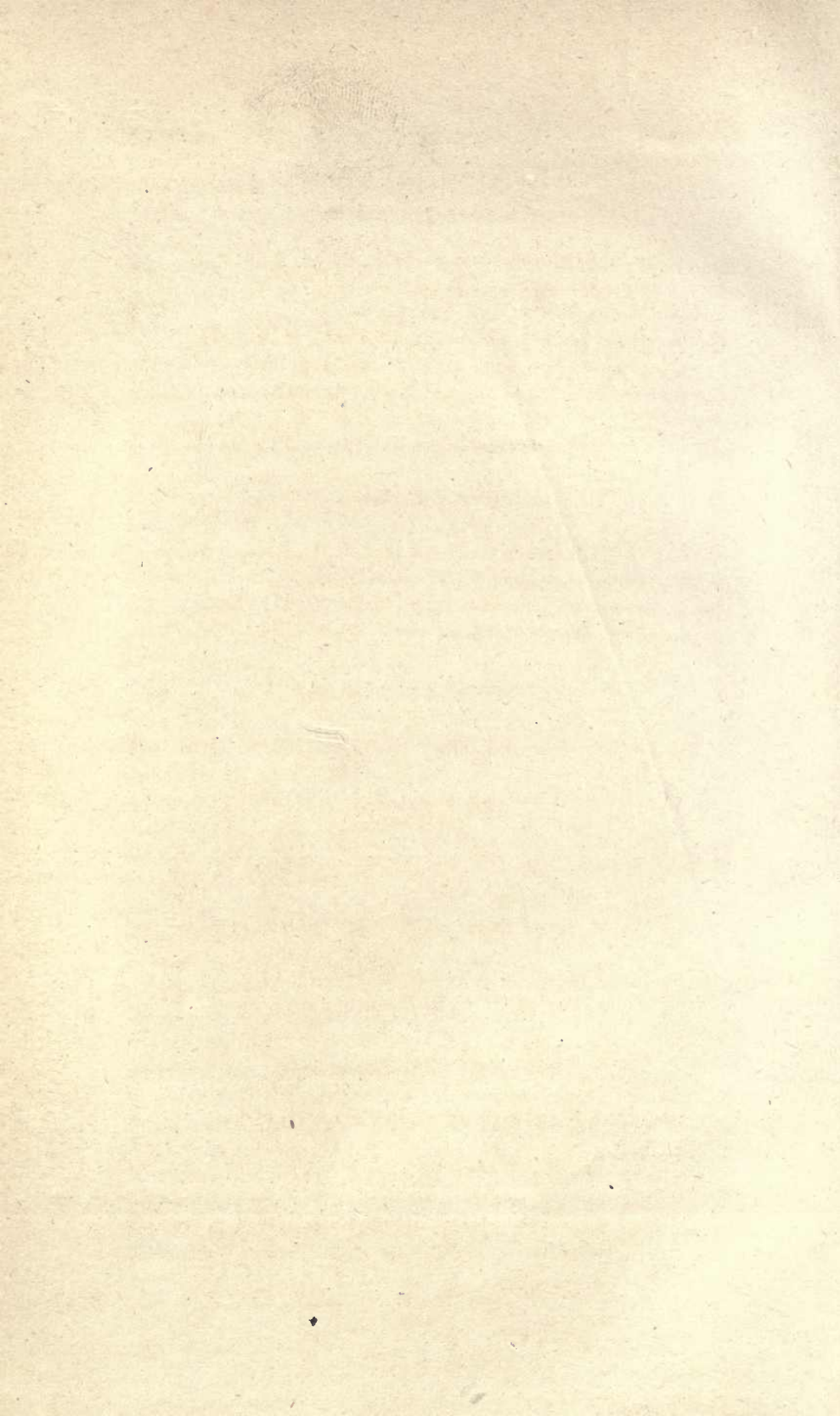
coronata, Sow. (CERITHIUM pseudocoronatum), G. T. vol. iii, pl. 39.

minuta, Galeotti (C. subminuta), Bull. Acad. Brux. vol. vii, pl. 6, f. 7.

? obconica, Sharpe, Q. J. G. S. vol. vi, 1849, 194, 20, 5. Portugal. "Lower Cret."

THYLACUS, Con. 1860.

cretaceus, Con. Jour. Acad. 2d s. vol. iv, 290, 46, 22. Ala. C.



Tornatella, Lam. 1810.

- abbreviata*, Philippi (VARIGERA), Palaeont. No. 1, 23, 2, 1.
affinis, Sow. (ACTAEON), G. T. 2d s. vol. iv, 242, 18, 9.
bullata, Morton (SOLIDULA), Synopsis, 48, 5, 3.
conica, Munst. (ACTAEONELLA), Goldf. Petrif. 49, 177, 11.
curculio, Forbes (ACTAEON), G. T. vol. vii, 135, 12, 25.
lapidosa, Forbes (AVELLANA), ibid. 135, 12, 24.
Lamarckii, Sow. (ACTAEONELLA), G. T. vol. iii, 39, 16.
Lamarckii, Goldf. (ACTAEONELLA Goldfussii), Petr. pl. 177,
 f. 10.
marginata, Forbes (ACTAEON Forbesiana), Q. J. G. S. vol. i,
 347, 4, 1.
Popii, Sow. (ACTAEON), G. T. vol. iv, 178, 22, 8.
semen, Forbes (ACTAEON), G. T. vol. vii, 135, 15, 2.
subglobosa, Munst. (ACTAEONELLA), Goldf. 49, 177, 13.
voluta, Munst. (ACTAEONELLA), Goldf. 49, 177, 14.

TRICHOTROPIS, Brod. 1826.

- cancellaria*, Con. Jour. Acad. 2d s. vol. iii, 333, 35, 8. Miss. C.

TUBA, Lea, 1834.

- bella*, Con. Jour. Acad. 2d s. vol. iv. 289, 46, 38. Ala. C.

Triton, Montf. 1810 (TRITONIUM, Link. 1807).

- atavus*, Forbes (FUSUS), G. T. vol. vii, 126, 13, 14.
elegans, Desh. (FUSUS), M. G. S. F. vol. v, 10, 17, 13.

TROCHATELLA, Swains. 1840.

- cretacea*, d'Orb. (INFUNDIBULUM), P. F. pl. 234, 1-3.

TROCHUS, List., Linn. 1758.

- agglutinans*, Mant. (PHORUS canaliculatus), Geol. Suss. pl. 18,
 f. 7.

- Albensis, d'Orb. P. F. 183, 177, 1-3. Fr. *N.*
 Alpinus, P. & R. Sp. (*Solarium*), d'Orb. Prod. 129. Fr. *G.*
alternans, Munst. (TURBO), Goldf. 60, 182, 2.
 Arcotensis, Forbes, G. T. vol. vii, 120, 13, 9. India. *C.*
 Astierianus, d'Orb. P. F. 182, 176, 16-17. Fr. *N.*
 Barremensis, d'Orb. Prod. 115. Fr. *L. G.*
 Basteroti, Brong. Env. Paris, pl. 3, f. 3. Fr., E., G., Sweden. *U. G.*
Basteroti, Goldf. *not Brong.* (TURBO amatus), P. G. 58, 181, 7.
 Bathus, d'Orb. Prod. 151. Fr. *U. G.*
 bicarinatus, Sow. M. Con. 221. E. *U. G.*
 bicinctus, Roem. Kreid. vol. 81, 20, 3. G. *N.*
bisulcatus, Goldf. (TURBO), Petrif. Germ.
 Bourgeoisii, d'Orb. Prod. 222. Fr. *C.*
 Bronnii, Goldf. P. Germ. 59, 181, 9. G. *C.*
Buchii, Goldf. (TURBO), id. 60, 182, 1.
 Bundli, d'Arc. M. G. S. F. 2d s. (1847), 335, 222, 6. Fr. *U. G.*
 Buvignieri, d'Orb. Prod. 151. Fr. *U. G.*
Castor, d'Orb. (radiatus), Voy. Astrol. pl. 4, f. 15, 17.
cirrholdes, Brong. (ARCHITECTONICA), Env. Par. pl. 7, f. 9.
 concinnus, Roem. Nord. Kreid. 81, 12, 9. G. *C.*
 conoideus, Sow. Sp. (*Solarium*), d'Orb. Prod. 129. E., Fr. *G.*
Cordieri, d'Arc. (Hylus), M. G. S. F. 335, 22, 8.
 costellifer, Munst. Goldf. 59, 181, 8. G. *C.*
 dentigerus, d'Orb. P. F. 185, 177, 9-12. Fr. *N.*
 dictyotus, Reuss, Sp. (*Pleurotomaria*), d'Orb. Prod. 223. G. *C.*
 difficilis, d'Orb. P. F. 191, 177, 17. Fr. *C.*
 Dujardinii, d'Orb. Prod. 222. Fr. *C.*
 Duperreyi, d'Arc. M. G. S. F. 2d s. vol. ii, 336, 23, 2. Fr. *C.*
 Gabrielis, d'Orb. Prod. 291. Fr. *Danien.*
 Geinitzii, Reuss, Böhm. Kreid. 112, 44, 23. G. *C.*
 Gibbsii Sow. Sp. (PLEUROTOMARIA), M. Con. 278.
 Girondinus, d'Orb. P. F. 188, 178, 1-3. Fr. *C.*
 Guerangeri, d'Orb. P. F. 188, 177 bis, 4-5. Fr. *U. G.*
gurgitis, Brong. (PLEUROTOMARIA), Env. Paris, pl. 9, f. 7.
 Guyotianus, P. & R. Env. Genève. 202, 19, 8. Fr. *G.*
 Haimei, Heb. M. G. S. F. 2d s. vol. iv, p. 372. Fr. *C.*
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Jason, d'Orb. (Arcotensis), Voy. Astrol. pl. 4, f. 12, 14.



- lævis*, Nilss. (TURBO sublævis), Petrif. Suec., Goldf., P. G. 60, 181, 13.
- leprosus*, Morton (PHORUS), Synopsis, 46, 15, 6.
- Leymerci*, d'Arc. M. G. S. F. 2d s. vol. ii, 337, 23, 1. Fr. U. G.
- Ligeriensis*, d'Orb. Prod. 222. Fr. C.
- linearis*, Mant. (PLEUROTOMARIA perspectiva), Geol. Suss. pl. 18, f. 17.
- Marçasi*, d'Orb. P. F. 190, 186 bis, 19. Fr. U. G.
- Marollinus*, d'Orb. P. F. 184, 177, 7-8. Fr. N.
- Marrotianus*, d'Orb. P. F. 187, 177, 15, 16. Fr. C.
- minimus*, Forbes Sp. (Solarium), d'Orb. Prod. 115. E. L. G.
- Moutonianus*, d'Orb. Prod. 69. Fr. N.
- Nicoletinus*, P. & R. Env. Genève. 204, 19, 10. Fr. G.
- Nilssoni*, Goldf. (TURBO), P. G. 58, 181, 6.
- Pintevillei*, d'Arc. Sp. (Turbo), d'Orb. Prod. 151. Fr. U. G.
- planatus*, Roem. Nord. Kreid. 81, 12, 8. G. C.
- plicato-carinatus*, Goldf. Sp. (Turbo), d'Orb. Prod. 224. G. C.
- plicato-granulosus*, Munst. Goldf. P. G. 60, 182, 3. G. C.
- pseudo-helix*, Reuss, Böhm. Kreid. 112, 44, 33. G. C.
- radiatulus*, Forbes, G. T. 2d s. vol. vii, 120, 13, 11. India. C.
- Rajah*, Forbes, G. T. 2d s. vol. vii, 120, 13, 12. India. C.
- regalis*, Roem. (PLEUROTOMARIA), Nord. Kreid. 81, 12, 7.
- Requienianus*, d'Orb. P. F. 186, 177, 13-14. Fr. U. G.
- reticulatus*, Phil. not Sow. (subreticulatus), Geol. York. 94, 2, 37.
- Rhodani*, Brong. (PLEUROTOMARIA), Env. Par. pl. 9, f. 8.
- rostelloides*, Forbes (TURBO), G. T. 2d s. vol. vii, 120, 13, 10.
- Sarthinus*, d'Orb. P. F. 189, 177 bis, 6-8. Fr. U. G.
- simplex*, Duj., not Defr. (Dujardini), M. G. S. F. vol. ii, 231, 17, 8.
- spiniger*, Sow. G. T. 2d s. vol. iii, pl. 38, f. 15. G. C.
- striatulus*, Desh. (substriatulus), M. G. S. F. vol. v, 13, 17, 1.
- subpulcherrimus*, d'Orb. Prod. 115. E. G.
- subreticulatus*, d'Orb. Prod. 115. E. G.
- substriatulus*, d'Orb. Prod. 69. Fr. N.
- Tollotianus*, P. & R. Env. Genève. 203, 19, 9. Fr. G.

TUDICLA, Bolt. 1798.

S. G. *Pyropsis*, Con. 1860.

- elevata*, Gabb (Rapa), 1861. N. J. C.
- **perlata*, Con. Jour. Acad. 2d s. vol. iv, 288, 46, 39. Miss. C.
- trochiformis*, Tuomey, Sp. (Pyrula), Gabb, 1861. Ala. C.

* Perhaps identical with T. (*Pyrula*) *trochiformis*, Tuomey, Sp.

TURBINELLA, Lam. 1801.

- parva*, Gabb, 1860, Proc. Acad. 94, 2, 3. N. J. C.
subconica, Gabb, id. 94, 2, 6. N. J. C.

Turbinopsis, Con. 1860.

- Hilgardi (ii)*, Con. (CANCELLARIA), Jour. Acad. 2d s. vol. iv,
 289, 46, 29.

TURBO, Linn. 1758.

- acastus*, d'Orb. Prod. 70. Fr. N.
acuminatus, Desh. Leym. M. G. S. F. 2d s. vol. v, 13, 17, 3. Fr. N.
Adonis, d'Orb. Prod. 69. Fr. N.
Alceæ, d'Orb. Prod. 104. Fr. N.
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Alpinus, d'Orb. P. F. 320. Fr. G.
Alsus, d'Orb. Prod. 130. Fr. G.
alternans, Munst. Sp. (*Trochus*), d'Orb. Prod. 224. G. C.
amatus, d'Orb. Prod. 224. G. C.
Angeloti, d'Arc. M. G. S. F. 2d s. vol. ii, 337, 33, 4. Fr. U. G.
arenosus, Sow. G. T. 2d s. vol. iii, pl. 38, f. 14. G. C.
Astierianus, d'Orb. P. F. 182, 18, 20. Fr. G.
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 ? *Bervillei*, Heb. M. G. S. F. 2d s. vol. iv, 373, 29, 7. Fr. C.
bicultratus, d'Orb. P. F. 226, 186 bis, 3, 4. Fr. U. G.
bisulcatus, Goldf. Sp. (*Trochus*), d'Orb. Prod. 223. G. C.
Boblayei, d'Arc. M. G. S. F. 2d s. vol. ii, 338, 23, 5. Fr. U. G.
Bohemensis, d'Orb. Prod. 224. G. C.
Boissyi, d'Arc. M. G. S. F. 2d s. vol. ii, 339, 23, 6. Fr. U. G.
Buchii, Goldf. Sp. (*Trochus*), d'Orb. Prod. 224. G. C.
carinatus, Sow. M. Con. 240. E. G. S.
Cassisianus, d'Orb. Prod. 152. Fr. U. G.
Chaussyanus, d'Orb. P. F. 220, 185, 1-3. Fr. G.
clathratus, Roem. Sp. (*subclathratus*), Nord. K. p. 80.
Cognacensis, d'Orb. P. F. 229, 186 bis, 9-10. Fr. U. G.
conicus, Sow. (NATICA *subconica*), M. Con. 433.
coronatus, Roem. Sp. (*Delphinula*), d'Orb. Prod. 223. G. C.

- cretaceus, d'Orb. P. F. 228, 186 bis, 7, 8. Fr. *U. G.*
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 pl. 17, f. 6.
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gemmatus, Sow. Dixon's Geol. Suss. 349, 27, 26, 33. E. *C.*
Gresslyanus, P. & R. Env. Genèv. 194, 19, 2. Fr. *G.*
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moniliferus, Sow. M. Con. 395. E. *U. G.*
Montmollini, P. & R. Env. Genèv. 198, 19, 6. Fr. *G.*
Mulletii, d'Arc. M. G. S. F. 2d s. vol. ii, 340, 23, 9. Fr. *U. G.*

Mundae, Sharpe, Q. J. G. S. vol. vi, 194, 20, 7. Portugal.

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Nilssonii, Goldf. Sp. (Trochus), d'Orb. Prod. 224. G. C.

Nebrascensis, M. & H. (MARGARITA), 1856, Proc. Acad. 64.

obtusius, d'Orb. (Geslini), P. F. 230.

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Octavius, d'Orb. Prod. 152. Fr. U. G.

paludinaeformis, d'Arc. M. G. S. F. 2d s. vol. ii, 340, 23, 10.

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Pictetianus, d'Orb. P. F. 219, 184, 8-10. Fr., G. G.

Pintevillei, d'Arc. (TROCHUS), M. G. S. F. vol. ii, 341, 23, 11.

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plicato-carinatus, Goldf. Sp. (Trochus), d'Orb. Prod. 224. G. C.

problematicus, P. & R. Env. Genèv. 199, 19, 7. Fr. G.

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Raulini, d'Arc. M. G. S. F. 2d s. vol. ii, 341, 23, 12. G. U. G.

Renauxianus, d'Orb. P. F. 225, 186, 4-8. Fr. C.

Reussianus, d'Orb. Prod. 192. G. C.

Rhotomagensis, d'Orb. P. F. 223, 185, 11-14. Fr. U. G.

Roissyi, d'Arc. Sp. (Littorina), d'Orb. Prod. 153. Fr., G. U. G.

rotundatus, Sow. (NATICA), M. Con. 433.

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Saxoneti, P. & R. Env. Genèv. 197, 19, 5. Fr. G.

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subclathratus, d'Orb. Prod. 69. G. N.

subdispar, d'Orb. Prod. 130. Fr. G.

subinflatus, Reuss, Böhm. Kreid. 49, 11, 12. G. C.

sublaevis, d'Orb. Prod. 224. G. C.

subsculptus, d'Orb. Prod. 224. G. C.

subsulcifer, d'Orb. Prod. 223. G. C.

subvaricosus, d'Orb. Prod. 70. Fr. N.

sulcifer, Roem. (subsulcifer), Nord. Kreid. 81, 12, 1.

tenuilineatus, M. & H. 1856, Proc. Acad. p. 64. Nebraska. C.

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* "Neocomien," d'Orbigny, "Jurassic," B. & C. Mr. Conrad proposed a new genus to receive this curious and beautiful species, which he called *Lithotrochus*. It was accidentally omitted at the proper place in this enumeration. After carefully studying a very fine specimen in my own collection from near Copiapo, Chili, I am unable to detect any valid characters by means of which it can be separated from *Turritella*, although its wide whorls and low spire induced Von Buch to consider it a *Pleurotomaria*.



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orbicularis, Gein. Carak. Kreid. 20, 17, 74. G. C
Orbignyana, Math. Sp. (CUCULLAEA), d'Orb. P. F. 242, 327, 5-6.
obesa, P. & R. (CUCULLAEA), Env. Genève. 464, 381, 1.
Olisiponensis, Sharpe, Q. J. G. S. vol. vi, 176, 14, 1. Port. C
Passyana, d'Orb. (CUCULLAEA), P. F. 241, 327, 1-2.
perobliqua, Von Buch. Pet. Rec. en Am. par Humb. 16, 1,
 13-14. N. Gren. N.
pholadiformis, d'Orb. P. F. 219, 315, 1-3. Fr. U. G.
Ponticeriana, d'Orb. Voy. Ast. pl. 8, 29-31. India. C
propinqua, Reuss, Böhm. Kreid. 12, 34, 34. G. C
Proutiana, Shumard, Trans. Acad. St. Louis, 1860, p. 601.
 Texas. C
pygmaea, Reuss, Böhm. K. 11, 34, 33. G. C
quindecemradiata, Gabb, Proc. Acad. 1860, 94, 2, 2. N. J.,
 Del. C
radiata, Munst. in Goldf. not M. 1838 (subradiata), P. Germ.
 pl. 138, 2.
Raspailii, d'Orb. (Cuc. irregularis), Prod. 196.
Raulini, d'Orb. (CUCULLAEA), P. F. 204, 310, 1-2.
Renauxiana, Math. Cat. 164, 21, 7-9. Fr. C
Requieniana, Math. Sp. (CUCULLAEA), d'Orb. Prod. 196.
Requieniana, d'Orb. (Cuc. irregularis), P. F. 239, 326, 1-3.
Robinaldini, d'Orb. P. F. 208, 310, 11-12. Fr. N.
Roemeri, Gein. Charak. Kreid. 50, 20, 15. G. C
rostellata, Morton (CIBOTA), 64, 3, 11.
rostellata, Von Buch. (subrostellata), P. Rec. en Amer. 14, 1, 16.
rotundata, Sow. G. T. vol. iv, 239, 17, 8. E. U. G.
rotundata, Roem. not Sow. (octavia), Nord. Kreid. 79, 9, 2.
Royana, d'Orb. P. F. 243, 327, 3-4. Fr. C
Saffordii, Gabb, Jour. Acad. 2d s. vol. iv, 397, 68, 37. N. J.,
 Tenn. C
sagittata, d'Arc. Sp. (CUCULLAEA), d'Orb. P. F. 231, 319, 1-2.
Santonensis, d'Orb. (CUCULLAEA), P. F. 236, 323.
Sarthacensis, d'Orb. Prod. 164. Fr. U. G.
Schusteri, Roem. Sp. (CUCULLAEA), d'Orb. Prod. 80.
securis, Leym. Sp. (CUCULLAEA), in d'Orb. P. F. 203, 309, 9-10.
semisulcata, Math. Cat. 163, 21, 5-6. Fr. C
serrata, d'Orb. P. F. 226, 416, 13, 16. Fr. N.

- similis*, d'Orb. (Gamana), Voy. Astr. pl. 4, 33, 34.
striatula, Reuss, Böhm. Kreid. 12, 34, 28. G. C.
subalata, d'Orb. Prod. 244. Fr. C.
subangukata, d'Orb. Prod. 244. G. C.
subconcentrica, d'Orb. (CUCULLAEA concentrica), Prod. 164.
subdinnensis, d'Orb. P. F. 225, 316, 9-12. Fr. U. G.
subelongata, Con. Emory's Rep. 148, 6, 3. Texas. C.
subformosa, d'Orb. (CUCULLAEA formosa), Prod. 164.
subglabra, d'Orb. Prod. 244. G. C.
subnana, P. & R. Env. Genève. 461, 36, 6. Fr. G.
subradiata, d'Orb. Prod. 245. G. C.
subrostellata, d'Orb. Prod. 106. N. Grenada. N.
subtruncata, Reuss, not Reeve (Reussii), B. Kreid. 10, 34, 35.
sulcatina, Evans & Shum. Trans. Acad. St. Louis, 1857, p. 39.
 Neb. C.
supracretacea, d'Orb. Prod. 294. Fr. Danien.
Tailburgensis, d'Arc. Sp. (CUCULLAEA), in d'Orb. P. F. 233, 320.
tenuistriata, Munst. in Goldf. 142, 138, 1. G. C.
Tocaymensis, d'Orb. Foss. de Col. 55, 6, 1-3. N. Grenada. N.
trapezoida, Gein. Sp. (CUCULLAEA), d'Orb. Prod. 165.
Trinchinopolitensis, Forbes, G. T. vol. vii, 150, 15, 16. India. C.
tumida, d'Arc. Sp. (CUCULLAEA), d'Orb. P. F. 244, 328.
undulata, Reuss, Böhm. Kreid. 12, 34, 33, 39. G. C.
uniopsis, Con. Jour. Acad. vol. ii, 275, 24, 7. N. J. C.
urtellata, d'Orb. (per err. rostellata, Morton), Prod. 245.
Umzambaniensis, Baily, Q. J. G. S. vol. xi (1855), 460, 13, 1.
 S. Africa. U. G.?
Vancouverensis, Meek, Trans. Alb. Inst. vol. iv, p. 40. Van-
 couver Id. C.
Varusensis, d'Orb. Prod. 106. Fr. N.
Vindinnensis, d'Orb. P. F. 220, 315, 4-7. Fr. U. G.
vulgaris, Morton, Sp. (CUCULLAEA), d'Orb. Prod. 245.

— ARCOPAGIA, Leach, 1827.

- Cenomanensis*, d'Orb. Prod. 158. Fr. U. G.
circinalis, Duj. Sp. (Psammobia), d'Orb. P. F. 414, 378, 16-18. C.
concentrica, d'Orb. (subconcentrica), P. F. 410, 378, 1-6.
concentrica, Reuss, Sp. (Tellina), d'Orb. Prod. 235. G. C.
costulata, Goldf. Sp. (Tellina), d'Orb. Prod. 235. G. C.
gibbosa, d'Orb. P. F. 413, 378, 14-15. Fr. C.

- numismalis, Math. Sp. (*Lucina*), d'Orb. P. F. 415, 379, 1-5. Fr. *C.*
radiata, d'Orb. (semiradiata), P. F. 412, 378, 11-13.
Rauliniana, d'Orb. P. F. 411-378, 7-10. Fr. *G.*
rotundata, d'Orb. P. F. 416, 379, 6-7. Fr. *C.*
semiradiata, Math. Sp. (*Venus*), d'Orb. Prod. 194. Fr. *C.*
strigata, Goldf. Sp. (*Tellina*), d'Orb. Prod. 235. G., Fr. *C.*
subconcentrica, d'Orb. Prod. 75. Fr. *N.*
subdecussata, Reuss, Sp. (*Tellina*), d'Orb. Prod. 235. G. *C.*
Valdiviana, d'Orb. Voy. Astrol. pl. 2, f. 7, 8. Chili. *C.*
Texana, Roem. Kreid. Tex. 46, 6, 8. Tex. *C.*

— *Artemis*, Poli, 1791 (*DOSINIA*, Scopoli, 1777).

- cordata*, Sharpe (*DOSINIA*), Q. J. G. S. vol. vi (1849), 177,
 21, 3.
? elegantula, Sharpe (*DOSINIA*), id. 177, 14, 2.
inelegans, S. (*DOSINIA*), id. 177, 20, 3.
lenticularis, Goldf. Sp. (*DOSINIA*), Forbes, G. T. vol. vii, 147,
 18, 7.
excavata, Morton, Sp. (*DOSINIA*), Con. Proc. Acad. vol. vi, p. 320

ANOPLOMYA, Krauss, 1850.

- lutraria*, K. Nov. Act. Acad. C. L. C. vol. xx, 447, 47, 1. *C.*
 Good Hope. *U. G.?*

— *ASTARTE*, Sow. 1816.

- acuta*, Reuss, Böhm. Kreid. 3, 33, 7. G. *C.*
Arcotensis, Forbes, Sp. (*Venus*), d'Orb. Prod. 238. India. *C.*
Astieriana, d'Orb. Prod. 77. Fr. *N.*
Beaumontii, Leym. M. G. S. F. vol. v, 4, 4, 1. Fr. *N.*
Bellona, d'Orb. Prod. 136. Fr. *G.*
Buchii, Roem. "Astarte," p. 20, f. 4. Fr. *N.*
Bronnii, Krauss, Nov. Act. Acad. C. L. C. vol. xx, 449, 48, 1.
 S. Af. *U. G.?*
Brunneri, P. & R. Env. Genève. 435, 33, 3. Fr. *G.*
caelata, Mull. Aachen. Kreid. 22, 2, 3. G. *C.*
Capensis, Krauss (*Herzogii*), Amtl. Bericht. 1843, p. 126.
carinata, d'Orb. not *Phil.* (subacuta), P. F. 63, 262, 1-3.
concinna, Sow. G. T. vol. iv, 239, 16, 15. E. *U. G.*

- crenulirata, Con. Jour. Acad. 2d s. vol. iv, 282, 46, 25. N.
 J., Ala., Miss., Tenn. C.
cyprinoides, d'Arc. (CYPRINA oblonga), pl. 14, f. 5.
 difficilis, d'Orb. Prod. 238. Fr. C.
 discus, Sharpe, Q. J. G. S. vol. vi, 177, 21, 4. Portugal.
 "Lower Cret."
 disparilis, d'Orb. P. F. 66, 264, 1-4. Fr. N.
 ? dubia, d'Orb. Am. Merid. 105, 6, 12-13. Peru. N.
 Dupiniana, d'Orb. P. F. 70, 264, 4-6. Fr. G.
 elongata, d'Orb. P. F. 68, 263, 8-11. Fr. N.
 exotica, d'Orb. Am. Merid. 85, 18, 11-12. N. Gren. N.
 formosa, Sow, G. T. 2d s. vol. iv, 239, 16, 16. E. U. G.
formosa, d'Orb. *not Sow.* (subformosa), P. F. 65, 262, 10-12.
 gigantea, Desh. M. G. S. F. vol. v, 5-4, 3. Fr. N.
 granum, Math. Sp. (Venus), d'Orb. Prod. 135. Fr. C.
 gregaria, M. & H. 1856, Proc. Acad. p. 84. Neb. C.
 Guerangeri, d'Orb. P. F. 71, 266 bis, 1-5. Fr. U. G.
 Gurgitis, P. & R. Env. Genèv. 436, 33, 1. Fr. G.
 Herzogii, Hausm. Sp. (Cytherea), Krauss. Nov. Act. Acad. C.
 L. C. vol. xx, 447, 47, 2. C. Good Hope. U. G. ?
 impolita, Sow. G. T. vol. iv, pl. 16, f. 18. E. U. G.
 laevis, Phil. Geol. York. 94, 2, 18-19. E. G.
laticosta, Desh. (subformosa), M. G. S. F. vol. iv, 4, 4, 4-5.
 lineolata, Roem. Kreid. Tex. 51, 7, 8. Texas. C.
 lintea, Con. Lynch's Exped. 225, 19, 109. Syria. C.
 macrodonta, Sow. G. T. vol. iii, pl. 38, f. 8. G. C.
 Moreausa, d'Orb. P. F. 60, 259. Fr. N.
 mucronata, Con. Lynch's Exped. 222, 16, 83. Syria. C.
 multistriata, Sow. G. T. vol. iv, pl. 16, f. 17. E. U. G.
 nana, Reuss, Böhm. Kreid. 3, 33, 18. G. C.
 numismalis, d'Orb. P. F. 63, 262, 4-6. Fr. N.
 Neocomensis, d'Orb. Prod. 77. Fr. N.
oblonga, Desh. *not Sow.* (elongata), M. G. S. F. vol. v, pl. 6, f. 1.
obovata, Sow. (CORBIS), M. Con. 353.
 octolirata, Gabb, Jour. Acad. 2d s. vol. iv, 394, 68, 27. N.
 J., Tenn. C.
 parilis, Con. Jour. Acad. 2d s. vol. ii, 276, 24, 16. N. J. C.
 planissima, Forbes, G. T. 2d s. vol. vii, 143, 15, 23. India. C.
 porrecta, Reuss, B. Kreid. 2, 33, 19. G. C.
 pseudostriata, d'Orb. Prod. 77. Fr. N.
 Sabaudiana, P. & R. Env. Genèv. 438, 32, 4. Fr. G.

<i>sinuata</i> , d'Orb. P. F. 69, 264, 1-3. Fr.	<i>L. G.</i>
<i>striata</i> , Sow. M. Con. 520. E., Fr.	<i>U. G.</i>
<i>striatocostata</i> , d'Orb. (subcostata), P. F. 64, 262, 7-9.	
<i>subacuta</i> , d'Orb. Prod. 77. Fr.	<i>N.</i>
<i>subcostata</i> , d'Orb. Prod. 77. Fr.	<i>N.</i>
<i>subdentata</i> , Roem. Nord. Kreid. 71, 9, 9. G.	<i>N.</i>
<i>subformosa</i> , d'Orb. Prod. 77. Fr.	<i>N.</i>
<i>sublineolata</i> , Con. Lynch's Exped. 225, 19, 112. Syria.	<i>C.</i>
<i>substriata</i> , Leym. <i>not Brown</i> (pseudostriata), M. G. S. F. vol. iii, 67, 263, 5-8.	
<i>Texana</i> , Con. Emory's Rep. 152, 5, 9. Texas.	<i>C.</i>
<i>transversa</i> , d'Orb. P. F. (Neocomensis), p. 61, 261.	
<i>truncata</i> , Von Buch, Petr. Rec. par Humb. pl. 13-1-11. N. Gren.	<i>N.</i>
<i>undulosa</i> , Con. Lynch's Exped. 222, 16, 81. Syria.	<i>C.</i>
<i>Washitensis</i> , Shumard, Marcy's Rep. 206, 3, 3. Texas.	<i>C.</i>

AVICULA, Klein, 1753, Lam. 1799.

<i>abrupta</i> , Con. Jour. Acad. 2d s. vol. ii, 274, 24, 5-6. N. J.	<i>C.</i>
<i>Aeolis</i> , d'Orb. Prod. 168. Fr.	<i>U. G.</i>
<i>Allaudiensis</i> , Math. Cat. 175, 26, 1. Fr.	<i>N.</i>
<i>anomala</i> , Sow. 1836, <i>not Gein.</i> 1845, G. T. 2d s. vol. iv, pl. 17, f. 18. E., G., Fr., Sw.	<i>U. G.</i>
<i>approximata</i> , Goldf. P. G. 133, 118, 7. G.	<i>C.</i>
<i>Aptensis</i> , d'Orb. Prod. 119. Fr.	<i>L. G.</i>
<i>caerulescens</i> , Nilss. P. Suec. pl. 3, f. 19. Sw., G., Fr.	<i>C.</i>
<i>Carteroni</i> , d'Orb. P. F. 472, 390. Fr.	<i>N.</i>
<i>Cenomanensis</i> , d'Orb. P. F. 476, 391, 11-13. Fr.	<i>U. G.</i>
<i>convexo-plana</i> , Roem. Kreid. Tex. 61, 7, 9. Texas.	<i>C.</i>
<i>Cornueliana</i> , d'Orb. P. F. 471, 389, 3-4. Fr.	<i>N.</i>
<i>Cottaldina</i> , d'Orb. P. F. 470, 389, 1-2. Fr.	<i>N.</i>
<i>cretacea</i> , Con. Nicollett's Rep. (1845), p. 169. Ark.	<i>C.</i>
<i>depressa</i> , Forbes, <i>not Munst.</i> (subdepressa), Q. J. G. S. vol. i, 247, 3, 7.	
<i>ephemera</i> , Forbes, Q. J. G. S. 1844, vol. i, 247, 3, 6. E.	<i>L. G.</i>
? <i>fibrosa</i> , M. & H. (PHOLADOMYA), 1856, Proc. Acad. p. 86.	
<i>Geinitzii</i> , Reuss, Böhm. Kreid. 23, 32, 6. G.	<i>C.</i>
<i>glabra</i> , Reuss, id. 22, 32, 4, 5. G.	<i>C.</i>
<i>gryphaeoides</i> , Sow. G. T. 2d s. vol. iv, pl. 11, f. 3. E.	<i>U. G.</i>

- Haydeni, Hall & Meek, Mem. Acad. Boston, 2d s. vol. v, 382,
1, 5. Neb. *C.*
interrupta, d'Orb. P. F. 477, 391, 14-18. Fr. *U. G.*
lanceolata, Forbes, *not Sow.* (sublanceolata), Q. J. G. S. vol. i,
247, 3-8.
laripes, Morton, Synopsis, 63, 17, 5. Del., (G., Russia, Crimea
fide d'Orb.). *C.*
lineata, Roem. (sublineata), Nord. Kreid. pl. 8, f. 15.
linguaeformis, E. & Shum. 1855, Proc. Acad. p. 163. Vancou-
ver Id.* *C.*
modioliformis, Mull. Aach. Kreid. 29, 2, 14. G. *C.*
Moutoniana, d'Orb. P. F. 479, 393. Fr. *U. G.*
macroptera, Roem. 1841 (Cornueliana), Kreid. *not Roem.* 1836,
not Lum.
neglecta, Reuss, Böhm. Kreid. 23, 32, 10. G. *C.*
Nebrascensis, E. & S. Trans. St. Louis Acad. vol. i, p. 38. Ne-
braska. *C.*
nitida, Forbes, G. T. vol. vii, 151, 16, 6. India. *C.*
Nysa, d'Orb. Prod. 197. Fr. *C.*
Olisiponensis, Sharpe, Q. J. G. S. vol. vi, 178, 18, 3. Portugal. *C.*
paucilineata, Reuss, Böhm. Kreid. 23, 32, 11. G. *C.*
pectinata, Sow. G. T. vol. iv, pl. 14, f. 3. Fr., E. *L. G., N.*
Pedernalis, Roem. Kreid. Texas, 61, 8, 1. Texas. *C.*
pectiniformis, Gein. Charak. Kreid. 79, 20, 37. G., Fr. *C.*
pectinoides, Reuss, *not Sow.* (subpectinoides), B. K. 23, 32, 8-9.
Perigordina, d'Orb. Prod. 249. Fr. *C.*
petrosa, Con. Jour. Acad. 2d s. vol. ii, 274, 24, 15. Del., (Neb. ?) *C.*
planisulca, Roem. Kreid. Tex. 62, 7, 7. Texas. *C.*
plicata, d'Orb. *not Sow.* (subplicata), P. F. 475, 391, 8-10.
pulchella, Math. (pectiniformis), Cat. 176, 26, 4-5.
radiata, Gein. *not Leach* (Roxelana), Char. Kreid. 56, 10, 6.
Rauliniana, d'Orb. P. F. 474, 391, 4-7. Fr. *G.*
Reichii, Roem. Sp. (*Gervillia*), d'Orb. Prod. 168. G. *U. G.*
Rhodani, P. & R. Env. Genève. 494, 41, 2. Fr. *G.*
Roxelana, d'Orb. Prod. 168. G. *U. G.*
semiplicata, Gein. Charak. Kreid. 20, 31, 79. G. *U. G.*
Samarensis, Con. Lynch's Exped. 225, 19, 107. Syria. *C.*
semiradiata, Reuss, Böhm. Kreid. 23, 32, 7. G. *U. G.*
subdepressa, d'Orb. Prod. 119. Fr., E. *L. G.*

* I have little doubt but that this species will prove identical with *A. petrosa*, Con., although I have not had an opportunity of comparing specimens of them.

subgibbosa, M. & H. 1860, Proc. Acad. p. 180.	Neb.	<i>C.</i>
sublanceolata, d'Orb. Prod. 119.	E.	<i>L. G.</i>
sublineata, d'Orb. Prod. 249.	G.	<i>C.</i>
subplicata, d'Orb. Prod. 167.	Fr.	<i>U. G.</i>
subradiata, Desh. (pectinata), M. G. S. F. vol. v, 9, 6, 3.		
tenuicostata, Roem. (laripes), Nord. Kreid. pl. 8, f. 15.		
triangularis, E. & S. 1855, Proc. Acad. p. 163.	Vancouver I.	<i>C.</i>
triloba, Roem. Sp. (<i>Gervillia</i>), d'Orb. Prod. 249.	G.	<i>C.</i>
triptera, Goldf. P. Germ. 133, 118, 8.	G.	<i>C.</i>

AXINAEA, Poli, 1791 (*Pectunculus*, Lam. 1801).

alternata, d'Orb. Sp. (<i>Pectunculus</i>), Gabb, 1861.	Fr., G.	<i>G.</i>
Bourgeoisiana, d'Orb. Sp.	" " " Fr.	<i>C.</i>
clava, Sow. Sp.	" " " G.	<i>C.</i>
Geinitzii, d'Orb. Sp.	" " " G.	<i>C.</i>
hamula, Morton, Sp.	" Gabb, 1859, Cat. Cret. p.	
15. N. J., Ala.		<i>C.</i>
Heberiana, P. & R. Sp.	" Gabb, 1861. Fr.	<i>G.</i>
insculpta, Reuss, Sp.	" " " G.	<i>C.</i>
lens, Nilss. Sp.	" " " G., Sw.	<i>C.</i>
Marrotiana, d'Orb. Sp.	" " " Fr.	<i>C.</i>
Marullensis, Leym. Sp.	" " " Fr.	<i>N.</i>
Renauxiana, d'Orb. Sp.	" " " Fr.	<i>C.</i>
Requieniana, d'Orb. Sp.	" " " Fr.	<i>C.</i>
reticulata, Reuss, Sp.	" " " G.	<i>C.</i>
Reussii, d'Orb. Sp.	" " " G.	<i>U. G.</i>
Siouxensis, M. & H. Sp.	" Gabb, 1859, Cat. Cret. p.	
15. Nebraska.		<i>C.</i>
australis, Morton, Sp. (subaustralis), Gabb, id. p. 15.		
spinescens, Reuss, Sp. (<i>Pectunculus</i>), Gabb, 1861.	G.	<i>U. G.</i>
subauriculata, Forbes, Sp.	" " " India.	<i>C.</i>
subconcentrica, Lam. Sp.	" " " Fr.	<i>U. G.</i>
subdecussata, d'Orb. Sp.	" " " G.	<i>C.</i>
subimbricatus (a), M. & H. Sp.	" Gabb, Cat. Cret. 1859,	
p. 15. Neb.		<i>C.</i>
sublaevis, Sow. Sp.	" Gabb, 1861. E.	<i>U. G.</i>
subsulcata, d'Orb. Sp.	" " " G.	<i>C.</i>
ventricosa, Gein. Sp.	" " " G.	<i>U. G.</i>
rotundata, Gabb, Jour. Acad. vol. iv, 2d s. 396, 68, 33.	Ala.	<i>C.</i>
subaustralis, d'Orb. Sp. (<i>Pectunculus</i>), Gabb, 1861.	Ala., N. J.	<i>C.</i>

- **Bucardia**, List. 1678* (GLOSSUS, Poli, 1795).
 ? *Moreauensis*, M. & H. (GLOSSUS), Proc. Acad. 1860, p. 426.

