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— 8 —

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## ADVERTISEMENT.

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This work is the eighth of a series of papers intended to illustrate the collections of natural history and ethnology belonging to the United States and constituting the National Museum, of which the Smithsonian Institution was placed in charge by the act of Congress of August 10, 1846.

It has been prepared at the request of the Institution, and printed by authority of the honorable Secretary of the Interior.

JOSEPH HENRY,

*Secretary of the Smithsonian Institution.*

SMITHSONIAN INSTITUTION,

*Washington, May, 1877.*

# INDEX

TO THE

NAMES WHICH HAVE BEEN APPLIED TO THE SUBDIVISIONS

OF THE

## CLASS BRACHIOPODA

EXCLUDING THE RUDISTES

PREVIOUS TO THE YEAR 1877.

BY

W. H. DALL,

U. S. COAST SURVEY.



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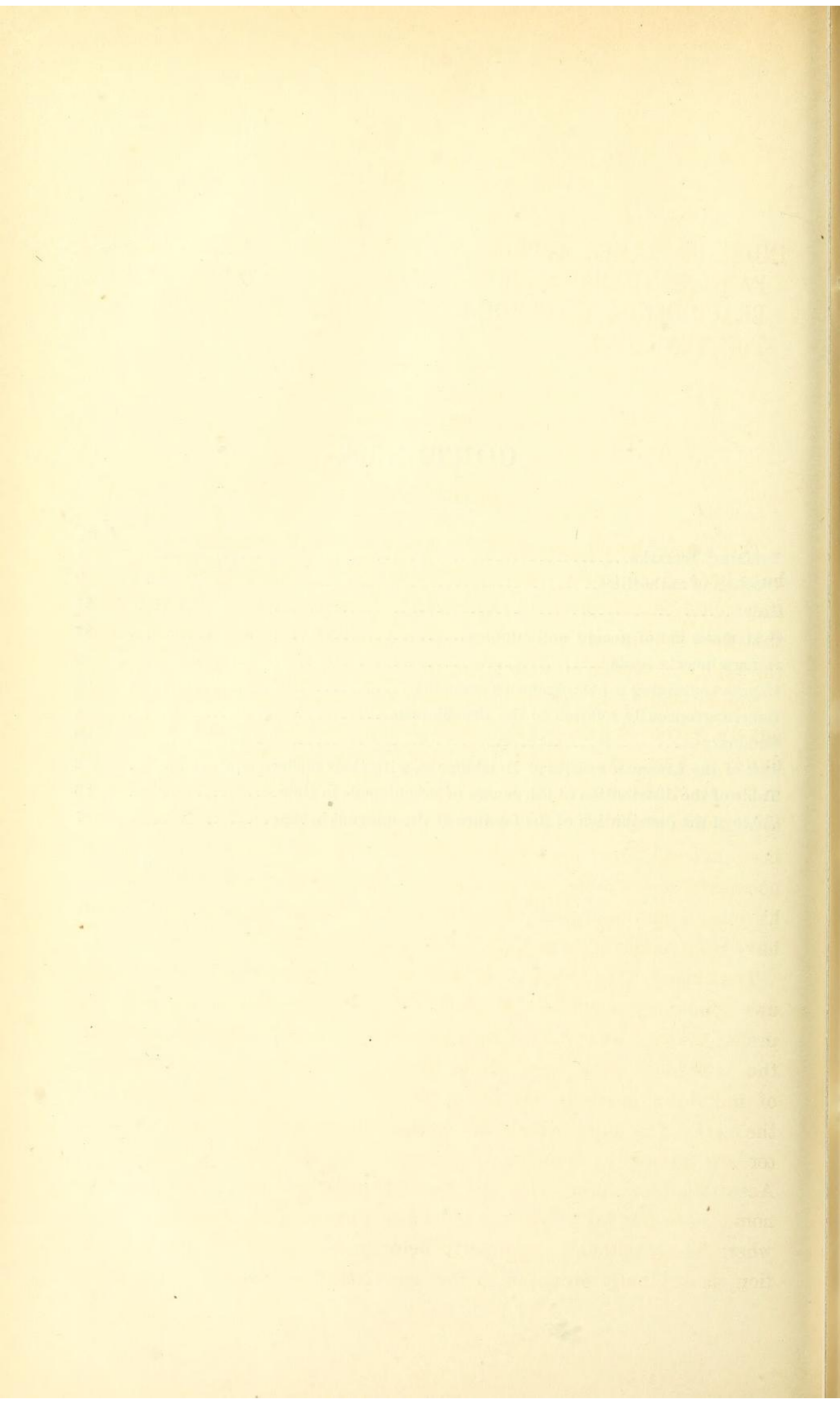
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INDEX OF NAMES APPLIED TO THE CLASS, ORDERS, TRIBES,  
FAMILIES, GENERA, SUB-GENERA, AND SECTIONS OF THE  
BRACHIOPODA (EXCLUDING THE RUDISTES) PREVIOUS TO  
THE YEAR 1877.

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BY W. H. DALL,  
*United States Coast Survey.*

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INTRODUCTION.

The names herein enumerated comprise all the appellations which have been given to the various divisions of the *Brachiopoda* as far as they could be collected from the works accessible to me. It is believed that the list is nearly complete so far as relates to names applied under the Linnæan system of nomenclature.

Non-binomial and pre-Linnæan names which have been quoted in synonymy, errors of pen or types, and groups of similar appellation, but differing in scope, have all been included so far as they are to be found in the standard works on the subject. The number of names due to typographical errors could have been largely increased had reference been made to minor papers and publications, but this was not thought necessary or desirable. Since some, and in fact most, of those indexed have been quoted or printed in standard works on the subject, it would have been inadvisable to have omitted them entirely.

The object of the index is rather to enable students to construct their own synonymy, according to such rules of nomenclature as they may prefer, than to attempt a wholesale revision here. On this account, the references have been freed, whenever possible, from expressions of individual opinion, and are intended to convey an exact idea of the facts. The notes which follow the references as explanatory matter are framed in accordance with the original rules of the British Association, excepting that the date of the proposition of the Linnæan nomenclature is taken as from the tenth edition of the *Systema Naturæ*, where (in my opinion) it properly belongs, instead of the twelfth edition, as originally proposed by the association committee. This differ-

ence would affect but one or two unimportant names among those in the index, and would seem to be a necessary concession to a simple matter of fact.

The absolute synonymes resulting from the foundation of different genera on the same species, and some which are generally admitted by the majority of authors, have been indicated whenever known. In some cases, the compiler has exercised his own judgment in inserting a reference to synonymy. In every case, however, the student is requested to refer to the citations of the index, upon which the compiler's indications of synonymy are based, and from them to form his own conclusions.

It has been attempted to give in full the *locus*, date, and reference to figures (if any) appertaining to each original generic or other description; with a reference to the original description of the typical species, when this is not coincident with the generic or sectional diagnosis, to indicate whether a diagnosis authenticated the introduction of a new name or not (silence on this point in the citation indicating that a proper diagnosis was made); to name and give citations for the type, if any was selected, or to state the first species if no type was named, and the types which have been adopted by subsequent students of the genus; and to give a reference to the best figure of the typical species known to the compiler.

This has been done whenever practicable, and a reference to the geological horizon of the type-species of a genus, with any notes which might tend to elucidate its standing, have frequently been added.

Nearly all the works referred to have actually been consulted. The only important exceptions are those of Fischer de Waldheim, König and one of Pander's minor papers. For an opportunity of consulting Pander's *Beiträge* I am indebted to the kindness of Prof. Alexander Agassiz, director of the Museum of Comparative Zoölogy at Cambridge.

When a publication was inaccessible, the fact is stated in the citation, which has then been derived from the works of Davidson, Bronn, Herrmannsen, and other standard authorities. To the first-named gentleman and Prof. R. P. Whitfield, of Albany, I am under great obligations for numerous favors received during the preparation of this index, for the views expressed in which, however, I hold myself solely responsible.

The classification of generic names which follows the index is for the purpose of assisting the student to find at one reference all the binomial names which appear to belong to any one family. Some pre-Linnæan



names which have been widely quoted are also included. It must be kept in mind, however, that this classification is purely tentative, and that, with the exception of absolute synonymes, the discovery of the character of an interior, or the more complete elucidation of the characters of an obscure genus, may at any time give it a standing to which it is not at present entitled. For this reason, it is certain that no classification of so large a group of fossil forms as the *Brachiopoda* comprise can be anything more than tentative for many years to come.

The dates are in all cases intended to represent those of actual publication, a matter not always easy to determine. In some difficult cases, where the date of presentation of a MSS. appears on the title-page without any reference to the actual date of publication, the former is used as a numerator, and the earliest date for publication to which the paper is known to be entitled as a denominator, of a fraction in the date column.