Byssoarca, Swains. (CIBOTA, Brown).

- Marullensis*, d'Orb. Sp. (**Arca**), Sow. Dixon's Geol. Suss. 355,
 28, 11.

Catillus, Brong. 1822 (INOCERAMUS, Sow. 1819).

- pyriformis*, Mich. (I. concentricus), Mag. de Zool. pl. 32.
Lamarckii, Brong. (INOCERAMUS), Env. Par. p. 338.
mytiloides, Desh. (I. problematicus), Enc. Meth. t. ii, p. 211.
Schlotheimi, Nils. (I. problematicus), Petr. Suec. p. 19.
Cuvieri, Brong. (INOCERAMUS), Env. Par. pl. 4, f. 10, edit. 1822.

— **CAPSA**, Lam. 1818.

- discrepans, Duj. Sp. (**Psammobia**), d'Orb. P. F. 424, 381,
 3-5. Fr. C.
elegans, d'Orb. P. F. 423, 381, 1-2. Fr. U. G.
Texana, Con. Emory's Rep. 164, 21, 6. Texas. C.

— **CARDITA**, Brug. 1789 (**Venericardia**, Lam. 1801).

- Cenomanensis*, d'Orb. P. F. 94, 283 bis, 1-4. Fr. U. G.
Constantii, d'Orb. P. F. 89, 269, 1-5. Fr., G. G.
Cottaldini, d'Orb. P. F. 91, 269, 6-8. Fr. U. G.
 † *decisa*, Morton (**VENILIA** Conradi), Synopsis, 66, 9, 3.
dubia, Sow. M. Con. 259. E., Fr. U. G.
Dupiniana, d'Orb. P. F. 88, 268, 6-10. Fr. G.
eminula, Con. Emory's Rep. 150, 6, 8. Texas. C.
exaltata, d'Orb. Prod. 137. Fr. G.

* The generic name *Bucardia*, being pre-Linnaean, must give way to Poli's name, that being the first one given to the genus under the binomial system.

† I place this name as a synonym of *V. Conradi*, only from the evidence of the figure given in the Synopsis. The Academy of Natural Sciences has all the known types of the Synopsis, and the only specimen in the Academy's museum resembling the figure is an undoubted cast of that species. Should it prove a distinct species, it is exceedingly rare, since I have never met with it among thousands of cretaceous fossils.

- fenestrata, Forbes, Sp. (**Venus**), d'Orb. Prod. 77. E. L. G.
 Geinitzii, d'Orb. Prod. 239. G. C.
Goldfussii, Müll. (**PAPYRIDEA** aequivalvis), Aach. Kreid. p. 20.
 Guerangeri, d'Orb. P. F. 93, 270, 6-10. Fr. U. G.
 Hebertiana, d'Orb. Prod. p. 293. Fr. *Danien*.
modiolus, Nilss. (**GLOSSUS**), Petrif. Suec. pl. 10, f. 6.
 Neocomensis, d'Orb. P. F. 85, 267, 1-6. Fr. N.
orbicularis, Forbes (**CARDIUM**), G. T. vol. vii, 144, 17, 11.
 parvula, Munst. in Goldf. P. Germ. pl. 133, f. 13. G. C.
 quadrata, d'Orb. P. F. 86, 267, 7-10. Fr. N.
semistriata, Roem. *not Desh.* (**CARDIUM** bipartitum), Nord. K.
 67, 8, 21.
striata, Forbes, *not Deifr.* (**CARDIUM** substriatum), G. T. vol.
 vii, 144, 14, 1.
 tenuicosta, Sow. Sp. (**Venericardia**), d'Orb. P. F. 87, 268,
 1-5. Fr., G., E. G.
tenuicosta, Reuss, *not Sow.* (Cottaldina), Böhm. Kreid.
 subquadrata, Gabb, Jour. Acad. 2d s. vol. iv, 303, 48, 21.
 N. J. (Tenn.?). C.
 tricarinata, d'Orb. P. F. 95, 283 bis, 5-7. Fr. U. G.
tuberculata, Sow. *not Linn.* (**CARDIUM** Moutonianum), M.
 Con. 143.
 rotundata, P. & R. Env. Genève. 443, 33, 6. Fr. G.
 subtetrica, Con. Emory's Rep. 164, 21, 5. Texas. C.

— **CALLISTA**, Poli, 1791 (**Dione**, Gray, 1840).

- Delawarensis, Gabb (**Dione**), 1861. Del., N. J. C.
 Eufalensis, Con. Jour. Acad. 2d s. vol. iv, 282, 46, 24. Ala. C.

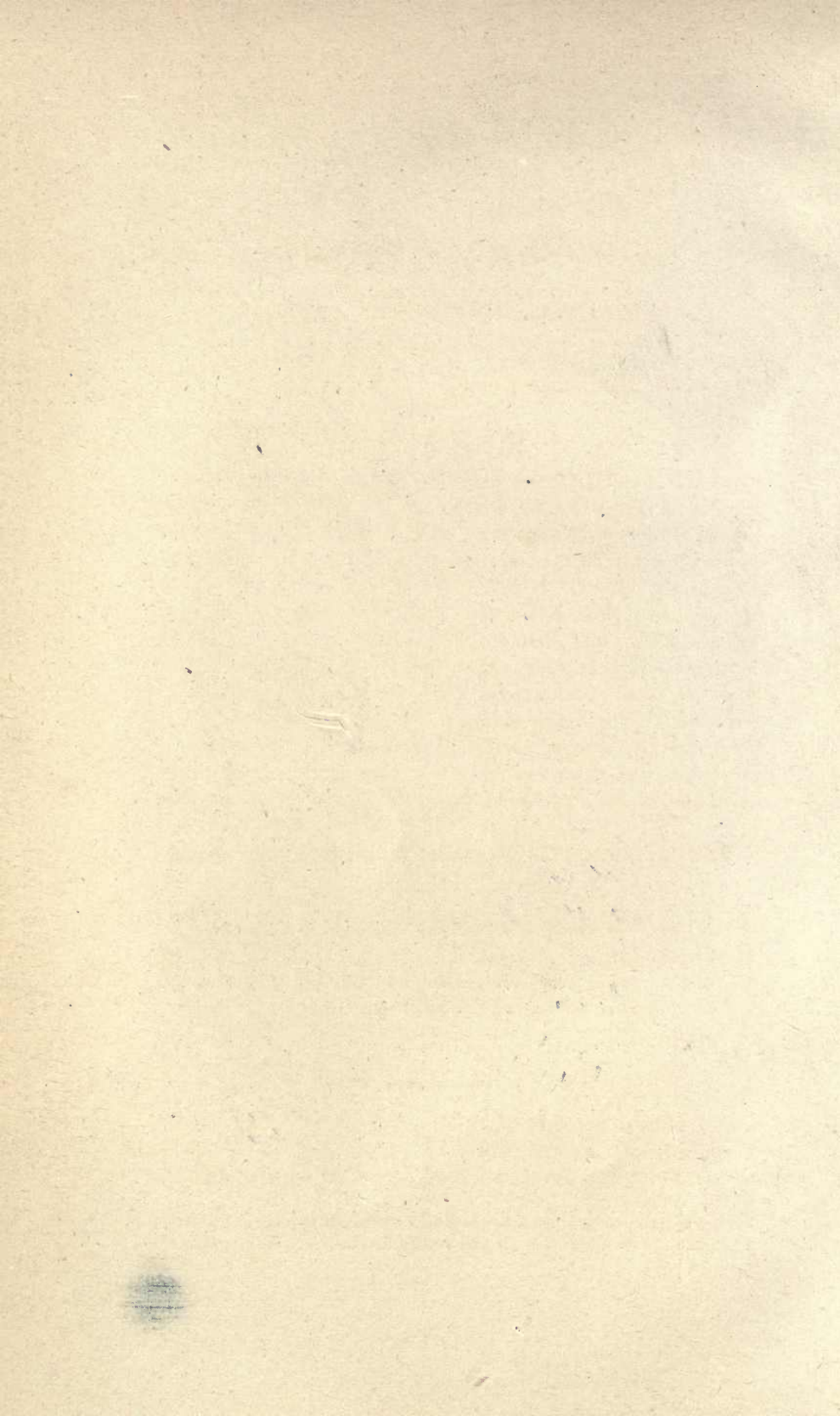
— **CARDIUM**, Linn. 1758.

- abruptum, Gabb, Jour. Acad. 2d s. vol. iv, 302. Tenn. C.
 acuticostatum, d'Orb. Am. Merid. 120, 12, 19-22. Chili, Peru. C.
alternans, Reuss (Requienianum), Böhm. Kreid. 1, 35, 15-16.
alternatum, d'Orb. *not Sow.* (subalternatum), P. F. 30, 246.
 altum, Sow. in Forbes, G. T. vol. vii, 145, 15, 13. India. C.
 Alpinum, P. & R. Env. Genève. 427, 31, 2. Fr. G.
 Alutaceum, Münst. Goldf. P. Germ. pl. 144, f. 5. G. C.
 Arkansense, Con. 1858, Proc. Acad. p. 266. Arkansas. C.

- asperum*, Münt. Goldf. P. G. 221, 144, 8. G. C.
Austeni, Forbes (ARCA), Q. J. G. S. vol. i, 244, 3, 3.
Australe, d'Orb. *not* Sow. (Australinum), Voy. Astr. pl. 2, f. 21-22.
Australinum, d'Orb. Prod. 242. Chili. C.
Becksii, Müll. Aach. Kreid. 21, 1, 7. G. C.
bellum, Con. Lynch's Exped. 225, 1-3. Syria. C.
bimarginatum, d'Orb. P. F. 39, 250, 4-8. Fr. C.
bipartitum, d'Orb. Prod. 242. G. C.
bisectum, Forbes, G. T. vol. vii, 144, 17, 9. India. C.
bispinosum, Duj. M. G. S. F. 223, 15, 7. Fr. C.
Brazoense, Shum. 1860, id. p. 600. Texas. C.
canaliculatum, Sow. Sp. (*Petricola*), d'Orb. Prod. 163. E. U. G.
Carolinum, d'Orb. P. F. p. 29, pl. 245. Fr. U. G.
caudatum, d'Orb. (PAPYRIDEA, *aequalvis*), Voy. Astrol. pl. 4, 25-26.
Cepomanense, d'Orb. P. F. 37, 249, 5-9. Fr., Syria. U. G.
Choctawense, Shum. 1860, Trans. Acad. St. Louis, p. 599. Texas. C.
Coloradoense, Shum. 1860, id. p. 559. Texas. C.
Colombianum, d'Orb. Am. Merid. p. 82. N. Gren. N.
congestum, Con. Emory's Rep. 149, 6, 5. Texas. C.
Connicum, d'Orb. P. F. 28, 244. Fr. C.
Constantii, d'Orb. P. F. 25, 242, 5-6. Fr. G.
Cordierianum, Math. Cat. 159, 17, 7-8. Fr. C.
Cornuelianum, d'Orb. (PAPYRIDEA), P. F. 23, 256, 1-2.
Cottaldinum, d'Orb. P. F. 22, 242, 1-4. Fr. N.
corrugatum, Sharpe, Q. J. G. S. vol. vi, 181, 14, 3. Portugal. "Lower Cret."
Debeyanum, Müll. Aach. Kreid. 21, 1, 9. G. C.
denticulatum, Baily, Q. J. G. S. vol. xi, 460, 13, 4. S. Afr. U. G.?
Dupinianum, d'Orb. P. F. 26, 242 bis. G., Fr. G.
Dutempleanum, d'Orb. Prod. 293. Fr. *Danien*.
elegantulum, Roem. (PAPYRIDEA), Kreid. Tex. 48, 6, 5.
Eufalense, Con. Jour. Acad. 2d s. vol. iv, 284, 46, 13. Ala. C.
Faujasii, Desm. 1837, Mus. Burdig. Fr. C.
filosum, Con. (S. G. *Protocardia*), Emory's Rep. 150, 6, 7. Texas. C.
galeatum, Müll. (CORBULA), Aach. Kreid. 22, 2, 2.
Galloprovinciale, Math. (CORBIS *corrugata*), Cat. pl. 17, f. 1-4.
Gentianum, Brown (Moutonianum), Foss. Conch. G. B. 199-80, 1.

- Goldfussii, Math. Cat. 156, 17, 5-6. Fr. *U. G.*
 Guerangeri, d'Orb. P. F. 35, 249, 1-4. Fr., Syria. *U. G.*
 guttiferum, Math. Cat. 156, 18, 1-2. Fr. *U. G.*
 Hillanum, Sow. M. Con. vol. i, pl. 14. E., Fr., G., India. *U. G.*
Hillanum, Roem. *not Sow.* (Texanum), Kreid. Tex. 39, 6, 12.
Hillanum, d'Orb. *pars. not Sow.* (Requienianum), P. F. p. 27.
 hemicyclicus (um), Tuomey, 1855, Proc. Acad. p. 170. Ala. *C.*
 hypericum, d'Arc. M. G. S. F. 2d s. vol. ii, 304, 14, 9. G. *U. G.*
 Ibbetsonii, Forbes, Q. J. G. S. vol. i, 243, 2, 9. E. *L. G.*
 imbricatarium, Desh. Sp. (*Lucina*), d'Orb. P. F. 18, 236, 4,
 6 Fr. *N.*
 impressum, Desh. M. G. S. F. 6, 8, 1-2. Fr. *N.*
 inaequicostatum, Math. Cat. 156, 18, 3, 4. Fr. *U. G.*
 incomptum, Sow. in Forbes, G. T. 2d s. vol. vii, 145, 15, 16.
 India. *C.*
inornatum, d'Orb. (UNICARDIUM), P. F. 24, 256, 3-6. Fr. *N.*
 insculptum, Duj. M. G. S. F. vol. ii, 224, 15, 9. Fr. *C.*
 intersectum, Forbes (MACTRA), G. T. vol. vii, 145, 18, 8.
 Iterianum, Math. Cat. 158, 18, 10-11. Fr. *C.*
 Jaecinoti, d'Orb. Voy. Astrol. pl. 5, 23, 25. India. *C.*
 lineolatum, Reuss, Böhm. Kreid. 1, 35, 17. G. *C.*
 linea (um), Con. (*S. G. Protocardia*), Jour. Acad. 2d s. vol.
 iv, 278, 46, 17. Ala. *C.*
lucernum, Forbes (PAPYRIDEA aequivalvis), G. T. vol. vii, 145,
 17, 10.
 Mailleanum, d'Orb. P. F. 40, 256, 7-12. Fr. *U. G.*
 Marquartii, Müll. Aach. Kreid. 22, 1-10. G. *C.*
 mediale, Con. Emory's Rep. 149, 4, 4. Texas. *C.*
 Michelini, d'Arc. M. G. S. F. 2d s. vol. ii, 304, 14, 8. Fr. *U. G.*
Marticense, Math. (Hillanum), Cat. 157, 8, 5.
 Moutonianum, d'Orb. P. F. 34, pl. 248. Fr. *U. G.*
 multiradiatum, Gabb, Jour. Acad. 2d s. vol. iv, 395, 68, 29.
 Ala., N. J. *C.*
 multistriatum, Shum. Marcy's Rep. 207, 4, 2. Texas. *C.*
 Neckerianum, P. & R. Env. Genève. 424, pl. 30, f. a-b. Fr. *G.*
Neptuni, Goldf. (PINNA), Petrif. 221, 144. E.
 Olisiponense, Sharpe, Q. J. G. S. vol. vi, 181, 14, 4. Portugal. *C.*
 ollonis, Gein. Charakt. Kreid. 31, 14, 1. G. *C.*
 orbiculare, Forbes, Sp. (*Cardita*), d'Orb. Prod. 242. India. *C.*
 ovulum, Con. Lynch's Exped. 225, 19, 108. Syria. *C ?*
 Pelagi, d'Orb. Prod. 162. Fr. *U. G.*

- peregrinosum, d'Orb. Coq. et Echin. Foss. de Col. 463, 6-8.
 N. Gren. *N.*
- pisolithicum, d'Orb. Prod. 293. Fr. *Danien.*
- Ponticeriense*, d'Orb. (altum), Voy. Astrol. pl. 5, f. 21-22.
- proboscideum, Sow. M. Con. pl. 156. E. *U. G.*
- productum, Sow. G. T. 2d s. vol. iii, pl. 39, f. 15. Fr., E., G. *U. G.*
- propinquum, Munst. Goldf. 222, 145, 1. G. *C.*
- protectum*, Con. (PAPYRIDEA elegantula), Jour. Acad. 2d s. vol. ii, 275, 24, 12.
- pustulosum, Munst. Goldf. P. Germ. 221, 144, 6. G. *U. G.*
- radiatum, Duj. M. G. S. F. 2d s. vol. ii, pl. 15, f. 8. Fr. *C.*
- rarum, E. & S. Trans. Acad. St. Louis, vol. i, p. 39. Nebraska. *C.*
- Raulinianum, d'Orb. P. F. 25, 242, 7-10. Fr., G. *G.*
- Requienianum, Math. Catal. 157, 18, 6. Fr. *C.*
- Ripleyense, Con. Jour. Acad. 2d s. vol. iii, p. 326. Ala. *C.*
- Sancti-sabae*, Roem. (PHOLADOMYA), Kreid. Tex. 48, 6, 7.
- semipapillatum, Reuss, Böhm. Kreid. 1, 40, 12. G. *C.*
- semipustulosum, Müll. Aach. Kreid. 21, 1, 8. G. *C.*
- scitulum, Meek, Trans. Alb. Inst. (1857), vol. iv, p. 40. Vancouver I. *C.*
- speciosum, M. & H. 1856, Proc. Acad. p. 274. Nebraska. *C.*
- sphaeroideum, Forbes, Q. J. G. S. vol. i, 243, 2, 8. E. *N.*
- subalternatum, d'Orb. Prod. 195. Fr. *C.*
- subdinnense*, d'Orb. (PAPYRIDEA), P. F. 38, 250, 1-3.
- subhillanum, Leym. M. G. S. F. 2d s. vol. v, 5, 7, 2. Fr. *N.*
- subquadratum, E. & S. Trans. Acad. St. Louis, 1857, p. 39. Nebraska. *C.*
- subventricosum, d'Orb. Prod. 163. Fr. *U. G.*
- tetragonum*, Mich. (CARDITA tenuicosta), M. G. S. F. pl. 12, f. 3, vol. iii.
- Texanum, Con. Emory's Rep. 150, 6, 6. Texas. *C.*
- Tippanum, Con. Jour. Acad. 2d s. vol. iii, 326, 34, 8. Ala., Miss. *C.*
- Toucasianum, d'Orb. Prod. 195. Fr. *C.*
- tuberculiferum, Goldf. P. Germ. 144, 7. G. *C.*
- umbonatum, Sow. M. Con. 156. E. *U. G.*
- ventricosum*, d'Orb. not Brug. (subventricosum), P. F. 41, 257, 1-3.
- Villeneuvevianum, Math. Cat. 158, 18, 7-8. Fr. *C.*
- Vindinense, d'Orb. P. F. 38, 249, 10-14. Fr. *U. G.*
- Voltzii, Leym. M. G. S. F. vol. v, 6, 7, 3. Fr. *N.*



— **Cercomya**, Agas. 1842.

inflata, Agas. (ANATINA), Etud. Crit. 153, 11, 22-24.

— **Ceromya**, Agas. 1842 (GLOSSUS, Poli, 1795).

crassicornis, Ag. (GLOSSUS), Etud. Crit. pl. 8, f. 11-16.

Neocomensis, Ag. (GLOSSUS), id. pl. 8, f. 5.

CHAMA, Brug. 1789.*

Ammonia, Goldf. (CAPROTINA), Petr. pl. 138, f. 8.

angulosa, d'Orb. P. F. 699, 464, 8. Fr. C.

canaliculata, Sow. (GRYPHAEA), M. Con. pl. 26.

conica, Sow. (EXOXYRA), M. Con. pl. 26.

cornucopiae, d'Orb. P. F. 689, 464, 8-9. Fr. C.

costata, Roem. Nord. Kreid. 67, 8, 20. G. C.

cretacea, d'Orb. P. F. 689, 464, 1-2. Fr. U. G.

haliotoidea, Sow. (EXOXYRA), M. Con. pl. 25.

laciniata, Nilss. (EXOXYRA), P. Suec. 28, 8, 2.

Plauensis, Geinitz, Quadersand. G.

plicata, Sow. (EXOXYRA *conica*), M. Con. pl. 26.

recurvata, Sow. (EXOXYRA *conica*), M. Con. pl. 26.

semiplana, Roem. Nord. Kreid. 67, 8, 19. G. C.

CIBOTA, Brown, 1756 (*Navicula*, Blainv. 1818. *Byssoarca*, Swains, 1820).

lintea, Con. Jour. Acad. 2d s. vol. iii, 328, 34, 11. Ala., Miss. C.

Marullensis, d'Orb. Sp. (*Arca*), Gabb, 1861. E., Fr. C., N.

multiradiata, Gabb, 1860, Proc. Acad. 94, 2, 1. N. J. C.

rostellata, Morton, Sp. (*Arca*), Gabb, 1859, Cat. Cret. p. 10.

N. J. C.

— **CLAVAGELLA**, Lam. 1812.

armata, Morton, Synopsis, 67, 9, 11. Ala. C.

Cenomaniana, d'Orb. Prod. 157. Fr. U. G.

clavata, Roem. Sp. (*Teredina*), Nord. Kreid. 76, 10, 10. G. C.

* There is a species found in the marls of N. J., about an inch and a half in diameter, of which I have seen but a single cast. It is in my collection.

- cretacea, d'Orb. P. F. 300, pl. 347. Fr. C.
 Ligeriensis, d'Orb. Prod. 233. Fr. C.
 *semisulcata, Forbes, G. T. vol. vii, 139, 17, 1. India. C.

— CORBIS, Cuv. 1817.

- corrugata, Sow. Sp. (*Sphaera*), d'Orb. Prod. 78. E, Fr. G. N.
 cordiformis, d'Orb. (corrugata), P. F. 111, 279.
 Gaultiana, P. & R. Env. Genève. 448, 34, 4. Fr. G.
 multilamellosa, d'Orb. Prod. 293. Fr. *Danien*.
 obovata, Sow. Sp. (*Astarte*), d'Orb. Prod. 78. E. N.
 rotundata, d'Orb. P. F. 113, 280. Fr. U. G.
 striato-costata, d'Orb. P. F. 114, 281, 1-2. Fr. C.
 sublamellosa, d'Orb. Prod. 293. Fr. *Danien*.

— CORBULA, Brug. 1792.

- aequivalvis*, Goldf. (PAPYRIDEA), P. Germ. 250, 151, 15.
 alata, Sow. G. T. vol. iv, 176, 21, 5. E. N.
angustata, Sow. 1821, not Sow. 1826 (subangustata), G. T.
 vol. iii, pl. 38, f. 4.
carinata, d'Orb. (Neocomensis), P. F. 457, 388, 3-5.
caudata, Tuomey, not Nilss. (subcaudata), 1855, Proc. Acad.
 p. 170.
 Chiliensis, d'Orb. Voy. Astrol. pl. 2, 11-12. Chili. C.
 cochlearia, d'Orb. id. pl. 5, 14, 17. India. C.
 Colombiana, d'Orb. Coq. et Echin. Foss. de Col. p. 49. N.
 Grenada. N.
compressa, d'Orb. not Lea, American Eocene (pseudocom-
 pressa), P. F. 458, 388, 6-8.
costae, Sharpe, Q. J. G. S. vol. vi, 181, 20, 2. Portugal.
 "Lower Cretaceous."
crassimarginata, M. & H. 1860, Proc. Acad. p. 425. Nebraska. C.
crassiplica, Gabb, 1860, Jour. Acad. 2d s. vol. iv, 394, 68, 25.
 N. J., Tenn. C.
elegans, Sow. M. Con. 139, 572, 1. E., G., Fr. U. G.
elegans, d'Orb. not Sow. (elegantula), P. F. 460, 388, 14-17.
elegantula, d'Orb. Prod. 118. Fr., E. L. G.
 Edwardii, Sharpe, Q. J. G. S. vol. vi, 181, 21, 2. Portugal.
 "Lower Cret."

* Gastrochoena, on the plate.

- gigantea*, Sow. M. Con. 209. E. *U. G.*
Eufalensis, Con. Jour. Acad. 2d s. vol. iv, 283, Ala. *C.*
Eufalensis, Gabb (Hilgardii), id. 394, 68, 26.
Goldfussiana, Math. Catal. 143, 13, 9-10. Fr. *C.*
Graysonensis, Shum. Trans. Acad. St. Louis, 1860, p. 603.
 Texas. *C.*
? gregaria, M. & H. (CORBULAMELLA), 1856, Proc. Acad. p. 84.
Hilgardii, Gabb, 1861 (*Eufalensis* G. not Con.). Ala. *C.*
incerta, d'Orb. P. F. 456, 388, 1-2. Fr. *N.*
inornata, M. & H. 1858, Proc. Acad. p. 52. Nebraska. *C.*
laevigata, Sow. (UNICARDIUM), d'Orb. Prod. 163. E. *U. G.*
lanceolata, Gein. (ANATINA), Nacht. Kreid. 12, 2, 3.
lineata, Müll. Aach. Kreid. 26, 2, 6. G. *C.*
minima, d'Orb. Voy. Astrol. pl. 5, 18-20. India. *C.*
Moreauensis, M. & H. (NEAERA), Proc. Acad. 1856, p. 83.
Neocomensis, d'Orb. Prod. 76. Portugal, Fr. *N.*
obtusa, Müll. Aach. Kreid. 26, 2, 7. G. *C.*
occidentalis, Con. Emory's Rep. 150, 6, 9. Texas. *C.*
pseudocompressa, Gabb, 1861 (*compressa* d'Orb. not Lea). Fr. *N.*
punctosum, Phil. Geol. York, 94, 2, 6. E. *L. G.*
socialis, d'Orb. Prod. 136. Fr. *G.*
striatula, Sow. M. Con. pl. 527. E., Fr., G. *N., L. G.*
striatula, Goldf. not Sow. (substriatula), P. Germ. 251, 151, 16.
striatuloides, Forbes, G. T. vol. vii, 141, 18, 14. India. *C.*
subangustata, d'Orb. Prod. 238. G. *C.*
subcaudata, Gabb, 1861 (*caudata*, Tuomey, not Nilss.). Ala. *C.*
subcompressa, Gabb, Jour. Acad. 2d s. vol. iv, 394, 68, 24.
 Tenn., N. J. *C.*
subglobosa, Goldf. (LUCINA), Petrif. Germ. 251, 151, 18.
sublineolata, Con. Lynch's Exped. 222, 16, 83. Syria. *C.*
substriatula, d'Orb. Prod. 238. G. *C.*
Syriaca, Con. Lynch's Exped. 222, 21, 125. Syria. *C.*
truncata, Sow. G. T. vol. iv, pl. 18, f. 8. E., Fr. *U. G.*
truncata, d'Orb. not Sow. (Goldfussiana), P. F. 461, 388, 18-20.
Tuomeyi, Shumard, Trans. Acad. St. Louis, 1860, p. 604.
 Texas. *C.*
ventricosa, M. & H. (NEAERA), 1856, Proc. Acad. p. 83.

— CORBULAMELLA, Meek & Hayden, 1857.

- gregarea*, M. & H. (? *Corbula*), Proc. Acad. 1857, p. 143.
 Neb. *C.*

— Corimya, Agas. 1843.

Nicoleti, Agas. (THRACIA), Etud. Crit. 272, 37, 1-6.

taurica, Agas. (THRACIA), id. 273, 39, 12, 13.

vulvaria, Agas. (THRACIA), id. 272, 37, 7-11.

— CRASSATELLA, Lam. 1799.

* <i>Alabamensis</i> , d'Orb. Prod. 239. Ala.	<i>C.</i>
<i>arcacea</i> , Roem. Nord. Kreid. 74, 9, 24. G.	<i>C.</i>
? <i>Bockschii</i> , Gein. Nacht. Kreid. 12, 2, 17-18. G.	<i>C.</i>
<i>Bosquetiana</i> , d'Orb. Prod. 239. G.	<i>C.</i>
<i>Buchiana</i> , Karst. Geog. Verh. N. Gren. pl. 5, f. 7. N. Gren.	<i>C.</i>
<i>Cornueliana</i> , d'Orb. P. F. 74, 264, 7-9. Fr.	<i>N.</i>
<i>cuneata</i> , Gabb, 1861 (<i>pteropsis</i> , Gabb, not <i>Con.</i>). Ala., Tenn.	<i>C.</i>
<i>Dufrenoyi</i> , Leym. M. G. S. F. 2d s. vol. iv, 194, pl. a. f. 15.	
Fr.	<i>C.</i>
<i>Delawarensis</i> , Gabb, Jour. Acad. 2d s. vol. iv, 303, 48, 20.	
Del., N. J.	<i>C.</i>
<i>Evansii</i> , H. & M. Mem. Acad. Boston, 2d s. vol. v, 383, 1, 9.	
Nebraska.	<i>C.</i>
<i>Fisiana</i> , P. & R. Env. Genève. 440, 33, 4. Fr.	<i>G.</i>
<i>Galliennei</i> , d'Orb. P. F. 81, 266 bis, 6-8. Fr.	<i>U. G.</i>
<i>Galloprovincialis</i> , Math. Catal. 142, 13, 8. Fr.	<i>C.</i>
<i>Guerangeri</i> , d'Orb. P. F. 76, 265, 1-2. Fr.	<i>U. G.</i>
<i>Hellica</i> , d'Orb. Prod. 293. Fr.	<i>Danien.</i>
<i>impressa</i> , Sow. G. T. vol. iii, pl. 38, f. 3. G.	<i>C.</i>
<i>inornata</i> , d'Orb. Prod. 136. Fr.	<i>G.</i>
<i>Ligeriensis</i> , d'Orb. P. F. 77, 265, 3-5. Fr.	<i>U. G.</i>
<i>lintea</i> , Con. Jour. Acad. 2d s. vol. iv, 279, 46, 5. Ala., Miss.	<i>C.</i>
<i>Marrotiana</i> , d'Orb. P. F. 82, 266, 8-9. Fr.	<i>C.</i>
<i>Monmouthensis</i> , Gabb, Jour. Acad. 2d s. vol. iv, 302, 48, 19.	
N. J., Ala., Tenn.	<i>C.</i>
<i>Neptuni</i> , d'Orb. Prod. 160. Fr.	<i>U. G.</i>

* It is utterly impossible to identify with any degree of certainty the species described in the "Prodrome." The only description given of this species is "Espèce voisine du *C. Marrotiana*, mais plus large à l'extrémité anale; ayant une tout autre forme que le *C. vadosa*, Mort." This description is even more full than the average, but can be applied with equal propriety to four other known species.

- Normaniana, d'Orb. Prod. 239. Fr. *C.*
 oblonga, Reuss, Sp. (*Cyprina*), d'Orb. Prod. 239. G. *C.*
 orbicularis, Math. Cat. 141, 13, 7. Fr. *C.*
 pentagona, Reuss, Sp. (*Venus*), d'Orb. Prod. 239. G. *C.*
 pisolithica, d'Orb. Prod. 293. Fr. *Danien.*
protracta, Reuss (*CYPRICARDIA*), Böhm. Kreid. 3, 37, 15.
pteropsis, Con. Jour. Acad. 2d s. vol. iv, 279, 46, 5. Ala.,
 Miss. *C.*
pteropsis, Gabb, *not Con.* (*cuneata*), id. 395, 68, 28.
 Pyrenaica, d'Orb. P. F. 78, 265, 6, 7. Fr. ***
quadrata, d'Arc. *not d' Orb.* (*CYPRINA* *Archiaciana*), M. G. S.
 F. vol. ii, 301, 14, 1.
 regularis, d'Orb. P. F. 80, 266, 4-7. Fr. *C.*
Ripleyana, Con. (*vadosa*), Jour. Acad. 2d s. vol. iii, 327, 35, 3.
 Robinaldini, d'Orb. P. F. 75, 264, 10-13. Fr. *N.*
 Sabaudiana, P. & R. Env. Genève. 440, 33, 3. Fr. *G.*
 Saxoneti, P. & R. id. 439, 33, 2. Fr. *G.*
 subgibbosula, d'Arc. M. G. S. F. 2d s. vol. ii, 301, 14, 2-3.
 Fr. *U. G.*
 subplana, Con. Jour. Acad. 2d s. vol. ii, 274, 24, 9. Ala. *C.*
 Syriaca, Con. Lynch's Exped. 223, 17, 100. Syria. *C.*
trapezoidalis, Roem. (*CYPRICARDIA*), Nord. Kreid. 74, 9, 22.
tricarinata, Roem. (*CYPRICARDIA*), id. 74, 9, 23.
 vadosa, Morton, Synopsis, 66, 13, 12. N. J., Del., Ala., Miss.,
 Tenn. *C.*
 Vendinnensis, d'Orb. P. F. 79, 266, 1-3. Fr. *U. G.*

— **Crassina**, Lam. 1818 (**ASTARTE**, Sow. 1816).

laevis, Phil. Geol. Yorkshire (**ASTARTE**), pl. 2, f. 18.

CRENELLA, Brown, 1827.

S. G. *Stalagmium*, Con. 1860.

serica, Con. Jour. Acad. 2d s. vol. iv, 281, 46, 23. Ala. *C.*

CTENOIDES, Klein, 1753 (**Lima**, Brug. 1792).

Aeolis, d'Orb. Sp. (**Lima**), Gabb, 1861. Fr. *U. G.*
Albensis, d'Orb. Sp. " " " Fr., G. *G.*

* Referred in Prodrôme to the Eocene, stage 24; and in Pal. Fr. to the Turo-
 nien or lower chalk.

acutilineata, Con. Jour. Acad. 2d s. vol. iii, 329, 34, 2.	N. J.,	
Ala., Tenn.		C.
Alpina, P. & R. Sp. (Lima), Gabb, 1861.	Fr.	G.
amygdaloides, Reuss, Sp. (Lima), Gabb, 1861.	G.	C.
aspera, Mant. Sp. (Plagiostoma), Gabb, 1861.	E., Fr. G.	C.
Astieriana, d'Orb. Sp. (Lima), Gabb, 1861.	Fr.	U. G.
Baugasiana, d'Orb. Sp.	" " " Fr.	C.
Bolina, d'Orb. Sp.	" " " Fr.	N.
Bourgeoisiana, d'Orb. Sp.	" " " Fr.	C.
Calypso, d'Orb. Sp.	" " " Fr.	U. G.
canalifera, Goldf. Sp.	" " " G., Crimea.	U. G.
carinata, Munst. Sp.	" " " G.	U. G.
Carteroniana, d'Orb. Sp.	" " " G., Fr.	N.
Clypeiformis, d'Orb. Sp.	" " " Fr.	U. G.
Cenomanensis, d'Orb. Sp.	" " " Fr.	U. G.
Coniacensis, d'Orb. Sp.	" " " Fr.	G.
Cottaldina, d'Orb. Sp.	" " " Fr.	L. G.
crenulicosta, Roem. Sp.	" Gabb, 1859, Cat. Cret. p. 11.	
Texas, Ala., Miss., Tenn.		C.
decussata, Goldf. Sp. (Lima), Gabb, 1861.	G.	C.
dichotoma, Reuss, Sp.	" " " G. E.	C.
difficilis, d'Orb. Sp.	" " " Fr.	C.
divaricata, Duj. Sp.	" " " Fr.	C.
Dujardini, Desh. Sp.	" " " Fr.	C.
Dupiniana, d'Orb. Sp.	" " " Fr.	N.
Dutempleana, d'Orb. Sp.	" " " Fr.	C.
elegans, Duj. Sp.	" " " Fr.	C.
elegantula, d'Orb. Sp.	" " " Fr.	C.
expansa, Forbes, Sp.	" " " E., Fr.	N.
Farringdonensis, Sharpe, Sp. (Lima), Gabb, 1861.	E.	L. G.
Fittonii, d'Orb. Sp.	" " " F., E.	N.
Gallienniana, d'Orb. Sp.	" " " Fr.	U. G.
Galloprovincialis, Math. Sp.	" " " Fr.	N.
granosa, Sow. Sp.	" " " E.	C.
granulata, Nils. Sp. (Plagiostoma), Gabb, 1861.	Sw., G., Fr.	C.
Hoperi, Mant. Sp.	" " " E., Sw., G.,	
Crimea, Fr.		C., U. G.
intercostata, Duj. Sp. (Lima), Gabb, 1861.	Fr.	C.
intermedia, d'Orb. Sp.	" " " Fr.	U. G.
interstriata, Gein. Sp.	" " " G.	
Itieriana, P. & R. Sp.	" " " Fr.	G.

laevissima, Reuss, Sp. (Lima), Gabb, 1861.	G.	C.
laticosta, Roem. Sp.	" " " G.	C.
Ligeris, Duj. Sp.	" " " Fr.	C.
Leonensis, Con. Sp.	" Gabb, 1859. Cat. Cret. p. 11.	
Texas.		C.
longa, Roem. Sp.	" Gabb, 1861. G.	C.
Mantelli, Brong. Sp. (Plagiostoma), Gabb, 1861.	F. G.	C.
Marrotiana, d'Orb. Sp. (Lima), Gabb, 1861.	Fr.	C.
Marticensis, Math. Sp.	" " " Fr.	C.
Massilliensis, Math. Sp.	" " " Fr.	N.
maxima, d'Arc. Sp.	" " " Fr.	C.
minuta, Goldf. Sp.	" " " G.	C.
Montana, P. & R. Sp.	" " " Fr.	G.
multicostata, Gein. Sp.	" " " E., Fr., G.	C.
Moreana, d'Orb. Sp.	" " " Fr.	L. G., N.
Moutoniana, d'Orb. Sp.	" " " Fr.	U. G.
Neocomensis, d'Orb. Sp.	" " " Fr.	N.
Nilssonii, Roem. Sp.	" " " G.	C.
obliquestriata, Forbes, Sp.	" " " India.	C.
obsoleta, Duj. Sp.	" " " Fr.	C.
Orbignyana, Math. Sp.	" " " Fr.	N.
ornata, d'Orb. Sp.	" " " Fr.	U. G.
ovata, Nilss. Sp. (Plagiostoma),	" " Sw. G.	C.
parallela, Sow. Sp. (Modiola),	" " E., Fr.	G.
paucicostata, Reuss, Sp. (Lima),	" " G.	C.
pectita, d'Orb. Sp.	" " " Fr.	C.
pelagica, Morton, Sp. (Plagiostoma), Gabb, 1861.	N. J.	C.
pennata, d'Arc. Sp. (Lima), Gabb, 1861.	G.	U. G.
plicatilis, Duj. Sp.	" " " Fr.	C.
pseudocardium, Reuss, Sp. (Lima), Gabb, 1861.	G.	U. G.
pulchella, d'Orb. Sp.	" " " Fr.	C.
rapa, d'Orb. Sp.	" " " Fr.	U. G.
Rauliniana, d'Orb. Sp.	" " " Fr.	G.
rectangularis, d'Arc. Sp.	" " " G.	C.
Reichenbachii, Gein. Sp.	" " " G.	U. G.
Renauxiana, Math. Sp.	" " " Fr.	U. G.
resecta, d'Arc. Sp.	" " " G.	U. G.
reticulata, Lyell & Forbes, Sp.	" " 1859, Cat. Cret. p.	
11. N. J., Tenn., Ala.		C.
Reussi, d'Orb. Sp.	" " 1861. G.	C.
Rhodaniana, d'Orb. Sp.	" " " Fr., G.	G.

Rhotomagensis, d'Orb. Sp. (Lima), Gabb, 1861.	Fr.	C.
Robinaldini, d'Orb. Sp.	" " "	N.
Royeriana, d'Orb. Sp.	" " "	N.
Sabaudiana, P. & R. Sp.	" " "	G.
Santonensis, d'Orb. Sp.	" " "	C.
Saxoneti, P. & R. Sp.	" " "	G.
semiornata, d'Orb. Sp.	" " "	U. G.
semisulcata, Desh. Sp.	" " "	G., Fr. C.
septemcostata, Reuss, Sp.	" " "	G. C.
simplex, d'Orb. Sp.	" " "	Fr. U. G.
spinosa, Sow.	" " "	Eng. C.
stricta, Roem. Sp.	" " "	G. N.
subaequilateralis, d'Orb.	" " "	Fr. U. G.
subabrupta, d'Orb. Sp.	" " "	Fr. U. G.
subconsobrina, d'Orb. Sp.	" " "	E., Fr. U. G.
sublaeviuscula, Gabb, 1861 (L. laeviuscula, Sow.).	E.	C.
subovalis, Sow. Sp. (Lima), Gabb, 1861.	E.	U. G.
subplana, d'Orb. Sp.	" " " G.	C.
subrigida, Roem. Sp.	" " " G.	N.
subsemisulcata, d'Orb. Sp. (Lima), Gabb, 1861.	E.	U. G.
tecta, Goldf. Sp.	" " " Fr., G.	C., U. G.
Tombeckiana, d'Orb. Sp.	" " " Fr., G.	N.
Toucasiana, d'Orb. Sp.	" " " Fr.	C.
truncata, Munst. Sp.	" " " Fr., G.	C.
undata, Desh. Sp.	" " " E., Fr.	N.
undulata, Reuss, Sp.	" " " G.	C.
Varusensis, d'Orb. Sp.	" " " Fr.	U. G.
Wacoensis, Roem. Sp.	" " 1859, Cat. Cret. p.	
11. Texas.		C.

CUCULLAEA, Lam. 1801 (*Arca*, pars, Auct.).

aequilateralis, Meek, 1857, Trans. Alb. Inst. vol. iv, p. 39. Vancouver I.		C.
antrosa, Morton, Synopsis, 75, 13, 6. N. J., Del., Ala.		C.
Archiaciana, d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	C.
brevis, d'Orb. Voy. Am. Mer. 89, 20, 2-4. N. Grenada.		N.
Beaumontii, d'Arc. Mem. sur la Craie.	Fr.	C.
cancellata, Krauss, Nov. Act. C. L. C. vol. xx, 452, 48, 2. S. Africa.		U. G.?
capax, Con. (antrosa), Jour. Acad. 2d s. vol. iii, 328, 35, 2.		

<i>carinata</i> , Sow. M. Con. 44.	E., G., Fr.	<i>G.</i> , <i>U. G.</i>
<i>concentrica</i> , Roem. Nord. Kreid. 70, 9, 1.	G.	<i>U. G.</i>
<i>cor</i> , Math. Catal. 19, 3, 4.	Fr.	<i>N.</i>
<i>Corneuilliana</i> , d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	<i>N.</i>
<i>costellata</i> , Sow. (<i>carinata</i>), M. Con. 447.		
<i>cretacea</i> , d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	<i>C.</i>
<i>decussata</i> , Sow. M. Con. 206.	E., Fr.	<i>C.</i> , <i>L. G.</i>
<i>dilatata</i> , d'Orb. (Gabrielis), Am. Merid. 8, 9, 20, 5, 7.		
<i>exigua</i> , M. & H. 1856, Proc. Acad. p. 275.	Neb.	<i>C.</i>
<i>fibrosa</i> , Sow. M. Con. 207.	E., G., Fr. (Neb.? <i>teste M. & H.</i>)	(<i>C.</i> ?) <i>G.</i> , <i>U. G.</i>
<i>formosa</i> , Sow. G. T. vol. iv, 240, 17, 7.	E.	<i>U. G.</i>
<i>Gabrielis</i> , Leym. M. G. S. F. 2d s. vol. v, pl. 7, f. 5.	Fr., G.,	
N. Grenada.		<i>N.</i>
<i>glabra</i> , Sow. M. Con. pl. 67.	E.	<i>U. G.</i>
<i>irregularis</i> , Math. Cat. 20, 3, 5.	Fr.	<i>U. G.</i>
<i>Ligeriensis</i> , d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	<i>U. G.</i>
<i>lintea</i> , Con. Lynch's Exped. 223, 17, 95.	Syria.	<i>C.</i>
<i>Maconensis</i> , Con. Jour. Acad. vol. iv, 281, 47, 20.	Ala.	<i>C.</i>
<i>Mailleana</i> , d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	<i>U. G.</i>
<i>Marceana</i> , d'Orb. Sp. " " "	Fr.	<i>U. G.</i>
<i>Matheroniana</i> , d'Orb. Sp. " " "	Fr.	<i>C.</i>
<i>nana</i> , Leym. M. G. S. F. vol. v, 5-9, 1.	Fr.	<i>G.</i>
<i>Nebrascensis</i> , Owen Rep. I. W. & M. 582, 7, 1.	Nebraska.	<i>C.</i>
<i>obesa</i> , P. & R. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	<i>G.</i>
<i>Orbignyana</i> , Math. Catal. 161, 20, 1-2.	Fr.	<i>U. G.</i>
<i>parallela</i> , Con. Lynch's Exped. 223, 17, 98.	Syria.	<i>C.</i>
<i>Passyana</i> , d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr., Portugal.	<i>U. G.</i>
<i>Raulina</i> , Leym. M. G. S. F. vol. v, pl. 10, f. 1.	Fr.	<i>N.</i>
<i>Requieniana</i> , Math. Catal. 162, 20, 6-8.	Fr.	<i>U. G.</i>
<i>sagittata</i> , d'Arc. M. G. S. F. vol. ii, p. 189.	Fr.	<i>U. G.</i>
<i>Santonensis</i> , d'Orb. Sp. (<i>Arca</i>), Gabb, 1861.	Fr.	<i>C.</i>
<i>Schusteri</i> , Roem. Nord. Kreid. 70, 9, 3.	G.	<i>N.</i>
<i>securis</i> , Leym. M. G. S. F. vol. v, pl. 7, f. 6-7.	Fr.	<i>N.</i>
* <i>Shumardii</i> , M. & H. (<i>fibrosa</i> ?), Proc. Acad. 1856, p. 56.		
<i>striatella</i> , Mich. (<i>carinata</i>), M. G. S. F. 102, 12-11.		

* I place this species, as synonymous with *C. fibrosa*, with a query, because *C. fibrosa* has never been reported above the upper greensand in England or France. Should it prove identical, as Messrs. Meek and Hayden think, it will be one of the rare instances of a species peculiar to a certain deposit in one locality, being found in another deposit in a distant locality.

- subrotunda*, Con. Lynch's Exped. 223, 17, 94. Syria. *C.*
Tailburgensis, d'Arc. Mem. sur la Craie. Fr. *C.*
terminalis, Con. Emory's Rep. 148, 4, 2. Texas. *C.*
Tippana, Con. Jour. Acad. 2d s. vol. iii, 328, 35, 1. Ala. *C.*
Tocaymensis, d'Orb. Am. Merid. 90, 21, 1-3. N. Grenada. *N.*
trapezoidea, Gein. Charak. Kreid. 78, 20, 10. G. *U. G.*
tumida, Math. (Gabrielis), Catal. pl. 19, f. 1-2.
tumida, d'Arc. M. G. S. F. 2d s. vol. ii, p. 189. Fr. *C.*
ungula, Tuomey, 1855, Proc. Acad. p. 170. Ala. *C.*
vulgaris, Morton, Synopsis, 64, 38, pl. 13, 5. N. J., Del. *C.*

— *Cultellus*, Con. (SILIQUEA, Muhl.).

- australis*, Gabb (SILIQUEA), Proc. Acad. 1860, 198, 3, 8.
cretaceus, Gabb (SILIQUEA), Jour. Acad. 2d s. vol. iv, 308, 48, 25.

— CYPRICARDIA, Lam. 1801.

- protracta*, Reuss, Sp. (*Crassatella*), d'Orb. Prod. 240. G. *C.*
subcarinata, d'Orb. Prod. 161. Fr. *U. G.*
isocardia, d'Orb. Prod. 161. Fr. *U. G.*
orbiculata, d'Arc. (LITHODOMUS), M. G. S. F. vol. ii, p. 189.
trapezoidalis, Roem. Sp. (*Crassatella*), d'Orb. Prod. 240. G. *C.*
tricarinata, Roem. Sp. (*Crassatella*), d'Orb. Prod. 240. G. *C.*
undulata, Forbes (MODIOLA), Q. J. G. S. vol. i, 242, 3, 1.

— CYPRINA, Lam. 1801.

- angulata*, Sow. M. Con. pl. 65. E. *U. G.*
angulata, Sow. (Sowerbyi), G. T. vol. iv, p. 128. not *M. Con.*
Archiaciana, d'Orb. Prod. 161. G. *U. G.*
arenarea, M. & H. 1857, Proc. Acad. p. 143. Neb. *C.*
Bernensis, d'Arc. (rostrata), M. G. S. F. vol. v, 5, 5, 6.
Bosquetiana, d'Orb. Prod. 239. G. *C.*
Carteroni, d'Orb. Prod. 78. Fr. *N.*
compressa, M. & H. 1857, Proc. Acad. p. 144. Neb. *C.*
Conradi, Morton, Sp. (VENILIA), d'Orb. Prod. 239.
consobrina, d'Orb. P. F. 107, 278, 3-6. Fr. *C.*
cordata, Sharpe, Q. J. G. S. vol. 182, 15, 2. Portugal. *C.*
cordata, M. & H. (GLOSSUS), 1857, Proc. Acad. 143.
cordiformis, d'Orb. P. F. 101, 273. Fr. *G.*

- cuneata*, Sow. G. T. vol. iv, pl. 16, f. 19. E. U. G.
elongata, d'Orb. P. F. 106, 277, 5-6. Fr. C.
Ervyensis, Leym. M. G. S. F. vol. v, 5, 4, 6. F., G. G.
globosa, Sharpe, *not d' Orb.* (Sharpeana), Q. J. G. S. vol. vi,
 182, 15, 1.
humilis, M. & H. 1860, Proc. Acad. p. 179. Neb. C.
inornata, d'Orb. P. F. 99, 272, 1-2. Fr. L. G.
intermedia, d'Orb. P. F. 107, 278, 1-2. Fr. C.
lata, Roem. Sp. (Venus), d'Orb. Prod. 239. G. C.
Ligeriensis, d'Orb. pars. P. F. 103, 275, exclus. 4, 5. Fr. U. G.
Ligeriensis, d'Orb. pars. (Noueliana), P. F. 103, 275, 4, 5.
Neptuni, d'Orb. Prod. 161. Fr. U. G.
Noueliana, d'Orb. Prod. 195. Fr., G. C.
oblonga, d'Orb. P. F. 105, 277, 1-4. Fr., G. U. G.
oblonga, Reuss (CRASSATELLA), Böhm. Kreid. 4, 40, 15.
ovata, M. & H. 1857, Proc. Acad. p. 144. Nebraska. C.
Provincialis, d'Orb. Prod. 239. Fr. C.
quadrata, d'Orb. P. F. 104, 276. Fr. U. G.
regularis, d'Orb. P. F. 100, 272, 3-7. Fr., G. G.
Rhodani, P. & R. Env. Genève. 445, 34, 2. Fr. G.
rostrata, Sow. G. T. vol. iv, pl. 17, f. 1. E., Fr. U. G.
rostrata, d'Orb. *not Sow.* (Bernensis), P. F. 98, 271.
Royana, d'Orb. Prod. 239. Fr. C.
securiformis, Sharpe, Q. J. G. S. vol. vi, 182, 22, 1-3. Por-
 tugal. "Lower Cret."
Sowerbyi, d'Orb. Prod. 78. E. N.
Sharpeana, Gabb (*globosa*, Sharpe, *not d' Orb.*), 1861. Portugal. C.
subtumida, M. & H. 1857, Proc. Acad. p. 144. Neb. C.
triangularis, Brown (*cuneata* var. Sow.), Foss. Conch. G. B.
 207, 83, 2. E. U. G.

— *Cytherea*, Lam. 1801 (MERETRIX, Lam. 1799).

- Deweyi*, M. & H. (MERETRIX), 1856, Proc. Acad. p. 83.
excavata, Morton (DOSINIA), Synopsis, 67, 5, 1.
jucunda, Dujard. (MERETRIX), M. G. S. F. vol. ii, 228, 15, 6.
lineolata, Sow. (MERETRIX), M. Con. 20.
Herzogii, Hausm. (ASTARTE), Gotting. Gelehrte Ang. 1837,
 p. 146.
Leonensis, Con. (MERETRIX), Emory's Rep. 153, 6, 1.
Lamarensis, Shum. (MERETRIX), Trans. Acad. St. Louis, 1860,
 p. 600.

Missouriana, Morton (MERETRIX), 1842, Jour. Acad. 1st s.
vol. viii, p. 210, 11, 2.

Nebrascensis, M. & H. (MERETRIX), 1856, Proc. Acad. p. 83.

orbiculata, H. & M. (MERETRIX), M. Acad. Boston, 2d s. vol.
v, 382, 1-7.

Owenana, M. & H. (MERETRIX), 1856, Proc. Acad. 273.

pellucida, M. & H. (MERETRIX), 1856, Proc. Acad. 272.

subrotunda, Sow. (MERETRIX), G. T. vol. iv, pl. 22, f. 2.

tenuis, H. & M. (MERETRIX), Mem. Acad. Bost. 2d s. vol. v,
383, 1-8.

Texana, Con. (MERETRIX), Emory's Rep. 153, 6, 2.

uniformis, Duj. (MERETRIX), M. G. S. F. vol. ii, 223, 15, 5.

— Dione, Gray, 1840 (CALLISTA, Poli, 1791).

Delawarensis, Gabb (CALLISTA), Jour. Acad. 2d s. vol. iv,
302, 48, 18.

DIPLODONTA, Brown, 1831.

gibbosa, Gabb, Sp. (**Mysia**), 1861. N. J. C.

parilis, Con. Sp. (**Mysia**), Gabb, 1861. Ala., Miss. C.

— DONACILLA, Lam. 1812.

compressa, d'Orb. P. F. 402, 376, 3-4. Fr. U. G.

Couloni, Agas. Sp. (**Mactromya**), d'Orb. P. F. 401, 376, 1-2.

Fr. N.

— Donax, Lam. 1758.

deltoideus, Roem. (NUCULA), Nord. Kreid. 73, 9, 17.

subradiatus, Roem. (TELLINA), id. 73, 9, 16.

— DOSINIA, Scopoli, 1777 (**Artemis**, Poli, 1791).

cordata, Sharpe, Sp. (**Artemis**), Gabb, 1861. Portugal.

"Lower Cret."

densata, Con. Sp. (**Tellina**), Gabb, 1861. N. J. C.

densata, Con. (excavata), Jour. Acad. 2d s. vol. iii, 325, 34, 13.

depressa, Con. Jour. Acad. 2d s. vol. iv, 278, 46, 6. N. J.,

Ala., Miss. C.

? *elegantula*, Sharpe, Sp. (**Artemis**), Gabb, 1861. Portugal. C.

excavata, Morton, Sp. (**Cytherea**), Con. Jour. Acad. 2d s. vol.

i, pl. 24.

inelegans, Sharpe, Sp. (*Artemis*), Gabb, 1861. Port.

"Lower Cret."

lenticularis, Goldf. Sp. (*Lucina*), Gabb, 1861. G. C.

obliquata, Con. Jour. Acad. 2d s. vol. iv, 278, 46, 2. Ala., Miss. C.

DIANCHORA, J. Sow. 1814.

lata, Sow. (SPONDYLUS), M. Con. pl. 80.

obliqua, Mant. Geol. Suss. 206, 25, 1. E. C.

spinosa, Woodw. (SPONDYLUS fimbriatus), Geol. Norf. 48, 5, 24.

DICERAS, Lam. 1804.

Favri, Sharpe, Q. J. G. S. vol. vi, 183, 15, 3, and 20, 9. Port. C.

Gaultina, P. & R. Env. Genève. 493, 41, 1. Fr. G.

guttata, Sharpe, Q. J. G. S. vol. x, 197, 6, 4. E. L. G.

Lonsdalei, Sow. (CAPROTINA), G. T. vol. iv, pl. 13, f. 4.

DREISSENA, Van Benden, 1835.

Tippana, Con. Jour. Acad. 2d s. vol. iii, 328, 34, 14. Miss. C.

EXOGYRA, Say. 1819* (*Ostrea*, pars. Auct.)

aquila, Brong. Sp. (*Gryphaea*), Goldf. P. G. 36, 87, 3. E.,

Fr., G., Crimea. G., U. G.

Arduennensis, d'Orb. S. P. (*Ostrea*), Gabb, 1861. G., Fr. G.

arietina, Roem. Kreid. Tex. 68, 8, 10. Texas. C.

auricularis, Goldf. P. Germ. 39, 88, 2. G., Crimea? C.

* In retaining the generic division, Exogyra, I do not know that I can give a better explanation than that given by Leymerie, in the fourth volume of the Memoirs of the Geological Society of France. I shall therefore quote his note at length.

"Malgré l'avis plusieurs fois exprimé des conchyliologistes nous pensons qu'il est indispensable, au moins pour les besoins de la géognosie, de conserver les *Exogyres*, si ce n'est comme genre, au moins comme coupe très naturelle. Le caractère d'avoir constamment le crochet plus ou moins spirale, régulier et porté tout d'un côté sur la valve inférieure, nous paraît du reste légitimer suffisamment cette séparation, et jè pourrais citer beaucoup de genres établis sur des différences, certes, bien moins importantes.

"Personne peut-être n'a plus vu et manié d'Exogyres que moi. Des circonstances favorables m'ont permis d'étudier des gîtes ou diverses espèces se trouvaient en nombre immense, offrant toutes les variétés possibles d'âge et de forme, et jamais je n'ai vu un seule de ces ostracées passer aux véritables huitres. D'un

- Boussingaultii, d'Orb. Am. Merid. 91, 18, 20. E., Fr., G.,
 N. Grenada. N.
 bulla, Sow. G. T. vol. iv, pl. 2, f. 1. E. Weald.
 canaliculata, Sow. Sp. (**Chama**), Gabb, 1861. G., Fr., Sw.,
 E. G., C.
 caprina, Con. (Arietina), Jour. Acad. 2d s. vol. ii, 273, 24, 3-4.
 columba, Lam. Sp. (**Gryphaea**), Goldf. P. G. 34, 86, 9. E.,
 Fr., G., Crimea, Portugal. U. G.
 conica, Sow. Sp. (**Chama**), Goldf. P. G. pl. 87, f. 1. Eng.,
 Portugal, Sweden, Germany, Ireland, France. U. G.
 Couloni, DeFr. Sp. (**Gryphaea**), d'Orb. Am. Merid. 93. Fr.,
 G., Cr., N. Gren. N.
 costata, Say. 1821, Jour. Acad. 1st ser. vol. ii, p. 43. All of
 the United States except the Northwest. C.
 decussata, Goldf. (inflata), P. G. pl. 86, f. 11.
 densata, Con. Lynch's Exped. 224, 18, f. 102 and 106. Syria. C.
 flabellata, Goldf. (plicata), P. G. 38, 87, 6.
 fimbriata, Con. Proc. Acad. 1855, p. 269. Texas. C.
 foliacea, Con. per err. (fimbriata), Emory's Rep. pl. 7, f. 2.
 fragosa, Con. 1855, Proc. Acad. p. 269. Texas. C.
 harpa, Goldf. (plicata), P. G. 38, 87, 7.
 harpa, Leym. Roem. pars. not Goldf. (plicata).
 inflata, Goldf. P. G. 121, 114, 8. G., India. C.
 halioidea, Sow. Sp. (**Chama**), Goldf. pl. 88, f. 1. E., G.,
 Sw., Crimea. C., U. G.
 imbricata, Krauss. Nov. Act. C. L. C. vol. xx, 460, 50, 2. S.
 Africa. U. G.
 interrupta, Con. Jour. Acad. 2d s. vol. iii, 330, 34, 15. Miss. C.
 laciniata, Nils. Sp. (**Chama**), Goldf. 35, 86, 12. Fr., G., Sw. C.
 laevigata, Sow. (conica), M. Con. 605.

autre côté, si ces derniers offrent parfois et accidentellement un crochet tourné extérieurement, c'est là une disposition purement accidentelle et facile d'ailleurs à distinguer, par sa variabilité et son irrégularité, de celle si régulière, et si fondamentale qui caractérise les Exogyres."

My own observation, true it has been on a much more limited scale than that claimed above, accords with this in all but one individual instance. Morton's type of *Ostrea torosa* is an *E. costata*, very much deformed and with almost parallel sides,—a true oyster in form, but the beak is imperfect, and were it present, it might in its young state have shown a spiral tendency. There can be no doubt of its being the common species of *Exogyra* of New Jersey, since it has the most typical form of surface-markings and all the other characters. It is an unique example, and being a monstrosity, can have no weight as testimony to conflict with M. Leymerie's opinion.

- laeviuscula*, Roem. Kreid. Tex. 70, 9, 3. Texas. C.
lateralis, Nils. Sp. (*Ostrea*), Dub. Bull. G. S. F. vol. viii, 385.
 E., G., Fr., Sw., N. J. C.
Matheroniana, d'Orb. Sp. (plicata), Con. Emory's Rep. 154,
 8, 11.
Olisiponensis, Sharpe, Q. J. G. S. vol. vi, 185, 119, 1-2. Por-
 tugal. C.
planospiritis, Goldf. (halioidea), Petr. G. 39, 88, 3.
parvula, Leym. (lateralis), M. G. S. F. vol. v, 17, 12, 8-9.
plicata, Lam. Sp. (*Ostrea*), Goldf. 37, 87, 5. G., Fr., Texas,
 India, Chili, Spain, Syria. U. G., C.
Pyrenaica, Leym. M. G. S. F. 2d s. vol. iv, 124, pl. B, f. 4-6. Fr. C.
polygona, Von Buch. Petr. Rec. par Humb. 5, 2, 18-19. N.
 Gren. N.
Rauliniana, d'Orb. Sp. (*Ostrea*), Gabb, 1861. E., Fr., G. C.
spinosa, Math. not Roem. (plicata), Cat. 192, 32, 6-7.
sinuata, Sow. Sp. Roem. (aquila), Nord. Kreid. p. 47, no. 2.
spiralis Roem. not Lam. (Tombeckiana), Ool. p. 65.
squamata, d'Orb. Am. Merid. 92, 19, 12-15. N. Gren. N.
subcarinata, Roem. not Munst. (aquila), Kreid. 47, no. 3.
subcarinata, Munst. (conica), Goldf. P. G. 37, 82, 4.
subplicata, Roem. not *O. subplicata*, Desh. (plicata), Ool. Nach.
 pl. 18, f. 7.
subsinuata, Leym. (Couloni), M. G. S. F. vol. v, 17, 6, 7.
Texana, Roem. (plicata), Kreid. Tex. 69, 10, 1.
Tombeckiana, d'Orb. Sp. (*Ostrea*), P. F. 701, 467, 4-6. G.,
 Fr. N.
undata, Sow. (laciniata), M. Con. 605.
undata, Roem. (Tombeckiana), Nord. Kreid. p. 47.

— **Fistulana**, Brug. 1789 (GASTROCHAENA, Spengl. 1783).

- aspergilloides*, Forbes (GASTROCHAENA), G. T. vol. vii, 139, 17, 2.
constricta, Roem. (PHOLAS ROEMERI), Nord. Kreid. 76, 10, 11.
dilatata, Desh. Sp. (GASTROCHAENA), d'Orb. P. F. 394, 357, 1-4.
Marticensis, Math. (GASTROCHAENA), Catal. 132, 10, 4.
dilatata, Reuss (Marticensis), B. Kreid. 39, f. 9.
Matronensis, d'Orb. (GASTROCHAENA), P. F. 395, 375, 5-8.
pyriformis, Mant. (GASTROCHAENA), Geol. Suss. p. 76.
pistilliiformis, Reuss (LITHODOMUS), Böhm. Kreid. 20, 37, 7-8.
Royanensis, d'Orb. (GASTROCHAENA), P. F. 377, 371, 5-6.
tenuis, Reuss (GASTROCHAENA), Böhm. Kreid. 19, 33, 12, 13.

— GARI, Schum. 1817 (*Psammobia*, Lam. 1818).

cancellato-sculpta, Roem. Sp. (P.), Gabb, 1861.	Tex.	C.
gracilis, Sow. Sp. (P.), Gabb, 1861.	E.	U. G.
inconspicua, Sow. Sp. (P.), Gabb, 1861.	India.	C.
inaequalis, Sow. Sp. (<i>Tellina</i>), Gabb, 1861.	G.	U. G.
tellinoides, Sow. Sp. (P.), Gabb, 1861.	E.	Weald.

— GASTROCHAENA, Spengl. 1783 (*Fistulana*, Brug. 1789).

Americana, Gabb, Jour. Acad. 2d s. vol. iv, 393, 68, 20.	N. J.,	
Ala.		C.
aspergilloides, Forbes, Sp. (<i>Fistulana</i>), d'Orb. Prod. 235.	India.	C.
dilatata, Desh. M. G. S. F. vol. v, pl. 3, f. 1.	Fr.	L. G., N.
Marticensis, Math. Sp. (<i>Fistulana</i>), d'Orb. Prod. 194.	Fr.	C.
Matronensis, d'Orb.	" Prod. 117.	Fr. L. G.
pyriformis, Mant. Sp.	" Gabb, 1861.	E. G.
Royanensis, d'Orb.	" Prod. 235 (<i>Royana per</i>	
err.).	Fr.	C.
tenuis, Reuss, Sp.	" d'Orb. Prod. 235.	G. C.

GERVILLIA, Defr. 1820.

alaeformis, Sow. Sp. (<i>MODIOLA</i>), d'Orb. P. F. 484, 395.	Fr.,	
E.		L. G., N.
Alpina, P. & R. Env. Genève. 496, 41, 3.	Fr.	G.
anceps, Desh. M. G. S. F. vol. v, 1st s. pl. 10, f. 3.	E., Fr.,	
G., Port., N. Gren.		L. G., N.
aviculoides, Sow. (anceps), M. Con. 511.		
aviculoides, d'Orb. not Sow. (solenoides), P. F. 489, 397.		
dentata, Krauss, Nov. Act. E. L. C. vol. 20, 458, 50, 1.	S.	
Africa.		U. G.?
difficilis, d'Orb. P. F. 487, 396, 7-8.	Fr.	G.
enigma, d'Orb. P. F. 488, 396, 9-11.	Fr.	U. G.
ensiformis, Con. Jour. Acad. 2d s. vol. iii, 328, 34, 10.	N. J.,	
Ala.		C.
Fittonii, Sharpe, Q. J. G. S. vol. vi, 183, 23, 3-6.	Portugal.	
	"Lower Cret."	
Forbesianus, d'Orb. P. F. 486, 396, 5-6.	E., Fr.	L. G.
gregaria, Shumard, Trans. Acad. St. Louis, 1860, p. 606.	Texas.	C.



trigona, Roem. Sp. (<i>Isocardia</i>), Gabb, 1861.	G.	<i>C.</i>
Washita, Marcou, Sp. " " " Texas.		<i>C.</i>
Conradi, Gabb, " " " Ala., N. J.		<i>C.</i>

← *Goniomya*, Agas. 1838.

caudata, Ag. (*PHOLADOMYA Agassizii*), Etud. Crit. pl. 1, f. 1.

laevis, Ag. (*PHOLADOMYA*), id. pl. 1, f. 4-5.

Americana, M. & H. (*PHOLADOMYA*), 1856, Proc. Acad. p. 8.

GRYPHAEA, Lam. 1801.

aquila, Brong. (*EXOGYRA*), Env. de Paris, pl. 9, f. 11.

auricularis, Wahl. Sp. (*E. haliotoidea*), Desh. Ed. Lam. vol. vi, p. 207.

capuloides, Con. Lynch's Exped. 224, 18, 103, 104. Syria. *C.*

carinata, Lk. (*E. plicata*), 1802, Syst. Nat. p. 399.

columba, Lam. (*EXOGYRA*), An. S. Vert. vol. vi, p. 198.

conica, Sow. (*EXOGYRA*), Desh. Ed. Lam. vol. vii, 210.

convexa, Say, Sp. (*E. vesicularis*), Morton, Syn. 53, 4, 1-2.

Couloni, Defr. (*EXOGYRA*), Dict. Sc. Nat. vol. xix, p. 534.

Dumerillii, Defr. (*E. Coulonii*), D. Sc. Nat. vol. xix, 535.

elongata, Sow. (*vesicularis*), G. T. 2d s. vol. iii, pl. 38, f. 6.

expansa, Sow. (*vesicularis*), id. 38, f. 5.

globosa, Sow. (*vesicularis*), M. Con. 392.

haliotoidea, Sow. Sp. (*EXOGYRA*), Brown, Foss. Conch. G. B. p. 149.

harpa, Forbes, not Goldf. (*E. Boussingaultii*), Q. J. G. S. vol. i, 250, 3, 12.

laciniata, Nilss. Sp. (*EXOGYRA*), Desh. Ed. Lam. vol. vii, p. 209.

mutabilis, Morton (*vesicularis*), Syn. 53, 4, 3.

orientalis, Forbes (*E. inflata*), G. T. vol. vii, 156, 14, 6.

latissima, Lam. (*E. aquila*), An. S. Vert. vol. vi, 199.

Pitcherii, Morton, Syn. 55, 15, 9. Texas, Nebraska, Ark., Missouri, Ind. Terr., N. Mex. *C.*

planospiritis, Goldf. Sp. (*E. haliotoidea*), Desh. Ed. Lam. vol. vii, 208.

plicata, Lam. pars, not Sow. not Desh. (*EXOGYRA*), An. S. Vert. vol. vi, 199.

plicata, Lam. pars. (*E. Columba*), An. S. Vert. vol. vi, 198.

plicatella, Morton (*E. lateralis*), Silliman's Journal.

similis, Pusch. (*E. lateralis*), Polens. Pal. 34, 4, 12.

sinuata, Sow. not Lam. (*E. aquila*), M. Con. 333.

sinuata, Marcou, not Sow. not Lam. (*E. costata*, var *pondosa*), Geol. N. A. 37, 3, 1.*

segunda, Lam. (*E. conica*), An. S. Vert. vol. vi, 199.

† *dilatata* var. *Tucumcarii*, Marcou (*Pitcherii*), Geol. N. A. 43, 4, 1.

staumaloidea, Forbes (*E. inflata*), G. T. vol. vii, 156, 17, 15.

vesicularis, Lam. Sp. (*Ostrea*), Brown, Leth. Geog. pl. 32, 1.

Everywhere.

C.

vesiculosa, Sow. (*vesicularis*), M. Con. 369.

vomer, Morton (*E. lateralis*), Synopsis, 54, 9, 5.

— HETTANGIA.

Americana, M. & H. (*TANCREDIA*), 1856, Proc. Acad. p. 274.

HINNITES, Defr. 1821.

Leymerii, Desh. M. G. S. F. vol. v, 27, 14, 1. Fr. N.

Favrinus, P. & R. Env. Genève. 503, 43, 2, pl. 44. Fr. G.

Studerii, P. & R. id. 504, 45, 1. Fr. G.

— Homomya, Agas. 1842.

alta, Roem. (*PHOLADOMYA*), Kreid. Tex. 45, 6, 11.

INOCERAMUS, Pork. 1811 (*Catillus*, Brong. 1822).

alatus, Goldf. P. Germ. 116, 112, 3. G. C.

alveatus, Morton, Syn. 63, 17, 4. Ala. C.

angulatus, d'Orb. P. F. 515, 408, 3, 4. Fr. U. G.

annulatus, Goldf. P. Germ. pl. 110, f. 7. G., Fr. C.

aratus, Con. Lynch's Exped. 226, 19, 113. Syria. C.

argenteus, Con. Jour. Acad. 2d s. vol. iii, 329, 34, 16. Miss. C.

aviculoides, M. & H. Proc. Acad. 181. Nebraska. C.

* Prof. Marcou appears vexed that American Palaeontologists refuse to follow him, in his obviously incorrect determination of the species, in the work quoted above. If we acknowledge the above species to be *sinuata*, then *E. costata* is only a variety of the same species, for I have seen every intermediate form between this and the closely costate variety.

† For remarks on *G. Tucumcarii*, see Proc. Acad. Nat. Sci. for December, 1860. It is incorrectly referred to the Jurassic by Prof. Marcou.

- Barabini, Morton, pars. Syn. 62, 13, 11 (*exclus.* 17, 3). Mis-
souri, N. J. ?* *C.*
- Barabini*, M. pars (*problematicus* ?), 62, 63, pl. 17, f. 3.
- Balchii, M. & H. Proc. Acad. 1860, p. 180. Neb. *C.*
- Brongniartii*, Mant. (*Lamarekii*), Geol. Suss. 214, 27, 8.
- cancellatus*, Goldf. P. Germ. 113, 110, 4. G. *C.*
- Canadensis*, Meek. Assin. Exped. 183, 1, 40. Canada. *C.*
- capulus*, Shum. Trans. Acad. St. Louis, 1860, p. 606. Texas. *C.*
- cardissioides*, Goldf. P. G. 112, 110, 2. G. *U. G.*
- concentricus*, Park. G. T. 1st ser. vol. v, 58, 1, 4. E., Fr. *G.*
- confertim-annulatus*, Roem. Kreid. Tex. 59, 7, 4. Texas. *C.*
- Conradi, H. & M. Mem. Acad. Boston, 2d s. vol. v, 387, 2, 5.
Neb. *C.*
- convexus*, H. & M. id. 386, 2, 2. Neb. *C.*
- Coquandianus, d'Orb. P. F. 505, 403, 6-8. Fr. *G.*
- cordiformis*, Sow. (*striatus*), M. Con. 440.
- cordiformis*, Goldf. *not* Sow. (*latus*), Petr. 113, 110, 6.
- costellatus*, Con. Jour. Acad. 2d s. vol. iii, 329, 34, 12. Miss. *C.*
- Crispii*, Mant. Geol. Suss. 133, 27, 11. E., Fr., Texas. *C.*
- Crispii*, Goldf. *not* Mant. (*regularis*), 116, 112, 4, a, b, c,
(*exclus. d.*)
- Crispii*, Goldf. *not* Mant. (*Goldfussianus*), Petr. 116, 112, 4 d.
- cuneatus*, M. & H. Proc. Acad. 1860, p. 181. Neb. *C.*
- cuneiformis*, d'Orb. P. F. 512, 407. Fr. *C.*
- Cuvieri*, Mant. (*Lamarekii*), Geol. Suss. pl. 27, f. 4.
- Decheni, Roem. Nord. Kreid. 60, 8, 10. G. *U. G.*
- expansus*, Baily, Q. J. G. S. vol. xi, 462, 13, 5. S. Africa. *U. G.*
- fragilis*, H. & M. Mem. Acad. Boston, 2d s. vol. v, 386, 2, 6.
Neb. *C.*
- †*gibbus*, Tuomey, 1855, Proc. Acad. p. 170. Miss. *C.*
- Goldfussianus*, d'Orb. P. F. 517, 4-11. Fr., G. *C.*
- gryphaeoides*, Sow. (*concentricus*), M. Con. 584.