It will not be a matter of surprise that, in giving references for good figures, the magnificent works of Mr. Davidson have almost constantly been drawn upon. Students are to be congratulated that these are among the most accessible works on the subject.

Since *Calceola* has for so long a period been referred to as a Brachiopod, or included with them, it has been decided to include its very copious synonymy, though it is now known, through the researches of Dr. Lindström, to belong to the *Coelenterata*.

A bibliography was originally contemplated in connection with the index, but it was soon found that, to make it complete, more time and space would be required than could conveniently be devoted to it.

It is hoped that few important mistakes exist in the list, though the character of the references is such as to render the work particularly liable to typographical errors. Not a few such errors which appear in earlier works of the kind have been corrected, and the indulgence of the reader is requested for any new ones which may unfortunately have crept in.

References have usually been made in a sufficiently full manner to be readily identified; a few exceptions are, therefore, noted.

Dav. 1853; to A general Introduction to the Classification of the Brachiopoda, by Thos. Davidson, F. G. S. &c. being British Fossil Brachiopoda, vol. i, art. iii, Paleontographical Society, London, 1853, 4to.

The references to the subsequent series of Monographs are made by the geological horizon; as, "Mon. Silurian Brach. p." &c.

Dav. 1856; to Introduction à l'Histoire Naturelle des Brachiopodes Vivants et Fossiles, par Thos. Davidson, Esq. traduit de l'Anglais par MM. Deslongchamps: in Mémoires de la Société Linnéenne de Normandie, x, pp. 69-271, Caen, 1856, 4to.

Dalm. Ter.; *to* Uppställning och Beskrifning af de i Sverige funne Terebratuliter; af J. W. Dalman; *in* Kongl. Vet. Acad. Handlingar för år 1827, pp. 85-180; t. i-vi, Stockholm, 1828, 8vo.

Chenu, Man.; *to* Manuel de Conchyliologie et de Paléontologie Conchyliologique, par le Dr. J. C. Chenu, t. ii, Paris, 1862, gr. 8vo.

Woodw. Man.; *to* A Manual of the Mollusca, or, a Rudimentary Treatise of Recent and Fossil Shells, by S. P. Woodward, &c. London, 1851-56, 12mo.

Paetel, Fam. u. Gatt. Moll.; *to* Die bisher veröffentlichten Familien- und Gattungsnamen der Mollusken, zus. von Fr. Paetel, Berlin, 1875, 8vo.

A work containing more and worse typographical and other errors than any other book, of a scientific tendency, known to me.

Regent's Rep.; *to the* (—) Annual Report of the Regents of the University, on the condition of the State Cabinet of Natural History, and the Historical and Antiquarian Collection annexed thereto. Made to the senate (—). Albany (New York), &c. 8vo. (Blue books.)

Of the series, Nos. III, IV, and VII to XXVII all contain, in the form of appendices, matter relating to the geology, mineralogy, paleontology, botany, general natural history, ethnology, or philology of America, chiefly that division of each subject relating to the State of New York. In each of these departments, some of the papers are of permanent value and importance, which need not be specified in relation to the long series of paleontological notices by Prof. James Hall and others. The third report appeared in 1850, and they have continued, at rather irregular intervals, to be issued for each year up to that for the year 1875, which is believed to be partly printed, (January, 1877). The title in each begins with the serial number of the report and ends with the date of presentation to the State legislature. The date at the bottom of the title-page is usually that of the year of presentation; but in this and in the verbal construction of the title the reports are not uniform. In the earlier ones, there is very rarely any date referring to the actual time of publication, which latter might differ from that on the title-page by a year or more. The appendices in which the scientific papers are comprised, should it be required, are subject to revision up to the time of publication. The latter date, in the case of those cited, has been obtained from trustworthy contemporaneous authority in all cases, and is believed to be essentially correct; but a reference to American paleontological literature will show several instances of the difficulties with which this unfortunate want of exactitude in the matter of dates has beset the path of the contemporary student.

NOTE.—The table of geological distribution rests in part on a similar table published by Mr. Davidson in the *Annales de la Soc. Malac. de Belgique*, t. x, 1875, though numerous changes and additions have been introduced and a different form of presentation preferred.

Names contained in bare lists and catalogues without definitions it has not been attempted to enumerate, except when the publication was of the nature of a nomenclator.

Etymologies have, for the most part, been intentionally ignored.

# INDEX.

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- Abrachiopoda**, Herrmannsen. **1852.**  
 Ind. Gen. Mal. Suppl. p. 1. (= *Abrachiopodes*, D'Orb.)
- Abrachiopodes**, D'Orbigny. **1847.**  
 Comptes Rendus, xxv, p. 269. Division of Brach. cont. *Thecidæ*, *Caprinidæ*, *Radiolidæ*.
- Acambona**, White. *Spiriferidæ*. **1862.**  
 Proc. Boston Soc. Nat. Hist. April, 1862, p. 27, f. 1-2. (Carb.) Type *A. prima*, White, l. c. (Cf. *Eumetria*, Hall.)
- Acanthothiris**, D'Orbigny. *Rhynchonellidæ*. **1850.**  
 Ann. Sci. Nat. xiii, p. 323, and Pal. Franç. Terr. Cret. iv, p. 343. Type *Rhynchonella spinosa* (Schloth. sp. Verst. 1813). Dav. Mon. Oölit. Brach. p. 71, pl. xv, f. 15-20. (Oölitic.)
- Acanthothyris**, Paetel. *Rhynchonellidæ*. **1875.**  
 Fam. u. Gatt. Moll. p. 1. (= *Acanthothiris*, D'Orb. corrig.)
- Acarde**, Latreille. *Rudistes*. **1825.**  
 Fam. Nat. Règne An.\* Gen. Rudistarum, male ad Brach. ref. (*Acardia*, Berth. *Radiolites*, Lam.).
- Acardia**, Berth. *Rudistes*. **1827.**  
 Germ. Ed. Latreille Fam. Nat. p. 197. (Cf. *Acarde*, Latr.)
- Acardines**, Herrmannsen. *Coelenterata*. **1846.**  
 Ind. Gen. Mal. i, p. 3. (Cf. *Les Acardes*, Desm.)
- Acephalophora palliobranchia**, Blainville. **1814.**  
 Prodr. Bull. Soc. Philom. p. 179. Order *Acephal.* cont. *Lingula*, *Terebratula*, *Orbicula*, *Hyalea*?, *Pneumodermon*?
- Acrites**, Davidson & King. *Obolidæ*. **1874.**  
 Quart. Journ. Geol. Soc. Lond. May, 1874, p. 137, lapsus, = *Acritis*, Volborth, from ακριτος. (Scr. *Acritus*.)
- Acritis**, Volborth. *Obolidæ*. **1869.**  
 Verh. K. Min. Ges. St. Petersburg für 1868, p. 217, t. xvii, f. 7-9. (Sil.) Type *A. antiquissima*, Volb. l. c. = *Obolus ant.*, Eichwald, Urwelt, 1843, ii, p. 142, t. iv, f. 1 a-c. Id. Leth. Ross. 1859, p. 928, t. xxxvii, f. 5 a-d, = *Aulonotreta sculpta*, Kutorga, Verh. l. c. 1847, p. 282, t. vii, f. 11. Quenstedt, Petr. Deutschl. 1871, p. 671, (= *Aulonotreta*, K.).

This name, founded on Kutorga's second type of *Aulonotreta*, should give way to that name. It appears very closely related to Hall's *Leptobolus*, 1871.

- Acrotreta**, Kutorga. *Siphonotretæ*. 1848.  
Verh. K. Min. Ges. St. Petersb. für 1847, p. 260, 275, t. vii, f. 7 a-c.  
First sp. *A. subconica*, Kut. l. c. (Sil.). Taken as type by Davidson, 1856,  
p. 241, pl. xiv, f. 19-23.
- Actinoconchus**, M'Coy. *Spiriferidæ*. 1844.  
Carb. Foss. of Ireland, p. 149. Sole ex. cited, p. 150, pl. 21, f. 6, *A.*  
*paradoxus*, M'Coy, l. c. Woodward, Man. p. 224, f. 134. (= *Athyris*,  
M'Coy; Davidson, 1856, not of 1853.)
- Adhærentia**, Reeve. *Brachiopoda*. 1841.  
Conch. Syst. i, p. 174. Tribe Brach. cont. *Orbicula*, *Crania*, *Thecidea*.  
(Not *Adhærentia*, De Haan, 1825.)
- Ænigma**, Koch. *Conchifera*. 1845.  
Mart. Chemn. Conchyl. Cab. b, Lief 56, Bd. vii. (Recent.) Type *Tellina*  
*enigmatica*, Chemn. l. c. Genus acephal. male ref. Pfeiffer, Zeitschrift  
für Mal. 1846, p. 175; ad Brach.
- Æquivalves**, Latreille. *Lyopomata*. 1825.  
Fam. Nat. Règne An. Fam. Brach. cont. *Lingula*. (= *Æquivalvia*,  
Berth.)
- Æquivalvia**, Berth. *Lyopomata*. 1827.  
Latreille, Fam. Nat. Germ. Ed. p. 208. Fam. prima, ordine Pedun-  
culato, cont. *Lingula*. (Cf. *Æquivalves*.)
- Agulhasia**, King. *Terebratulidæ*. 1871.  
Ann. Mag. Nat. Hist. ser. iv, t. vii, Feb. p. 109, pl. xi, f. 1-8. (Re-  
cent.) Type *A. Davidsonii*, King, l. c. p. 111. (= *Terebratulina*, D'Orb.)
- Amblotrema**, Rafinesque. (*Incertæ sedis*). 1831.  
Mon. Biv. Shells Ohio, p. 8. No ex. cited; diagnosis insufficient.
- Amblytrema**, Agassiz. 1847.  
Nom. Zool. Index, p. 45. (= *Amblotrema*, Raf. corrig.)
- Ambocoelia**, Hall. *Spiriferidæ*. 1860.  
13th Regent's Rep. p. 71. Type *Orthis umbonata*, Conr. Journ. Acad.  
Nat. Sci. Phil. viii, p. 264, t. xiv, f. 4, 1842. Hall, l. c. f. 1-6. (= *Mar-*  
*tinia*, M'Coy.)
- Ambocoilia**, Quenstedt. 1871.  
Petref. Deutschlands, ii, p. 714; lapsus. (= *Ambocoelia*, Hall.)
- Amphiclina**, Laube. *Strophomenidæ*. 1865.  
Fauna Schicht. St. Cassians, 2te Abth. p. 28, pl. xiii, f. 9 a-d. Type  
*Producta dubia*, Munster sp. (Beitr. iv, p. 68, t. vi, f. 24), l. c.
- Amphigenia**, Hall. *Pentameridæ*. 1867.  
Not. Pal. N. York, vol. iv, p. 163. (Mar.) Pal. N. York, iv, p. 374, 383,  
pl. 59. Type *Pentamerus elongatus*, Vanuxem, (Rep. 3d Distr. N. York,  
p. 132, 1842); Hall, l. c. (Devonian.)
- Anastrophia**, Hall. *Pentameridæ*. 1867.  
Not. Pal. N. York, vol. iv, p. 163. Extra copies, Mar. 1867, p. 19. Pal.  
N. York, vol. iv, p. 374. Type *Pentamerus Verneuli*, Hall, l. c. Name  
proposed for *Brachymerus*, Shaler (*q. v.*), preoccupied by Dej. in *Co'leop-*  
*tera*, 1834.

- Ancistrocrania**, Dall. *Craniidæ*. 1877.  
Proposed for *Cranopsis*, Dall; preoccupied by A. Adams in *Gasteropoda*, 1860.
- Ancylobrachia**, Gray. *Arthropomata*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 435. Ord. Brach. cont. fam. *Terebratulidæ*.
- Ancylobrachia**, King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Ord. Brach. cont. fam. *Strigoecephalidæ*, *Terebratulidæ*, *Rhynchoridæ*, *Magasidæ*, *Thecidæidæ*, *Argiopidæ*.
- Ancylobranchia**, Paetel. *Arthropomata*. 1875.  
Fam. u. Gatt. Moll. p. 12; lapsus (= *Ancylobrachia*, Gray.)
- Ancylopoda**, Gray. *Brachiopoda*. 1848.  
Subclass Brach. Ann. Mag. Nat. Hist. ii, p. 435, cont. ord. *Ancylobrachia*, *Cryptobrachia*.
- Ancylopoda** King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Subclass Brach. cont. *Ancylobrachia*.
- Annelida**, Morse. *Invertebrata*. 1870.  
Am. Journ. Sci. and Arts, vol. 1, p. 100, July. Class cont. (among other things) *Brachiopoda*.
- Anomia**, Linné. *Mollusca*. 1758.  
Syst. Nat. ed. x, p. 701. First sp. *A. craniolaris*, Lin.  
Syst. Nat. ed. xii, p. 1150, 1766. First sp. *A. craniolaris*, Lin.  
Genus including *Brachiopoda* and *Acephala*, sp.
- Anomites**, Auctt. *Invertebrata*. 1766.  
Gen. biv. fos. *Anomiæ* Lin. resp. auctt. xviii<sup>ma</sup> cent.
- Anomites**, Schlotheim. *Invertebrata*. 1822.  
Petref, p. 246. Gen. biv. fos. cont. *Craniolites*, *Hysterolites*, *Terebratulites*.
- Anoplotheca**, Sandberger. *Atrypidæ*. 1856.  
Sitzungsb. K. Akad. Wiss. Wien für 1855, pt. xvi, p. 5, xviii, p. 102-104. Pl. i, f. 1-6. Type *A. lamellosa*, Sandb. l. c. = *Ter. venusta*, Schnur; Meyer & Dunker, Paleont. iii, p. 180, pl. xxiv, f. 3. Davidson, 1856, p. 260, pl. xiv, f. 51-53.
- Anteletes**, D'Orbigny. *Arthropomata*. 1850.  
Pal. Franç. Terr. Cret. iv, p. 348, in syn. (= *Enteletes*.)
- Antinomia**, Catullo. *Terebratulidæ*. 1850.  
Quart. Journ. Geol. Soc. of London, vii, p. 74. Type *Terebratula diphya*, Col. sp., Davidson, 1856, pl. vi, f. 5. (= *Pygope*, Link.)
- Antirhynchonella**, Quenstedt. ? *Rhynchonellidæ*. 1871.  
Petref. Deutschl. ii, p. 231, 727. ? Subg. *Pentamerus*; first sp. *P. tenuistriatus*, Walmstedt sp., Eichwald, Leth. Ross. i, p. 789; second sp. *P. linguifer*, Murch. Sil. 21, 22.
- Apalosia**, Rafinesque. *Invertebrata*. 1815.  
Analyse de la Nature, p. 136. Class equivalent to the *Mollusca* of Cuvier. (= *Mollusca*.)

- Aplecerotis**, Pætel. (Incertæ sedis.) 1875.  
Fam. u. Gatt. Moll. p. 14; lapsus (= *Apleurotis*, Raf.).
- Apleurotis**, Rafinesque. (Incertæ sedis.) 1819.  
Journ. de Phys. lxxxviii, p. 427. No species described. First of two names cited, *A. pectenoides*, Raf. l. c. Fos. Ohio. Ibid. En. Rem. Obj. Cab. Raf. 1831, p. 3, *A. pectinoides*, Raf. is described. (*Brachiopoda*?)
- Aplosia**, Agassiz. 1847.  
Nom. Zool. Index, p. 84; lapsus (= *Apallosia*, Raf.)
- Apygia**, Bronn. *Brachiopoda.* 1862.  
Klass. u. Ordn. Thierreichs, iii, 1ste Abth. p. 301. Ord. cont. *Brach. articulata.* (= *Arthropomata.*)
- Arbusculites**, Murray. 1831.  
Edinburgh New Phil. Journ. xi, p. 148. Type *A. argentea*, Murr. l. c.  
A fictitious genus of Zoophytes founded, according to Bronn, on the tubular spines of a species of *Productus*.
- Arbusculithes**, Paetel. 1875.  
Fam. u. Gatt. Moll. p. 15. (= *Arbusculites* Murray.)
- Argiope**, Deslongchamps. *Terebratulidæ.* 1842.  
Mém. Soc. Lin. de Normandie, vii, p. 9. (Recent.) Type *Anomia decollata*, Chemnitz, Conchyl. Cab. viii, p. 96, pl. 78, f. 705. Dav. 1853, p. 72. Davidson, 1856, pl. vii, f. 35-38. Name preoccupied by Savigny and Audouin for a genus of *Arachnida*, 1827. (= *Megathyris*, D'Orb.)
- Argiopidæ**, King. *Arthropomata.* 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Argiope.*
- Argiopina**, Gray. *Arthropomata.* 1853.  
Brit. Mus. Cat. Brach. p. 15. Tribe Brach. cont. *Argiope.*
- Argyope**, Deslongchamps. *Terebratulidæ.* 1842.  
Mém. Soc. Lin. de Normandie, vii, p. 9. Vernacular equivalent for *Argiope*, Desl. q v. (= *Megathyris*, D'Orb.)
- Arthropomata**, Owen. *Brachiopoda.* 1858.  
Encyclop. Britannica, ed. viii, t. xv, art. Mollusca, p. 336. Ord. cont. *Brach. articulata.*
- Articulata**, Huxley. *Brachiopoda.* 1864.  
Lect. on Classification. Intr. Class. An. p. 116. Order cont. *Brachiopoda articulata.* (= *Arthropomata*, Ow.)
- Athyridæ**, Phillips. *Brachiopoda.* 1841.  
Pal. Foss. Cornwall and Devon. p. 54. Fam. Brach. cont. *Producta, Calceola.*
- Athyridoidæ**, Agassiz. *Brachiopoda.* 1847.  
Nom. Zool. Index, p. 115. (= *Athyridæ*, Phill. corrig.)