* I have never (except in the "Ripley group," which has a mineral character very much like the Speeton clay of England) seen but one or two fragments of *Inocerami* from New Jersey, where there are whole beds composed of shells. One very much mutilated fragment I have referred, doubtfully, to this species. It is a curious fact that there should be such a scarcity, even of individuals, when beds of the same age in other parts of the United States teem with them.

† Tuomey says that this species is the same as the form of *I. Barabini*, which I refer above to *I. problematicus*? It may possibly be distinct, but I am not prepared to express an opinion, having seen only the one specimen of Morton's, which is a fragment.

- impressus*, d'Orb. P. F. 515, 409. Fr. C.
incurvus, M. & H. 1856, Proc. Acad. 277. Neb. C.
inflatus, Tuomey, 1855, Proc. Acad. p. 171. Ala. C.
involutus, Sow. M. Con. 583. E., Fr. C.
Lamarekii, Brong. Env. Par. 338. E., Fr., G., Sw., Crimea. C.
Lamarekii, Mant. *not* Brong. (*striatus*), pl. 27, f. 1.
latus, Mant. Geol. Suss. 216, 27, 10. E., Fr., G., Texas.* C.
Lerouxii, Marcou, Geol. N. A. 36, 2, 3. Texas. C.
lingua, Goldf. Petr. 113, 110, 5. G. C.
lobatus, Goldf. id. 110, 3. G. C.
Mortoni, M. & H. 1860, Proc. Acad. 428. Neb. C.
mytiloides, Mant. (*problematicus*), Geol. Suss. pl. 28, f. 2.
mytiloides, Roem. *not* Mant. (*mytilopsis*), Kreid. Tex. 60, 7, 5.
mytilopsis, Con. Emory's Rep. 153, 5, 6. Texas. C.
Nebrascensis, Owen, Rep. J. W. & M. 582, pl. 8, a, f. 1. Neb. C.
Neocomensis, d'Orb. P. F. 503, 403, 1-2. Fr. N.
orbicularis, Munst. in Goldf. P. G. 117, 113, 2. G. C.
perovalis, Con. 1852, Proc. Acad. p. 200. Ala. C.
pertenuis, M. & H. 1856, Proc. Acad. p. 276. Neb. C.
pertenuis, var. *subdepressus*, M. & H. 1860, Proc. Acad. p.
427. Neb. C.
pernoides, Math. (*striatus*), Catal. pl. 25, f. 5.
pictus, Sow. (*striatus*), M. Con. 604.
planus, Munst. in Goldf. 117, 133, 1. Fr., G. C.
plicatus, d'Orb. Coq. Foss. Col. 56, 3, 19. N. Grenada. N.
problematicus, Schlot. Sp. (*Mytilus*), d'Orb. P. F. 510, 406.
Fr., G., E., Western United States. C.
propinquus, Goldf. P. Germ. 112, 109, 9. G., E. C.
proximus, Tuomey, 1855, Proc. Acad. p. 171. Ala. C.
pseudo-mytiloides, Schiel. 1855, Pacific R. R. Rep. vol. ii, 108,
3, 8. Neb. C.
regularis, d'Orb. P. F. 516, 410. Fr. C.
Sagensis, Owen, Rep. J. W. & M. 582, 7, 3. Neb. C.

* This species, together with *I. problematicus* and several other of the lower chalk species, appear to be common to Europe, and the United States west of the Mississippi; and I am inclined to think that the divisions Nos. 1 and 2, and a part or perhaps the whole of No. 3 of Meek and Hayden's section in Nebraska, and some of the lower beds of Texas, may be found to be of the same age as the lower chalk of England, the *Turonien* of d'Orbigny. The beds of New Jersey (except perhaps the leaf bed which appears to correspond to No. 1), and of the Southern States east of the Mississippi, are all above No. 3, while in Texas, Arkansas, and Indian Territory, the lower deposits are found.

- salaebrosus*, Tuomey, 1855, Proc. Acad. 171. Ala. *C.*
Salomonì, d'Orb. Prod. 139. Fr., G. *G.*
siliqua, Math. Cat. 174, 25, 6. Fr. *C.*
striatus, Mant. Geol. Suss. 217, 28, 5. E., Fr., G., Texas. *C.*
subcompressus, M. & H. 1860, Proc. Acad. 181. Neb. *C.*
sublaevis, H. & M. Mem. Acad. Boston, vol. v, 386, 2, 1. Neb. *C.*
sulcatus, Park. G. T. 1st s. vol. v, 59, 1, 5. E., G., Fr., Sw. *U. G.*, *G.*
Roemeri, Karst. Geog. Verh. Neu. Gren. pl. 5, f. 6. N.
 Grenada. *N.*
tenuilineatus, H. & M. Mem. Acad. Boston, 387, 2, 3. Neb. *C.*
tenuis, Mant. Geol. Suss. 132. E. *G.*
triangularis, Tuomey, 1855, Proc. Acad. p. 171. Ala. *C.*
undulato-plicatus, Roem. Kreid. Tex. 59, 7, 1. Texas. *C.*
undulatus, Mant. (*striatus*), G. Suss. 217, 27, 6.
Vanuxemensis, Shumard, Trans. Acad. St. Louis, vol. i, p. 123.
 Neb. *C.*
Vanuxemii, M. & H. Proc. Acad. p. 180 (1860). Neb. *C.*
Texanus, Con. Emory's Rep. 152, 5, 7. Texas. *C.*
ventricosus, M. & H. *not Sow.* (*pertenuis*), 1856, Proc. Acad.
 p. 56.
Websteri, Mant. Geol. Suss. 216, 27, 21. E. *C.*

ISOARCA, Munst. 1842.

- Agassizii*, P. & R. Env. Genève. 466, 38, 3. Fr. *G.*
Alpina, d'Orb. Prod. 79. Fr. *N.*
costata, d'Orb. Prod. 138. Fr. *G.*
globulosa, d'Orb. Prod. 106. Fr. *N.*
obesa, d'Orb. (*Nucula*), Prod. 163. Fr., G. *U. G.*
supracretacea, d'Orb. Prod. 243. Fr. *C.*

Isocardia, Lam. 1799 (GLOSSUS, Poli, 1795*).

- angulata*, Phil. (G.), Geol. York, 94, 2, 20, 21.
Ataxensis, d'Orb. (*longirostris*), P. F. 47, 251, 3-6.
Carantonensis, d'Orb. (G.), P. F. 48, 252, 1-4.
Conradi, Gabb (G.), Jour. Acad. 2d s. vol. iv, 393, 68, 21.
crassicornis, Ag. Sp. (G.), d'Orb. Prod. 137.
crassicornis, Ag. Sp. *pars* (*ISOARCA Agassizii*), id. 137.
cretacea, Goldf. (G.), P. Germ. pl. 141, f. 1.

* See note under *Bucardia*.

- cryptoceras*, d'Orb. (G.), P. F. 48, 252, 5, 7.
longirostris, Roem. (G.), Nord. Kreid. 70, 9, 6.
lunulata, Roem. not *Nyst.* (sublunulata), Nord. Kreid. 70, 9, 5.
modiola, Nils. Sp. (G.), d'Orb. Prod. 242.
Neocomensis, Ag. Sp. (G.), d'Orb. P. F. 44, 250, 9-11.
obliqua, d'Orb. (G.), Prod. 163.
Orbignyana, d'Arc. (ISOARCA obesa), M. G. S. F. 1847, pl. 15, f. 1.
ornata, Forbes (OPIS), Q. J. G. S. vol. i, 242, 2, 10.
praelonga, Leym. (G.), M. G. S. F. 2d s. vol. v, 6, 8, 3.
pygmaea, Reuss (G.), Böhm. Kreid. 2, 35, 14.
Pyrenaica, d'Orb. (G.), P. F. 46, 251, 1, 2.
Renauxiana, d'Orb. (G.), Prod. 196.
semiradiata, d'Orb. (G.), Prod. 163.
similis, Sow. (G.), M. Con. 516.
sublunulata, d'Orb. (G.), Prod. 242.
subsinuata, Forbes (G.), G. T. vol. vii, 146, 17, 12.
trigona, Roem. (G.), Nord. Kreid. 70, 9, 7.
turgida, Reuss (cretacea), Böhm. Kreid. pl. 40, f. 16.
Washita, Marcou (G.), Geol. N. A. 37, 3, 2.

Janira, d'Orb. not *Schum.* 1817* (NEITHEA; Drouet, 1821).

- aequicostata*, Lam. Sp. (N.), d'Orb. P. F. 637, 445, 1-4.
alata, Von. Buch. Sp. (N.), d'Orb. Prod. 107.
Albensis, d'Orb. (N.), Prod. 139.
Alpina, d'Orb. (N.), P. F. 643, 446, 4-8.
Atava, Roem. Sp. (N.), d'Orb. P. F. 647, 442, 1, 3, 5.
Carantonensis, d'Orb. (N.), Prod. 170.
cometa, d'Orb. (N.), P. F. 642, 446, 1-3.
craticula, Morton, Sp. (PECTEN), d'Orb. Prod. 253.
decemcostata, d'Orb. (N.), P. F. 669, 449, 1-4.
Deshayesiana, Math. Sp. (N.), d'Orb. P. F. 626, 441.
digitalis, Roem. Sp. (N.), d'Orb. P. F. 642, 446, 1-3.
dilatata, d'Orb. (N.), P. F. 638, 445, 5-8.
Dufrenoyi, d'Orb. (N.), Prod. 107.

* The Cretaceous species referred by d'Orbigny and others to the genus *Janira*, are certainly generically different from the type *Pecten maximus*. They form a group to which Drouet gave the name *Neithea*. They have the following distinguishing characters, and appear to be peculiar to the Cretaceous formation: the lower valve convex, upper valve flat or more generally concave, and with about six large ribs and several smaller intermediate ones. The large ribs give the outline a somewhat angular form; this last character is never seen in *Janira*.

- Dutemplei*, d'Orb. (N.), P. F. 646, 447, 8-11.
Faucignyana, P. & R. (N.), Env. Genève. 505, 45, 2.
Fleuriausiana, d'Orb. (N.), P. F. 631, 443.
Fontanieri, d'Orb. (N.), Voy. Astrol. pl. iv, f. 38-40.
Geinitzii, d'Orb. (N.), Prod. 197.
Hispanica, d'Orb. (N.), Prod. 170.
longicauda, d'Orb. (N.), P. F. 639, 445, 9-14.
Makovii, Dubois, Sp. (N.), d'Orb. Prod. 253.
Mortonii, d'Orb. (N.), Prod. 253.
Neocomensis, d'Orb. (N.), P. F. 629, 442, 4-9.
notabilis, Munst. Sp. (N.), d'Orb. Prod. 170.
phaseola, d'Orb. (N.), P. F. 625, 444, 6-10.
Podolica, d'Orb. (N.), Prod. 253.
quadrucostata, Sow. Sp. (N.), d'Orb. P. F. 644, 447, 1-7.
quinquecostata, Sow. Sp. (N.), d'Orb. P. F. 632, 444, 1, 5.
Royeriana, d'Orb. (N.), Prod. 119.
sexangularis, d'Orb. (N.), P. F. 648, 448, 5-8.
Simbriskensis, d'Orb. (N.), Prod. 253.
striato-costata, Goldf. Sp. (N.), d'Orb. Prod. 170.
striato-costata, d'Orb. (N. substriato-costata), P. F.
substriato-costata, d'Orb. (N.), Prod. 253.
Syriaca, Con. (N.), Lynch's Exped. 230, Appendix 1-6.
Truellei, d'Orb. (N.), P. F. 648, 448, 5-8.
Wrightii, Shum. (N.), 1860, Trans. Acad. St. Louis, p. 607.

KELLIA, Turton, 1822.

cretacea, Con. Jour. Acad. 2d s. vol. iv, 280, 46, 19. Ala., Miss. C.

— LAVIGNON, Cuv. 1817.

- Clementina*, d'Orb. P. F. 406, 377, 5, 7. Fr. *G.*
minuta, Agas. Sp. (*Platymya*), d'Orb. P. F. 405, 337, 1, 4.
 Fr. *L. G.*
phaseolina, Phil. Sp. (*Mya*), d'Orb. P. F. 407. E. *L. G.*
phaseolina, d'Orb. not *Phil.* (subphaseolina), P. F. 407, 379, 8, 10.
rhomboidalis, Leym. Sp. (*Pholadomya*), d'Orb. Prod. 75. Fr. *N.*
subphaseolina, d'Orb. Prod. 136. Fr. *G.*

LEDA, Schum. 1817.

- angulata*, Sow. Sp. (*Nucula*), d'Orb. Prod. 159. E. *U. G.*
angulata, Gabb (subangulata), Proc. Acad. 1860, 94, 2, 12.

- Evansii*, M. & H. (YOLDIA), Proc. Acad. 1860, p. 185.
falcata, Reuss, Sp. (**Nucula**), d'Orb. Prod. 236. G. C.
fibrosa, Ev. & Shum. 1857, Trans. Acad. St. Louis, p. 39. Neb. C.
Forsteri, Müll. Sp. (**Nucula**), d'Orb. Prod. 236. G. C.
Hindi, Meek (NEILO), Assin. & Saskat. Exped. 183, 1-8-9.
Indica, d'Orb. (*striatula*), Voy. Astrol. pl. 5, f. 11-13.
lineata, Sow. Sp. (**Nucula**), d'Orb. Prod. 159. E. U. G.
longifrons, Con. Jour. Acad. 2d s. vol. iv, 281, 46, 18. Ala.,
Miss., N. J. C.
Mariae, d'Orb. (**Nucula**), Prod. 136. Fr. G.
Moreauensis, M. & H. (NEAERA), Proc. Acad. vol. viii, 284.
ovata, Reuss, Sp. (**Nucula**), d'Orb. Prod. 236. G. C.
pinnaeformis, Gabb, Jour. Acad. 2d s. vol. iv, 303, 48, 22. N. J. C.
porrecta, Reuss, Sp. (**Nucula**), d'Orb. Prod. 159. G. U. G.
producta, Nilss. Sp. (**Nucula**), d'Orb. Prod. 236. G., Sw. C.
pulchra, Sow. Dixon's Geol. Suss. 346, 28, 10. E. C.
protexta, Gabb, Jour. Acad. 2d s. vol. iv, 303, 48, 23. N. J.,
Tenn. C.
scapha, d'Orb. (**Nucula**), Prod. 75. Fr., N. Gren. N.
scitula, M. & H. (YOLDIA), 1860, Proc. Acad. p. 185.
semilunaris, Buch. Sp. (**Nucula**), d'Orb. Prod. 236. G. C.
siliqua, Goldf. Sp. (**Nucula**), d'Orb. Prod. 236. G. C.
Slackiana, Gabb, Jour. Acad. 2d s. vol. iv, 397, 68, 36. N. J. C.
solea, d'Orb. (**Nucula**), Prod. 136. Fr. G.
striatula, Forbes, G. T. 2d s. vol. vii, 148, 17, 14. India. C.
subangulata, Gabb (*angulata* Gabb, not d'Orb.). N. J. C.
subaequalis, Reuss, Sp. (**Nucula**), d'Orb. Prod. 236. G. C.
subnasuta, H. & M. Sp. (YOLDIA), M. & H. 1860, Proc. Acad. 429.
subrecurva, d'Orb. (**Nucula**), Prod. 136. Fr. G.
tenuirostris, Reuss, Sp. " d'Orb. Prod. 236. G. C.
undulata, Sow. Sp. " d'Orb. Prod. 136. E. G.
ventricosa, M. & H. (NEAERA), Proc. Acad. vol. viii, p. 248.
ventricosa, H. & M. Sp. (YOLDIA), M. & H. Proc. Acad.
(1860), p. 429.
Vibrayeana, d'Orb. (**Nucula**), Prod. 136. Fr. G.

LEGUMEN, Con. 1858.

- appressus*, Con. Jour. Acad. 2d s. vol. iii, p. 325. Ala., Miss. C.
ellipticus, Con. id. 325, 34, 19. Ala., Miss., N. J. C.
planulata, Con. Sp. (**Solemya**), Gabb, 1861. N. J., Ala. C.

— **Leguminaria**, Schum. 1817 (SILIQUEA, Mühlf. 1811).

Moreana, d'Orb. (SILIQUEA), P. F. 324, 350, 8, 9.

Nereis, d'Orb. (SILIQUEA), Prod. 158.

truncatula, Reuss, Sp. (SILIQUEA), d'Orb. Prod. 235.

Lembulus, Leach, 1826 (LEDA, Schum. 1817).

productus, Nilss. Sp. (LEDA), Gein. Verst. 420, 19, 15.

Lima, Brug. 1792 (CTENOIDES, Klein. 1753).

abrupta, d'Orb. *not Goldf.* (CTENOIDES subabrupta), P. F. 559, 423, 6-9.

Aeolis, d'Orb. (CTENOIDES), Prod. 167.

Albensis, d'Orb. (CTENOIDES), P. F. 541, 416, 15-16.

Alpina, P. & R. (CTENOIDES), Env. Genève. 486, 40, 7.

amygdaloides, Reuss (CTENOIDES), Böhm. Kreid. 33, 38, 16.

arcuata, Gein. (C. divaricata).

aspera, Mant. Sp. (CTENOIDES), Goldf. P. Germ. pl. 104, f. 4.

Astieriana, d'Orb. (CTENOIDES), P. F. 549, 420, 4-7.

Baugasiana, d'Orb. (CTENOIDES), Prod. 248.

Bolina, d'Orb. (CTENOIDES), Prod. 107.

Bourgeoisiana, d'Orb. (CTENOIDES), Prod. 248.

Calypso, d'Orb. (CTENOIDES), Prod. 167.

canalifera, Goldf. (CTENOIDES), P. Germ. pl. 104, f. 1.

carinata, Munst. (CTENOIDES), Goldf. P. G. 104, f. 2.

Carteroniana, d'Orb. (CTENOIDES), P. F. 525, 414, 1-4.

clypeiformis, d'Orb. (CTENOIDES), P. F. 543, 417, 9-10.

Cenomanensis, d'Orb. (CTENOIDES), P. F. 552, 421, 11, 15.

comata, Desh. (C. undata), M. G. S. F. vol. v, 10, 8, 7.

consobrina, d'Orb. (C. subconsobrina), P. F. 566, 422, 4-7.

Coniacensis, d'Orb. (CTENOIDES), Prod. 248.

Cottaldina, d'Orb. (CTENOIDES), P. F. 537, 416, 1-5.

crenulicosta, Roem. (CTENOIDES), Kreid. Tex. 63, 8, 8.

decussata, Goldf. (CTENOIDES), Petrif. Germ. pl. 104, f. 5.

dichotoma, Reuss (CTENOIDES), Böhm. Kreid. 35, 38, 10.

difficilis, d'Orb. (CTENOIDES), P. F. 551, 423, 10-11.

divaricata, Dujard. (CTENOIDES), M. G. S. F. vol. ii, pl. 16, f. 7.

Dujardini, Desh. (CTENOIDES), d'Orb. P. F. 599, 427, 1-4.





- Dupiniana*, d'Orb. (CTENOIDES), P. F. 535, 415, 18-22.
Dutempleana, d'Orb. (CTENOIDES), P. F. 571, 427, 10-14.
elegans, Dujard. (CTENOIDES), M. G. S. F. vol. ii, pl. 16, f. 1.
elegans, Leym. not Duj. (C. Cottaldina), M. G. S. F. vol. v, p. 27.
elegantula, d'Orb. (CTENOIDES), Prod. 248.
elongata, Roem. not Sow. (Astieriana), Nord. Kreid. p. 56,
not Ool.
elongata, Gein. not Sow. (Astieriana), Charakt. Kreid. 82, 59, 2.
elongata, Roem. not R. in Nord. K. (longa), Ool. pl. 13, f. 11.
elongata, Reuss (Reussii), Böhm. Kreid. 33, 38, 6, 9.
expansa, Forbes (CTENOIDES), Q. J. G. S. vol. i, p. 249.
Farringdonensis, Sharpe (CTENOIDES), id. vol. x, 198, 6, 2.
Fittoni (ii), d'Orb. (CTENOIDES), Prod. 82.
frondosa, Duj. (C. tecta), M. G. S. F. vol. ii, 227, 16, 10.
Gallienniana, d'Orb. (CTENOIDES), P. F. 548, 420, 1-3.
Galloprovincialis, Math. (CTENOIDES), Catal. 182, 29, 5.
granosa, Sow. (CTENOIDES), Dixon's Geol. Suss. 28, 24, 25.
granosa, d'Orb. (C. granulata), P. F. pl. 427, 5-9.
granulata, Nils. Sp. (CTENOIDES), Desh. Enc. Meth.
Hoperi, Mant. Sp. (CTENOIDES), Desh. Enc. Meth. vol. ii, p. 349.
intercostata, Duj. (CTENOIDES), M. G. S. F. vol. ii, pl. 16, f. 8.
intermedia, d'Orb. (CTENOIDES), P. F. 550, 421, 1-5.
interstriata, Gein. (CTENOIDES), Quadersand.
Itieriana, P. & R. (CTENOIDES), Env. Genève. 484, 40, 5.
laevisima, Reuss (CTENOIDES), Böhm. Kreid. 35, 38, 14.
laeviuscula, Sow. not Sow. M. Con. (C. sublaeviuscula), Dixon's
Geol. Suss. 347, pl. 28.
lamellosa, Gein. (C. tecta), Char. Kreid. p. 25.
laticosta, Roem. (CTENOIDES), Nord. Kreid. 57, 8, 9.
Ligeris, Dujard. (CTENOIDES), M. G. S. F. vol. ii, pl. 16, f. 5.
Leonensis, Con. (CTENOIDES), Emory's Rep. 151, 5, 3.
longa, Roem. (CTENOIDES), Nord. Kreid. p. 57.
Mantelli, Brong. Sp. (CTENOIDES), Goldf. P. G. 92, 104, 9.
Marrotiana, d'Orb. (CTENOIDES), P. F. 561, 424, 1-4.
Marticensis, Math. (CTENOIDES), Catal. 183, 29, 8-10.
Massiliensis, Math. (CTENOIDES), Cat. 182, 29, 1-2.
maxima, d'Arc. (CTENOIDES), M. G. S. F. vol. ii, 187, 13, 13.
minuta, Goldf. (CTENOIDES), Petrif. pl. 103, f. 6.
montana, P. & R. (CTENOIDES), Env. Genève. 489, 43, 1.
multicostata, Gein. (CTENOIDES), Char. Kreid. 28, 8, 3.
Moreana, d'Orb. (CTENOIDES), P. F. 538, 416, 6-10.

- Moutoniana*, d'Orb. (CTENOIDES), Prod. 167.
Neocomensis, d'Orb. (CTENOIDES), P. F. 536, 417, 1, 2, 7, 8.
Nilssonii, Roem. (CTENOIDES), Nord. Kreid. p. 57.
obliquistriata, Forbes (CTENOIDES), G. T. vol. vii, 154, 18, 13.
obsoleta, Dujard. (CTENOIDES), M. G. S. F. 2d s. vol. ii, pl. 16, f. 6.
Orbignyana, Math. (CTENOIDES), Catal. 182, 29, 3-4.
ornata, d'Orb. (CTENOIDES), P. F. 551, 421, 6-10.
ovata, Nils. Sp. (CTENOIDES), Roem. Nord. Kreid. p. 57.
parallela, Sow. Sp. (CTENOIDES), d'Orb. P. F. 539, 416, 11-14.
paucicostata, Reuss (CTENOIDES), Böhm. Kreid. 33, 38, 4.
pectita, d'Orb. (CTENOIDES), P. F. 572, 427, 15-19.
pelagica, Morton, Sp. (CTENOIDES), d'Orb. Prod. 249.
pennata, d'Arc. (CTENOIDES), M. G. S. F. 2d s. vol. ii, 307, 15, 6.
plana, Roem. (C. longa), Ool. pl. 13, f. 18.
plana, Reuss, not Roem. (C. subplana), Böhm. Kreid. 35, 38, 20.
plicatilis, Duj. (CTENOIDES), M. G. S. F. vol. ii, 216, 16, 9.
pseudocardium, Reuss (CTENOIDES), B. Kreid. 33, 38, 2-3.
pulchella, d'Orb. (CTENOIDES), P. F. 560, 423, 12-15.
rapa, d'Orb. (CTENOIDES), P. F. 546, 419, 1-4.
Rauliniana, d'Orb. (CTENOIDES), P. F. 542, 417, 5-8.
rectangularis, d'Arc. (CTENOIDES), M. G. S. F. 308, 15, 7.
Reichenbachii, Gein. (CTENOIDES), Char. Kreid. pl. 8, f. 4.
Renauxiana, Math. (CTENOIDES), Catal. 183, 29, 6.
resecta, d'Arc. (CTENOIDES), M. G. S. F. 308, 15, 8.
reticulata, Lyell & Forbes (CTENOIDES), Q. J. G. S. vol. i, p. 62.
Reussii, d'Orb. (CTENOIDES), Prod. 249.
Rhodaniana, d'Orb. (CTENOIDES), P. F. 541, 416, 17-19.
Rhotomagensis, d'Orb. (CTENOIDES), P. F. 557, 422, 8-11.
Robinaldina, d'Orb. (CTENOIDES), P. F. 531, 415, 5-8.
Royeriana, d'Orb. (CTENOIDES), P. F. 527, 414, 5-8.
Sabaudiana, P. & R. (CTENOIDES), Env. Genève. 485, 40, 6.
Santonensis, d'Orb. (CTENOIDES), P. F. 565, 425, 1-2.
Saxoneti, P. & R. (CTENOIDES), Env. Genève. 487, 40, 8.
semiornata, d'Orb. (CTENOIDES), P. F. 555, 422, 1-3.
semisulcata, Desh. (CTENOIDES), P. F. 562, 424, 5-9.
semisulcata, Sow. (C. Fittonii), G. T. vol. iv, 129, 11, 10.
semisulcata, Sow. (subsemisulcata), G. T. vol. iv, p. 241, not p. 129.

- septemcostata*, Reuss (CTENOIDES), B. Kreid. 33, 38, 5.
simplex, d'Orb. (CTENOIDES), P. F. 545, 418, 5-7.
squamifera, Goldf. (C. Dujardinii), P. G. pl. 103, f. 3.
spinosa, Sow. (CTENOIDES), D. Geol. Suss. 347, 28, 33.
stricta, Roem. (CTENOIDES), Ool. pl. 13, f. 17.
subaequilateralis, d'Orb. (CTENOIDES), P. F. 558, 423, 1-5.
subabrupta, d'Orb. (CTENOIDES), Prod. 167.
subconsobrina, d'Orb. (CTENOIDES), Prod. 167.
subovalis, Sow. (CTENOIDES), G. T. vol. iv, 241, 17, 21.
subplana, d'Orb. (CTENOIDES), Prod. 197.
subrigida, Roem. (CTENOIDES), Nord. Kreid. p. 57.
subsemisulcata, d'Orb. (CTENOIDES), Prod. 167.
tecta, Goldf. (CTENOIDES), Petr. Germ. 91, 104, 7.
Tombeckiana, d'Orb. (CTENOIDES), P. F. 534, 415, 13-17.
Toucasiana, d'Orb. (CTENOIDES), Prod. 248.
truncata, Munst. (CTENOIDES), Goldf. P. G. 91, 104, 6.
undata, Desh. (CTENOIDES), M. G. S. F. vol. v, p. 10, 8, 8.
undulata, Reuss (CTENOIDES), Böhm. Kreid. 35, 38, 13.
Varusensis, d'Orb. (CTENOIDES), Prod. 167.
Wacoensis, Roem. (CTENOIDES), Kreid. Tex. 63, 8, 7.

LIMOPSIS, Sassi, 1835 (Pectunculina, d'Orb. 1843).

- complanata*, d'Orb. (P.), Prod. 163. Fr. *U. G.*
Guerangeri, d'Orb. (P.), Prod. 163. Fr. *U. G.*
Hoeninghausii, Müll. Sp. (Pectunculus), d'Orb. Prod. 243. G. *C.*
parvula, M. & H. (Pectunculina), 1856, Proc. Acad. p. 285.
 Neb. *C.*
striato-punctatus (a), E. & S. 1857, Trans. St. Louis, Acad. p.
 38. Neb. *C.*

LINEARIA, Con. 1860.

- metastrata*, Con. Jour. Acad. 2d s. vol. iv, 279, 46, 7. Ala. *C.*

LITHODOMUS, Cuv. 1817.

- aequalis*, d'Orb. P. F. 295, 346, 4-6. Fr. *U. G.*
Aglae, d'Orb. Prod. 247. Fr. *C.*
amygdaloides, Desh. Sp. (Modiola), d'Orb. P. F. 290, 344,
 7-9. Fr. *N.*

Archiacii, Leym. Sp. (*Modiola*), d'Orb. P. F. 290, 344, 11-12.

Fr.

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|---|-------|
| Australis, Gabb (<i>Modiola</i>), 1861. Chili. | N. |
| avellana, d'Orb. P. F. 291, 344, 13-15. Fr. | C. |
| Carantonensis, d'Orb. P. F. 293, 345, 1-3. Fr. | N. |
| contortus, Dujard. Sp. (<i>Modiola</i>), d'Orb. Prod. 247. Fr. | U. G. |
| Cretaceus, Con. Lynch's Exped. 224, 17, 101. Syria. | C. |
| cypis, Forbes, Sp. (<i>Modiola</i>), d'Orb. Prod. 247. India. | C. |
| <i>discrepens</i> , Müll. (<i>MYOCONCHA</i>), Aach. K. 36, 2, 15 a. | |
| faba, Müll. Sp. (<i>Mytilus</i>), d'Orb. Prod. 247. G. | C. |
| intermedius, d'Orb. P. F. 297, 345, 9-10. Fr. | C. |
| oblongus, d'Orb. P. F. 289, 344, 4-6. Fr. | N. |
| <i>obtus</i> , d'Orb. (contortus), P. F. 296, 345, 11-13. | |
| orbiculatus, d'Arc. Sp. (<i>Cypricardia</i>), d'Orb. P. F. 293, 345, 4-8. Fr. | U. G. |
| pistilliformis, Reuss, Sp. (<i>Fistulana</i>), d'Orb. Prod. 196. G. | C. |
| praelongus, d'Orb. P. F. 289, 344, 1-3. Fr. | N. |
| pyriformis, d'Arc. M. G. S. F. 2d s. vol. ii, 307, 15, 5. G. | U. G. |
| rostratus, d'Orb. P. F. 292, 344, 16, 17. Fr. | U. G. |
| rugosus, d'Orb. P. F. 294, 346, 1-3. Fr. | U. G. |
| socialis, d'Orb. Coq. Foss. Col. p. 56. N. Gren. | N. |
| spatulatus, Gein. in Reuss, Böhm. Kreid. 16, 86, 10. G. | C. |
| subintermedius, d'Orb. Prod. 119. Fr. | L. G. |
| Toucasianus, d'Orb. Prod. 196. Fr. | C. |

— LUCINA, Brug. 1791.

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| Arduennensis, d'Orb. P. F. 120, 283, 8-10. Fr. | G. |
| Campaniensis, d'Orb. P. F. 122, 283, 11-12. Fr. | C. |
| circularis, Gein. Char. Kreid. 20, 4, 76. G. | U. G. |
| Coquandiana, d'Orb. P. F. 121, 282. Fr. | * |
| Cornueliana, d'Orb. P. F. 116, 281, 3-5. Fr. | N. |
| Dumoulinii, d'Orb. Voy. Astrol. pl. 5, f. 15, 16. Chili. | C. |
| <i>discus</i> , Math. (Campaniensis), Catel. pl. 13, f. 12. | |
| Dupiniana, d'Orb. P. F. 117, 281, 6-8. Fr. | N. |
| <i>excavata</i> , Morton, Sp. (<i>DOSINIA</i>), d'Orb. Prod. 241. | |
| excentrica, Sow. Forbes, in Darwin's S. A. 267, 5, 21. Patagonia. | L. G. ? |
| fallax, Forbes, G. T. vol. vii, 143, 17, 8. India. | C. |
| globiformis, Leym. M. G. S. F. 1842, 4, 3, 8. Fr. | N. |
| Grangei, d'Orb. Voy. Astrol. pl. 2, f. 13, 14. Chili. | C. |

* Turonien in Pal. Fr., Eocene (Suessonien) in Prod. Pal.

- gurgitis*, P. & R. Env. Genève. 449, 34, 5. Fr. G.
imbricata, Desh. (CARDIUM), M. G. S. F. vol. v, 4, 5, 2.
jugosa, Forbes, G. T. vol. vii, 142, 17, 7. India. C.
lens, Roem. Nord. Kreid. 73, 9, 14. G. C.
lenticularis, Goldf. (DOSINIA), Petr. Germ. 228, 146, 16.
Nereis, d'Orb. Prod. 162. Fr. U. G.
numismalis, Math. (ARCOPAGIA), Catal. 114, 13, 3.
obesa, d'Orb. Voy. Astrol. pl. 8, f. 26, 28. India. C.
occidentalis, Morton, Sp. (Tellina), M. & H. 1856, Proc. Acad.
 p. 273. Neb. C.
orbicularis, Sow. G. T. vol. iv, 241, 16, 13. E., G. U. G.
ornatissima, d'Orb. (jugosa), Voy. Astrol. pl. 7, f. 27, 28.
pisum, Sow. G. T. vol. iv, 241, 16, 14. E. U. G.
pisum, d'Orb. (Cornueliana), P. F. pl. 281, 3-5.
pinguis, Con. Jour. Acad. 2d s. vol. ii, 275, 24, 18. N. J. C.
plicato-costata, d'Orb. Am. Merid. 83, 18, 13-14. N. Gren. N.
Reichii, Roem. Nord. Kreid. 73, 9, 15. G. U. G.
Roissii, Leym. (VENUS), M. G. S. F. vol. v, pl. 5, f. 4.
Rouyana, d'Orb. P. F. 119, 283 bis, 8-10. Fr. N.
Safedensis, Con. Lynch's Exped. 226, 19, 115. Syria. C.
sculpta, Phil. Geol. York. pl. 2, f. 15. E., Fr. L. G.
solidula, Forbes, Q. J. G. S. vol. i, 239, 2, 7. E. L. G.
subglobosa, Goldf. Sp. (CORBULA), d'Orb. Prod. 241. G. C.
sublenticularis, Shum. 1860, Trans. Acad. St. Louis, p. 602.
 Texas. C.
subnumismalis, Mull. Sp. (VENUS), d'Orb. Prod. 241. G. C.
subundata, H. & M. Mem. Acad. Boston, 2d s. vol. v, 382, 1,
 6. Neb. C.
supracretacea, d'Orb. Prod. 293. Fr. *Danien.*
Turonensis, d'Orb. P. F. 123, 283 bis, 11-12. Fr. C.
Vendoperata, Leym. (VENUS), M. G. S. F. 2d s. vol. v, pl. 5, f. 3.
ventricosa, M. & H. 1860, Proc. Acad. 427. Neb. C.
Vibrayeana, d'Orb. P. F. 120, 283, 5-7. Fr. G.

— LUTRARIA, Lam. 1801.

- cretacea*, Math. (PANOPAEA), Catal. 141, 12, 10.
carinifera, Sow. (LYONSIA), M. Con. 534.
cuneata, Math. (P. Massiliensis), Cat. 140, 12, 4-5.
gurgitis, Brong. (PANOPAEA), Env. Par. 97, 9, 15.
gurgitis, Brong. *pars*. (P. plicata), in Cuv. Oss. Foss. 648, pl.
 Q. f. 15.

Massiliensis, Math. (PANOPAEA), Catal. 140, 12, 8-9.

rostrata, Math. (PANOPAEA), Catal. 140, 12, 7.

? *striata*, d'Arc. (P. substriata), d'Orb. P. F. 341.

striata, Sow. (MACTRA substriata), M. Con. 534.

Urgonensis, Math. (PANOPAEA), Catal. 139, 12, 1.

Voltzii, Math. (PANOPAEA), Catal. 139, 12, 2-3.

— LYONSIA, Turton, 1822.

carinifera, Sow. Sp. (Lutraria), d'Orb. P. F. 385, 372, 1-2.

E., Fr.

C., U. G.

elegans, d'Orb. P. F. 386, 372, 3-5. Fr.

U. G.

elongata, Reuss (ANATINA), Böhm. Kreid. 18, 36, 9.

Germani, Geinitz, Quadersand. G.

globulosa, Forbes, Sp. (Poromya), d'Orb. Prod. 234. India.

C.

inornata, d'Orb. Prod. 234. Fr.

C.

lata, Forbes, Sp. (Poromya), d'Orb. Prod. 234. India.

C.

Ricordeana, d'Orb. Prod. 117. Fr.

L. G.

subrotundata, d'Orb. Prod. 74. E.

N.

Lyrodon, Sow. 1833 (TRIGONIA, Brug. 1791).

aliformis, Sow. Sp. (TRIGONIA), Bronn. Verstein. vol. ii, 700, 32, 15.

conocardiiiformis, Krauss (TRIGONIA), Nov. Act. C. L. C. vol. xx, 454, 49, 1.

Herzogii, Hausm. (TRIGONIA), in Goldf. Petr. 202, 37, 5.

litteratum, Goldf. (T. Lusitanica), Petr. pl. 136, f. 5, c, d (exclus. 5, a, b, e, f, g).

scaber, Bronn. (TRIGONIA), Verst. 700, 32, 13.

ventricosus, Krauss. (TRIGONIA), Nov. Act. C. L. C. 456, 49, 2.

— Lysianassa, Munst. 1838.

designata, Goldf. Sp. (PHOLADOMYA), Petr. Germ. 264, 154, 13.

— MACTRA, Linn. 1767, Lam. 1799.*

alta, M. & H. 1856, Proc. Acad. p. 271. Neb.

C.

* Messrs. Meek and Hayden appear to consider that probably the name TRIGONELLA should precede MACTRA, since they quote their species thus: "Mactra (Trigonella?), Siouxensis," &c. The real state of the case is as follows: In the twelfth edition of "Systema Naturæ," Linnaeus called the genus, MACTRA. It

angulata, Sow. G. T. vol. iv, pl. 16, f. 9. E.	<i>U. G.</i>
Araucana, d'Orb. Voy. Astrol. pl. 5, f. 2-4. Chili.	<i>C.</i>
Carteroni, d'Orb. P. F. 367, 368, 6-9. E., Fr.	<i>N.</i>
Chiliensis, Gabb, 1860, Proc. Acad. 198, 3, 5. Chili.	<i>C.</i>
Cecileana, d'Orb. Am. Merid. 126, 15, 5-6. Chili.	<i>C.</i>
Dupiniana, d'Orb. P. F. 367, 368, 3-5. Fr.	<i>N.</i>
formosa, M. & H. 1856, Proc. Acad. 271. Neb.	<i>C.</i>
Gaultina, P. & R. Env. Genève. 407, 29, 3. Fr.	<i>G.</i>
gracilis, M. & H. 1860, Proc. Acad. p. 179. Neb.	<i>C.</i>
intersecta, Forbes, Sp. (Carduim), d'Orb. Prod. 235. India.	<i>C.</i>
Matronensis d'Orb. P. F. 366, 368, 1-2. Fr.	<i>N.</i>
porrecta, Gein. Quader. G.	
Siouxensis, M. & H. 1860, Proc. Acad. 179. Neb.	<i>C.</i>
substriata, d'Orb. Prod. 75. E.	<i>N.</i>
Texana, Con. 1856, Proc. Acad. p. 269. Tex.	<i>C.</i>
tripartita, Sow. in Forbes, G. T. vol. vii, 142, 15, 17. India.	<i>C.</i>
Warrenana, M. & H. 1856, Proc. Acad. p. 271. Neb.	<i>C.</i>

— **Mactromya**, Ag. 1842.