- Athyris, M'Coy.** *Spiriferidæ.* 1844.  
 Carb. Foss. Ireland, pp. 128, 146, f. 19. Erroneous diagn. No type specified. First sp. p. 147, is *Ter. concentrica*, von Buch, Chenu, Man. ii, p. 216, f. 1108-10. Davidson, 1856, pl. ix, f. 23, 29, 30. Etym. *a*, without; *thuris*, a door or deltidium (not doorway or foramen). Syn. *Seminula*, M'Coy, 1844; *Actinoconchus*, M'Coy, 1844; *Spirigera*, D'Orbigny, 1847; *Euthyris*, Quenst. 1871; *Athyris*, Davidson, 1856, not 1853.
- Athyris, Davidson.** *Spiriferidæ.* 1853.  
 Intr. p. 72, pl. vi, f. 71, 72. Type *Atrypa tumida*, Dalman, sp. Ter. p. 134, t. v, f. 3, 1828. Davidson, 1856, pl. ix, f. 33, 37. (= *Meristella*, Hall, not *Athyris*, M'Coy.) Cf. *Meristella*, Hall, 1862.
- Athyris, Davidson.** *Spiriferidæ.* 1856.  
 Intr. p. 166, pl. ix, f. 23, 29, 30. Type *A. concentrica*, von Buch, M'Coy. (= *Athyris*, M'Coy.)
- Atremosia, Rafinesque.** *Brachiopoda.* 1831.  
 Mon. Biv. Shells Ohio, p. 8. Fam. Brach. cont. gen. *Orbicula*, *Strophesia*, *Diclipites*, *Trunculites*, *Productus*, *Styriasis*, *Goniclis*, *Megarites*.
- Atretia, Jeffreys.** *Rhynchonellidæ.* 1876.  
 Proc. Roy. Soc. London, 1870, 121, p. 421, ¶ 36. Type *A. gnomon*, Jeffr. MS. No description of genus or species. Ann. Mag. Nat. Hist. Sept. 1876, p. 250. Genus and species fully described. Dav. Suppl. Brit. fos. Brach. 1874, p. 7, pl. i, f. 7-10. Syn. *Cryptopora*, Jeffr. (= *Dimerella*, Zittel, q. v.)
- Atrypa, Dalman.** *Atrypidæ.* 1828.  
 Kongl. Vet. Acad. Handl. 1827, p. 102. First sp. p. 127, t. iv, f. 2. *Anomites reticularis*, Wahlenberg, Act. Upsal. viii, p. 65. Davidson, 1856, pl. ix, f. 39-46. (Cf. *Spirigerina*, D'Orb.)
- Atrypa, M'Coy.** *Atrypidæ.* 1844.  
 Carb. Foss. Ireland, p. 150, f. 30. First sp. *Terebratula acuminata*, Sowerby, Min. Conch. t. 324, 1823. Dav. 1856, t. x, f. 19.
- Atrypidæ, Dall.** *Arthropomata.* 1877.  
 Fam. Brach. cont. *Atrypa*, *Anoplothea*, *Zygospira*, *Cælospira*, *Koninckina*, and probably *Davidsonia*.  
 Well distinguished from *Spiriferidæ* by the direction of the spires, which must have necessitated a wholly different arrangement of the internal organs. Indicated long since by D'Orbigny.
- Aulacorhynchus, Dittmar.** *Arthropomata.* 1871.  
 Verh. K. Min. Ges. St. Petersburg, 2te ser. vii, p. 1, t. 1, f. 1-13. (Carb.) Type *A. Pachtii*, Dittmar, l. c. pp. 2-4, &c.  
 A remarkable form of doubtful family relations, of which species have been referred to *Chonetes* and *Leptæna*.

- Aulonotreta**, Kutorga. *Obolidae*. 1848.  
Verh. K. Min. Ges. St. Petersburg f. 1847, pp. 260, 278. Types *A. polita*, Kutorga, l. c. t. vii, f. 10, = *Obolus apollinis*, Eichw.; and *A. sculpta*, Kutorga, l. c. p. 282, t. vii, f. 11, = *Obolus antiquissima*, Eichw. Urwelt, 1843, ii, p. 142, t. iv, f. 1 a-c. Ib. Leth. Ross. 1859, p. 928, t. xxxvii, f. 5 a-d. (Sil.)  
Genus proposed to replace *Obolus* (of which Kutorga's first sp. is the type) on the ground that the latter name is inapplicable. The second sp. of Kutorga has been separated by Volborth under the name of *Aeritis*, but, if distinct (which does not seem certain), should take Kutorga's name, as of prior date, instead of a new one.
- Aulosteges**, Helmersen. *Productidae*. 1847.  
Jahrb. für Min. p. 330; Bull. Acad. Imp. Sci. St. Petersburg, vi, p. 135, t. vi, f. 12. Type *A. variabilis*, Helmers. l. c. = *A. Wangenheimi*, Verneuil, teste Davidson, 1856, p. 222, pl. xii, f. 36-40.
- Bicornes**, Quenstedt. *Rhynchonellidae*. 1851.  
Handb. Petref. p. 449; Petref. Deutschl. 1871, ii, pp. 34, 715. (= *Rhynchonella*, sp.)
- Bilobites**, Linné. *Strophomenidae*. 1775.  
Syst. Nat. ed. Müller, vi, p. 325. *Anomia biloba*, Lin. Syst. Nat. ed. Gmel. p. 3345; Quenst. Petref. Deutschl. ii, 1871, p. 550; Atlas, t. 55, f. 61-72. Syn. *Dicælosia*, King.
- Bohrmuschelsteine**, Auctt.  
Voc. vulg. cent. xviii<sup>ma</sup> = Brach. sp. foss.
- Bouchardia**, Davidson. *Terebratulidae*. 1849.  
Bull. Soc. Géol. de France, vii, p. 62, pl. i, f. 1-6. Type *Terebratula tulipa*, Blainville, Dict. Sci. Nat. 53, p. 144, 1828, = *T. rosea*, Mawe, Reeve, Conch. Icon. pl. viii, f. 33. Syn. *Pachyrhynchus*, King, not Spix.
- Brachidæ**, D'Orbigny. *Brachiopoda*. 1849.  
Cours Élém. Pal. p. 80. Ord. Brach. cont. sect. *Brachides propres*, *Semi-brachides*.
- Brachides propres**, D'Orbigny. *Brachiopoda*. 1849.  
Cours Élém. Pal. p. 80. Sect. Brach. cont. *Lingulidæ*, *Calceolidæ*, *Productidæ*, *Orthisidæ*, *Rhynchonellidæ*, *Uncitidæ*.
- Brachionobranchia**, Paetel. 1875.  
Fam. u. Gatt. Moll. p. 25, as of Woodward. Class = *Brachiopoda*.
- Brachionopoda**, Agassiz. 1847.  
Nom. Zool. Index, p. 145. (= *Brachiopoda*, Cuv. bene corrig.)
- Brachiopea**, Rafinesque. *Brachiopoda*. 1815.  
Analyse de la Nature, p. 148. Fam. cont. *Orbicula*, *Terebratula*, *Lingula*. Ib. Fos. biv. Western Region, p. 7, 1831.
- Brachiopia**, Herrmannsen. 1852.  
Index. Gen. Mal. Suppl. p. 18; lapsus (= *Brachiopca*, Raf.).



**Brachiopoda, Cuvier.***Invertebrata.* **1802.**

Annales du Mus. i, 1802, p. 77, fide Quenstedt.

Diet. Sci. Nat. i, p. 134, 1805.

Roissy, Moll. vi, p. 460, 1805. Class cont. *Arthropomata* and *Lyopomata* of Owen.

Adt. Dumeril, 1806, Traite Élé. Order.

Lamarck, 1809, Phil. Zool. p. 317. Fam.

Cuvier, 1817, Règne Anim. ii, 358, 502. Class.

Lamarck, 1819, Hist. An. s. Vert. Fam.

Ferussac, 1819, Tabl. Syst. xxxviii. Class.

Schweigger, 1820, Naturges. p. 689. Order.

Latreille, 1825, Fam. Nat. Règne An. Class.

Rang, 1829, Man. p. 257. Order.

Fleming, 1828, Brit. An. p. 225. Divis.

Menke, 1828, Syn. p. 56. Class.

Deshayes, 1830, Enc. Méth. ii, p. 140. Sub-class.

Eichwald, 1831, Zool. Spec. Order.

Geinitz, 1846, Grundr. Verst. p. 489. Order.

Gray, 1848, Ann. Nat. Hist. p. 435. Class.

Davidson, 1851-54, Intr. Brach. p. 41. Class.

**Brachiopodæ, Bronn.****1824.**

Syst. Urwelt Conch. p. 35, as of Lamarck.

**Brachiopodes, Bellermin.****1814.**

Mag. Berliner Ges. Naturf. Freunde, vii, p. 88 (not seen).

**Brachiopodes cirrises, D'Orbigny.****1849.**Cours Élé. Pal. p. 80. Ord. Brach. cont. *Thecidæ*, *Caprinidæ*, *Radiolidæ*.**Brachiopodidæ, Broderip.****1839.**Penny Cyclop. xiv, art. Malacology, p. 320. (= *Brachiopoda*, Cuv.)**Brachipoda, Bronn.****1848.**Index Paleont. passim; lapsus (= *Brachiopoda*, Cuv.).**Brachymerus, Shaler.***Pentameridæ.* **1865.**Brach. Anticosti, Bull. Mus. Comp. Zool. i, p. 69. Type *Pentamerus Verneuli*, Hall, Pal. N. York, iii, pl. 48, f. 1, a, o, p, t, x, v. (Sil.) Nom. præoc. by Dej. Col. 1834. (= *Anastrophia*, Hall.)**Brachyopoda, Fic. u. Carus.****1826.**Ueber Ges. Thierr. \* \* Oken, Isis, 1828, p. 855. (*Brachiopoda*.)**Brachyprion, Shaler.***Strophomenidæ.* **1865.**Brach. Anticosti, Bull. Mus. Comp. Zool. i, p. 63 (June.). Type *Strophomena leda*, Billings, Lower Sil. Foss. p. 120, cut, 1862.**Brachythyris, M'Coy.***Spiriferidæ.* **1844.**Carb. Foss. Ireland, p. 128, f. 20. First sp. p. 144. *Spirifera duplicicosta*, Phillips, Geol. Yorks. ii, 218, pl. x, f. 1, 1836. (= *Spirifer*, Sow.)**Branchiopoda, Risso.****1826.**Hist. Nat. Europe MÉR. iv, p. 386. Not of Latreille, fam. Crustaceorum. (= *Brachiopoda*, Cuv.)

- Bucardites**, Argenville. *Mollusca*. **1757.**  
 Conchyl. p. 530. Non-binomial. Gen. cont. *Tridacna* sp. et *Terebratula* sp. fos.
- Bucocephalus**, Linné. *Brachiopoda*. **1779.**  
 Vollst. Natursyst. Min. übersetz. von Gmel. iv, p. 49. Gen. Brach. costatæ, *Spiriferi* (sp.) teste Quenstedt, *Producti* (sp.) teste Scheuchzer.
- Bursula**, Klein. *Brachiopoda*. **1753.**  
 Ostracol. p. 173, pl. xii, f. 80. Gen. Brach. dubium. Blainville, Dict. Sci. Nat. v, Suppl. p. 139, ad *Terebratula*, Luid, ref. Sole ex. *B. corallina*, Klein, l. c. (non-binomial).
- Calceola**, Lamarck. *Coelenterata*. **1799.**  
 Prodrome, p. 89. Sole ex. *Anomia sandalina*, Gmel. Syst. Nat. iv, p. 349. Davidson, 1856, pl. xiii, f. 9-13. (Sil.) Not = *Calceola*, Swains. 1840.  
 This has been shown by Lindström to be a genus of operculated corals.
- Calceolaceæ**, Menke. *Invertebrata*. **1828.**  
 Syn. Mus. Menkeanum, p. 56. Fam. = *Les Acardes*, Desm.
- Calceolacea**, Menke. *Invertebrata*. **1830.**  
 Syn. Mus. Menkeanum, ed. ii<sup>a</sup>, p. 95. Cf. præc.
- Calceolæ**, Desmoulins. *Coelenterata*. **1826.**  
 Bull. Soc. Lin. de Bordeaux, i, p. 241. Fam. cont. *Calceola*.
- Calceolaria**, Griffith. *Calceolidæ*. **1834.**  
 New Ed. Cuvier, An. Kingdom, xii, p. 92. (= *Calceola*, Lam.)
- Calceolidæ**, King. *Coelenterata*. **1846.**  
 Ann. Mag. Nat. Hist. xviii, p. 28. Fam. cont. *Calceola*.
- Calceolina**, Agassiz. *Coelenterata*. **1847.**  
 Nom. Zool. Index, p. 166. (= *Calceolidæ*, King, corrig. not = *Calceolina*, A. Adams, 1867.)
- Calceolites**, Schlotheim. *Calceolidæ*. **1820.**  
 Petrefactenkunde, p. 173. (*Calceola*, Lam.)
- Camarella**, Billings. *Rhynchonellidæ*. **1859.**  
 Canadian Nat. iv, Aug. p. 301. (Sil.) First sp. *C. Volborthi*, Bill. (l. c.), Rep. Progr. Canadian Geol. Surv. 1863, p. 143, f. 77 a-c. Second sp. *C. Panderi*, Bill. (l. c.), 1863, l. c., f. 76, a, b; not = *Triplesia*, Hall.  
 Typical species Rhynchonelloid; some of the others said to be Pentameroid.
- Camarium**, Hall. *Spiriferidæ*. **1859.**  
 12th Regent's Rep. Oct. p. 42-43, f. 1-6. *C. typum*, Hall, l. c. (Lower Held.) (= *Merista*, Suess.)
- Camarophoria**, Bronn. *Pentameridæ*. **1845.**  
 Leonh. u. Bronn, Jahrb. 1845, p. 254. (= *Camerophoria*, King cor.)