Couloni, Ag. (DONACILLA), Etud. Crit. 195, 10, 6-14.

— **MERETRIX**, Lam. 1799 (**Cytherea**, Lam. 1805).

Deweyi, M. & H. (Cytherea), 1860, Proc. Acad. p. 185. Neb.	<i>C.</i>
juunda, Duj. Sp. " Gabb, 1861. Fr.	<i>C.</i>
lineolata, Sow. Sp. " " " E.	<i>U. G.</i>
Leonensis, Con. Sp. " " " Texas.	<i>C.</i>
Lamarensis, Shum. Sp. " " " Texas.	<i>C.</i>
Missouriana, Morton, Sp. (Cytherea), Gabb, 1861. Mo.	<i>C.</i>
Nebrascensis, M. & H. Sp. " " " Neb.	<i>C.</i>
orbiculata, M. & H. " 1860, Proc. Acad. p.	
185. Neb.	<i>C.</i>
Owenana, M. & H. " id. p. 185. Neb.	<i>C.</i>
pellucida, M. & H. " id. p. 185. Neb.	<i>C.</i>
subrotunda, Sow. Sp. " Gabb, 1861. E.	<i>U. G.</i>

therefore bears date 1767. It was, however, very much wider in its range than when, in 1799, Lamarck restricted it to the true *Mactras*. But, in 1778, Humphreys applied the name *TRIGONELLA* to the genus. Still, Linnaeus's name being the oldest, must be retained under the more restricted sense, and thus *Trigonella* becomes a synonym.

- tenuis, M. & H. (*Cytherea*), 1860, Proc. Acad. p. 185. Neb. *C.*
 Texana, Con. Sp. " Gabb, 1861. Texas. *C.*
 Tippiana, Con. Jour. Acad. 2d s. vol. iii, 326, 34, 18. Ala., Miss. *C.*

MODIOLA, Lam. 1799 (*Mytilus*, pars d'Orb. and others).

- aequalis*, Sow. M. Con. 210. E., Fr., G. *N., L. G.*
alaeformis, Sow. (GERVILLIA), M. Con. 251.
Albensis, d'Orb. (*Mytilus*), Prod. 138. Fr., G. *G.*
amygdaloides, Desh. (LITHODOMUS), M. G. S. F. vol. v, pl. 5, f. 6.
angusta, Roem. (subangusta), N. Kreid. p. 66.
Archiacii, Leym. (LITHODOMUS), M. G. S. F. vol. v, pl. 16, f. 2.
attenuata, M. & H. (*Mytilus*), Proc. Acad. 1860, p. 427. Neb. *C.*
arcuata, Gein. (subarcuata), Char. Kreid. 20, 34, 78.
bella, Sow. in Fitt. G. T. vol. iv, 113, 11, 9. E. *G., L. G.*
bipartita, Sow. M. Con. 210. E. *L. G.*
bipartita, Leym. not Sow. (*aequalis*), M. G. S. F. vol. v, pl. 9, f. 8.
Carteroni, d'Orb. Sp. (*Mytilus*), Gabb, 1861. Fr. *N.*
contorta, Duj. (LITHODOMUS), M. G. S. F. vol. ii, 225, 15, 12.
concentrice-costellata, Roem. Kreid. Tex. 54, 7, 10. Tex. *C.*
Corneuliana, d'Orb. Sp. (*Mytilus*), Gabb, 1861. Fr. *N.*
cypriis, Forbes (LITHODOMUS), G. T. vol. vii, 152, 16, 7.
cretacea, Gabb, 1860 (LITHODOMUS australis), Proc. Acad.
 198, 3, 3.
dilatata, d'Orb. Sp. (*Mytilus*), Gabb, 1861. Fr. *U. G.*
divaricata, d'Orb. Sp. " " " Fr. *C.*
Dufrenoyi, d'Orb. Sp. " " " Fr. *C.*
Fittoni, d'Orb. Sp. " " " Fr. *N.*
flagellifera, Forbes, Sp. " " " India. *C.*
Giffreana, P. & R. Sp. " " " Fr. *G.*
granulato-cancellata, Roem. Kreid. Tex. 54, 7, 12. Texas. *C.*
Guerangeri, d'Orb. Sp. (*Mytilus*), Gabb, 1861. Fr. *U. G.*
inornata, d'Orb. Sp. " " " Fr. *U. G.*
interrupta, d'Orb. Sp. " " " Fr. *U. G.*
Ligeriensis, d'Orb. Sp. " " " Fr. *U. G.*
lineata, Fitt. (sublineata), G. T. 2d s. vol. iv, pl. 14, f. 2.
Marrotiana, d'Orb. Sp. (*Mytilus*), Gabb, 1861. Fr. *C.*
Matronensis, d'Orb. Sp. " " " Fr. *N.*
Meekii, Evans & Shum. Sp. " M. & H. 1860, Proc. Acad.
 427. Neb. *C.*
Mortilettii, P. & R. Sp. " Gabb, 1861. Fr. *G.*

<i>nitens</i> , Forbes, Sp. (Mytilus), Gabb, 1861. India.	<i>C.</i>
<i>Orbignyana</i> , P. & R. Sp. " " Fr.	<i>G.</i>
<i>ornatissima</i> , d'Orb. Sp. " " Fr., Portugal.	<i>U. G.</i>
<i>ovata</i> , Gabb, Jour. Acad. 2d s. vol. iv, 396, 68, 31. N. J.	<i>C.</i>
<i>parallela</i> , Sow. (CTENOIDES), M. Con. pl. 9.	
<i>Pedernalis</i> , Roem. Kreid. Tex. 54, 7, 11. Tex.	<i>C.</i>
<i>polygona</i> , d'Orb. Sp. (Mytilus), Gabb, 1861. India.	<i>C.</i>
<i>peregrina</i> , d'Orb. Sp. " " Fr.	<i>U. G.</i>
<i>pulcherrima</i> , Roem. Nord. Kreid. 66, 4, 14. G.	<i>N.</i>
<i>quadrata</i> , Sow. Dixon's Geol. Sussex. 347, 28, 13. E.	<i>C.</i>
<i>Reussii</i> , d'Orb. Sp. (Mytilus), Gabb, 1861. G.	<i>C.</i>
<i>Rhodani</i> , P. & R. Sp. " " Fr.	<i>G.</i>
<i>reversa</i> , Sow. in Fitt. G. T. 2d s. vol. iv, pl. 17, f. 13. E., Fr.	<i>U. G.</i>
<i>Requieniana</i> , Math. (MYOCONCHA), Catal. 177, 28, 3-4.	
<i>rugosa</i> , Roem. Nord. Kreid. p. 67. G.	<i>N.</i>
<i>Saffordii</i> , Gabb, Jour. Acad. 2d s. vol. iv, 395, 68, 30. Tenn.	<i>C.</i>
<i>semiornata</i> , d'Orb. Sp. (Mytilus), Gabb, 1861. Fr.	<i>U. G.</i>
<i>siliqua</i> , Math. Catal. 178. Fr.	<i>U. G.</i>
<i>simplex</i> , Desh. not Deifr. (subsimplex), M. G. S. F. vol. v, pl. 7, f. 8.	
<i>Socomina</i> , d'Orb. Am. Merid. 90, 18, 18. N. Gren.	<i>N.</i>
<i>solutus</i> , Dujard. M. G. S. F. vol. ii, 225, 15, 13. Fr.	<i>C.</i>
<i>striato-costata</i> , d'Orb. Sp. (Mytilus), Gabb, 1861. Fr.	<i>C.</i>
<i>subangustus</i> , d'Orb. Sp. " " G.	<i>N.</i>
<i>subarcuatus</i> , d'Orb. Sp. " " Fr.	<i>U. G.</i>
<i>sublineatus</i> , d'Orb. Sp. " " Fr.	<i>N.</i>
<i>subsimplex</i> , d'Orb. Sp. " " Fr.	<i>N.</i>
<i>tetragona</i> , Reuss, Böhm. Kreid. 15, 33, 6. G.	<i>C.</i>
<i>undulata</i> , Forbes, Sp. (Cypricardia), Gabb, 1861. E.	<i>L. G.</i>
<i>typica</i> , Forbes, Sp. (Mytilus), Gabb, 1861. India.	<i>C.</i>

— **Mya**, Linn. 1758.

- depressa*, Phil. (THRACIA subdepressa), Geol. York, pl. 2, f. 8.
depressa, Phil. (T. recurva), Geol. York, p. 93.
laeviuscula, Sow. (PANOPAEA), G. T. 2d s. vol. iv, 241, 16, 6.
phaseolina, Phil. (LAVIGNON), Geol. York, 93, 2, 13.
mandibula, Sow. (PANOPAEA), M. Con. 43.

— MYOCONCHA, Sow. 1824.

<i>angulata</i> , d'Orb. P. F. 261, 336. Fr.	<i>U. G.</i>
<i>discrepens</i> , Müll. Sp. (LITHODOMUS), d'Orb. Prod. 246. G.	<i>C.</i>
<i>cretacea</i> , d'Orb. P. F. 260, 335. Fr.	<i>U. G.</i>
<i>elliptica</i> , Roem. Nord. Kreid. 66, 8, 17. G.	<i>C.</i>
<i>Neocomensis</i> , d'Orb. Prod. p. 80. Fr.	<i>N.</i>
<i>Requieniana</i> , Math. Sp. (MODIOLA), d'Orb. Prod. 196. Fr.	<i>C.</i>
<i>supracretacea</i> , d'Orb. P. F. 266, 335. Fr.	<i>C.</i>

— **Myopsis**, Agas. 1840 (PANOPAEA, Menard, 1807).

<i>acutisulcata</i> , Desh. Sp. (PANOPAEA), Ag. Etud. Cret. 253.
<i>attenuata</i> , Agas. (P. Carteroni), id. pl. 31, f. 1-4.
<i>curta</i> , Ag. (P. Carteroni), id. 32, 1-3.
<i>lata</i> , Ag. (PANOPAEA), Etud. Crit. 261, 32, 8-9.
<i>lateralis</i> , Agas. (P. irregularis), id. 32, 6-7.
<i>scaphoides</i> , Ag. (PANOPAEA), id. 261, 32, 4-5.
<i>unioides</i> , Ag. (P. Neocomensis), id. pl. 31, f. 11-12.

Mysia, Leach (DIPLODONTA, Brown, 1831).

<i>gibbosa</i> , Gabb (D.), Jour. Acad. 2d s. vol. iv, 302, 48, 17. N. J., Del.	<i>C.</i>
<i>parilis</i> , Con. (D.), id. 278, 46, 8. Ala., Miss.	<i>C.</i>

MYTILUS, Linn. 1758.

<i>abruptus</i> , d'Orb. Prod. 107. E., Fr.	<i>N.</i>
<i>aequalis</i> , Sow. Sp. (MODIOLA), d'Orb. P. F. 265, 337, 3-4.	
<i>Albensis</i> , d'Orb. (MODIOLA), Prod. 138.	
<i>alternatus</i> , d'Orb. P. F. 284, 342, 13, 14. Fr.	<i>U. G.</i>
<i>Araucanus</i> , d'Orb. Voy. Astrol. pl. 5, f. 27, 28. Chili.	<i>C.</i>
<i>arcaceus</i> , Gein. Quaders. G.	
<i>attenuatus</i> , M. & H. (MODIOLA), Proc. Acad. 1856, p. 86.	
<i>Bourgeoisianus</i> , d'Orb. Prod. 246. Fr.	<i>C.</i>
<i>Carteroni</i> , d'Orb. (MODIOLA), P. F. 202, 303, 4-8.	

- Chauvinianus, d'Orb. Prod. 165. Fr. *U. G.*
 clathratus, d'Arc. M. G. S. F. 2, S. vol. ii, 306, 15, 4. G. *U. G.*
 concentricus, Munst. in Goldf. P. Germ. 138, f. 5. G. *C.*
Corneuilianus, d'Orb. (MODIOLA), P. F. 268, 337, 10-13.
 Cottae, Roem. Nord. Kreid. 66, 8, 18. G. *C.*
 Couloni, Marcou in d'Orb. Prod. 81. Fr. *N.*
 Cuvieri, Math. Catal. 179, 28, 9-10. Fr. *C.*
cypri, Forbes (LITHODOMUS), G. T. vol. vii, 152, 16, 7.
 densesulcatus d'Orb. Prod. 81. Fr. *N.*
dilatatus, d'Orb. (MODIOLA), P. F. 280, 342, 1-3.
divaricatus, d'Orb. (MODIOLA), P. F. 275, 340, 3-4.
Dufrenoyi, d'Orb. (MODIOLA), P. F. 284, 343.
 edentulus, Sow. M. Con. 439. E., Fr. *L. G., N.*
falcatus, d'Orb. *not Goldf.* (subfalcatus), P. F. 280, 341, 11-13.
Fittoni, d'Orb. (MODIOLA), Prod. 81.
flagelliferus, Forbes (MODIOLA), G. T. vol. vii, 152, 16, 9.
 fractus, Reuss Böhm. Kreid. 16, 33, 11. G. *C.*
 Galliennei, d'Orb. P. F. 273, 339, 1-2. Fr. *U. G.*
Galpinianus, E. & S. (MODIOLA Meekii), 1855, Proc. Acad.
 p. 164.
Guerangeri, d'Orb. (MODIOLA), P. F. 283, 342, 10-12.
Giffreanus, P. & R. (MODIOLA), Env. Genève. 481, 40, 3.
Gurgitis, P. & R. (MODIOLA subsimplex), *id.* 481, 40, 2.
 inflatus, Müll. Aach. Kreid. 35, 2, 9. G. *C.*
 inæquivalvis, Sow. in Fitt. G. T. vol. iv, pl. 17, f. 16. E. *U. G.*
inornatus, d'Orb. (MODIOLA), P. F. 277, 341, 3-5.
interruptus, d'Orb. (MODIOLA), P. F. 278, 341, 6-8.
lanceolatus, Sow. (edentulus), M. Con. 439.
lanceolatus, d'Orb. (abruptus), P. F. 270, 338, 51.
Ligeriensis, d'Orb. (MODIOLA), P. F. 274, 340, 1-2.
Ligeriensis, Reuss (MODIOLA Reussii), Böhm. Kreid. 16, 33, 3.
lineatus, Fitt. Sp. (MODIOLA sublineata), d'Orb. P. F. 266,
 237, 7-9.
lineatus, d'Orb. (peregrinus), P. F. 266.
 Lyellii, Sow. G. T. vol. iv, 178, 21, 18. E. *Weald.*
Marrotianus, d'Orb. (MODIOLA), Prod. 246.
Matronensis, d'Orb. (MODIOLA), P. F. 269, 337, 14-16.
 Morrissii, Sharpe, G. J. G. S. vol. vi, 187, 22, 5. Portugal. *C.*
Mortilettii, P. & R. (MODIOLA), Env. Genève. 482, 40, 3.
Moulinssii, d'Orb. Prod. 246. Fr. *C.*
Meekii, E. & S. (MODIOLA), 1857, Trans. Acad. St. Louis, p. 40.

- Mullerii*, d'Orb. Prod. 247. G.
nitens, Forbes (MODIOLA), G. T. vol. vii, 151, 16, 8.
orbiculatus, d'Orb. Prod. 166. Fr. U. G.
Orbignyianus, P. & R. (MODIOLA), Env. Genèv. 479, 39, 9.
ornatissimus, d'Orb. (MODIOLA), Prod. 166.
ornatus, Munst. in Goldf. P. Germ. pl. 129, f. 8.
ornatus, d'Orb. (ornatissimus), P. F. 284, 342, 13-14.
peregrinus, d'Orb. (MODIOLA), Prod. 165.
Phædra, d'Orb. Prod. 294. Fr. D.
pileopsis, d'Orb. P. F. 272, 338, 11-13. Fr. C.
polygonus, d'Orb. (MODIOLA), Voy. Astrol. pl. 5, f. 41-42.
 India. C.
**problematicus*, Schlot. (INOCERAMUS), Petr. 312.
prælongus, Sow. (edentulus), G. T. vol. iv, pl. 17, f. 15.
pulcher, Forbes (MODIOLA polygona), G. T. vol. vii, pl. 6, f. 6.
pulcherrimus, Roem. Sp. (MODIOLA), d'Orb. Prod. 81.
radiatus, Munst. not Mull. (subradiatus), in Goldf. pl. 138, f. 6.
Reussii, d'Orb. (MODIOLA), Prod. 247.
reversus, Sow. Sp. (MODIOLA), d'Orb. Prod. 165.
reversus, Fitt. Sp. (MODIOLA Fittoni) d'Orb. P. F. 264, 337, 1-2.
Rhodani, P. & R. (MODIOLA), Env. Genèv. 480, 40, 1.
scalaris, Müll. not Phil. (Mullerii), Aach. Kreid. 35, 2, 11.
semiplicatus, Roem. Kreid. Tex. 55, 7, 3. Texas. C.
semiornatus, d'Orb. (MODIOLA), P. F. 279, 341, 9-10.
semiradiatus, d'Orb. (MODIOLA reversa), P. F. 277, 341, 1-2.
semistriatus, d'Orb. (Chauvianus), P. F. 271, 338, 7-10.
† *semisulcatus*, d'Orb. (Chauvianus), P. F. pl. 338, 7-10.
siliqua, Math. Sp. (MODIOLA), d'Orb. P. F. 274, 339, 3-4.
simplex, d'Orb. (MODIOLA subsimplex), P. F. 269, 338, 1-3.
Socorrinus, d'Orb. (MODIOLA), Prod. 107.
solutus, Dujard. Sp. (MODIOLA), d'Orb. P. F. 276, 340, 5-6.
sphenoides, Reuss, Böhm. Kreid. 15, 33, 7. G. C.
striato-costatus, d'Orb. (MODIOLA), P. F. 281, 342, 4-6.
subangustus, d'Orb. (MODIOLA), Prod. 81.
subarcuatus, d'Orb. (MODIOLA), Prod. 166.
subarcuatus, M. & H. 1856, Proc. Acad. p. 276. Neb. C.
subfalcatus, d'Orb. Prod. 166. Fr. U. G.

* Schlotheim called this species *Mytilites*, but it is evident that he meant this genus, since he placed the termination "*ites*," to all the fossil genera, thus, "*Terebratulites*, *Ostracites*," &c., &c., to distinguish the species from recent ones.

† Typographical error for *semistriatus* (?).

- sublineatus*, d'Orb. (MODIOLA), Prod. 81.
subquadratus, Math. Catal. 178, 28, 7. Fr. C.
subradiatus, d'Orb. Prod. 246. G. C.
subrugosus, d'Orb. (MODIOLA rugosa), Prod. 81.
subsimplex, d'Orb. (MODIOLA), Prod. 81.
tegulatus, Müll. Aach. Kreid. 35, 2, 12. G. C.
tetragonus, Reuss, Sp. (MODIOLA), d'Orb. Prod. 246.
tenuitesta, Roem. Kreid. Tex. 55, 7, 13. Tex. C.
Tornacensis, d'Arc. (Galliennei), M. G. S. F. 1847, pl. 15, f. 3.
tridens, Fitt. (edentulus), G. T. vol. iv, pl. 17, f. 14.
typicus, Forbes (MODIOLA), G. T. vol. vii, 152, 14, 4.
undulatus, Forbes, Sp. (MODIOLA), d'Orb. Prod. 119.

Mytiloides, Brong. 1822.

- labiatus*, Brong. (INOCERAMUS problematicus), Env. Paris, pl. 3, f. 4.

NEILO, H. & A. Adams.

- Hindii*, Meek MS. (Leda), Brit. America. C.

NEITHEA, Drouet, 1821 (Janira, d'Orb. not Schum.).

- aequicostata*, Lam. Sp. (Pecten), Gabb, 1861. E., Fr., G.,
 Port. U. G.
alata, Von Buch, Sp. (Pecten), Gabb, 1861. N. Gren. N.
Albensis, d'Orb. Sp. (Janira), " " Fr., G. G.
Alpina, d'Orb. Sp. " " " Fr. U. G.
atava, Roem. Sp. (Pecten), " " G., Fr. N.
Carantonensis, d'Orb. Sp. (Janira), " " Fr. U. G.
cometa, d'Orb. Sp. " " " Fr. U. G.
decemcostata, d'Orb. Sp. " " " Fr. C.
Deshayesiana, Math. Sp. (Pecten), " " Fr. N.
digitalis, Roem. Sp. " " " Fr., G. U. G.
dilatata, d'Orb. Sp. (Janira), " " Fr. U. G.
Dufrenoyi, d'Orb. Sp. " " " Chili. N.
Dutemplei, d'Orb. Sp. " " " Fr. C.
Faucignyana, P. & R. Sp. " " " Fr. G.
Fleuriausiana, d'Orb. Sp. " " " Fr. U. G.
Fontanieri, d'Orb. Sp. " " " India. C.

- duplicosta, Roem. Sp. (**Pecten**), Gabb, 1859, Cat. Cret. p. 14. Tex. *C.*
- Geinitzii, d'Orb. Sp. (**Janira**), Gabb, 1861. G. *C.*
- Hispanica, d'Orb. Sp. " " " Spain. *U. G.*
- inconstans, Sharpe, Sp. ("P. (**Janira**)"), Gabb, 1861. Portugal. *C.*
- longicauda, d'Orb. Sp. (**Janira**), Gabb, 1861. Fr. *U. G.*
- Makovii, Dubois, Sp. (**Pecten**), " " Russia. *C.*
- Mortoni, d'Orb. Sp. (**Janira**), Gabb, 1859, Cat. Cret. p. 14. Fr., N. J., Tenn., Ala., Miss. (Texas.?) *C.*
- Neocomensis, d'Orb. Sp. (**Janira**), Gabb, 1861. Fr., G. *N.*
- notabilis, Munst. Sp. (**Pecten**), " " G. *U. G.*
- occidentalis, Con. 1855, Proc. Acad. p. 269. Texas. *C.*
- phaseola, d'Orb. Sp. (**Janira**), Gabb, 1861. Fr. *U. G.*
- Podolica, d'Orb. Sp. " " " Crimea. *C.*
- quadrucostata, Sow. Sp. (**Pecten**), Gabb, 1859, Cat. Cret. p. 14. E., Fr., G., Texas. *C.*
- quinquecostata, Sow. Sp. (**Pecten**), Gabb, 1861. E., Fr., S. Africa. *U. G.*
- quinquecostata*, Morton, Sp. *not Sow.* (Mortoni), Gabb, 1859, Cat. p. 14.
- quinquenaria, Con. Sp. (**Pecten**), Gabb, 1861. Del. *C.*
- Royeriana, d'Orb. Sp. (**Janira**), " " Fr. *L. G.*
- sexangularis, d'Orb. Sp. " " " Fr. *C.*
- Simbriskensis, d'Orb. Sp. " " " Russia. *C.*
- striato-costata, Goldf. Sp. (**Pecten**), " " G., E. *U. G.*
- substriato-costata, d'Orb. Sp. (**Janira**), Gabb, 1861. E., Fr., G., Port. *C.*
- Syriaca, Con. Sp. (**Janira**), Gabb, 1861. Syria. *C.*
- Texana, Roem. Sp. (**Pecten**), Con. Emory's Rep. 151, 5, 2. Tex. *C.*
- Truellei, d'Orb. Sp. (**Janira**), Gabb, 1861. Fr. *C.*
- Wrightii, Shum. Sp. " " " Texas. *C.*

— NEAERA, Gray, 1842.

- Moreauensis, M. & H. (**Corbula**), 1860, Proc. Acad. p. 185. Neb. *C.*
- ventricosa, M. & H. " 1860, id. 183. Neb. *C.*

NUCULA, Lam. 1801.

- Albensis, d'Orb. P. F. 172, 301, 15-17. Fr. *G.*
- Albertina, d'Orb. Voy. Astrol. pl. 2, f. 25, 26. Chili. *C.*
- angulata*, Sow. (**Leda**), M. Con. 476.

- antiquata*, Sow. M. Con. 475. E. *U. G.*
apiculata, Sow. G. T. vol. iv, pl. 17, f. 10. E. *U. G.*
Arduennensis, d'Orb. P. F. 174, 302, 4-8. Fr., G. *G.*
bivirgata, Sow. G. T. vol. iv, pl. 17, f. 8. E., G., Fr. *G.*
cancellata, M. & H. Proc. Acad. 1856, p. 85. Neb. *C.*
capsaeformis, Mich. (ovata), M. G. S. F. vol. iii, pl. 12, f. 8. *C.*
Carthusiae, P. & R. Env. Genève. 477, 39, 8. Fr. *G.*
concinna, Sow. G. T. vol. iii, 38, 1. G. *C.*
Cornueliana, d'Orb. Prod. 79. Fr. *N.*
cuneifrons, Con. Jour. Acad. 2d s. vol. iv, 281, 46, 33. Miss. *C.*
crebrilineata, Con. Lynch's Exped. 223, 17, 92-93. Syria. *C.*
distorta, Gabb, Jour. Acad. 2d s. vol. iv, 396, 68, 34. Tenn., Miss. *C.*
equilateralis, M. & H. Proc. Acad. 1856, p. 84. Neb. *C.*
Eufalensis, Gabb (perequalis), Jour. Acad. 2d s. vol. iv, 396, 68, 35.
Evansi, M. & H. (YOLDIA), 1856, Proc. Acad. p. 84.
falcata, Reuss (LEDA), Böhm. Kreid. 8, 24, 31.
gurgitis, P. & R. Env. Genève. 474, 39, 5. Fr. *G.*
Haydeni, Shum. Trans. Acad. St. Louis, 1860, p. 602. Texas. *C.*
impressa, Sow. M. Con. 475. E., Fr. *U. G., G.*
impressa, d'Orb. not Sow. (Cornueliana), P. F. 165, 300, 6-10.
incerta, d'Orb. Am. Merid. p. 85. N. Grenada. *N.*
? indefinita, Forbes, G. T. vol. vii, p. 148. India. *C.*
lineata, Sow. (LEDA), G. T. vol. iv, 241, 17, 9.
lingulata, d'Orb. (LEDA), P. F. 168, 304, 1-3.
margaritacea, Reuss, not Lam. (Reussii), Böhm. Kreid. 6, 34,
 26-27.
Mariae, d'Orb. (LEDA), P. F. 169, 301, 4-6.
Neckerianus, P. & R. Env. Genève. 469, 39, 1. Fr. *G.*
obesa, d'Orb. (ISOARCA), P. F. 180, 304, 10-14.
obsoletastriata, M. & H. 1856, Proc. Acad. 275. Neb. *C.*
obtusa, Sow. G. T. vol. iv, 241, 17, 11. E. *U. G.*
obtusa, d'Orb. not Sow. (subobtusa), P. F. 163, 300.
ornatissima, d'Orb. P. F. 172, 305, 9-12. Fr. *G.*
ovata, Mant. Geol. Suss. 94, 19, 26. E., G., Fr. *G.*
ovata, Reuss (LEDA), Böhm. Kreid. 8, 34, 25.
pectinata, Sow. M. Con. 192. E., G., Fr. *G.*
pectinata, Reuss, not Sow. (striatula), Böhm. Kreid. pl. 34, f. 1-5.
percrassa, Con. Jour. Acad. 2d s. vol. iii, 327, 35, 4. Ala., Miss. *C.*
perequalis, Con. id. vol. iv, p. 281. Ala., Miss., N. J., Tenn. *C.*
perdita, Con. Lynch's Exped. 223, 17, 96. Syria. *C.*
perovata, Con. id. 222, 17, 91. Syria. *C.*

- phaseolina*, Mich. (L. subrecurva), M. G. S. F. vol. iii, pl. 12, f. 6.
planata, Desh. M. G. S. F. vol. v, pl. 9, f. 3. Fr. N.
planimarginata, M. & H. 1856, Proc. Acad. 85. Neb. C.
porrecta, Reuss (TELLINA), Böhm. Kreid. 7, 34, 12, 13.
producta, Nilss. (LEDA), P. Suec. 16, 10, 5.
Renauxiana, d'Orb. P. F. 179, 304, 7-9. Fr. C.
Reussii, d'Orb. Prod. 243. G. C.
scapha, d'Orb. (LEDA), P. F. 167, 301, 1-3.
scitula, M. & H. (YOLDIA), Proc. Acad. 1856, p. 84.
semilunaris, Buch. (LEDA), in Gein. Char. Kreid. 20, 30, 77.
serrata, Shum. 1860, Trans. Acad. St. Louis, p. 603. Tex. C.
siliqua, Goldf. (LEDA), Petr. G. 156, 125, 13.
simplex, Desh. M. G. S. F. vol. v, pl. 9, f. 5. Fr. L. G., N.
solea, d'Orb. (LEDA), P. F. 170, 304, 4-6.
spathulata, Forbes (LEDA lingulata), Q. J. G. S. vol. i, 245, 3, 4.
striatula, Roem. Nord. Kreid. 68, 8, 26. G. C.
subaequalis, Reuss (LEDA), Böhm. Kreid. 8, 34, 23, 24.
subdeltoidea, d'Orb. Prod. 243. G. C.
subobtusata, d'Orb. (subrecurva), Prod. 118.
subnasuta, H. & M. (YOLDIA), Mem. Acad. Boston, 2d s. vol.
v, 384, 1, 11.
subplana, M. & H. Proc. Acad. 1856, p. 85. Neb. C.
subrecurva, Phil. Geol. York, 94, 2, 11. E., Fr., G. L. G., G.
subtriangulata, Koch. 1837, Beitr. 50, 6, 1. G. N.
subtrigona, Roem. (subtriangulata), Nord. Kreid. 68, 8, 25.
tenera, Müll. Aach. Kreid. 17, 2, 1. G. C.
tenuirostris, Reuss (LEDA), Böhm. Kreid. 6, 34, 8-10.
Timotheana, P. & R. Env. Genève. 476, 39, 7. Fr. G.
Traskana, Meek, 1857, Trans. Albany Inst. vol. iv, p. 39. Van-
couver I. C.
undulata, Sow. (LEDA), M. Con. 554.
ventricosa, H. & M. (YOLDIA), Mem. Acad. Boston, vol. v,
385, 11, 1.
Vibrayeana, d'Orb. (LEDA), P. F. 172, 301, 12-14.

— OPIS, Defr. 1825.

- Annoniensis*, d'Arc. M. G. S. F. vol. ii, 305, 14, 10. G. U. G.
bella, Con. Jour. Acad. 2d s. vol. iii, 317. C.
bicarinata, Con. id. p. 317. C.
Coquandiana, d'Orb. P. F. 54, 257, 7-9. Fr. U. G.

<i>elegans</i> , d'Orb. P. F. 54, 254, 4-9. Fr.	<i>U. G.</i>
<i>galeata</i> , Mull. Sp. (<i>Cardium</i>), d'Orb. Prod. 238. G.	<i>C.</i>
<i>Guerangeri</i> , d'Orb. P. F. pl. 251 bis, f. 1-4. Fr.	<i>U. G.</i>
<i>Haleana</i> , d'Orb. Prod. 238. Ala.	<i>C.</i>
<i>Hugardiana</i> , d'Orb. P. F. 52, 253, 6-8. Fr.	<i>G.</i>
<i>Ligeriensis</i> , d'Orb. P. F. pl. 257, 6-10. Fr.	<i>U. G.</i>
<i>lineata</i> , P. & R. Env. Genève. 434, 32, 2. Fr.	<i>G.</i>
<i>Neocomensis</i> , d'Orb. P. F. 51, 253, 1-5. E., Fr.	<i>N.</i>
<i>ornata</i> , Forbes, Sp. (<i>Isocardia</i>), d'Orb. Prod. 118. E.	<i>L. G.</i>
<i>pusilla</i> , Reuss, Böhm. Kreid. 2, 33, 15. G.	<i>C.</i>
<i>Sabaudiana</i> , d'Orb. P. F. 53, 254, 1-3 & 257-4-6. Fr.	<i>G.</i>
<i>Truellei</i> , d'Orb. P. F. 56, 255. Fr., G.	<i>C.</i>
<i>undatus</i> (a), Con. Lynch's Exped. 222, 17, 87. Syria.	<i>C.</i>

OSTREA, Linn. 1752.

<i>abrupta</i> , d'Orb. Voy. Am. Merid. 93, 21, 4. N. Grenada.	<i>N.</i>
<i>acutirostris</i> , Nilss. Petr. Suec. 31, 6, 6. Fr., G., Sweden.	<i>C.</i>
<i>alaeformis</i> , Woodw. (serrata), Geol. Norf. 48, 6, 1-3.	
<i>Allobrogensis</i> , P. & R. Env. Genève. 524, 49, 1. Fr.	<i>G.</i>
<i>Americana</i> , Desh. (EXOGYRA costata), Enc. Meth. vol. ii, 304.	
<i>amorpha</i> , Sow. in Forbes, G. T. vol. vii, 157, 15, 24. India.	<i>C.</i>
<i>anomiaeformis</i> , Roem. Kreid. Tex. 75, 9, 7. Texas.	<i>C.</i>
<i>aquila</i> , Brong. Sp. (EXOGYRA), d'Orb. P. F. 706, 470.	
<i>Arduennensis</i> , d'Orb. (EXOGYRA), P. F. 711, 472, 1-4.	
<i>arietina</i> , Roem. Sp. (EXOGYRA), d'Orb. Prod. p. 257.	
<i>auricularis</i> , Goldf. Sp. (EXOGYRA), d'Orb. Prod. p. 256.	
<i>bella</i> , Con. Emory's Rep. 156, 10, 4. Texas.	<i>C.</i>
<i>bellaplicata</i> , Shumard, Trans. Acad. St. Louis, 1860, p. 608.	
Texas.	<i>C.</i>
<i>Boussingaultii</i> , d'Orb. (EXOGYRA), P. F. 702, pl. 468.	
<i>biauriculata</i> , Lam. An. de Mus. 8, p. 160. G., Fr.	<i>U. G.</i>
<i>bulia</i> , Sow. Sp. (EXOGYRA), d'Orb. Prod. 84.	
<i>canaliculata</i> , Sow. Sp. 1813, not Sow. 1816 (EXOGYRA), d'Orb.	
P. F. 709, 471, 4-8.	
<i>Carantonensis</i> , d'Orb. P. F. 713, 473. Fr.	<i>U. G.</i>
<i>carinata</i> , Lam. Ann. de Mus. vol. viii, 166. Fr., E., G., Texas?	<i>U. G.</i>
<i>carinata</i> , Math. Forbes, Leym. pars. Roem. pars. (macroptera),	
not Lam.	
<i>columba</i> , Lam. Sp. Desh. (EXOGYRA), Enc. Meth. vol. ii, 302.	
<i>confragosa</i> , Con. Jour. Acad. 2d s. vol. iii, 329, 34, 4. Miss.	<i>C.</i>

- congesta*, Con. Nicollett's Rep. p. 169. Neb., Mo., Ark. C.
conica, Sow. Sp. (EXOGYRA), d'Orb. P. F. 726.
convexa, Say. (G. vesicularis), Am. Jour. Sci. vol. ii, 1st s. p. 42.
clavata, Nilss. (G. vesicularis), P. Suec. 30, 7, 2.
colubrina, Goldf. *not Lam.* (macroptera), P. G. 8, 74, 5.
Couloni, DeFr. (EXOGYRA), d'Orb. P. F. 698, pl. 466 and 467.
conirostris, Munst. (acutirostris), in Goldf. P. G. 25, 82, 4.
crepidula, d'Orb. (E. inflata), Voy. Astrol. pl. 8, f. 43, 44.
crenulata, Tuomey, 1855, Proc. Acad. p. 171. Ala. C.
crenulimargo, Roem. Kreid. Tex. 76, 9, 6. Texas. C.
crenulimarginata, Gabb, J. Acad. 2d s. vol. iv, 398, 68, 40, 41.
 Tenn. C.
cretacea, Morton, Syn. 52, 19, 3. S. Carolina. *
cristacomplicata, Schlot. (frons), Petr. P. 242.
cristagalli, Schlot. (frons), Petr. 240.
cristahastellatus, Schlot. (frons), Petr. 243.
cristaurogalli, Schlot. (larva), Petr. 213.
curvirostris, Nilss. P. Suec. 30, 6, 5. Sw., G. C.
denticulifera, Con. Jour. Acad. 2d s. vol. iii, 329, 36, 1-8.
 Ala., Miss., Tenn. C.
diluviana, Lam. 1767, Syst. Nat. p. 114. Fr., G., Sw., Crimea.
 C., U. G.
diluviana, Nilss. *not Lam.* (frons), P. Suec. 32, 6, 1-2.
deltoidea, Lam. (G. vesicularis), Lam. pl. 25, f. 2-5.
doridella, Lam. (larva), An. S. Vert. vol. vi, p. 210.
distorta, Sow. (E. bulla), G. T. vol. iv, 229, pl. 22, f. 21.
falcata, Morton (larva), Synop. 50, 3, 5. (*not Sow.*)
flabella, Goldf. Sp. (E. plicata), d'Orb. P. F. p. 717.
flabelliformis, Nils. (semiplana), P. Suec. 31, 6, 4. Sw., G. C.
 frons. Park. Org. Rem. 217, 15, 4. E., Fr., G., Sw. C.
Galloprovincialis, Math. (Acutirostris), Cat. 193, 32, 8.
Gehrdensis, Roem. (Turonensis), Nord. Kreid. p. 46.
glabra, M. & H. 1857, Proc. Acad. p. 146. Nebraska. C.
harpa, Goldf. (frons), P. G. 11, 75, 3.
hemispherica, d'Orb. Prod. (G. cymbrium), Am. Mer. 106, 22, 3-4.
hippodium, Nilss. P. Suec. 30, 7, 1. G., Fr., Sweden. C.
hippodium, d'Orb. pars, *not Nils.* (Lesueurii), P. F. 731,
 481, 4-6.

* It was unfortunate that Dr. Morton should have named this species *Cretacea*, since it has since been proven to be an Eocene fossil. See note under *Conus gyratus*.