- Camerella**, "Billings", Paetel. *Rhynchonellidæ*. 1875.  
Fam. u. Gatt. Moll. p. 32; lapsus (= *Camarella*, Bill.).
- Camerophoria**, King. *Rhynchonellidæ*. 1846.  
Ann. Mag. Nat. Hist. xiv, 1844, p. 313. No description or ex. cited.  
Ibid. xviii, 1846, p. 89. Type *Terebratula Schlotheimi*, von Buch, cf. Chenu,  
Man. ii, p. 220, f. 1132. (Cf. *Stenocisma*, Conr.)
- Capsularia**, Llhwyd. *Brachiopoda*. 1699.  
Lith. Brit. Ichn. p. 466. Non-binomial. (Cf. *Delthyris*, Dalm.)
- Centronella**, Billings. *Terebratulidæ*. 1859.  
Canadian Nat. iv, April, p. 131, f. 1-5. (Dev.) *Rhynchonella glansfagea*,  
Hall. Cf. Hall, Am. Journ. Sci. Arts, xxxv, pp. 403, 405, f. 22; p. 400, f. 1-5,  
et Bill. l. c. xxxvi, p. 237, f. 8. Syn. *Cryptonella*, Hall, pars. (Cf. *Lepto-*  
*coelia*, Hall, 1859.)
- Charionella**, Billings. *Spiriferidæ*. 1861.  
Can. Journ. Nat. Hist. May, 1861 (extras, Mar. 1861), p. 148. Sole  
ex. *Atrypa scitula*, Bill. (not Hall), p. 273, f. 100, 101. Ib. ex. *Ch. circe*,  
Bill. l. c. p. 273. (Dev.) Subg. *Athyris*. (Cf. *Meristella*, Hall, 1861.)
- Chelodes**, Davidson and King. (*Incertæ sedis.*) 1874.  
Quart. Journ. Geol. Soc. London (May), p. 167, pl. xviii, f. 14, a-c.  
Type *C. Bergmani*, D. & K. l. c. (Sil.) No gen. diagn.  
Possibly a coral. Looks like the internal fulcrum of  
*Zirphæa* (*Leuconyx*, H. Adams!).
- Chonetes**, Fischer de Waldheim. *Productidæ*. 1837.  
Oryct. Gouvern. Moscou, part ii, p. 134, pl. 26, f. 8-9. Sole ex. *Orthis*  
*striatella*, Fisch. l. c. as of Dalman, = *Leptæna* seu *Producta variolata*,  
D'Orbigny, Voy. Am. Mérid. Pal. p. 49, pl. iv, f. 10, 11, 1842, = *Chonetes*  
*variolata*, Kon. Mon. *Chonetes*, p. 206, pl. xix, f. 5, xx, f. 2, a-l, 1847. (Sil.)
- Chonetidæ**, Bronn. *Arthropomata*. 1862.  
Klass. u. Ordn. Thierr.; Malacozoa, 3ten Bd., 1ste Abth. p. 301-2. Fam.  
Brach. cont. *Chonetes*, *Strophalosia*, *Orthothrix*, *Aulosteges*.
- Chonetus**, Paetel. *Productidæ*. 1875.  
Fam. u. Gatt. Moll. p. 42; lapsus (= *Chonetes*, Fisch.).
- Choniopora**, Schauroth. *Craniidæ*. 1854.  
Zeitschr. Deutsch. Geol. Ges. vi, p. 546. Type = *Crania Schaurothi*,  
Geinitz, Dyas, t. 20, f. 3, 1861. Quenstedt, Petref. Deutschl. 1871, p. 687,  
pl. 61, f. 90.  
Genus described as a polyzoon, being covered with minute,  
short tubulæ, but may be a good section of *Crania*.
- Choristides**, Keferstein. *Brachiopoda*. 1829.  
Zeit. Geogn. p. 43; lapsus (= *Choristites*, Fischer).
- Choristites**, Fischer de Waldheim. *Spiriferidæ*. 1825.  
Sur la Choristite, p. 7, pl. 1, f. 1-4. First sp. *C. mosquensis*, Fisch. l. c.  
= *Spirifer m.*, Murch. Vern. u. Keys. Geol. Russ. ii, p. 161, pl. v, f. 2.  
Davidson, 1856, pl. viii, f. 26. Fisch. Oryct. Gouv. Moscou, 1830, t. 24,  
f. 1-4, *C. mosquensis* F. (= *Spirifer*, Sow.) Quenstedt. Petref. Deutschl.  
1871, ii, pp. 27, 467, 506; atlas, pl. 53, f. 58-59, gen. *Delthyridarum*.

- Cincta**, Quenstedt. *Terebratulidæ*. 1871.  
 Petref. Deutschl. ii, p. 27; atlas, t. 45, f. 93-121; gen. Epithyridarum.  
 Type *Terebratula numismalis*, Lamarek, Hist. vi, p. 249, 1819. (= *Eudesia*,  
 King.)
- Cistella**, Gray. *Terebratulidæ*. 1853.  
 Brit. Mus. Cat. Brach. (Jan.) p. 114. Type *Terebratula cuneata*, Risso,  
 Hist. Nat. Eur. Mérid. f. 179, 1826. Dall, Rev. Terebr. 1870, p. 146, f. 24.  
 (Rec.) Syn. *Zellania*, Moore.
- Cleidothyris**, Paetel. *Brachiopoda*. 1875.  
 Fam. u. Gatt. Moll. p. 45; lapsus (= *Cleiothyris*, Phillips).
- Cleiothyris**, Phillips. *Atrypidæ*. 1841.  
 Pal. Foss. Cornwall and Devon, p. 55. Cf. Brit. Pal. Foss. Cambridge  
 Mus. p. 196, 1852. Suggested to replace *Atrypa*, Dalman, on account of  
 objections to the latter name, but not used in the text. (= *Atrypa*, Dalm.)
- Cleiothyris**, King. *Spiriferidæ*. 1850.  
 Ann. Mag. Nat. Hist. xviii, p. 32 (referred to *Atrypa*), 1846. Ibid.  
 Perm. Foss. p. 138, pl. x, f. 1-10. Type *Terebratula pectinifera*, King, l. c.  
 = *Atrypa pectinifera*, J. de C. Sow. Min. Conch. vii, p. 14, pl. 616, 1841.  
 Not *Cleiothyris*, Phillips. (= *Athyris*, M'Coy.)
- Cliothyris**, Agassiz. *Atrypidæ*. 1847.  
 Nom. Zool. Index, p. 259. (= *Cleiothyris*, Phil. corrig.)
- Clipsilia**, Rafinesque. (*Incertæ sedis*). 1820.  
 Ann. Gen. Sci. Phys. Bruxelles, v, p. 232. Name only; no description or  
 type cited. Gen. incert.
- Clistenterata**, King. *Brachiopoda*. 1873.  
 Ann. Mag. Nat. Hist. ser. iv, vol. xii, p. 15, July. Subclass cont.  
 Brach. articulata. (= *Arthropomata*, Owen.)
- Clitambonites**, Agassiz. *Brachiopoda*. 1847.  
 Nom. Zoöl. Index, p. 259. (= *Klitambonites*, Pander corr.)
- Coelospira**, Hall. *Atrypidæ*. 1863.  
 16th Regent's Rep. July, p. 60, cut. Type *Leptocoelia concava*, Hall.  
 10th Regent's Rep. 1857, p. 107. Hall's first species of *Leptocoelia*, but  
 not congeneric with the species finally selected by Hall as typical of the  
 latter. Cf. Am. Journ. Sci. and Arts, xxxvi, p. 16, f. 37, July, 1863. Same  
 type. Not = *Leptocoelia*, Hall, 1859. (Comp. *Zygospira*, Hall.)
- Comerophoria**, Gray. *Pentameridæ*. 1848.  
 Ann. Mag. Nat. Hist. ii, p. 438; lapsus (= *Camerophoria*, King).
- Concha anomia**, Colonna. *Brachiopoda*. 1616.  
 Fab. Col. De Purpura, p. 23. Aquat. Obs. p. 43. Non-binomial. In-  
 determinate species of recent and fossil arthropomatous brachiopods.
- Concha triangulata vulgaris**, Gualteri. *Brachiopoda*. 1742.  
 Index, tab. 82. Non-binomial. (= *Terebratula*, Llhwyd.)

- Concha triloba**, Klein. *Brachiopoda*. 1753.  
Ostracol. p. 172, t. xi, f. 75. Non-binomial. First species, *Striata prima, ravior, columnae*; Kl. l. c. p. 172. (*Incert.*)
- Conchidium**, Linné. *Pentameridæ*. 1760.  
Mus. Tessin. p. 90, t. v, f. 8, 1753. *C. biloculare*, Lin. l. c. Ibid. Syst. Nat. ed. xi, ii, p. 163, 1760; diagn. in extenso, sole ex. *Pat. ? bilocularis*, Lin. = *Anomites bilocularis*, Wahl. Acta Upsala, 1821, viii, p. 67, = *Gypidia conchidium*, Dalm. Quenst. Petref. Deutschl. ii, p. 227, 1871; atlas, pl. 43, f. 36-9. Syn. *Gypidia*, Dalman, Hall.
- Conchites**, Linné. *Brachiopoda*. 1753.  
Mus. Tessin. p. 88, t. v, f. 1-8. Indeterminate fossil Brachiopoda.
- Conchylolithus**, Martin. *Brachiopoda*. 1809.  
Petref. Derb.\* teste Agassiz. (Cf. *Conchites*.)
- Conradia**, Hall, MS. *Trimerellidæ*.  
Cf. Dav. & King. Quart. Journ. Geol. Soc. London, 1874, p. 159. Not *Conradia*, A. Ad. (= *Dinobolus*, Hall.)
- Crania**, Retzius. *Craniidæ*. 1781.  
Schrift. Berliner Ges. Naturf. Freunde, ii, p. 72. Type *Anomia cranio-laris*, Lin. Syst. Nat. ed. xii, i, pt. 1, p. 1150, = *C. brattensburgensis*, Retz. l. c. Davidson, 1853, pl. ix, f. 229. Syn. *Orbicula*, Cuv.
- Craniacea**, Menke. *Brachiopoda*. 1830.  
Syn. Mus. Menkeanum, ed. ii, p. 96. Fam. Brach. cont. *Thecidia, Crania, Orbicula*. (= *Les Cranies*, Rang.) Ibid. Anton, Verzeichn. 1839, p. xii.
- Craniaceæ**, Menke. *Brachiopoda*. 1828.  
Syn. ed. i, p. 56. (olim). (= *Craniacea*, Mke.)
- Craniadæ**, Forbes. *Lyopomata*. 1838.  
Mal. Monensis, p. 38. Fam. Brach. cont. *Crania, Discina?*
- Craniadæ**, King. *Lyopomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Crania, Siphonotreta, Criopus*.
- Craniadæ**, Gray. *Lyopomata*. 1840.  
Synopsis. Brit. Mus. i, p. 155. Fam. Brach. cont. *Crania*. Id. Ann. N. Hist. ii, p. 438, 1848. (= *Craniidæ*.)
- Craniaæ**, Deshayes. *Invertebrata*. 1830.  
Encycl. Méth. iii, p. 533, table. Fam. Brach. cont. *Calceola, Crania*.
- Craniadées**, Davidson. *Lyopomata*. 1856.  
Intr. Ed. Deslongchamps, p. 226. Fam. Brach. cont. *Crania*.
- Cranicella**, Rafinesque. (*Incertæ sedis*). 1815.  
Analyse de la Nature, p. 148. Name only; no type cited or diagnosis given. (? = *Crania*, Retz.)
- Cranidæ**, D'Orbigny. *Lyopomata*. 1849.  
Cours Élé. Pal. p. 90. Fam. Brach. cont. *Crania*.