- inconstans*, Dujard. (semiplana), M. G. S. F. vol. ii, p. 229.
incurva, Nilsson (G. vesicularis), P. Suec. 30, 8, 6.
inoceramoides, d'Orb. An. Merid. p. 94. N. Gren. *N.*
larva, Lam. An. S. Vert. vol. vi, p. 216. E., Fr., G., Sw., *C.*
 India, United States.
laciniata, Nils. Sp. (EXOGYRA), d'Orb. P. F. 739, 486, 1-3.
lateralis, Nilss. (EXOGYRA), P. Suec. 29, 7, 10.
latirostris, Dubois, Conch. Foss. 74, 8, 15-16. G., Russ. *C.*
Lesueurii, d'Orb. Prod. 171. Fr. *U. G.*
Leymerii, Desh. M. G. S. F. vol. v, 11, 13, 4. Fr. *N.*
lugubris, Con. Emory's Rep. 156, 10, 5. Texas. *C.*
lunata, Nilss. Goldf. Petr. G. pl. 75, f. 2. G. *C.*
macroptera, Sow. M. Con. 468. E., Fr., G. *N., L. G.*
Marshii, Marcou, *not* Sow. (subovata), Geol. N. A. 43, 4, 4. ***
Matheroniana, d'Orb. (EXOGYRA), P. F. 737, 485.
megaera, d'Orb. Prod. 294. Fr. *Danien.*
mesenterica, Morton (larva), Synopsis, 51, 9, 7.
Milletiana, d'Orb. P. F. 712, 472, 5-7. Fr., G. *G.*
mirabilis, Rosseau, Voy. Russ. Merid. 797, 5, 1-3. Crimea.
 "*G. Sand*."
multilirata, Con. Emory's Rep. 156, 12, 1. Texas. *C.*
nasuta, Morton (larva), Synopsis, 51, 9, 6.
Naumani, Reuss (semiplana), B. Kreid. pl. 27, f. 48-53.
Neocomensis, d'Orb. Prod. 84. Fr. *N.*
Normaniana, d'Orb. P. F. 746, 488, 1-3. Fr. *C.*
panda, Morton, Syn. 51, 3, 6. N. J., Del., Ala. *C.*
patina, M. & H. 1856, Proc. Acad. p. 227. Neb. *C.*
peculiaris, Con. Jour. Acad. 2d s. vol. iii, 329, 36, 7. Ala. *C.*
pes-leonis, Forbes (Santonensis), G. T. vol. vii, 156, 18, 5.
pectinata, Goldf. *not* Roem. (carinata), P. G. 9, 74, 7.
pectinata, Roem. *not* Goldf. (macroptera), N. Kreid. p. 45.
plicata, Nilss. (semiplana), P. Suec. 31, 7, 12.
plicatuloides, Leym. M. G. S. F. 2d s. vol. iv, 195, pl. a, f. 17.
 Fr., N. J. ?† *C.*
plumosa, Morton, Syn. 51, 3, 9. N. J., Ala., Miss., Tenn. *C.*

* Incorrectly referred to the Jurassic.

† I have, in my collection, five lower valves of a small species of oyster so near this species, that I can find no difference of sufficient value to found even a variety. I have never seen the upper valve, but, should it agree with M. Leymerie's figures as well as the lower ones, it will remove all doubt of their specific identity. My specimens are from near Mullica Hill, New Jersey.

- ponderosa*, Roem. Sp. (EXOGYRA costata), d'Orb. Prod. 256.
Ponticeriana, d'Orb. (larva), Voy. Astrol. pl. 5, 45-46.
praelonga, Sharpe, Q. J. G. S. vol. vi, 187, 20, 4. Portugal.
 "Lower Cret."
prionota, Goldf. (frons), P. G. 10, 74, 8.
prionota, Forbes, not Goldf. (macroptera), Q. J. G. S. p. 250.
Proteus, Reuss, Böhm. Kreid. 41, 27, 12-27. G. C.
proboscidea, d'Arc. (G. vesicularis), M. G. S. F. vol. v, 84, 11, 9.
pseudochama, Desh. (G. vesicularis), Enc. Meth. vol. ii, 292.
quadriplicata, Shum. Trans. Acad. St. Louis, 1860, p. 608.
 Texas. C.
Rauliniana, d'Orb. (EXOGYRA), P. F. 708, 471, 1-3.
rectangularis, Roem. (macroptera), Ool. Nach. 24, 18, 15.
Ricordeana, d'Orb. Prod. 171. Fr. U. G.
retusa, Sow. G. T. vol. iv, pl. 14, f. 4. E. L. G.
Santonensis, d'Orb. P. F. 736, 484. Fr. C.
semit plana, Sow. M. Con. 489. E., Fr., G., Sw. C.
scolopendra, Lam. (carinata), An. S. Vert. vol. ii, 216.
serrata, Goldf. not Defr. (frons), P. G. 10, 74, 9.
serrata, Defr. not Goldf. (carinata), Diet. Sc. Nat.
similis, Galeotii, not Pusch. (subsimilis), Bull. Acad. Brux. vol.
 vii, p. 3, f. 3.
spinosa, Roem. (E. plicata), Ool. 58, 33.
subcomplicata, Roem. (macroptera), Ool. Nach. p. 24.
subinflata, d'Orb. (E. inflata), Prod. 256.
subovata, Shum. Marey's Rep. 505, 5, 2. Texas, Ark. C.
subsimilis, d'Orb. Prod. 257. Mexico. C.
subspatulata, Forbes, G. T. vol. i, p. 61. N. J., Ala., Miss., Tex. C.
subsquamata, d'Orb. (E. squamata), Prod. 108.
subvirgata, Gabb, 1861 (virgata Sow.). E. C.
sulcata, Blum. (semit plana), Spec. Arch. Tellur. pl. 1, f. 3.
tecticosta, Gabb, Jour. Acad. 2d s. vol. iv, 403, 68, 47, 48.
 Tenn., N. J. C.
tegulacea, Forbes (larva), G. T. vol. vii, 156, 18, 6.
Tombeckiana, d'Orb. (EXOGYRA), P. F. 701, 467, 4-6.
torosa, Morton (E. costata deformed),* Syn. 52, 10, 1.
robusta, Con. Emory's Rep. 156, 11, 3. Texas. C.
translucida, M. & H. 1857, Proc. Acad. p. 147. Neb. C.
Turoniensis, Duj. Sp. (Vulsella), d'Orb. P. F. 748, 479, 4-7.
 F., G. C.

* See note under Exogyra.

- ungulatus*, Schlot. (larva), Petrif. 242.
Urgonensis, d'Orb. Prod. 108. Fr. N.
vesicularis, Lam. (GRYPHAEA), An. de Mus. vol. viii, 160, 22, 3.
vesicularis, var. Goldf. (G. biauriculata), P. G. pl. 81, f. 2.
virgata, Sow. not Goldf. (subvirgata), D. Geol. Suss. 348, 17, 1.
vomer, Mort. Sp. (E. lateralis), d'Orb. Prod. 257.
vellicata, Con. Emory's Rep. 156, 11, 2. Texas. C.
Wegmanniana, d'Orb. P. F. 749, 488, 6, 8. Fr. C.

Ostracites, Auct. Olim.

- auricularis*, Vahlenb. (Exogyra haliotoidea), in Petr. Suec. p. 58.
angioides, Picot de la Peyrouse (RADIOLITES), Descr. d'Orhoc.
 pl. 12, f. 13.

Pachites.

- spinosus*, Deifr. (SPONDYLUS), Dict. Sc. Nat. 37, p. 207.
striatus, Deifr. (SPONDYLUS), id. 37, p. 202.

— Pachymya, J. Sow. 1826 (PHOLADOMYA, Sow. 1826).

- Austinensis*, Shum. (PHOLADOMYA), Trans. Acad. St. Louis,
 1860, p. 604.
gigas, Sow. (PHOLADOMYA), M. Con. 504-505.

— PANOPAEA, Menard. 1807.

- acutisulcata*, Desh. Sp. (Pholadomya), d'Orb. P. F. 336, 357,
 1-3. Fr., G. G.
Albertina, d'Orb. Prod. 73. Fr. N.
Arduennensis, d'Orb. P. F. 338, 358, 1-2. Fr. G.
Astieriana, d'Orb. P. F. 342, 359, 3-4. Fr. U. G.
arcuata, d'Orb. (rostrata per err.), P. F. 355, 3-4.
Beaumontii, Munst. (mandibula), Goldf. pl. 158, f. 4.
Carteroni, d'Orb. P. F. 332, 355, 1-2. Fr. N.
Constantii, d'Orb. P. F. 339, 358, 3-4. Fr. G.
Cottaldina, d'Orb. P. F. 330, 354, 1-2. Fr. N.
cretacea, Math. Sp. (Lutraria), d'Orb. Prod. 233. Fr. C.
cretacea, Tuomey, not d'Orb. (Tuomeyi), 1855, Proc. Acad.
 p. 170.
decisa, Con. (GLYCIMERIS), Jour. Acad. 2d s. vol. ii, 215, 24, 19.
Dupiniana, d'Orb. P. F. 338, 353, 1-2. Fr. N.

- elatior, d'Orb. P. F. 346, 361, 1-2. Fr. *U. G.*
elongata, Roem. 1841, not R. 1838 (Roemeri), Nord. Kreid.
 75, 10, 5.
 Ewaldi, Reuss, Böhm. Kreid. 17, 36, 1. G. *C.*
 Goldfussii, d'Orb. Prod. 233. G. *C.*
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 Fr. *U. G.*
gurgitis, Goldf. not d'Orb. (Goldfussii), P. Germ. 274, 153, 7.
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 laeviuscula, Sow. Sp. (*Mya*), d'Orb. Prod. 157. E. *U. G.*
 lata, Agas. Sp. (*Myopsis*), d'Orb. Prod. 73. G. *N.*
 mandibula, Sow. Sp. (*Mya*), d'Orb. P. F. 344, 360, 3-4. E.,
 Fr. *U. G.*
 Massiliensis, Math. Sp. (*Lutraria*), d'Orb. Prod. 73. G. *N.*
 Neocomensis, Leym. Sp. (*Pholadomya*), d'Orb. P. F. 329,
 355, 3-8. Fr. *L. G., N.*
 Newberryi, Shum. Trans. Acad. St. Louis, 1860, p. 605. Texas. *C.*
 Normaniana, d'Orb. Prod. 233. Fr. *C.*
 obliqua, d'Orb. P. F. 327, 352, 3-4. Fr. *N.*
 Occidentalis, M. & H. 1856, Proc. Acad. p. 270. Neb. *C.*
 Orientalis, Forbes, G. T. 2d s. vol. vii, 139, 17, 4. India. *C.*
 ovalis, Sow. in Fitt. G. T. 2d s. vol. iv, pl. 16, f. 5. E. *U. G.*
 plicata, Sow. M. Con. 419. E., Fr., G. *G., L. G.*
 • *plicata*, Goldf. not Sow. (*gurgitis*), G. G. 274, 158, 5.
 Prevostii, Desh. Sp. (*Pholadomya*), d'Orb. P. F. 334, 356,
 3-4. Fr. *L. G., N.*
 recta, d'Orb. P. F. 334, 356, 1-2. Fr. *N.*
 regularis, d'Orb. P. F. 343, 360, 1-2. Fr. *C.*
 Ringmeriensis, Mant. Sp. (*Venus*), d'Orb. Prod. 157. E. *U. G.*
 Robinaldina, d'Orb. P. F. 331, 354, 3-5. Fr. *N.*
 Roemeri, d'Orb. Prod. 157. G. *U. G.*
 rostrata, Math. Sp. (*Lutraria*), d'Orb. P. F. 335, 355, 3, 4.
 Fr. *N.*
rotundata, Sow. (*LYONSIA subrotundata*), G. T. vol. iv, 129, 13, 2.
 Sabaudiana, P. & R. Env. Genève. 401, 28, 4. Fr. *G.*
 scaphoides, Agas. Sp. (*Myopsis*), d'Orb. Prod. 73. G. *N.*
striata, d'Arc. Sp. (*substriata*), d'Orb. P. F. 341, 359, 1-2.
 not Munst.
 subparallela, Shum. 1860, Trans. Acad. St. Louis, p. 605. Texas. *C.*
 substriata, d'Orb. Prod. 157. Fr. *U. G.*

Téxana, Shum. Marcy's Rep. 207, 6, 1. Texas.	C.
Tuomeyi, Gabb (<i>cretacea T. not d' Orb.</i>), 1861. Ala.	C.
Urgonensis, Math. Sp. (<i>Lutraria</i>), d'Orb. Prod. 73. Fr.	N.
Voltzii, Math. Sp. (<i>Lutraria</i>), d'Orb. Prod. 73. Fr.	N.

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<i>aequicostatus</i> , d'Orb. Sp. (<i>NEITHEA</i>), Sow. Dix. Geol. Suss. 356, 28, 17.	
<i>actinodus</i> , Goldf. P. Germ. 52, 91, 12. G.	C.
<i>affinis</i> , Reuss, <i>not Risso</i> . (subaffinis), B. Kreid. 22, 39, 11.	
<i>alatus</i> , Von Buch. (<i>NEITHEA</i>), Petr. Rec. par Humb. 3, 1, 1.	
<i>Alpinus</i> , d'Orb. P. F. 586, 430, 4-6. Fr.	N.
<i>Aptensis</i> , d'Orb. (interstriatus), Prod. 119.	
<i>Archiacianus</i> , d'Orb. P. F. 583, 429, 7-10. Fr.	N.
<i>arcuarius</i> , Goldf. <i>not Sow.</i> (divaricatus), P. Germ. pl. 91, f. 6.	
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<i>arcuatus</i> , Nils. <i>not Sow.</i> (concentrice-punctatus), P. Succ. pl. 9, f. 14.	
<i>arcuatus</i> , Roem. Goldf. <i>not Sow.</i> (virgatus).	
<i>asper</i> , Lam. An. S. Vert. vol. vi, 186. E., Fr., G.	U. G.
<i>astellus</i> , Sow. Dixon's Geol. Suss. 348, 28, 5. E.	C.
<i>Astierianus</i> , d'Orb. Prod. 83. Fr.	N.
<i>argillensis</i> , Con. Jour. Acad. 2d s. vol. iv, p. 283. Ala.	C.
<i>atavus</i> , Roem. (<i>NEITHEA</i>), Ool. 29, 18, 21.	
<i>Barbesillensis</i> , d'Orb. P. F. 611, 437, 5-8. Fr.	C.
<i>Beaveri</i> , Sow. M. Con. 158. E.	U. G.
<i>Brongniartii</i> , d'Arc. (subacutus), Tourtea. pl. 16, f. 4-5.	
<i>Burlingtonensis</i> , Gabb, Jour. Acad. 2d s. vol. iv, 304, 48, 25.	
N. J., (Ala. ?).	C.
<i>calcatus</i> , d'Orb. (calvatus), Prod. 253. Eocene, see note.	
<i>Calypso</i> , d'Orb. Prod. 169. Fr.	U. G.
<i>Campaniensis</i> , d'Orb. P. F. 620, 440, 12-16. Fr.	C.
<i>Carteronianus</i> , d'Orb. P. F. 589, 431, 5-6. Fr.	N.
<i>Cenomanensis</i> , d'Orb. P. F. 603, 434, 11-14. Fr.	U. G.
<i>Chiliensis</i> , d'Orb. Voy. Astrol. pl. 5, f. 31, 32. Chili.	C.

* P. anatipes, Morton, Syn. Cret. 58, 6, 4.

P. calvatus, M. id. 58, 10, 3.

P. membranous, M. id. 59, 10, 4.

P. perplanus, M. id. 58, 5, 5.

P. Poulsoni, M. id. 59, 19, 2.

} These species, described
by Dr. Morton as Cre-
taceous, belong to the
Eocene.

- cicatrissatus*, Goldf. P. Germ. 56, 93, 6. G. *C.*
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 p. 242.
comans, Roem. (*elongatus*), id. 51, 8, 6.
complicatus, Goldf. P. Germ. 51, 91, 11. G. *C.*
compositus, Sow. G. T. vol. iv, pl. 17, f. 20. E. *U. G.*
concentrice-punctatus, Reuss, Böhm. Kreid. 28, 39, 8. G. *C.*
Coquandianus, d'Orb. P. F. 591, 432, 1-3. Fr. *N.*
Cottaldinus, d'Orb. P. F. 590, 431, 7-11. Fr. *N.*
crassitesta, Roem. Nord. Kreid. p. 27. E., Fr., G. *N.*
craticula, Morton, Syn. p. 57. N. J. *C.*
cretosus, Deifr. Dict. Sc. Nat. p. 267, pl. 38. E., Fr., G. *C.*
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Darius, d'Orb. Prod. 139. Fr. *G.*
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decemcostatus, Munst. in Goldf. pl. 92, f. 2. G. *U. G.*
decipiens, Reuss, Böhm. Kreid. 31, 45, 3. G. *C.*
dentatus, Nilss. (*subacutus*), P. Suec. 20, 10, 9.
depressus, Munst. in Goldf. pl. 92, f. 4. G. *C.*
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Dujardini, d'Orb. P. F. 615, 439, 5-11. E., G., Fr. *C.*
duplicosta, Roem. (NEITHEA), Kreid. Tex. 65, 8, 2.
Dutemplei, d'Orb. P. F. 596, 423, 10-13. E., Fr., Port. *G.*
delumbis, Con. Lynch's Exped. 225, 19, 110. Syria. *C.*
elongatus, Lam. An. S. Vert. vol. vi, 181. Fr., E. *U. G.*
Espallaci, d'Orb. P. F. 614, 439, 1-4. Fr. *C.*
Faujasii, Deifr. in Goldf. P. G. 53, 93, 7. G. *C.*
Galliennei, d'Orb. P. F. 608, 436, 5-8. Fr. *U. G.*
Girondinus, d'Orb. Prod. 251. Fr. *C.*
Goldfussii, Desh. M. G. S. F. vol. v, 10, 8, 9. Fr., G. *N.*
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granulatus, d'Orb. Voy. Astrol. pl. 5, 29, 30. Chili. *C.*
Hallii, Gabb, 1861 (*rigida*, H. & M. *not Sow.*). Neb. *C.*
hispidus, Goldf. P. G. 59, 94, 4. G. *U. G.*

- P. (Janira) inconstans**, Sharpe (NEITHEA), Q. J. G. S. vol. vi, 188, 19, 3.
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Martinianus, d'Orb. Prod. 107. Fr. N.
Matheronianus, d'Orb. Prod. 107. Fr. N.
Matronensis, d'Orb. P. F. 620, 440, 17-18. Fr. C.
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Nebrascensis, M. & H. 1856, Proc. Acad. p. 87. Neb. C.
Neptuni, d'Orb. Prod. 169. Fr. U. G.
Nilssoni, Goldf. *not Desh.* P. Germ. pl. 99, f. 3. G., Sw., Fr.,
 Texas. C.
nitidus, Sow. M. Con. 394. E. C.
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notabilis, Münster. (NEITHEA), Goldf. pl. 93, f. 3.
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orbicularis, Sow. M. Con. 193. E., Fr., G. U. G.
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Palassoni, Leym. M. G. S. F. vol. iv, 194, pl. B. f. 1. Fr. C.
Passyi, d'Arc. M. G. S. F. vol. ii, 309, 15, 9. G. U. G.
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- ptychodes*, Goldf. P. Germ. 56, 93, 4. G. C.
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pulchellus, Goldf. *not Nilss.* (sub*pulchellus*), P. G. pl. 91, f. 9.
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quinquenaria, Con. (NEITHEA), Jour. Acad. 2d s. vol. ii, 275,
 24, 10.
rarispinus, Reuss, Böhm. Kreid. 31, 39, 15. G. C.
Raulinianus, d'Orb. P. F. 595, 433, 6-9. E., Fr., G. G.
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Rhodani, P. & R. Env. Genève. 509, 46, 1. Fr. G.
Rhotomagensis, d'Orb. P. F. 609, 436, 9-11. Fr., G. U. G.
rigida, H. & M. *not Sow.* (Hallii), Mem. Acad. Bost. 381, 2,
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Robinaldinus, d'Orb. P. F. 587, 431, 1-4. Fr. N.
Royanus, d'Orb. P. F. 613, 438, 7-12. Fr. C.
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spathulatus, Roem. Nord. Kreid. 50, 8, 5. G. C.
spurius, Münster. Goldf. P. Germ. pl. 91, f. 10. G. C.
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striato-costatus, Goldf. (NEITHEA), P. Germ. 93, f. 2, a, b.
striato-punctatus, Roem. Nord. Kreid. p. 27. Fr., G. L. G., N.
Stutchburyensis, Sow. G. T. vol. iv, pl. 18, f. 1. E. U. G.

* Common everywhere in connection with the "Ripley Group;" but I have never seen it outside of that bed.

- subacutus*, Lam. An. S. Vert. vol. vi, 181. Fr., G. U. G.
subaffinis, d'Orb. Prod. 252. G. C.
subaratus, Nilss. P. Suec. pl. 9, f. 11, G., Sw. C.
subdepressus, d'Arc. M. G. S. F. 2d s. vol. ii, 310, 16, 1-2. C.
 G. C.
subgranulatus, Münst. Goldf. P. G. pl. 93, f. 5. G. C.
subinterstriatus, d'Arc. (Rhotomagensis), M. G. S. F. vol. ii, 311, 15, 10.
submuricatus, d'Orb. Prod. 251. G. C.
subpulchellus, d'Orb. Prod. 252. G. C.
subsquamula, d'Orb. Prod. 253. G. C.
subvirgatus, d'Orb. Prod. 253. India. C.
ternatus, Münst. Goldf. P. G. pl. 91, f. 13. G. C.
Texanus, Gabb, 1861 (*virgatus*, Roem. not Nils.). Texas. C.
trigeminatus, Roem. Nord. Kreid. p. 53. G. C.
triplicata, Mant. (N. Dutemplei), Geol. Suss. 128, 25, 9.
tumidus, Dujard. (N. phaseola), M. G. S. F. vol. ii, pl. 16, f. 13.
undulatus, Nilss. P. Suec. 21, 10, 10. Russ., Sw., G. C.
undulatus, Nilss. *pars*. (*cretosus*), id. 21, 9, 10.
venustus, Morton, Syn. 58, 5, 7. N. J. C.
Verdachallensis, Forbes, G. T. 2d s. vol. vii, 154, 14, 5. India. C.
versicostatus, Lam. (N. quinquecostata), An. S. Vert. vol. vi, 181.
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virgatus, Nils. P. Suec. 22, 9, 15. Fr., G., Sw. U. G.
virgatus, Forbes (*subvirgatus*), G. T. vol. vii, 154, 15, 22.
virgatus, Roem. not Nils. (*Texanus*), K. Tex. 66, 8, 5.

Pectinites, Schlot.

aculeatus, Schlot. (SPONDYLUS spinosus), Petr. 228, 18.

Pectunculina, d'Orb. 1843 (LIMOPSIS, Sassi, 1835).

- complanata*, d'Orb. (L.), P. F. 184, 305, 5-8.
Guerangeri, d'Orb. (L.), P. F. 183, 305, 1-4.
parvula, M. & H. (L.), 1856, Proc. Acad. 86.

PAPYRIDEA, Swains. 1840.

- bella*, Con. Jour. Acad. 2d s. vol. iii, p. 326. Miss. C.

Cornueliana, d'Orb. Sp. (*Cardium*), Gabb, 1861. Fr. *L. G.*, *N.*
aequivalvis, Goldf. Sp. (*Corbula*), Gabb, 1861. G., Fr., India. *C.*
*elegantula, Roem. Sp. (*Cardium*), Gabb, 1861. Tex., N. J.,

Ala., Miss.

C.

Subdinnensis, d'Orb. Sp. (*Cardium*), Gabb, 1861. Fr. *U. G.*

Pectunculus, Lam. 1801 (*AXINAEA*, Poli, 1791).

alternatus, d'Orb. (*AXINAEA*), P. F. 188, 306, 7-11.

australis, Morton, *not Quoy*. 1833 (*A. subaustralis*), Syn.

1834, p. 64.

Bourgeoisianus, d'Orb. (*AXINAEA*), Prod. 196.

brevirostris, Reuss (*A. Reussii*), Böhm. Kreid. 9, 35, 12.

clavus, Sow. (*AXINAEA*), G. T. vol. iii, pl. 38, f. 2.

decussatus, Roem. (*A. subdecussata*), Nord. Kreid. p. 69.

Geinitzii, d'Orb. (*AXINAEA*), Prod. 196.

hamula, Morton (*AXINAEA*), Syn. Cret. 64, 15, 7.

Hoeninghausii, Mull. (*LIMOPSIS*), Aach. Kreid. 18, 1, 6.

Heberianus, P. & R. (*AXINAEA*), Env. Genève. 468, 38, 5.

insculptus, Reuss (*AXINAEA*), Böhm. Kreid. 8, 35, 5.

laevis, Gein. *not Sow.* (*A. Geinitzii*), Charakt. Kreid.

lens, Nilss. (*AXINAEA*), Petrif. Suec. pl. 5, f. 4.

Marrotianus, d'Orb. (*AXINAEA*), P. F. 192, 307, 13, 16.

Marullensis, Leym. (*AXINAEA*), M. G. S. F. vol. vii, pl. 9, f. 2.

obsoletus, Goldf. (*A. sublaevis*), P. Germ. pl. 126, f. 4.

planus, Roem. (*A. clava*), Nord. K. 69, 8, 24.

Renauxianus, d'Orb. (*AXINAEA*), P. F. 191, 307, 7-12.

Requienianus, d'Orb. (*AXINAEA*), P. F. 190, 307, 1-6.

reticulatus, Reuss (*AXINAEA*), Böhm. Kreid. 8, 35, 7-8.

Reussii, d'Orb. (*AXINAEA*), Prod. 164.

Siouxensis, H. & M. (*AXINAEA*), 1855, Mem. Acad. Bost. 2d

s. vol. v, 381, 1, 12.

spinescens, Reuss (*AXINAEA*), B. Kreid. 9, 35, 6.

subauriculatus, Forbes (*AXINAEA*), G. T. vol. vii, 150, 17, 13.

subconcentricus, Lam. (*AXINAEA*), Anim. S. Vert. vol. vi, p. 56.

* I place this species in this genus, because Mr. Conrad has informed me that it has the hinge of a true PAPYRIDEA, and not that of PHOLADOMYA, as believed by d'Orbigny. Specimens found in the "Ripley Group," a deposit resembling somewhat the Speeton Clay of England in its lithological characters, have enabled him to ascertain without doubt the true generic relations of these beautiful shells.



- subdecussatus*, d'Orb. (AXINAEA), Prod. 243.
subimbricatus, M. & H. (AXINAEA), 1857, Proc. Acad. p. 146.
sublaevis, Sow. not Goldf. (AXINAEA), M. Con. 472.
sublaevis, Goldf. not Sow. (A. lens), P. Germ. pl. 126, f. 3.
subsulcatus, d'Orb. (AXINAEA), Prod. 243.
sulcatus, Roem. not Deifr. (A. subsulcatus), Nord. Kreid. 69, 8, 23.
Ventricosus, Gein. (AXINAEA), Charakt. Kreid. 77, 20, 20.

— PERIPLOMA, Schum. 1817.

- | | | |
|---|----------|-------|
| <i>applicata</i> , Con. Jour. Acad. 2d s. vol. iii, p. 324. | Miss. | C. |
| <i>Colombiana</i> , d'Orb. (Anatina), Prod. 105. | N. Gren. | N. |
| <i>Neocomensis</i> , d'Orb. P. F. 381, 372, 3-4. | Fr. | N. |
| <i>Robinaldina</i> , d'Orb. P. F. 380, 372, 1-2. | Fr. | N. |
| <i>Sapho</i> , d'Orb. Prod. 158. | Fr. | U. G. |
| <i>Sabaudiana</i> , P. & R. Env. Genève. 112, 29, 5. | Fr. | G. |
| <i>simplex</i> , d'Orb. P. F. 382, 372, 5-6. | Fr. | G. |

PERNA, Brug. 1791.

- alaeformis*, Sow. (GERVILLIA), M. Con. 243.
cretacea, Reuss, Böhm. Kreid. 24, 32, 18-20. G. U. G.
 ? *fragilis*, Sharpe, Q. J. G. S. vol. vi, 189, 18, 4. Portugal. C.
lanceolata, Gein. Char. Kreid. 80, 21, 18. G., Fr., Port. U. G.
Lusitanica, Sharpe, Q. J. G. S. vol. vi, 189, 23, 7-8. Port.
 "L. Cret."
Marticensis, Math. Catal. 176, 27, 1-2. Fr. C.
Muletii, Desh. M. G. S. F. vol. v, pl. 11, f. 1. E., Fr., G. N.
polita, Sharpe, Q. J. G. S. vol. vi, 190, 24, 1-2. Port.
 "Lower Cret."
Rauliniana, d'Orb. P. F. 497, 401, 4-5. Fr., G. G.
Ricordeana, d'Orb. P. F. 494, 399, 1-3. Fr. N.
rostrata, Sow. G. T. vol. iv, pl. 17, f. 17. E. U. G.
Royana, d'Orb. P. F. 449, 402, 4-5. Fr. C.
subspathulata, Reuss, B. Kreid. 24, 32, 16-17. G. U. G.

— PETRICOLA, Lam. 1801.

- canaliculata*, Sow. (CARDIUM), G. T. vol. iv, pl. 18, f. 11.
nuciformis, Sow. (CARDIUM), id. pl. 16, f. 10.
Rhodani, P. & R. Env. Genève. 417, 29, 8. Fr. G.

PHARELLA.

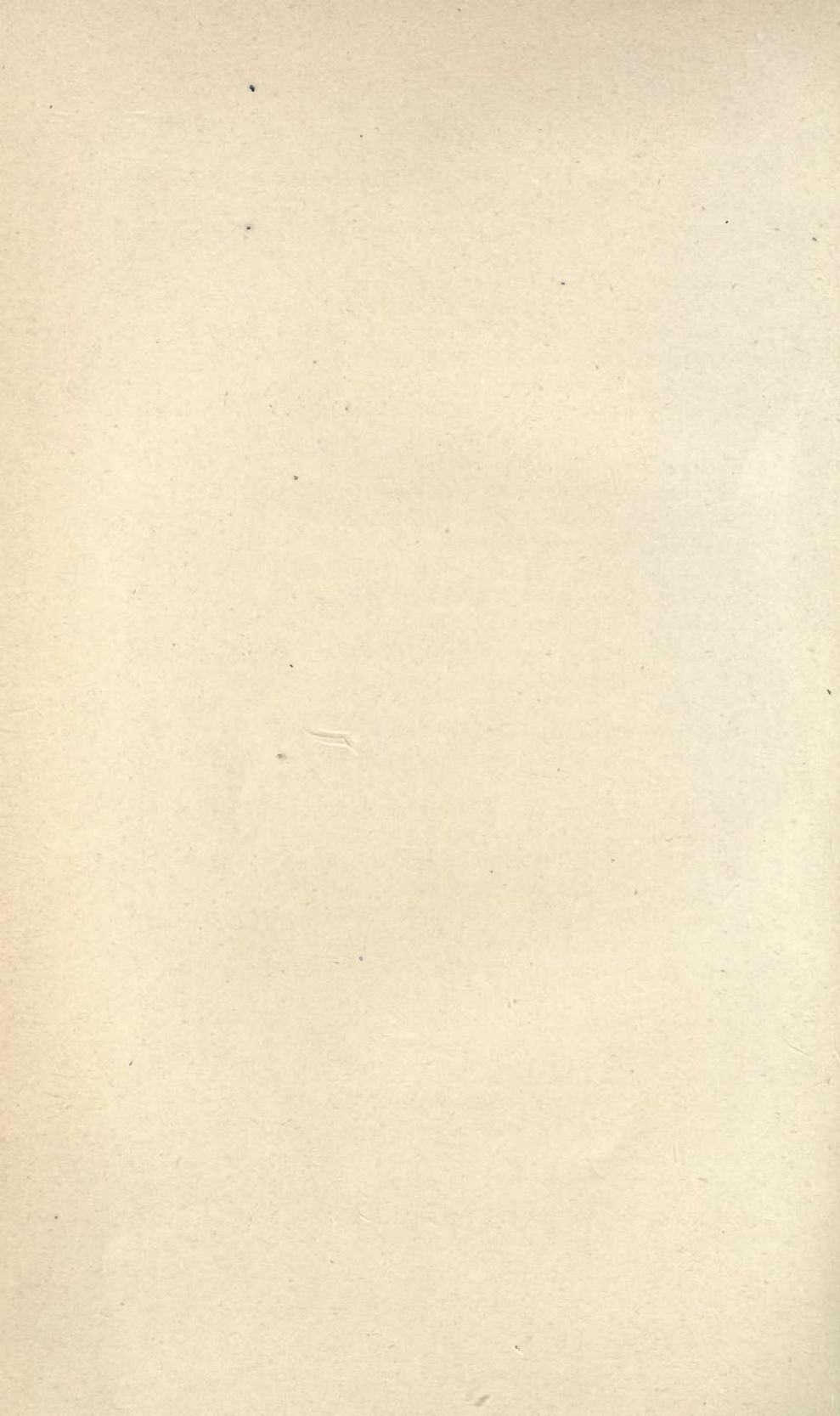
? *Dakotensis*, M. & H. (*Solen*), 1860, Proc. Acad. 425. Neb. C.

— PHOLADOMYA, Sow. 1826.

S. G. *Anatimya*, Con. 1860.

- aequivalvis*, Goldf. Sp. (PAPYRIDEA), d'Orb. Prod. 234. G.,
Fr., India. C.
Agassizii, d'Orb. P. F. 352, 362, 1-3. Fr. N.
Albina, Reiche, Roem. Nord. K. 75, 10, 7. G. U. G.
alta, Roem. Sp. (*Homomya*), Gabb, 1861. Tex. C.
acutisulcata, Desh. (PANOPAEA), M. G. S. F. vol. v, pl. 3, f. 2.
alternans, Roem. Nord. Kreid. p. 6. G. N.
Americana, M. & H. (*Goniomya*), 1856, Proc. Acad. 283.
Neb. C.
(*S. Gen. A.*) *anteradiata*, Con. Jour. Acad. vol. iv, 276, 46,
3. Miss. C.
Archiaciana, d'Orb. P. F. 356, 364, 3-4. Fr. C.
**Austinensis*, Shum. Sp. (*Pachymya*), Gabb, 1861. Texas. C.
biplicata, Gein. Char. Kreid. 21, 17, 75. G. U. G.
borealis, Meek, 1857, Trans. Alb. Inst. p. 41. Vancouver I. C.
Carantoniana, d'Orb. (Esmarekii), P. F. 357, 365, 1-2.
caudata, Agas. Sp. (*Goniomya*), d'Orb. Prod. 74. G. N.
caudata, Roem. (*aequivalvis*), Nord. Kreid. pl. 10, f. 8.
connectans, Forbes, G. T. vol. vii, 140, 17, 5. India. C.
cordiformis, Desh. Leym. M. G. S. F. 1842, 3, 3, 3. Fr. U. G.
Cornueliana, d'Orb. (PAPYRIDEA), Prod. 105.
designata, Goldf. Sp. (*Lysianassa*), Reuss, B. K. p. 18. G. C.
designata, Gein. (Geinitzii), d'Orb. Prod. 194.
Dutempleana, d'Orb. Prod. 135. Fr. G.
elegantula, E. & S. 1855, Proc. Acad. p. 164 (not *P. (Cardium)*
elegantula, Roem.), Vancouver I. C.
elliptica, Ring. in Goldf. 273, 158, 1. G., Fr., Port. C.
elongata, Munst. Goldf. P. G. 270, 157, 3-6. E., Fr., G. N.

* This species can hardly be the same as *P. gigas*, Sow. Sp., as Dr. Shumard thinks probable, since, besides the slight but constant difference in form, *P. gigas* is peculiar to the upper green sand, while the American species belong to the chalk.



- Esmarkii*, Pusch. Goldf. id. 272, 157, 10. G. C.
Favrina, Agas. Etud. Crit. 59, 1-12. Fr. G.
 ? *fibrosa*, M. & H. (*Avicula*), Proc. Acad. 1856, p. 283. Neb. C.
Geinitzii, d'Orb. Prod. 194. G. C.
Genevensis, P. & R. Env. Genève. 405, 29, 2. Fr. G.
gigantea, Sow. Sp. (CORBULA), d'Orb. Prod. 157.
gigas, Sow. Sp. (*Pachymya*), d'Orb. P. F. 359, 366. Fr., E. U. G.
Kasimiri, Pusch. Polens. Pal. 88, 8, 13. Poland. C.
laevis, Agas. Sp. (*Goniomya*), d'Orb. Prod. 74. G. N.
Ligeriensis, d'Orb. P. F. 355, 363, 8-9. Fr., Port. U. G.
Langii, Voltz. in Leym. (elongata), M. G. S. F. vol. v, p. 24.
Mailleana, d'Orb. P. F. 355, 364, 1-2. Fr. U. G.
Marrotiana, d'Orb. P. F. 358, 365, 3-4. Fr. C.
Martini, Forbes, Q. J. G. S. vol. i, 238, 2, 3. E. L. G.
Moulinsii, d'Orb. Prod. 234. Fr. C.
Neocomensis, Leym. (PANOPAEA), M. G. S. F. vol. v, pl. 3, f. 4.
nodulifera, Munst. Goldf. 273, 158, 2. G. C.
Noueliana, d'Orb. Prod. 194. Fr. C.
occidentalis, Morton. Syn. 68, 8, 3. N. J., Del., Miss. C.
 (*S. Gen. A.*) *papyria*, Con. Jour. Acad. 2d s. vol. iv, p. 276.
 Miss. C.
Pedernalis, Roem. Kreid. Tex. 45, 9, 4. Tex. C.
Prevostii, Desh. (PANOPAEA), in Leym. M. G. S. F. vol. v, pl.
 2, f. 7.
 (*S. Gen. A.*) *postsulcata*, Con. Jour. Acad. vol. iv, 276. Miss. C.
Rauliniana, d'Orb. P. F. 353, 363, 4-5. Fr. G.
rhomboidalis, Leym. (LAVIGNON), M. G. S. F. vol. v, 3, 2, 6.
rostrata, Math. Catal. 136, 11, 7. Fr. C.
Rouyana, d'Orb. Prod. 73. Fr. N.
Royana, d'Orb. (elliptica), P. F. 360, 367.
Sancti-sabae, Roem. Sp. (*Cardium*), Con. Emory's Rep. 164,
 21, 4. Tex. C.
Scheucherii, Agas. (elongata), Etud. Crit. 57, 2', 3-7, and pl.
 2'', 7.
semicostata, Agas. Etud. Crit. 51, 2, 1. Fr., G. N.
subdinnensis, d'Orb. (PAPYRIDEA), Prod. 157.
subelongata, Meek, Trans. Alb. Inst. vol. iv, p. 42. Vancou-
 ver I. C.
subventricosa, M. & H. 1857, Proc. Acad. 142. Neb. C.
tenua, Tuomey, 1855, Proc. Acad. p. 170. Ala. C.
Texana, Con. Emory's Rep. 153, 18, 3. Tex. C.

- Tippana, Con. Jour. Acad. 2d s. vol. iii, 324, 34, 9. Ala., Miss. *C.*
 umbonata, Roem. Reid. Tex. 73, 10, 6. *G.*
 undata, M. & H. 1856, Proc. Acad. p. 81. Neb. *C.*

— PHOLAS, Linn. 1758.

- cithara, Morton, Synopsis, 68, 9, 2. N. J. *C.*
 constricta, Phil. Geol. York. 93, 2, 17. E. *L. G.*
 Cornueliana, d'Orb. P. F. 305, 349, 1-4. Fr. *L. G.*
 cretacea, Gabb, Jour. Acad. 2d s. vol. iv, 393, 68, 18. N. J. *C.*
 P. (*Martesia*) cuneata, M. & H. 1858, Proc. Acad. p. 53. Neb. *C.*
 pectorosa, Con. (cithara), Jour. Acad. 2d s. vol. ii, 293, 24, 9.
 prisca, Sow. M. Con. 581. E. *N.*
 giganteus, Sow. (PHOLADOMYA elongata), G. T. vol. iv, pl. 14, f. 1.
 Roemeri, d'Orb. Prod. 72. *G.* *N.*
 subcylindrica, d'Orb. P. F. 306, 349, 5-8. Fr. *G.*
 ? Stimpsoni, M. & H. (*Xylophaga*), Proc. Acad. 1860, p. 424.

PINNA, Linn. 1758.

- arata, Forbes, G. T. vol. vii, 153, 16, 10. India. *C.*
 bicarinata, Math. Catal. 180, 27-6, 8. Fr. *U. G.*
 calamitoides, Shum. 1857, Trans. St. Louis Acad. p. 124. Neb. *C.*
 compressa, Goldf. P. Germ. 167, 128, 4. *G.* *U. G.*
 consobrina, d'Orb. Voy. Astrol. pl. 5, f. 39-40. India. *C.*
 Cottae, Gein. Char. Kreid. 11, 1, 55. *G.* *C.*
 decussata, Goldf. P. G. 166, 128, 1, 2. E., G. *U. G.*
 decussata, Forbes (consobrina), G. T. vol. vii, p. 153.
 depressa, Goldf. (decussata), pl. 128, f. 3.
 fenestrata, Roem. Nord. Kreid. 65, 8, 22. *G.* *C.*
 Galliennei, d'Orb. P. F. 253, 331. Fr. *U. G.*
 gracilis, Phil. Geol. York. 2, 22. E. *L. G.*
 laqueata, Con. Jour. Acad. 2d s. vol. iii, p. 328. N. J., Ala.,
 Miss. *C.*
 Ligeriensis, d'Orb. P. F. 257, 334. Fr. *C.*
 minuta, Gabb, Proc. Acad. 1860, p. 118, 3, 10. Chili. *C.*
 Moreana, d'Orb. P. F. 254, 332. Fr. *U. G.*
 Moulinsii, d'Orb. Prod. 246. Fr. *C.*
 Neptuni, Goldf. Sp. (*Cardium*), d'Orb. P. F. 255, 333, 1-3.
 G. *U. G.*

- petasunculus*, Math. Catal. 180, 27, 3-5. Fr.* C.
quadrangularis, Goldf. P. Germ. 167, 127, 8. G, Fr. C.
recticostata, d'Orb. Prod. 245. Fr. C.
Renauxiana, d'Orb. (bicarinata), P. F. 252, 330, 4-6.
restituta, Hoen. Goldf. pl. 138, f. 3. G., India. C.
Robinaldina, d'Orb. P. F. 251, 330, 1-3. Fr. N.
rugosa, Roem. *not Sow.* (subrugosa), Nord. Kreid. p. 65.
rostriformis, Morton, Jour. Acad. 1st s. vol. viii, 214, 10, 5.
 N. J. C.
subrugosa, d'Orb. Prod. 80. G. N.
subtetragona, d'Orb. Prod. 165. E. U. G.
sulcifera, Leym. M. G. S. F. vol. v, pl. 9, f. 9. Fr. N.
sulcata, Woodw. (decussata), Geol. Norf. pl. 5, f. 23.
tetragona, Sow. *not Brocchi* (subtetragona), M. Con. 313.

PINNIGERA, Deluc, 1779.

- magna*, d'Orb. Prod. 107. Fr. N.

PLACUNA, Solander, 1785.

- scabra*, Morton (PLACUNANOMIA), Syn. 62.

PLACUNANOMIA, Brod. 1832.

- S. Gen. *Paranomia*, Con. 1860.

- lineata*, Con. Jour. Acad. 2d s. vol. iv, 291, 46, 20. Tenn. C.
Saffordii, Con. id. 290, 46, 21. Tenn. C.
scabra, Morton, Sp. (Placuna), Gabb, 1861. N. J. C.

Plagiostoma, Sow. 1814.

- aspera*, Mant. (Ctenoides), Geol. Suss. 129, 26, 18.
dumosa, Morton, *pars.* (SPONDYLUS), Syn. 59, 16, 8.
dumosa, Morton, *pars.* (S. Mortoni), Syn. 60. Eocene.

* There is a specimen in the Academy's collection, marked "Louisiana," corresponding with the figure and description given of this species. The lithological character of the specimen is different from anything I have heretofore seen in the American Cretaceous, except perhaps that of the Northwest. There may, however, be some mistake in the locality.

elongatum, Sow. (CTENOIDES parallela), M. Con. 559.
granulatum, Nilss. (CTENOIDES), P. Suec. 26, 9, 4.
gregale, Morton (SPONDYLUS), Synopsis, 60, 5, 6.
Hoperi, Mant. (CTENOIDES), G. Suss. 204, 26, 2-3-15.
Mantelli, Brong. (CTENOIDES), Env. Paris, pl. 4, f. 2.
Mantelli, Goldf. (Hoperi), P. Germ. pl. 104, f. 9.
ovatum, Nilss. (CTENOIDES), P. Suec. 25, 9, 2.
pelagicum, Morton (CTENOIDES), Syn. 61, 5, 2.
punctatum, Nilss. (C. Nilssoni), P. Suec. 24, 9, 1.
parallelus, Sow. (CTENOIDES), M. Con. pl. 9, f. 1.
semisulcatum, Nilss. (CTENOIDES), P. Suec. 25, 11, 3.
spinosum, Sow. (SPONDYLUS), M. Con. 83.
sulcata, Lam. (S. spinosus), An. S. Vert. vol. vi, 161.

— **Platymya**, Agas. 1838.

dilatata, Agas. (ANATINA), Etud. Crit. 181, 10, 13-14.
minuta, Agas. (LAVIGNON), id. 184, 10, 1-4.
rostrata, Ag. (ANATINA Agassizii), id. pl. 10, 11-12.
tenuis, Ag. (A. subtenuis), id. 183, 10, 5-6.

PLICATULA, Lam. 1801.

<i>aspera</i> , Sow. G. T. 1831, pl. 38, f. 7.	E., Fr.	<i>C.</i>
<i>armata</i> , Roem. <i>not Goldf.</i> (Roemeri), Nord. Kreid. 60.		
<i>asperima</i> , d'Orb. P. F. 679, 462, 1-4.	Fr.	<i>N.</i>
<i>Carteroniana</i> , d'Orb. P. F. 680, 462, 5-7.	Fr.	<i>N.</i>
<i>gurgitis</i> , P. & R. Env. Genève. 517, 47, 4.	Fr.	<i>G.</i>
<i>imbricata</i> , Koch. Beitrag. 1837, 50, 6, 3.	G.	<i>N.</i>
<i>incongrua</i> , Con. Emory's Rep. 153, 6, 10.	Tex.	<i>C.</i>
<i>inequidens</i> , Sharpe, Q. J. G. S. vol. x, 197, 6, 3.	E.	<i>L. G.</i>
<i>inflata</i> , Sow. (radiola), M. Con. 409.		
<i>inflata</i> , Goldf. <i>not Sow.</i> (spinosa), 102, 107, 6.		
<i>multicostata</i> , Forbes, G. T. vol. vii, 155, 18, 3.	India.	<i>C.</i>
<i>nodosa</i> , Duj. M. G. S. F. vol. ii, 228, 15, 14.	Fr., G.	<i>C.</i>
<i>pectinoides</i> , Sow. <i>not Lam.</i> (radiola), M. Con. 409.		
<i>placunea</i> , Lam. An. S. Vert. vol. vi, 186.	Fr., G.	<i>L. G., N.</i>
<i>radiata</i> , Goldf. P. Germ. 102, 107, 7.	G.	<i>C.</i>
<i>radiola</i> , Lam. An. S. Vert. vol. vi, 185.	Fr., G., Port.	<i>G., L. G.</i>
<i>Roemeri</i> , d'Orb. P. F. 681, 462, 8-10.	Fr., G.	<i>N.</i>
<i>Saffordii</i> , Con. Jour. Acad. 2d s. vol. iv, 283, 46, 34.	Tenn.	<i>C.</i>

- septemcostata, Forbes, G. T. vol. vii, 155, 18, 4. India. *C.*
 spinosa, Mant. Geol. Suss. 26, 13, 16-17. E., G., Fr. *U. G.*
 tetrica, Con. Jour. Acad. 2d s. vol. iv, 283, 46, 26. Tenn. *C.*
 urticosa, Morton, Syn. 62, 10, 2. N. J. *C.*

Podopsis, Lam. 1819.

- gryphaeoides*, Lam. (GRYPH. vesicularis), An. S. Vert. vol. vi, 194.
truncata, Lam. (SPONDYLUS), id. 195.

Poromya, Forbes, 1844.

- globulosa*, Forbes (LYONSIA), G. T. vol. vii, 141, 17, 6.
lata, Forbes (LYONSIA), id. 141, 15, 14.

— **Psammobia, Lam. 1818 (GARI, Schum. 1817).**

- cancellato-sculpta* (GARI), Roem. Kreid. Tex. 46, 6, 10.
circinalis, Duj. (ARCOPAGIA), M. G. S. F. vol. ii, 223, 15, 3.
discrepens, Duj. (CAPSA), id. 223, 15, 2.
gracilis, Sow. in Fitt. (GARI), G. T. vol. iv, 341, 15, 2. E. *U. G.*
inconspicua, Sow. (GARI), id. vol. vii, 142, 15, 18. India. *C.*
semicostata, Roem. (G. inaequalis), Nord. Kreid. 74, 9, 21.
tellinoides, Sow. (GARI), Fitt. G. T. vol. iv, 176, 21, 6. E. *Weald.*

PULVINITES, DeFr. 1827.

- argentea*, Con. Jour. Acad. 2d s. vol. iii, 330, 34, 5. Ala., Miss. *C.*

Pycnodonta, Fisch. de Wald. 1835.

- radiata*, Fisch. (GRYPHAEA vesicularis), Bull. Mosc. vol. viii, pl. 1.

— **SANGUINOLARIA, Lam. 1799.**

- Cretacensis*,* Con. Jour. Acad. vol. iv, 277, 46, 11. Ala. *C.*

— **SAXICAVA, Fleur. 1802.**

- antiqua*, d'Orb. Prod. 136. Fr. *G.*

* *Cretacea* ?

— SILIQUA, Muhl. 1811 (*Leguminaria*, Schum. 1817).

Australis, Gabb (<i>Cultellus</i>), Gabb, 1861. Chili.	C.
Cretaceus, Gabb (<i>Cultellus</i>), Gabb, 1861. N. J.	C.
Moreana, d'Orb. Sp. (<i>Leguminaria</i>), Gabb, 1861. Fr.	G.
Nereis, d'Orb. Sp. (<i>Leguminaria</i>), Gabb, 1861. Fr.	U. G.
truncatula, Reuss Sp. (<i>Solen</i>), Gabb, 1861. G.	C.

SILICUARIA, Brug. 1791.

biplicata, Con. Jour. Acad. 2d s. vol. iii, 324, 34, 17. Ala.	C.
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— SOLECURTUS, Blainv. 1824.

*Actaeon, d'Orb. Prod. 158. Fr.	U. G.
aequalis, d'Orb. (<i>Solen</i>), Prod. 158. Fr.	U. G.
elegans, Math. Sp. " d'Orb. Prod. 194. Fr.	C.
Guerangeri, d'Orb. (<i>Solen</i>), Prod. 158. Fr.	U. G.
inflexus, Duj. Sp. " d'Orb. Prod. 235. Fr.	C.
obscurus, Forbes, G. T. vol. vii, 141, 17, 3. India.	C.
Pelagi, d'Orb. Prod. 158. Fr.	U. G.
radians, d'Orb. Prod. 158. Fr.	U. G.
Robinaldinus, d'Orb. (<i>Solen</i>), Prod. 75. Fr.	N.
subcompressus, d'Orb. Prod. 235. G.	C.
Warburtoni, Forbes, Q. J. G. S. vol. i, 237, 2, 1. E.	L. G.

SOLEMYA, Lam. 1819.

<i>planulata</i> , Con. (<i>LEGUMEN</i>), Jour. Acad. 2d s. vol. ii, 274, 24, 11.	
subplicata, M. & H. (<i>Solen</i>), Proc. Acad. vol. viii, p. 283. Neb.	C.

— SOLEN, Arist., List. 1786.

<i>aequalis</i> , d'Orb. (<i>SOLECURTUS</i>), P. F. 321, 350, 5-7.	
<i>carinatus</i> , Math. (<i>ANATINA</i>), Catal. 133, 11, 1-2.	
<i>compressus</i> , Goldf. (<i>SOLECURTUS subcompressus</i>), P. G. 276, 159, 4.	
Dupinianus, d'Orb. P. F. 320, 350, 3-4. Fr.	G.
<i>Dakotensis</i> , M. & H. (<i>PHARELLA</i>), 1857, Proc. Acad. p. 142.	

* "Espèce pourvue de côtés concentriques très prononcés" !

elegans, d'Orb. (SOLECURTUS radians), P. F. 322, 251, 3-5.

elegans, Math. (SOLECURTUS), Cat. 134, 11, 3.

Guerangeri, d'Orb. (SOLECURTUS), P. F. 321, 351, 1-2.

inflexus, Dujard. (SOLECURTUS), M. G. S. F. 2d s. vol. ii, 222, 15, 4.

lamellosus, Reuss (ARCOPAGIA), B. Kreid. 16, 36, 5.

irradians, Roem. Kreid. Tex. 45, 6, 9. Texas.

C.

Robinaldinus, d'Orb. (SOLECURTUS), P. F. 320, 350, 1-2.

subplicata, M. & H. (SOLEMYA), 1856, Proc. Acad. p. 56.

— **Sphaera**, Sow. 1822 (CORBIS, Cuv. 1817).

corrugata, Sow. (CORBIS), M. Con. 334.

SPHAERELLA, Con. 1838.

concentrica, Con. Jour. Acad. 2d s. vol. iv, 280, 46, 4. Ala. C.

SPONDYLUS, Linn. 1758.

alternatus, d'Orb. P. F. 665, 456, 1-5. Fr. C.

Aonis, d'Orb. Prod. 294. Fr. *Danien*.

asper, Münst. Goldf. P. G. pl. 106, f. 1. G. C.

Brunneri, P. & R. Env. Genève. 514, 47, 1. Fr. G.

calcaratus, Forbes, G. T. 2d s. vol. vii, 155, 18, 2. India. C.

capax, Con. Jour. Acad. 2d s. vol. ii, 274, 24, 8. N. J. C.

capillatus, d'Arc. (striatus), M. G. S. F. 2d s. vol. ii, pl. 17, f. 1.

Carantonensis, d'Orb. P. F. 665, 456, 6-7. Fr. C.

complanatus, d'Orb. P. F. 657, 451, 7-10. Fr. L. G.

Coquandianus, d'Orb. P. F. 663, 452, 9-11. Fr. C.

dumosus, Morton, Sp. *pars*.* (**Plagiostoma**), d'Orb. Prod. 254.

Ala. *Eocene*.

duplicatus, Goldf. (spinosus), P. Germ. 95, 105, 5.

Dutempleanus, d'Orb. P. F. 672, 460, 6-11. Fr. C.

fimbriatus, Goldf. P. G. 97, 106, 2. E., G., Fr. C.

gibbosus, d'Orb. P. F. 658, 452, 1-6. Fr. G.

globulosus, d'Orb. P. F. 667, 458. Fr. C.

gregalis, Morton, Sp. (**Plagiostoma**), d'Orb. Prod. 254. N. J. C.

Guadalupae, Roem. Kreid. Tex. 62, 8, 9. Tex. C.

* The specimen figured in the wood-cut, Synopsis, p. 60, is distinct from the lithograph. I would suggest the name *S. Mortoni* for it. Both the species are Eocene; the types are in the Museum of the Academy of Natural Sciences.

- hippuritarum*, d'Orb. P. F. 664, 455. Fr. C.
hystrix, Goldf. *not Roem.* P. G. 98, 105, 8. Fr., G. U. G.
hystrix, Roem. *not Goldf.* (Roemeri), Kreid. p. 39.
latus, Leym. *not Sow.* (Roemeri), M. G. S. F. 2d s. vol. v, pl. 6,
 f. 7.
lineatus, Goldf. P. Germ. 97, 106, 3. G. C.
obesus, d'Orb. P. F. 675, 461, 5-7. Fr. C.
Omali, d'Arc. (*hystrix*), M. G. S. F. 2d s. vol. ii, pl. 15, f. 4.
plicatus, Münst. *not Linn.* (*subplicatus*), Goldf. 98, 106, 7.
podopsideus, Lam. (*spinosus*), An. S. Vert. vol. vi, 194.
radiatus, Goldf. (*hystrix*), P. G. 98, 106, 6.
Renauxianus, d'Orb. P. F. 659, 452, 7-8. Fr. G.
Requienianus, Math. (*hystrix*), Catal. 189, 32, 3.
Roemeri, Desh. in d'Orb. P. F. 655, 451, 1-6. Fr., G. N.
Royanus, d'Orb. P. F. 674, 460, 1-5. Fr. C.
Santonensis, d'Orb. P. F. 666, 475. Fr. C.
spinosus, Sow. Sp. (*Plagiostoma*), Desh. An. Sc. Nat. vol. xv.
 E., Fr., G., Sw., Crimea. U. G.
striato-costatus, d'Orb. P. F. 655, 450. Fr. N.
striatus, Sow. Sp. (*Dianchora*), Goldf. P. G. 98, 106, 5. E.,
 Fr., G., Crimea. U. G.
strigilis, Brong. (*PLICATULA placunea*), Cuv. Oss. Foss. pl. Q. f. 6.
sublaevis, Münst. Goldf. P. G. 99, 106, 8. G. C.
subplicatus, d'Orb. Prod. 254. G. C.
subsquamosus, Forbes (*calcaratus*), G. T. vol. vii, 154, 18, 1.
truncatus, Lam. Sp. (*Podopsis*), d'Orb. P. F. 668, 459. E.,
 Sw., Fr., G. C.

TANCREDIA.

- Americana*, M. & H. (*Hettangia*), 1860, Proc. Acad. p. 185.
 Neb. C.

— TAPES, Mühlf. 1811.

- Hilgardi*, Shumard, 1860, Trans. Acad. St. Louis, p. 601. Texas. C.

— TELLINA, Linn. 1758.

- Albertina*, d'Orb. Voy. Astrol. pl. 4, 22-24. India. C.
angulata, Desh. *not Lam.* (Carteroni), M. G. S. F. vol. v, pl.
 3, f. 6.
aequalis, Mant. G. T. vol. iii, p. 211. E. L. G.

- Bogotina, d'Orb. Am. Merid. 84, 18, 15. N. Gren. *N.*
 Carteroni, d'Orb. P. F. 420, 380, 1-2. Fr. *N.*
 ? Cheyennensis, M. & H. 1856, Proc. Acad. p. 82. Neb. *C.*
concentrica, Reuss (ARCOPAGIA), B. Kreid. 18, 36, 19-20.
costulata, Goldf. (ARCOPAGIA), P. Germ. 235, 147, 19.
densata, Con. (DOSINIA), Jour. Acad. 2d s. vol. ii, 275, 24,
 14. N. J. *C.*
eborea, Con. id. vol. iv, 278, 46, 14. Ala., Miss. *C.*
Eufalensis, Con. id. vol. iv, 277. Ala. *C.*
equilateralis, M. & H. Proc. Acad. p. 82 (1856). Neb. *C.*
 ? *formosa*, M. & H. 1860, Proc. Acad. p. 179. Neb. *C.*
Goldfussii, Roem. Nord. Kreid. 73, 9, 18. G. *C.*
gracilis, Sow. Sp. (GARI), d'Orb. Prod. 159.
gracilis, M. & H. (THRACIA), 1856, Proc. Acad. p. 82.
Grangei, d'Orb. (G. inconspicua), Voy. Astrol. pl. 5, f. 8-10.
inaequalis, Sow. (GARI), M. Con. 456.
Largilliertii, d'Orb. Voy. Astrol. pl. 5, 5-6. Chili. *C.*
 **limatula*, Con. Jour. Acad. 2d s. vol. iv, 278, 46, 10. Ala. *C.*
Moreana, d'Orb. P. F. 421, 380, 3-5. Fr. *G.*
occidentalis, Morton (LUCINA), 1842, Jour. Acad. 1st s. vol.
 viii, 210, 11, 3.
plana, Roem. *not Donovan* (pseudo-plana), Kreid. 74, 9, 19.
Pondicheriensis, Forbes, G. T. vol. vii, 142, 18, 15. India. *C.*
Prouti, M. & H. (THRACIA), 1856, Proc. Acad. p. 83.
pseudo-plana, d'Orb. Prod. 236. G. *C.*
Reichii, Roem. (THRACIA), Nord. Kreid. 74, 9, 26.
Royana, d'Orb. P. F. 422, 380, 9-11. Fr. *C.*
Renauxii, Math. Catal. 142, 13, 11. Fr. *C.*
Ripleyana, Con. Jour. Acad. 2d s. vol. iii, 327. Miss. *C.*
scitula, M. & H. 1856, Proc. Acad. p. 82. Neb. *C.*
striatula, Sow. M. Con. 456. E. *U. G.*
strigata, Goldf. (ARCOPAGIA), P. Germ. 235, 147, 18.
subdecussata, Roem. (ARCOPAGIA), Nord. Kreid. 74, 9, 20.
 ? *subelliptica*, M. & H. 1856, Proc. Acad. p. 83. Neb. *C.*
subradiata, Roem. Sp. (**Donax**), d'Orb. Prod. 236. G. *C.*
subtenuistriata, d'Orb. Prod. 159. E. *U. G.*
subtortuosa, M. & H. (THRACIA), 1856, Proc. Acad. 272.
tenuissima, Reuss, Böhm. Kreid. 19, 36, 18-24. G. *C.*

* Mr. Conrad places this species, with *T. eborea*, in a subgenus, which he calls *Tellinimera*.

— TEREDO, Linn. 1758.

Argonensis, Buignier, 1843, Deser. de Argennes.	Fr.	G.
<i>calamus</i> , Tuomey, <i>not Lea</i> (<i>calamoides</i>), 1855, Proc. Acad.	170.	
<i>calamoides</i> , Gabb (<i>calamus</i> , Tuomey), 1861.	Ala.	C.
Fleurius, d'Orb. Prod.	157. Fr.	U. G.
<i>globosa</i> (us), M. & H. 1858, Proc. Acad.	p. 53. Neb.	C.
Requienianus, Math. Cat.	132, 10, 5-7. Fr.	C.
<i>irregularis</i> , Gabb, Jour. Acad.	2d s. vol. iv, 393, 68, 19.	N.
J., Ala.		C.
<i>rotundus</i> , Sow. Dixon's Geol. Suss.	346, 28, 27-28. E.	C.
<i>selliformis</i> , M. & H. 1860, Proc. Acad.	178. Neb.	C.
<i>tibialis</i> , Morton, Synopsis,	68, 9, 2. N. J., Del.	C.

— THETIS, Sow. 1826.

<i>laevigata</i> , Sow. Sp. (<i>Corbula</i>), d'Orb. P. F.	452, 387, 1-3.	
Fr.		L. G.
Genevensis, P. & R. Env. Genève.	420, 30, 2. Fr.	G.
<i>major</i> , Sow. M. Con.	513. E., Fr.	U. G.
<i>minor</i> , Sow. M. Con.	513. E., Fr., G.	G.
<i>undulata</i> , Geinitz, Quadersand.	G.	

— THRACIA, Leach, 1825.

<i>Alpina</i> , P. & R. Env. Genève.	415, 29, 7. Fr.	G.
<i>elongata</i> , Roem. Nord. Kreid.	75, 10, 2. G.	U. G.
<i>gibba</i> , d'Orb. P. F.	388, 374. Fr.	U. G.
<i>corbulopsis</i> , Gabb, 1860, Proc. Acad.	198, 3, 1. Chili.	C.
<i>gracilis</i> , M. & H. (<i>Tellina</i>), 1856, Proc. Acad.	284. Neb.	C.
Nicoleti (ii), Agas Sp. (<i>Corimya</i>), d'Orb. Prod.	74. G.	N.
<i>occidentalis</i> , Meek, Trans. Alb. Inst.	vol. iv, p. 43. Vancou-	
ver I.		C.
Phillipsii, Roem. Nord. Kreid.	74, 10, 1. G.	N.
Proutii, M. & H. (<i>Tellina</i>), 1860, Proc. Acad.	425. Neb.	C.
<i>recurva</i> , d'Orb. Prod.	117. E.	L. G.
<i>rotunda</i> , P. & R. Env. Genève.	414, 29, 6. Fr.	G.
<i>subangulata</i> , Desh. M. G. S. F.	1842, 3-5, 1. Fr.	N.
<i>subdepressa</i> , d'Orb. Prod.	74. Fr., E.	N.
<i>subtortuosa</i> , M. & H. (<i>Tellina</i>), 1860, Proc. Acad.	425. Neb.	C.

- subtruncata, Meek, Trans. Alb. Inst. vol. iv, p. 44. Vancouver I. *C.*
 taurica, Agas. Sp. (*Coriomya*), d'Orb. Prod. 74. Crimea. *N.*
 vulvaria, Agas. Sp. (*Coriomya*), d'Orb. Prod. 74. G. *N.*

TRIGONIA, Brug. 1791.

- abrupta, Von. Buch, Petr. Rec. En. Amer. 17, 2, 21, 22. N. Gren. *N.*
 aliformis, Sow. M. Con. 215. E., Fr. *U. G., G.*
 alaeformis, Morton, not Sow. (thoracica), Jour. Acad. 1st s. vol. viii.
 aliformis, Goldf. Roem. Forbes, &c., not Sow. (limbata).
 affinis, Sow. (sinuata), M. Con. 208.
 Archiaciana, d'Orb. P. F. 142, 290, 6-10. Fr., G. *G.*
 bipartita, d'Orb. Prod. 240. Fr. *C.*
 carinata, Agas. 1840, "Trigones," 47, 8, 1. Fr. *N.*
 caudata, Agas. id. 32, 7, 1-3. Fr., G., Port. *N.*
 cincta, Agas. (rudis), id. 27, 7, 21-23.
 conformis, Agas. Trigon. pl. 9, f. 2-4.
 Constantii, d'Orb. P. F. 144, 294, 1-6. Fr., G. *G.*
 Coquandiana, d'Orb. P. F. 149, 249, 1-4. Fr. *U. G.*
 crenulata, Lam. An. S. Vert. vol. vi, p. 63. Fr. *U. G.*
 crenulata, Roem. (Mooreana), Kreid. Tex. 51, 7, 6.*
 conocardiiformis, Krauss. Sp. (*Lyrodon*), Gabb, 1861.
 S. Africa. *U. G.?*
 daedalea, Park. Org. Rem. pl. 12, f. 6. E., Fr. *U. G.*
 Delafosse, Bayle & Coquand, M. G. S. F. vol. iv, 37, 8, 27.
 Chili. *N.*
 disparilis, d'Orb. P. F. 157, 299, 3-4. Fr. *C.*
 divaricata, d'Orb. P. F. 135, 288, 1-4. Fr. *N.*
 echinata, d'Orb. Prod. 240. Fr. *C.*
 elongata, Sow. pars. (carinata), M. Con. 431, f. 1-2 (exclus. 3).
 elegans, Baily, Q. J. G. S. vol. xi, 461, 13, 3. S. Africa. *U. G.?*
 Emoryi, Con. Emory's Rep. 148, 3, 2. Texas. *C.*

* After a careful comparison of Roemer's figure and description with authentic specimens and figures of Lamarck's species, I am convinced that they are different. Besides the outline, the most obvious difference is in the number and arrangement of the ribs. I take pleasure, therefore, in naming the species after my friend, the able State geologist of Texas.

- Eufalensis, Gabb, Jour. Acad. 2d s. vol. iv, 396, 68, 32. Ala., Miss., Tenn., N. J. *C.*
- Evansii, Meek, Trans. Albany Inst. vol. iv, p. 42. Vancouver I. *C.*
- excentrica, Sow. M. Con. 208. E. *U. G.*
- excentrica*, Goldf. *not* Sow. (subexcentrica), P. Germ. 137, 8, 203.
- Fittoni, Desh. M. G. S. F. vol. v, pl. 9, f. 6. Fr. *G.*
- Gibboniana*, Lea (Hondaana), Trans. Am. Phil. Soc. vol. vii, 255, 9, 7.
- Hanetiana, d'Orb. Am. Merid. 127, 12, 14-16. Chili. *C.*
- harpa*, Desh. (carinata), M. G. S. F. vol. v, pl. 9, f. 7.
- Herzogii, Hausm. Sp. (*Lyrodon*), Bronn, Ind. Pal. p. 1280. S. Africa. *U. G.*
- Hondaana, Lea, Trans. Am. Phil. Soc. 2d s. pl. 9, f. 9, vol. vii. N. Gren. *N.*
- Hondeana*, d'Orb. (Hondaana), Index Prod. Pal.
- Humboldtii, Von Buch, Pet. Rec. Humb. 9, 2, 28-30. N. Gren. *N.*
- inornata, d'Orb. P. F. 158, 297, 6-8. Fr. *C.*
- Lajoyei, Desh. M. G. S. F. vol. v, pl. 8, f. 4. Fr. *N.*
- Lamarckii, Math. Catal. 164, 22, 5-7. Fr. *C.*
- limbata, d'Orb. P. F. 156, 298. Fr., G., India, Texas, Ala. *C.*
- longa, Agas. Trigon. 47, 8, 1. Fr., G. *N.*
- longirostris, d'Orb. Prod. 240. Fr. *C.*
- Lusitanica, Sharpe, Q. J. G. S. vol. vi, 190, 22, 4. Port. "Lower Cret."*
- Mooreana, Gabb, 1861 (*crenulata*, Roem. *not* Lam.). Texas. *C.*
- nodosa*, Sow. (rudis), M. Con. 507.
- Nereis, d'Orb. Prod. 162. Fr. *U. G.*
- Orientalis, Forbes, G. T. vol. vii, 150, 18, 11. India. *C.*
- ornata, d'Orb. P. F. 136, 288, 5-9. E., Fr., G. *N.*
- palmata, Desh. M. G. S. F. 2d s. vol. v, pl. 8, f. 5. Fr. *N.*
- pennata*, Sow. (sulcataria), M. Con. 237.
- paradoxa, Agas. Trigon. 46, 10, 12. Fr. *N.*
- plicato-costata, Galeotti, Bull. Acad. Brux. vol. vii, p. 1, f. 1. Mexico. *C.*
- pulchella*, Reuss, *not* Agas. (subpulchella), B. K. 5, 41, 3.

* Some of the species, thus referred by the above author, belong to the *Juras-sic*; such as *T. muricata*, Goldf. Further investigation will be necessary to fix the position of the rest.

- Pyrrha*, d'Orb. Prod. 161. Fr. *U. G.*
quadrata, Sow. G. T. 2d s. vol. iv, pl. 17, f. 12. E. *U. G.*
quadrata, Agas. *not Sow.* (daedalea), Etud. Trigon. 27, 6, 7-9.
Robinaldina, d'Orb. P. F. 139, 199, 1-2. Fr. *N.*
rudis, Park. Org. Rem. 177, 12, 10. E., Fr., G. *N.*
scabra, Lam. An. S. Vert. vol. vi, p. 63. E., Fr., G. *C.*
scabra, Morris, *not Lam.* (caudata), Catal.
scapha, Agas. Etud. Trigon. 15, 7, 17-20. Fr. *N.*
semiculta, Forbes, G. T. vol. vii, 151, 18, 9. India. *C.*
semiornata, d'Orb. (orientalis), Voy. Astrol. pl. iv, 31, 32.
sinuata, Park. Org. Rem. pl. 12, f. 13. E., Fr. *U. G.*
sinuata, d'Orb. *not Park.* (suborbicularis), Voy. Astrol. pl. 4,
 29-30.
spinosa, Park. Org. Rem. pl. 12, f. 7. E., Fr. *U. G.*
spinosa, Sow. *not Park.* (ornata), M. Con. 86.
spectabilis, Sow. (rudis), M. Con. 544.
subcrenulata, d'Orb. (Tocaimaana), Am. Merid. 87, 19, 7-9.
subexcentrica, d'Orb. Prod. 240. G. *C.*
suborbicularis, Forbes, G. T. vol. vii, 150, 18, 10. India. *C.*
subpulchella, d'Orb. Prod. 240. G. *C.*
sulcata, Agas. (carinata), Etud. Trigon. 44, 8, 5.
sulcataria, Lam. An. S. Vert. vol. vi, p. 84.
tenuisulcata, Duj. M. G. S. F. vol. ii, 225, 15, 11. Fr. *C.*
Texana, Con. Emory's Rep. 148, 3, 3. Tex. *C.*
thoracica, Morton, Syn. 65, 15, 13. N. J., Del., Ala., Miss.,
 Tenn., Texas. *C.*
Tocaimaana, Lea, Am. Phil. Soc. vol. vii, pl. 9, f. 8. N. Gren. *N.*
ventricosa, Krauss, Sp. (*Lyrodon*), Gabb, 1861. S. Africa. *U. G.*

— UNICARDIUM, d'Orb. 1847.

- inornatum*, d'Orb. (*Cardium*), Prod. 79. Fr. *N.*
laevigatum, Sow. Sp. (*Corbula*), d'Orb. Prod. 163. E. *U. G.*

Venericardia, Lam. 1801. See **CARDITA**.

— *VENILIA, Morton, 1834 (*Cyprina*, *pars* d'Orb.).

Conradi, Morton, Syn. 66, 9, 3. N. J., Del., Ala., Miss., Tenn. *C.*

* I have in my collection a cast of a fourth species, from New Jersey, larger than *V. Conradi* and more abrupt. The genus is certainly very distinct from *Cyprina*, and will probably include some species published under that name.

rhomboidea, Con. Jour. Acad. 2d s. vol. ii, 275, 24, 7. N. J. C.
 trapezoidea, Con. id. vol. iv, 282, 47, 7. N. J., Ala., Miss. C.

— VENUS, Linn. 1758.

- analoga, Forbes, G. T. vol. vii, 147, 15, 20. India. C.
Allaudiensis, Math. (Astarte gigantea), Catal. pl. 5, f. 1-2.
angulata, Sow. (CYPRINA), M. Con. 65.
Archiaciana, d'Orb. P. F. 449, 386, 6-7. Fr. C.
Arcotensis, Forbes (ASTARTE), G. T. vol. vii, 146, 15, 19.
Astieriana, Math. Catal. 154, 16, 9-10. Fr. U. G.
Auca, d'Orb. Am. Merid. 122, 12, 17, 18. Chili. C.
Aucasiana, d'Orb. (Auca), Prod. 237.
Bavarica, Munst. in Goldf. P. G. 246, 151, 1. G. C.
Brongniartina, Leym. (sub-Brongniartina), M. G. S. F. vol. v,
 pl. 5, f. 7.
caperata, Sow. M. Con. 518. E. U. G.
caperata, d'Orb. (MERETRIX uniformis), M. Con. 446.
Cenomanensis, d'Orb. Prod. 159. Fr. U. G.
Chia, d'Orb. Am. Merid. 82, 18, 9-10. N. Gren. N.
circularis, M. & H. 1856, Proc. Acad. 272. Neb. C.
circulus, Gabb, 1859 (circularis), Cat. Cret. p. 17.
concentrica, Roem. *not Born.* (subconcentrica), Nord. K. 72, 9, 11.
cordiformis, Desh. (CORBIS corrugata), M. G. S. F. vol. v, pl.
 5, f. 8.
Cornueliana, d'Orb. P. F. 436, 383, 10-13. Fr. N.
Cottaldina, d'Orb. P. F. 438, 384, 1-3. Fr. N.
cretacea, d'Orb. Am. Merid. p. 83. N. Grenada. N.
Dupiniana, d'Orb. P. F. 434, 383, 1-4. Fr. N.
elongata, Reuss, *not McCoy* (subelongata), B. K. 20, 41, 9.
eximea, Forbes (analoga), G. T. vol. vii, 147, 15, 21.
faba, Sow. M. Con. 567, f. 3. E., Fr. U. G.
faba, Goldf. *not Sow.* (subfaba), P. G. 247, 151, 6.
fabacea, Roem. Nord. Kreid. 72, 9, 13. G. C.
fenestrata, Forbes (CARDITA), Q. J. G. S. vol. i, 240, 2, 6.
fragilis, d'Orb. (Cenomanensis), P. F. 446, 385, 11-12.
Galdrina, d'Orb. P. F. 437, 383, 13-15. Fr. N.
gibbosa, Münt. *not Sow.* (subgibbosa), Goldf. 246, 151, 3.
Goldfussii, Geinitz, Quadersand. G.
granum, Math. (ASTARTE), Cat. 158, 15, 7.
Hallii, Gabb, 1861 (*Orbignyana*, Gabb, *not Forbes*). Chili. C.