- Cranidées**, D'Orbigny. *Lyopomata*. 1847.  
Comptes Rendus, xxv, p. 269. Fam. Brach. cont. *Crania*.
- Craniidæ**, King. *Lyopomata*. 1846.  
Ann. Mag. Nat. Hist. xviii, p. 28. Fam. Brach. cont. *Crania*, *Siphonotreta*.
- Craniidæ**, H. and A. Adams. *Lyopomata*. 1858.  
Gen. Rec. Moll. ii, p. 583. Fam. Brach. cont. *Crania*.
- Craniolites**, Schlotheim. *Lyopomata*. 1820.  
Petrefactenkunde, p. 247. A general term for the fossil sp. of *Crania*.
- Craniolithes**, Auctt. *Lyopomata*.  
Cf. *Craniolites*.
- Craniops**, Hall. *Craniidæ*. 1859.  
12th Regent's Rep. p. 84 in catalogue. No diagnosis; inserted as a corrected name for *Orbicula* (?) *squamiformis*, Hall, Geol. Rep. 1843, p. 108, f. 1; Pal. N. Y. ii, p. 250, t. 53, f. 4 a-b. (Sil.) Hall, Pal. N. Y. iv, p. 413, 1867 (advance copies only; omitted in the published volume). Davidson, Annales Soc. Mal. Belgique, x, 1874, table, No. 107. (= *Pholidops*, Hall.) Not *Cranopsis*, Dall. Comp. *Pseudocrania*, McCoy.  
*Pholidops* was substituted for this name with the same type and a full description in the 13th Rep. p. 92.
- Craniscus**, Dall. *Craniidæ*. 1871.  
Bull. Mus. Comp. Zool. iii, No. i, p. 27. Type *Cranix tripartita*, Munster sp. Davidson, 1856, pl. xiii, f. 21.
- Cranopsis**, Dall. *Craniidæ*. 1871.  
Bull. Mus. Comp. Zool. iii, pt. 1, p. 26-7. Type *Crania parisiensis*, De-france sp. Davidson, 1856, pl. xiii, f. 23 a-b. (= *Ancistrocrania*, Dall.) Not *Cranopsis*, A. Ad. 1867, gen. gast.
- Crepidites**, Schroter. *Calceolidæ*. 1780.  
Lith. Lex. i, p. 366. Non-binomial. (= *Crepites*, Hupsch.)
- Crepidolite**, Rozier. *Calceolidæ*. 1774.  
Journ. de Phys. iii, p. 150. Non-binomial. Cf. *Calceola*.
- Crepidolithus**, Hupsch. *Calceolidæ*. 1768.  
Neue Entdeck. pp. 40, 56. Non-binomial. Cf. *Calceola*.
- Crepite**, Rozier. *Calceolidæ*. 1774.  
Journ. de Phys. iii, p. 150. Non-binomial. Cf. *Calceola*.
- Crepites**, Hupsch. *Calceolidæ*. 1768.  
Neue Entdeck. pp. 40, 56. Non-binomial. Cf. *Calceola*.
- Criopiderma**, Poli. *Craniidæ*. 1795.  
Test. utriusq. Sicil. ii, passim; lapsus (= *Criopoderma*, Poli).
- Criopoderma**, Poli. *Craniidæ*. 1795.  
Test. utriusq. Sicil. ii, pp. 189, 255, 261. Non-binomial. Sole ex. *C. turbinatum*, Poli, l. c. Cf. *Criopus*, Poli. (= *Crania*, Retz.)

- Criopodes**, Herrmannsen. 1852.  
Ind. Gen. Mal. Suppl. p. 38, pro *Kriopen*, Oken, q. v.
- Criopododerma**, Agassiz. *Craniidæ*. 1846.  
Nom. Zool. Fasc. ix, p. 301, index. (= *Criopoderma*, Poli corrig.)
- Criopus**, Gray. *Craniidæ*. 1821.  
London Med. Repository, p. 238. Fleming, Phil. Zool. ii, p. 499, 1822.  
Type *Patella anomala*, Mull. Gray in Leach, Moll. Gt. Brit. 1852, p. 358,  
pl. xiii, f. 6. Sole ex. *C. orcadensis*, Leach, MS. = *Crania anomala*, Mull.  
sp. (= *Crania*, Retz.)
- Criopus**, Poli. *Brachiopoda*. 1791.  
Test. utriusq. Sicil. i, p. 34. Non-binomial. Ex. *C. fimbriatus*, Poli, l. c.  
= animal of various brachiopods.
- Cryopus**, Deshayes. *Brachiopoda*. 1836.  
An. s. Vert. ed. ii, vol. vii, p. 314, passim. (= *Criopus*, Poli.)
- Cryptacanthia**, White and St. John. *Terebratulidæ*. 1868.  
Trans. Chicago Acad. Sci. i, p. 119, f. 3, a-c. Type *Waldheimia com-*  
*pacta*, W. & St. J. l. c. (Dev.) (? = *Eudesia*, King.)
- Cryptobrachia**, Gray. *Brachiopoda*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 435. Ord. Brach. cont. fam. *Thecidæadæ*.
- Cryptobranchia**, Paetel. *Brachiopoda*. 1875.  
Fam. u. Gatt. Moll. p. 58; lapsus (= *Cryptobrachia*, Gray).
- Cryptocella**, Paetel. *Brachiopoda*. 1875.  
Fam. u. Gatt. Moll. p. 59, as of Hall; ? lapsus (= *Cryptonella*, Hall).  
Not *Cryptocella*, H. & A. Ad. 1854.
- Cryptonella**, Hall. *Terebratulidæ*. 1861.  
14th Regent's Rep. p. 101-2. No type selected. First species men-  
tioned p. 101, *Terebratula Lincklæni*, Hall. 13th Reg. Rep., p. 88. 15th  
Reg. Rep. p. 160, pl. iii, f. 6, 7; figures *C. eximia*, Hall, n. s. (Extra cop-  
ies, descr. &c. p. 132-3.)
- Cryptonella**, Hall. *Terebratulidæ*. 1863.  
16th Regent's Rep. pp. 41, 43-47. *C. Juliæ*, Winchell, cited as example.  
*C. Lincklæni*, Hall, remanded to *Terebratula*, and the genus acknowledged  
to be a synonym of *Centronella*, Billings. (See note, p. 47, l. c.)
- Cryptonella**, Hall. *Terebratulidæ*. 1867.  
Notice of Pal. N. York, vol. iv, Mar. 1867, p. 20. *C. rectirostra*, Hall,  
the second species of the 14th Reg. Rep. taken as type. As last consti-  
tuted, the group seems a valid section of *Waldheimia*. (Dev.)
- Cryptonema**, (Hall?) Bigsby. *Arthropomata*. 1868.  
Bigsby, Thes. Sil. p. 93; name only in list. Sole ex. cited *C. siluriana*,  
Hall (? lapsus, = *Cryptonella*).
- Cryptopora**, Jeffreys. *Rhynchonellidæ*. 1869.  
Nature, p. 136, Dec. 2, 1869. Ex. *C. gnomon*, Jeffr. No description  
of type or genus (cf. *Atretia*, Jeffr.).