- Icaunensis, d'Orb. P. F. 439, 384, 4-6. Fr. *N.*
 immersa, Sow. in Fitt. G. T. vol. iv, pl. 17, f. 6. E. *U. G.*
jucunda, Duj. Sp. (MERETRIX), d'Orb. Prod. 237.
 Labadyei, d'Arc. M. G. S. F. 2d s. vol. ii, 303, 14, 7. G. *C.*
 Lamarekii, Math. Catal. 151, 15, 5. Fr. *C.*
laminosa, Reuss, *not Montagu* (sublaminosa), B. K. 21, 41, 6-15.
 Lapeyrusana, Leym. M. G. S. F. 2d s. vol. iv, 196, pl. a, f. 16.
 Fr. *C.*
lata, Roem. (CYPRINA), Nord. Kreid. 75, 9, 10.
 latesulcata, Math. Catal. 152, 16, 1-2. Fr. *C.*
lincolata, Sow. (MERETRIX), M. Con. 20.
 Martiniana, Math. Catal. 154, 16, 7-8. Fr. *C.*
 Matronensis, d'Orb. P. F. 433, 382, 7-8. Fr. *N.*
Neocomensis, d'Orb. (Vendoperata), P. F. pl. 384, 7-10.*
 Meekana, Gabb, Jour. Acad. 2d s. vol. iv, 394, 68, 23. Ala. *C.*
 Noueliana, d'Orb. Prod. 195. Fr. *C.*
numismalis, Müll. (LUCINA subnumismalis), Aach. K. 25, 2, 5.
 obesa, d'Orb. P. F. 434, 382, 9-11. Fr. *N.*
 Orbignyana, Forbes, Q. J. G. S. vol. i, 240, 2, 5. E. *L. G.*
Orbignyanus, Gabb, *not Forbes* (Hallii), Proc. Acad. 1860,
 198, 3, 2.
 ovalis, Sow. M. Con. 567. E. *U. G.*
 ovalis, Goldf. *not Sow.* (subovalis), P. Germ. 243, 151, 5.
 ovum, Math. Catal. 152, 16, 3-4. Fr. *C.*
parallela, Münst. *not Phil.* (subparallela), Goldf. 246, 151, 2.
 parva, Sow. M. Con. 518. E. *U. G.*
 parva, Reuss (LUCINA orbicularis), B. Kreid. pl. 41, f. 16, 17.
 parva, Goldf. (subparva), P. Germ. 247, 151, 4.
 pentagona, Reuss (CRASSATELLA), Böhm. Kreid. 21, 41, 7-8.
 perovalis, Con. Lynch's Exped. 225, 1-2. Syria. *C.*
 plana, Sow. M. Con. 20. E., Fr. *U. G.*
 plana, d'Orb. *pars.* (Renauxiana), P. F. 447.
 plana, Goldf. (subplana), P. Germ. pl. 148, f. 4.
 Renauxiana, d'Orb. Prod. 194. Fr. *C.*
 Rhotomagensis, d'Orb. P. F. 443, 385, 1-5. Fr. *U. G.*
 Ricordeana, d'Orb. P. F. 431, 381, 1-2. Fr. *N.*
Ringmeriensis, Mant. (PANOPAEA), G. Suss. 126, 25, 2.
 Ripleyana, Gabb, 1860, Jour. Acad. vol. iv, 393, 68, 22. N. J.,
 Tenn. *C.*
 Robinaldina, d'Orb. P. F. 435, 383, 5-9. Fr. *N.*

* *Vendoperata* in the text; *Neocomensis* on the plate.

Roißsyi, Leym. Sp. (<i>Lucina</i>), d'Orb. P. F. 441, 384, 13, 15. Fr.	L. G.
Royana, d'Orb. P. F. 448, 386, 4-5. Fr.	C.
sub-Brongniartina, d'Orb. Prod. 76. Fr.	N.
subconcentrica, d'Orb. Prod. 237. G.	C.
subdecussata, Roem. Nord. Kreid. 72, 9, 12. G.	C.
subelongata, d'Orb. Prod. 237. G.	C.
subfaba, d'Orb. Prod. 237. G.	C.
subgibbosa, d'Orb. Prod. 237. G.	C.
sublaevis, Sow. G. T. vol. iv, pl. 17, f. 5. E.	U. G.
sublamellosa, Shum. Trans. Acad. St. Louis, 1860, p. 598. Tex.	C.
sublaminosa, d'Orb. Prod. 237. G.	C.
submersa, Sow. G. T. vol. iv, pl. 17, f. 4. E.	U. G.
subovalis, d'Orb. Prod. 237. G.	C.
subparallela, d'Orb. Prod. 237. G.	C.
subparva, d'Orb. Prod. 237. G.	C.
subplana, d'Orb. Prod. 237. G., Fr.	C.
subrotunda, Sow. Sp. (<i>MERETRIX</i>), d'Orb. Prod. 159.	
subtruncata, d'Orb. Prod. 159. E.	U. G.
subturgida, d'Orb. Prod. 237. Fr.	C.
? tenera, Sow. G. T. vol. iv, pl. 11, f. 7. E.	U. G.
truncata, Sow. (subtruncata), G. T. vol. iv, pl. 17, f. 3.	
tumida, Müll. Aach. Kreid. 25, 2, 4. G.	C.
turgida, Math. not Lam. (subturgida), Catal. 153, 16, 5-6.	
uniformis, Duj. Sp. (<i>MERETRIX</i>), d'Orb. Prod. 236.	
Vassiacensis, d'Orb. P. F. 444, 381, 11-12. Fr.	L. G.
Vectensis, Forbes, Q. J. G. S. vol. i, 240, 2, 4. E.	L. G.
Vendoperata, Leym. Sp. (<i>Lucina</i>), d'Orb. P. F. 439, 384, 7-10. Fr.	N.
Vibrayeana, d'Orb. P. F. 442, 384, 16-20. Fr., G.	G.

VULSELLA, Humph.

Turonensis, Dujard. (*OSTREA*), M. G. S. F. vol. ii, 228, 15, 1.

XYLOPHAGA, Turton, 1822.

elegantula, M. & H. 1857, Proc. Acad. p. 141. Neb. C.
Stimpsoni, M. & H. (*PHOLAS?*), 1857, id. 141.

YOLDIA, Müll. 1832.

Evansi, M. & H. (<i>Nucula</i>), 1860, Proc. Acad.	429.	Neb.	C.
scitula, M. & H. " id.	428.	Neb.	C.
subnasuta, H. & M. Sp. (<i>Nucula</i>), M. & H. id.	429.	Neb.	C.
ventricosa, H. & M. Sp. " M. & H. id.	429.	Neb.	C.

HIPPURITINAE.*

Batholites, Montf. 1808 (HIPPURITES, Lam. 1801).

organisans, Montf. (HIPPURITES), Conch. Syst. 1, p. 334.

BIRADIOLITES, d'Orb. 1847.

angulosa, d'Orb. P. F. 233, 574, 7-11.	Fr.	C.
canaliculata, d'Orb. P. F. 230, 572.	Fr.	C.
cornu-pastoris, Desm. Sp. (<i>Hippurites</i>), d'Orb. P. F. 231, 572.		
Fr.		C.
fissicosta, d'Orb. P. F. 234, 575.	Fr.	C.
quadrata, d'Orb. P. F. 232, 574, 1-6.	Fr.	C.

* After a careful study of all the material at my disposal, and after reading the views of the numerous able students who have studied the subject, I have been led to believe that this curious group of genera, constituting according to some authors a distinct order, according to others, a suborder, and considered by still a third class, as only a family, are more nearly related to the *Conchifera* than to the *Brachiopoda*. From their paradoxical nature, they have been considered *Cephalopoda*, *Zoophytes*, *Brachiopoda*, and as a totally distinct order.

Mr. Woodward, in a very able paper in the tenth volume of the Quarterly Journal of the Geological Society of London, points out their true character, refers them to the *Conchifera*, and considers them a family, related to the *Chamacea* and *Cardiadae*. I am inclined to consider them rather as a suborder of the *Conchifera*.

The reasons given by Woodward for separating them from the *Brachiopoda*, and uniting them with the *Conchifera*, are as follows:

"1. The shell is composed of three layers, which is not the case in any *Brachiopod*.

"2. The prismatic-cellular structure is like that of *Perna* and *Aetheria*, and not like any *Brachiopod*.

Birostrites, Lam. 1819.

inaequiloba, Lam. (RADIOLITES Hoeninghausii), A. S. Vert.
vol. vi, 236.

CAPRINA, C. d'Orb. 1823.

adversa, d'Orb. Sr., An. d. Mus. vol. viii, pl. 3, f. 1-3. Fr.,
G. U. G.

Aguilloni, d'Orb. Rev. Crit. 1839, p. 169. Fr., G. C.

bipartita, d'Orb. Sr. (*adversa*), An. d. Mus. vol. viii, pl. 3, f.
4-5.

Boissyi, d'Orb. (CAPRINULA), Rev. Cuv. 169.

Coquandiana, d'Orb. 1839, Rev. Cuv. 169. Fr. C.

costata, d'Orb. (CAPROTINA), id. 169.

laminea, Gein., Reuss, Böhm. Kreid. 53, 45, 6. G. C.

Lonsdalei, Sow. Sp. (CAPROTINA), Brown, Foss. Conch. G. B.
p. 176.

Michelini, Math. (CAPROTINA varians), Cat. 113, 4, 6-7.

Partechii, Hauer. (Aguilloni), 1847, Nat. Abh. p. 109.

quadripartita, d'Orb. (CAPROTINA), Rev. Cuv. 169.

Russiensis, d'Orb. (CAPROTINA), Geol. Russ. 496, 43, 31-33.

semistriata, d'Orb. (CAPROTINA), Rev. Cuv. 169.

striata, d'Orb. (CAPROTINA), id. 169.

trilobata, d'Orb. (CAPROTINA), id. 169.

crassifibra, Roem. Kreid. Tex. 79, 5, 6. Tex. C.

"3. No *Brachiopod* has a subnacreous shell with water chambers.

"4. The upper valve has a different structure from the lower.

"5. Each valve is unsymmetrical.

"6. The valves are right and left, not dorsal and ventral.

"7. They are articulated by teeth and sockets, which is not the case with *Crania*; and the teeth are developed from the free valve. In all fixed *Brachiopods*, the teeth are on the fixed valve.

"8. The *Hippuritidae* had a large internal ligament (like *Spondylus*) for opening the valves.

"9. The muscular impressions are two only.

"10. The so-called vascular impressions are on the rim of the shell, not on the disc, as in *Crania*, &c.

"11. The *Hippuritidae* have a distinct pallial line."

The above reasons are certainly conclusive, as far as regards their separation from the *Brachiopoda*, but I cannot understand how they fix any reasonably close family relations with either of the families to which Mr. Woodward refers them.

Guadalupae, Roem. id. 79, 5, 4. Tex.	C.
Occidentalis, Con. 1856, Proc. Acad. 268. Tex.	C.
quadrata, Con. id. 268. Tex.	C.
planata, Con. id. 268. Tex.	C.

Caprinella, d'Orb. 1847 (ICHTHYOSARCOLITHUS,*
Desm. 1817).

coraloidea, H. & M. (ICHTHYOSARCOLITHUS), Mem. Acad.

Boston, 2d s. vol. v, 380, 1, 3.

Doublieri, d'Orb. (I.), P. F. 191, 541.

triangularis, Desm. Sp. (I.), d'Orb. P. F. 192, 542.

CAPRINULA, d'Orb. 1847.

Boissyi, d'Orb. (Caprina), P. F. 188, 540. Fr., Port.	C.
brevis, Sharpe, Q. J. G. S. vol. vi, 180, 17, 1-2. Port.	C.
Orbigny, S. id. 180, 18, 1-2. Port.	C.

CAPROTINA, d'Orb. 1839.

ammonia, Goldf. Sp. (Chama), d'Orb. An. Sc. Nat. 1842, p. 180. Fr., G.	N.
Archiaciana, d'Orb. P. F. pl. 588. Fr.	C.
Carantonensis, d'Orb. P. F. 592. Fr.	U. G.
carinata, d'Orb. P. F. 587. Fr.	U. G.
Cenomanensis, d'Orb. P. F. 595. Fr.	U. G.
costata, d'Orb. (Caprina), An. Sc. Nat. 1842, 182. Fr., G.	U. G.
depressa, Math. Sp. (Monopleura), d'Orb. P. F. pl. 580, 4-6. Fr.	N.
Delarueana, d'Orb. P. F. pl. 589. Fr.	U. G.
gryphoides, Math. Sp. (Requienia), d'Orb. P. F. 577. Fr.	N.
imbricata, Math. Sp. (Monopleura), d'Orb. P. F. 580. Fr.	N.
laevigata, d'Orb. P. F. 586. Fr.	U. G.
lamellosa, d'Orb. P. F. 576. Fr.	N.
Lonsdalei, Sow. Sp. (Diceras), d'Orb. P. F. 573-574. E., Fr., G.	N.
Marticensis, Math. Sp. (Dipilidia), d'Orb. Prod. 260. Fr.	C.

* It is to be regretted that such a singularly uneuphonious name should take precedence of the one given by M. d'Orbigny, but it cannot be avoided. It is the oldest.

navis, d'Orb. P. F. pl. 585. Fr.	U. G.
ornata, d'Orb. (<i>Requienia</i>), Gabb, 1861. Fr.	U. G.
quadripartita, d'Orb. (<i>Caprina</i>), P. F. 581, 582. Fr.	U. G.
Roemerii, Gabb, 1861 (<i>Monopleura Texana</i> , Roem, not CAP- ROTINA <i>Texana</i> , Roem). Texas.	C.
rugosa, d'Orb. P. F. 584. Fr.	U. G.
Russiensis, d'Orb. (<i>Caprina</i>), Prod. 260. Russia.	C.
semistriata, d'Orb. (<i>Caprina</i>), P. F. 583. Fr.	U. G.
Senseni, Con. Sp. (<i>Inoceramus*</i>), Gabb, 1861. Ark.	C.
striata, d'Orb. (<i>Caprina</i>), P. F. 584. Fr.	U. G.
subaequalis, d'Orb. P. F. 590. Fr.	C.
sulcata, Math. Sp. (<i>Monopleura</i>), d'Orb. P. F. 579. Fr., G.	N.
<i>Texana</i> , Roem. Kreid. Tex. 80, 4, 2. Tex.	C.
subtriquetra, Roem. Sp. (<i>Monopleura</i>), Gabb, 1861. Tex.	C.
Toucasiana, d'Orb. P. F. 591. Fr.	C.
trilobata, d'Orb. (<i>Caprina</i>), P. F. 575. Fr.	N.
<i>uniusulcata</i> , Math. Sp. (trilobata), d'Orb. P. F. p. 246.	
varians, Math. Sp. (<i>Monopleura</i>), P. F. 578. Fr.	N.

Dipilidia, Math. 1842.

Marticensis, Math. (CAPROTINA), Cat. 113, 7, 1-2.

uniusulcata, Math. (C. trilobata), Cat. 112, 8, 9.

HIPPURITES, Lam. 1801.

agariciformis, Delam. Sp. (RADIOLITES), Goldf. P. G. 300,
164, 1.

bioculata, Lam. not Montf. An. S. Vert. p. 104. Fr., G. C.

bioculatus, Montf. (dilatata), Conch. Syst. 286.

bioculata, Brown (canaliculata), Leth. Geog. 633.

canaliculata, Roland, 1841, Rudist. 50, 3, 2-4. Fr. C.

Chiliensis, d'Orb. Am. Merid. 107, 22, 16. N. Gren. N.

colliciatu (a), Woodw. Q. J. G. S. vol. xi, 58, 4, 5. Asiatic
Turkey. ?

cornucopiae, Deifr. (organisans), D. Sc. Nat. 21, p. 196.

cornu-pastoris, Desm. (BIRADIOLITES), Essai sur Sphaer. 141,
pl. 10.

* Mr. Conrad has placed this species successively in *Inoceramus*, *Arietina*, and *Requienia*.

- cornu-vaccinum*, Bronn, Jahrb. fur Min. 1832, p. 171. Fr., G. C.
corrugatus (a), Woodw. Q. J. G. S. vol. xi, 58, 4, 4. Asiatic Turkey. ?
costulatus, Goldf. (*cornu-vaccinum*), P. G. 302, 165, 2.
curva, Lam. (*bioculata*), An. S. Vert. vol. vii, 598.
dilatata, Defr. D. Sc. Nat. 21, 197. Fr. C.
ellipticus, Gein. (RADIOLITES), Char. Kreid. 19, 13-14.
Espallaciana, d'Orb. An. Sc. Nat. (1842), p. 188. Fr. C.
falcata, Reuss, Böhm. Kreid. 55, 45, 16. G. C.
fistulæ, Defr. (*organisans*), Dict. Sc. Nat. 21, 197.
Gallo-provincialis, Math. (*cornu-vaccinum*), Cat. pl. 9, f. 1-3.
Germani, Gein. (RADIOLITES), Char. Kreid. pl. 14, f. 3-5.
gigantea, d'Homb. Firm. (*cornu-vaccinum*), Rec. de Mem. 198, 4, 1.
inaequicostata, Munst. Goldf. P. G. 303, 165, 4. G. C.
Lapierousii, Goldf. (RADIOLITES), 303, 165, 5.
lata, Math. (*cornu-vaccinum*), Cat. pl. 9, f. 4-5.
Loftusi, Woodw. Q. J. G. S. vol. xi, 58, pl. 3. Asiatic Turkey. ?
Mortoni, Mant. (RADIOLITES), Geol. Suss. p. 130.
Moulinsii, d'Homb. Firm. (*cornu-vaccinum*), Rec. de Mem. 200, 4, 6.
organisans, Montf. Sp. (Batholites), Desm. Essai sur Sph. 146. Fr., G., Syria. C.
radiosa, Desm. Essai sur Sphaer. 141, 9, 2. G., Fr. C.
Requieniana, Math. Cat. pl. 10, f. 1. Fr., G. C.
resecta, Defr. (*organisans*), D. Sc. Nat. 21, 196.
rugosa, Lam. (*bioculata*), An. S. Vert. vol. vii, 598.
Saxoniae, Roem. (RADIOLITES), Nord. Kreid. 35, 7, 1.
striata, Defr. (*sulcata*), Dict. Sc. Nat. 21, 196.
subdilatata, Gein. (RADIOLITES), Char. Kreid. pl. 19, f. 11-12.
sulcata, Defr. D. Sc. Nat. 21, 196. Fr., G. C.
sulcata, Goldf. *not Defr.* (*organisans*), P. G. 302, 165, f. C. D. (*exclus. A. B.*)
sulcata, Goldf. *pars.* (CAPROTINA *costata*), 302, 165, f. A.
sublaevis, Math. (*Requieniana*), Cat. pl. 10, f. 1-2.
Syriacus (a), Con. Lynch's Exped. 226, 16, 84. Syria. C.
Texanus (a), Roem. Kreid. Tex. 76, 5, 1. Texas. C.
Toucasiana, d'Orb. P. F. 172, 532. Fr. C.
turgida, Rolland (*dilatata*), Rudist. 55, 4, 1.
vesiculosus (a), Woodw. Q. J. G. S. vol. xi, 59, 4, 6. Asiatic Turkey. ?

ICHTHYOSARCOLITHUS, Desm. 1817 (*Caprinella*,
d'Orb. 1847).

- coraloideus, H. & M. Sp. (*Caprinella*), Gabb, 1859, Cat. Cret.
18. Neb. C.
cornutus, Tuomey, 1855, Proc. Acad. 172. Ala. C.
Doublieri, d'Orb. Sp. (*Caprinella*), Gabb, 1861. Fr. N.
loricatus, Tuomey, 1855, Proc. Acad. 172. Ala. C.
quadrangularis, T. id. 172. Ala. C.
triangularis, Desm. 1817, Jour. de Phys. p. 9. Fr. U. G.

Jodamia, Defr. 1822.

- bilinguis*, Defr. (*RADIOLITES Hoeninghausii*), D. Sc. Nat. 24,
230.

Monopleura, Math. 1842.

- virostrata*, Math. (*CAPROTINA trilobata*), Cat. 107, 3, 9-10.
cingulata, Math. (*C. varians*), Cat. 107, 3, 8.
depressa, Math. (*CAPROTINA*), Cat. 110, 4, 5.
imbricata, Math. (*CAPROTINA*), id. 110, 4, 2.
subtriquetra, Roem. (*CAPROTINA*), Kreid. Tex. 81, 5, 5.
sulcata, Math. (*CAPROTINA*), Cat. 109, 3, 14-15.
Texana, Roem. (*C. Roemeri*), Kreid. Tex. 81, 5, 3.
Urgonensis, Math. (*C. trilobata*), Cat. 108, 3, 11-13.
variens, Math. (*CAPROTINA*), Cat. 106, 3, 1-7.

Plagioptychus, Math. 1842.

- paradoxus*, Math. (*CAPRINA Aguilloni*), Cat. 116, pl. 5.
Toucasianus, Math. (*C. Coquandiana*), id. 117, 6.

RADIOLITES, Lam. 1801.

- acuta*, d'Orb. An. Sc. Nat. 1842, p. 188. Fr. C.
acuticostata, d'Orb. id. 185. Fr., G. C.
agariciformis, Delam. Sp. (*Sphaerulites*), d'Orb. P. F. 200,
544, 545. Fr., G. U. G.
Aimesii, Tuomey, 1855, Proc. Acad. 172. Ala. C.

<i>alata</i> , d'Orb. P. F. pl. 569. Fr.	<i>C.</i>
<i>angeioides</i> , Lam. An. S. Vert. vol. vii, 130. Fr., Port.	<i>C.</i>
<i>angulosa</i> , d'Orb. An. S. Nat. 1842, 183. Fr.	<i>C.</i>
<i>Austinensis</i> , Roem. Kreid. Tex. 77, 6, 1. Tex., Ala., Miss.	<i>C.</i>
<i>Bourmonii</i> , Desmoul. Sp. (<i>Sphaerulites</i>), d'Orb. An. Sc. Nat. 188. Fr.	<i>C.</i>
<i>calceoloides</i> , Desm. Sp. (<i>Sphaerulites</i>), d'Orb. Prod. 260. Fr.	<i>C.</i>
<i>crateriformis</i> , Desm. Sp. " d'Orb. An. Sc. Nat. 188. Fr.	<i>C.</i>
<i>cylindracea</i> , Desm. Sp. " d'Ord. Prod. 260. Fr., Port.	<i>C.</i>
<i>Desmoulinsiana</i> , Math. Cat. pl. 8. Fr.	<i>C.</i>
<i>dilatata</i> , Desm. Sp. (S.), d'Orb. P. F. 225, 568. Fr.	<i>C.</i>
<i>elliptica</i> , Gein. Sp. (<i>Hippurites</i>), d'Orb. Prod. 200. G.	<i>C.</i>
<i>excavata</i> , d'Orb. P. F. 215, 556. Fr.	<i>C.</i>
<i>Fleuriausiana</i> , d'Orb. An. Sc. Nat. 182. Fr.	<i>U. G.</i>
<i>foliacea</i> , Desm. (<i>agariciformis</i>), d'Orb. An. Sc. Nat. 182.	
<i>Gallo-provincialis</i> , Math. (<i>angeioides</i>), Cat. pl. 7, f. 3.	
<i>Germani</i> , Gein. Sp. (<i>Hippurites</i>), d'Orb. Prod. 200. G.	<i>C.</i>
<i>Hoeninghausii</i> , Desm. Sp. (<i>Sph.</i>), d'Orb. An. Sc. Nat. 188. Fr.	<i>C.</i>
<i>horrida</i> , d'Orb. (<i>acuticostata</i>), An. Sc. Nat. 186.	
<i>ingens</i> , Desm. Sp. (<i>Sphaerulites</i>), d'Orb. Prod. 260. Fr.	<i>C.</i>
<i>irregularis</i> , d'Orb. P. F. 221, 562, 5-7. Fr.	<i>C.</i>
<i>Jouannetii</i> , Desm. Sp. (<i>Sph.</i>), d'Orb. P. F. 223, 564. Fr.	<i>C.</i>
<i>Lamarckii</i> , Math. (<i>ageioides</i>), Cat. pl. 7, f. 4-5.	
<i>lamellosa</i> , d'Orb. (<i>Fleuriausiana</i>), An. Sc. Nat. 182.	
<i>lamellosus</i> (a), Tuomey, 1855, Proc. Acad. 171. Ala.	<i>C.</i>
<i>Lapeyrousii</i> , Goldf. Sp. (<i>Hippurites</i>), d'Orb. Prod. 260. G., Fr.	<i>C.</i>
<i>lombricalis</i> , d'Orb. An. Sc. Nat. 183. Fr.	<i>C.</i>
<i>mammillaris</i> , Math. Cat. pl. 7, f. 6-7. Fr., G.	<i>C.</i>
<i>Mantelli</i> , Woodw. Q. J. G. S. vol. xi, 60, 5, 4. Fr.	<i>U. G.</i>
<i>Marticensis</i> , d'Orb. P. F. 199, 543, 4-5. Fr., Port.	<i>N.</i>
<i>Martiniana</i> , d'Orb. An. Sc. Nat. 183. Fr.	<i>C.</i>
<i>Mortoni</i> , Mant. Sp. (<i>Hippurites</i>), Woodw. Q. J. G. S. vol. xi, 59, 5, 1-2. E.	<i>C.</i>
<i>Neocomensis</i> , d'Orb. An. Sc. Nat. 180. Fr.	<i>N.</i>
<i>Ormondii</i> , Tuomey, 1855, Proc. Acad. 171. Ala.	<i>C.</i>
<i>Pailleteana</i> , d'Orb. An. Sc. Nat. 184. Fr.	<i>C.</i>
<i>polyconilites</i> , d'Orb. id. 182. Fr.	<i>U. G.</i>
<i>Ponsiana</i> , d'Arc. Sp. (<i>Sph.</i>), d'Orb. id. 183. Fr., Port.	<i>C.</i>

- radiosa*, d'Orb. id. 183. Fr. C.
rotularis, Lam. (angeioides), An. S. Vert. vol. vii, 130.
Royana, d'Orb. P. F. 228, 571, 1-3. Fr. C.
Sauvagesii, d'Homb. Firm. Sp. (*Sphaerulites*), d'Orb. P. F. 211, 553. Fr., Port. C.
Saxoniae Roem. Sp. (*Hippurites*), d'Orb. Prod. 174. G. U. G.
sinuata, d'Orb. P. F. 227, 570. Fr. C.
socialis, d'Orb. P. F. 213, 555, 1-3. Fr. C.
squamosa, d'Orb. An. Sc. Nat. 186. Fr. C.
subdilatata, Gein. Sp. (*Hippurites*), d'Orb. Prod. 200. G. C.
Toucasiana, d'Orb. P. F. 216, 557. Fr. C.
triangularis, d'Orb. An. Sc. Nat. 181. Fr. U. G.
Tuomeyana, Gabb, 1861 (*undulata*, Tuomey, *not d'Orb.*). Ala. C.
turbinata, Lam. (angeioides), An. S. Vert. vol. vii, 233.
undulata, Gein. Sp. (*Sph.*), d'Orb. Prod. 200. G. C.
undulata, Tuomey (Tuomeyana), 1855, Proc. Acad. 172.
Ventricosa, d'Orb. (angeioides), An. Sc. Nat. 184.

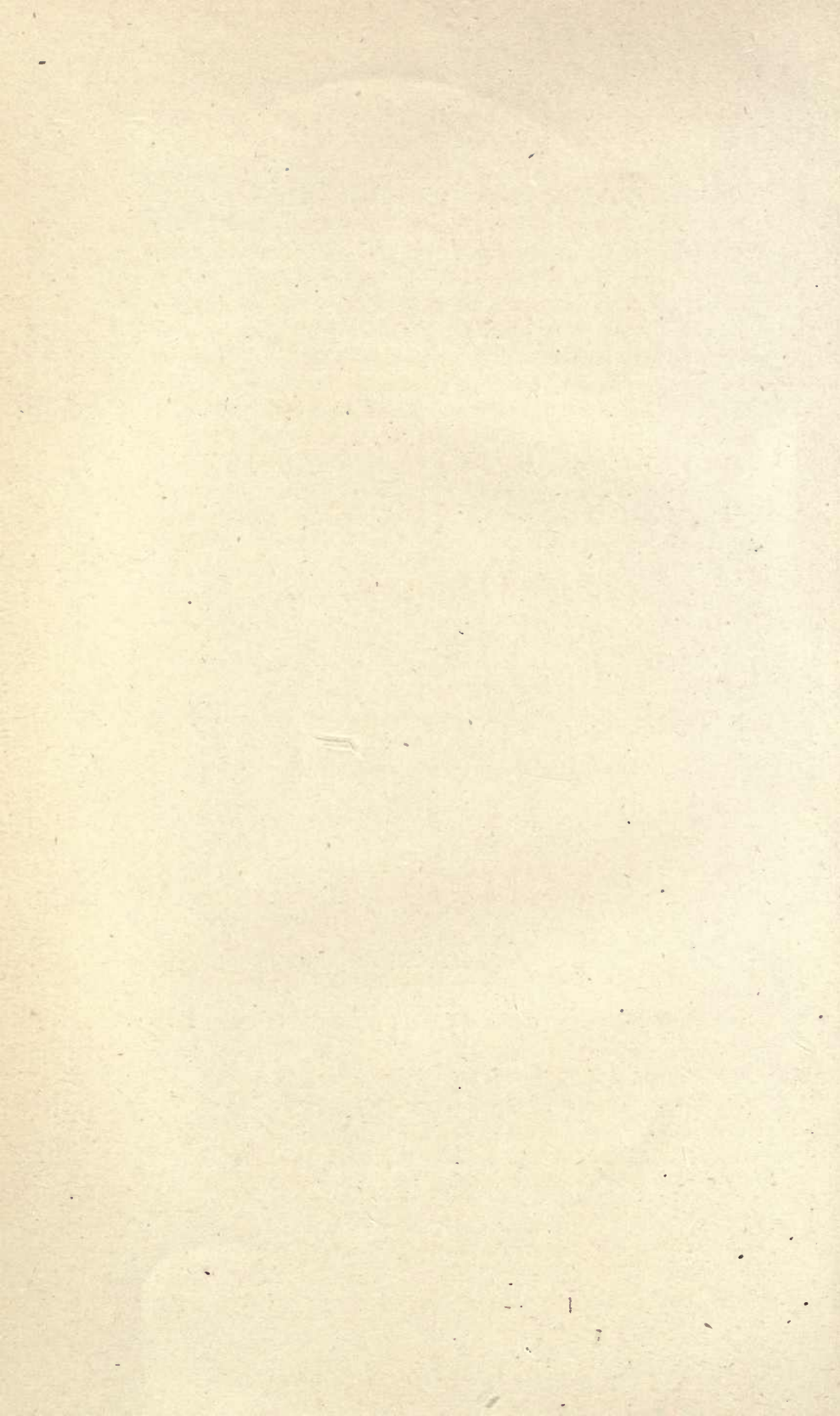
Requienia, Math. 1842 (CAPROTINA, d'Orb. 1839).*

- carinata*, Math. *not C. carinata*, d'Orb. (C. Lonsdalei), Cat. 104, 2, 1-2.
gryphaeoides, Math. (CAPROTINA), Cat. 104, 2, 6-7.
ornata, d'Orb. (CAPROTINA), P. F. 257, 584, 2-4.
Sensenii, Con. Sp. (CAPROTINA), Jour. Acad. 2d s. vol. ii, 229, 27, 8.

Sphaerulites, Delam. 1805 (RADIOLITES, Lam. 1801).

- agariciformis*, Del. (RAD.), Jour. de Phys. t. lxi, 396, 57, 12.
Bournonii, Desm. (R. dilatata), Essai sur Sphaer. p. 124.
bioculata, Desm. *not Hippurites*, id. Lam. (H. cornu-vaccinum). Essai sur les Sphaer. p. 115, pl. 5.
calceoloides, Desm. (RAD.), id. 130, 9, 1.
crateriformis, Desm. (RAD.), id. 94, 1-2.
cylindracea, Desm. (RAD.), id. pl. 4, f. 1-3.

* In Pal. Fr., all the species of this genus, except *ornata*, are quoted on the plate as CAPROTINA, and in the text as REQUIENIA. For that reason, under CAPROTINA, I have only quoted the plate as reference. I shall, therefore, omit those species here.



- dilatata*, Desm. (RAD.), id. 128, pl. 8.
foliacea, Lam. (R. agariciformis), An. S. Vert. vol. vi, 232.
Hoeninghausii, Desm. (RAD.), Sphaer. 118, 6, 2.
ingens, Desm. (RAD.), id. 122.
Jouanneti, Desm. (RAD.), id. pl. 3.
navis, Rolland. (CAPROTINA), d'Orb. P. F. 225, 587, 588.
Ponsiana, d'Arc. (RAD.), M. G. S. F. 1835, pl. 11, f. 6.
rotularis, Lam. (R. angeioides), Desm. Essai, Sph.
Sauvagesii, d'Homb. Firm. (RAD.), Mem. 1837, 193, 2.
turbinata, Lam. Sp. (R. angeioides), Desm. Essai, Sph.
undulata, Gein. (RAD.), Char. Kreid. 87, 19, 6-10.
ventricosa, Lam. Sp. (RAD.), Desm. Sphaer.

BRACHIOPODA.

Anomia, Colonna, 1616* (TEREBRATULA).

- biplicata*, Brocchi (TEREBRATULA), Conch. Foss. 469.
vespertilio, Broch. (RHYNCHONELLA), see P. F. p. 44.

Anomites, Wahl. (TEREBRATULA).

- craniolaris-Egnabergensis*, W. (CRANIA Egnabergensis), Soc.
 Upsal. vol. viii, 1821, p. 60.
striatus, Wahl. (TEREBRATULINA), id. vol. viii, p. 6.
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<i>Meyeri</i> , Dunker. Palaeont. No. 1, 113, 18, 9. G.	C.
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* An English author (Davidson, I think) says this species belongs to the Kimmeridge clay, and not to the Lower Greensand, as generally quoted.

- Rauliniana*, d'Orb. (truncata), P. F. 10, 490.
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- pumilus, Sow. M. Con. 119. E., Fr., G., Russia. C.

Megathiris, d'Orb. 1847 (ARGIOPE, Desl. 1842).

- cuneiformis*, d'Orb. (A. Bronni), P. F. 147, 521, 1-11.
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- Brattemburgensis*, Stob. (CRANIA), Dissert. Epist. d'Orb.
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ORBICULOIDEA, d'Orb. 1847.

- subradiata, d'Orb. Prod. 120. Fr. L. G.

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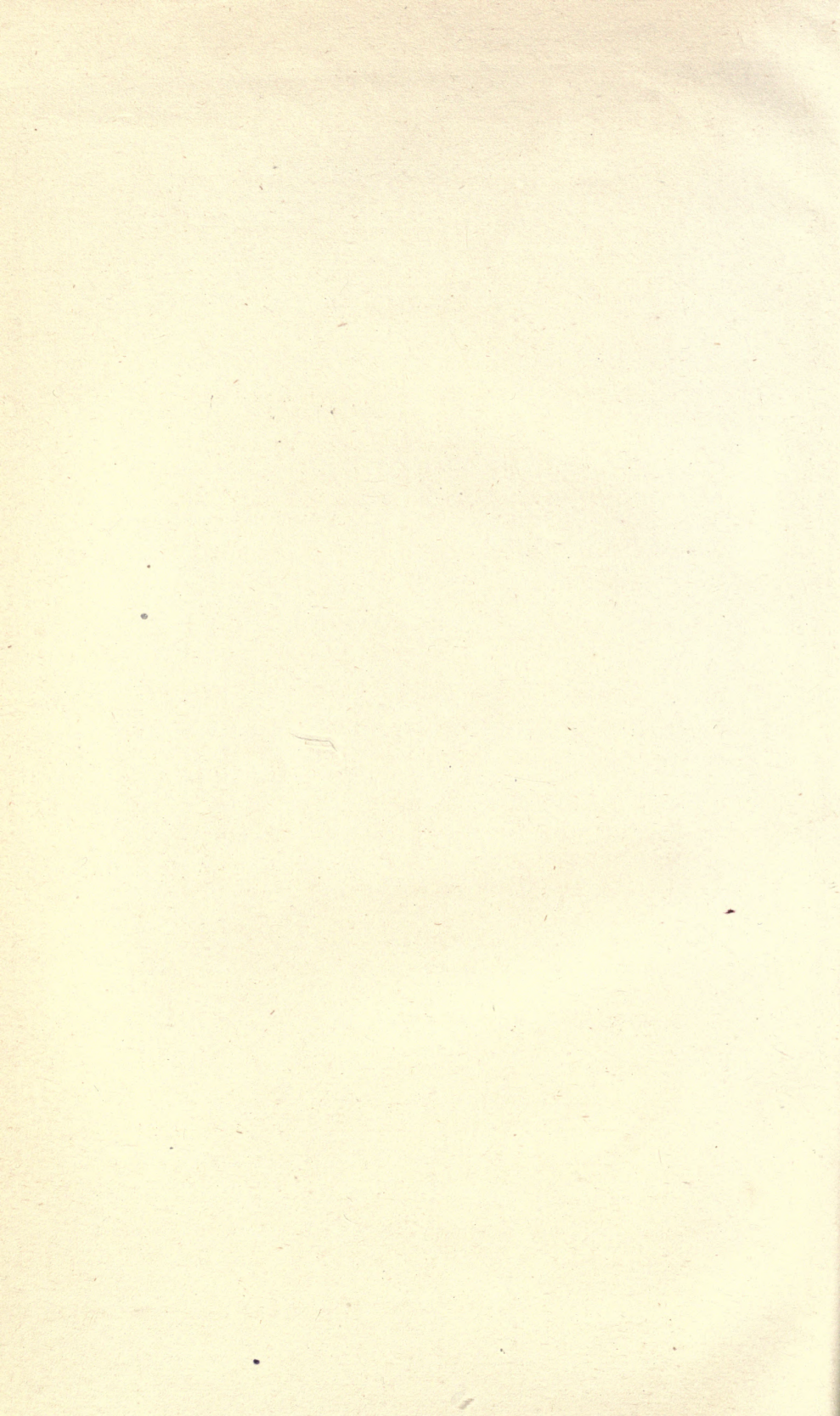
- Bronni*, Hagen. (ARGIOPE), N. Jahrb. fur Min. 1842, pl. 9,
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RHYNCHONELLA, Fisch. 1825.*

- Agassizii*, d'Orb. P. F. 17, 494, 1-4. Fr. N.
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Baugasii, d'Orb. P. F. 43, 498, 10-13. Fr. C.
Berthelotii, d'Orb. P. F. p. 39. Fr. U. G.
Clementina, d'Orb. P. F. 28, 495, 8-12. Fr. G.

* It is remarkable that not a single *Rhynchonella* has ever yet been reported from the American Cretaceous; nor am I acquainted with an American Tertiary species.

- compressa, Lam. Sp. (*Terebratula*), d'Orb. P. F. 35, 497,
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* I have not seen this species noticed by later authors.

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- auriculata, Roem. Sp. (*Terebratula*), d'Orb. Prod. 172. Fr.,
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- Arduennensis, d'Orb. P. F. 128, 519, 6-10. G., Fr. N.
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THECIDEA, Deifr. 1828.

- digitata, Sow. Sp. Goldf. 290, 161, 6. G. U. G.
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 hieroglyphica, Deifr. in Goldf. P. G. 290, 161, 5. G. C.

* See "Synopsis of American Cretaceous Brachiopoda," in the Proceedings of the Academy of Natural Sciences, January, 1861. I have since ascertained that the form from New Jersey, although labelled *lachryma* by Dr. Morton, is specifically distinct from his types from South Carolina, which are Eocene, and that the New Jersey species is as yet undescribed. The fact that the New Jersey specimens were labelled by Dr. Morton, misled me.



- hippocrepis*, Goldf. P. Germ. 281, 161, 4. G. C.
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- Celtica*, Morris, Cat. Brach. Brit. Mus. 1853, p. 62. E., Fr., G. L. G.
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