- Ctenites**, Kentman. *Invertebrata*. 1565.  
 Nom. rer. foss. p. 33; and other non-binomial writers.  
 Name for longitudinally striate bivalves, among which some brachiopods were counted.
- Cunolites**, Auctt.  
 Cf. DeFrance, Dict. Sci. Nat. xxii, 1821, p. 402, in synonymy. (Cf. *Hysterolithus*.)
- Curvulites**, Rafinesque. (*Incertæ sedis*.) 1831.  
 En. Rem. Obj. Cab. Raf. p. 4. Sole ex. *C. striata*, Raf. Not identifiable. Genus ref. by Agassiz, Nom. Zool. fasc. ix, p. 26, 1846, to the Brachiopoda.
- Cyclothyridæ**, Phillips. *Arthropomata*. 1841.  
 Pal. Foss. Cornwall and Devon. p. 55. Fam. Brach. cont. *Epithyris*, *Hypothyris*.
- Cyclothyrides**, Agassiz. *Arthropomata*. 1847.  
 Nom. Zool. Index, p. 519, = *Cyclothyridæ*, Phil. corrig.
- Cyclothyris**, M'Coy. (*Incertæ sedis*.) 1844.  
 Carb. Foss. Ireland, p. 150, f. 29. No ex. cited; a generic figure given. Undeterminable.
- Cyclothyris**, Davidson. *Rhynchonellidæ*. 1856.  
 Intr. p. 181, as of M'Coy; in synonymy. Type cited, *Rhynchonella latissima*, Sow. Min. Conch. ii, p. 37, t. 18, f. 1. (? = *Rhynchonella*.)
- Cyrtæna**, Hall. *Spiriferidæ*. 1867.  
 Pal. N. Y. iv, p. 188, err. typ. ? = *Cyrtina*, Davidson.
- Cyrthia**, D'Orbigny. *Spiriferidæ*. 1847.  
 Comptes Rendus, xxv, p. 268, male pro *Cyrtia*, Dalm.
- Cyrtia**, Dalman. *Spiriferidæ*. 1828.  
 Kongl. Vet. Acad. Handl. f. 1827, pp. 93, 97. First sp. *C. exporrecta*, Dalm. l. c. p. 118, t. 3, f. 1, = *Anomites exporrectus*, Wahl. Act. Upsal. viii, p. 64. (Sil.) Second sp. (var. of last, teste Dav.) *C. trapezoidalis*, Dalm. l. c. p. 119, t. 3, f. 2. Davidson, 1856, pl. viii, f. 33. The first name is assigned to the type by Dav. 1856.
- Cyrtina**, Davidson. *Spiriferidæ*. 1858.  
 Brit. Carb. Brach. p. 66. First sp. *Cyrtia heteroclita*, DeFrance, Dav. l. c. p. 67, cut. Chenu, Man. ii, p. 215, f. 1101, 1103. Dav. 1856, pl. viii, f. 36-39. Ibid. Dev. Brach. p. 48, pl. ix, f. 1-16.
- Daphnoidia**, Hibbert. *Articulata*. 1836.  
 Trans. Roy. Soc. Edinb. xiii, p. 180. No specific name applied; a genus of Entomostraca wrongly referred to the Brachiopoda by Agassiz, Nom. Zool. fasc. ix, p. 29, 1846.
- Davidsonia**, Bouchard-Chanteroux. *Atrypidæ*. 1849.  
 Ann. Sci. Nat. c. xii, p. 84. Type *D. verneuii*, B.-C. l. c. Davidson, 1856, p. 207, pl. xiii, f. 2, 3, 6, 7.



- Davidsonidæ**, King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Davidsonia*. Davidson, 1853, p. 51. (Mel. *Davidsoniidæ*.)
- Delthiridæa**, Gray. *Terebratulidæ*. 1848.  
Ann. Mag. Nat. Hist. ii. p. 438; lapsus (= *Delfayridea*, M'Coy).
- Delthyridæ**, Phillips. *Arthropomata*. 1841.  
Pal. Foss. Cornwall and Devon. p. 54. Fam. Brach. cont. *Orthis*, *Spirifer*, *Strigocephalus*, *Pentamerus*, *Cleiothyris*.
- Delthyridæ**, Quenstedt. *Arthropomata*. 1871.  
Petref. Deutschl. ii, p. 27. *Mesopygia*, sect. ii, cont. subsect. a and b.  
a. *Spirifer*. b. *Spiriferina*.  
*Choristites*. *Syringothyris*.  
*Cyrtia*. *Cyrtina*.  
*Trigonotreta*. *Suessia*.
- Delthyridacea**, F. Braun. *Arthropomata*. 1840.  
Verz. Bayr. Petref. p. 44. Fam. Brach. cont. *Spirifer*, *Orthis*.
- Delthyridea**, M'Coy. *Arthropomata*. 1844.  
Carb. Foss. Ireland, p. 130, f. 27. No ex. cited, but an unrecognizable generic figure given. (*Genus incert.*)
- Delthyridea**, King. *Terebratulidæ*. 1850.  
Perm. Foss. p. 141. Type *Terebratula pectiniformis*, Schlotheim, Quenst. Handb. Petref. p. 463, t. 37, f. 14. (= *Trigonosemus*, Kön.)
- Delthyris**, Dalman. *Spiriferidæ*. 1828.  
Kongl. Vet. Acad. Handl. f. 1827, pp. 93, 99. First sp. l. c. p. 120, t. iii, f. 3, *D. elevata*, Dalm. a Silurian sp. of *Spirifer*, teste. Dav. Not *Delthyris* Mke. or von Buch. (= *Spirifer*, Sow.)
- Delthyris**, Menke. *Terebratulidæ*. 1830.  
Syn. Mus. Menkeanum, ed. ii. p. 96, as of Dalman, but types not congeneric. 1st spec. *Terebratella dorsata*, Lam. sp. Rve. Conch. Icon. v, f. 21 a-d. Not *Delthyris*, Dalm. (= *Terebratella*, D'Orb.)
- Delthyris**, von Buch. *Arthropomata*. 1837.  
Ueber *Delthyris*, p. 4. Genus a medley of forms belonging to various groups. Not *Delthyris*, Dalm.
- Deltyrydæa**, Davidson. *Terebratulidæ*. 1856.  
Intr. in synonymy of *Trigonosemus*, p. 126; lapsus (= *Delthyridea*, M'Coy).
- Dicellomus**, Hall. *Lyopomata*. 1871.  
23d Regent's Rep. p. 246, pl. 13, f. 6-9, 1873. (Extras Mar. 1871, fide Hall.) Types *D. crassa*, Hall, l. c. = *Obolella* sp. Bill. and *Obolella? polita*, Hall, 16th Reg. Rep. p. 133, pl. vi, f. 17-21. Jan. 1864. (Cf. *Schmidtia*, Volb. 1869.)
- Diclipsites**, Rafinesque. (*Incertæ sedis*). 1831.  
Mon. Biv. Shells Ohio, p. 8. No ex. cited. *Gen. incert.*

- Diclisma**, Rafinesque. (Incertæ sedis.) 1821.  
Ann. Sci. Phys. Bruxelles, 1820, p. 232; name cited without any description in Mon. Turbinolies de Kentucky. Id. Mon. Biv. Shells Ohio, 1831, p. 7. No ex. cited. *Genus incert.*
- Dicoelosia**, King. *Stropkomenidæ.* 1850.  
Mon. Perm. Foss. p. 106. (Sil.) Type *Anomia biloba*, Lin. Dav. 1853, t. viii, f. 143-5, sect. *Orthis*. (= *Bilobites*, Linné.)
- Diconcha inæqualis**, Klein. *Invertebrata.* 1753.  
Ostracol. p. 171. Non-binomial. Section containing genera, *Terebratula*, *Concha triloba*, *Concha adunca*, *Bursula*, *Globus*, *Stola*, *Concha ansata*.
- Dicraniscus**, Meek. *Rhynchonellidæ.* 1872.  
Am. Journ. Sci. and Arts., 3d ser. iv, p. 28. Type *D. ortonii*, Meek, l. c. Pal. Ohio, 1873, i, p. 176, pl. xv, f. 1 a-k. (= *Triplesia*, Hall.)
- Dictyonella**, Hall, MS. ? *Rhynchonellidæ.*  
20th Regent's Report, p. 274, Mar. 1867. (Sil.) Type *Atrypa coralifera*, Hall, Pal. N. York, 1852, p. 281. (= *Eichwaldia*, Bill.)
- Dielasma**, King. *Terebratulidæ.* 1859.  
Proc. Dublin Un. Bot. Zool. Assoc. i, p. 260. Type *Terebratula elongata*, Schlotheim. Dav. Perm. Brach. p. 7, f. 5, 17, 18, 20. (= *Epithyris*, King, not Phillips. Cf. *Seminula*, M'Coy, 1855, not 1844.)
- Dignomia**, Hall. *Lingulidæ.* 1871.  
23d Regent's Rep., p. 245, pl. 13, f. 3, 1873. Extras Mar. 1871, fide Hall. Type *D. alveata*, Hall, l. c.
- Dimerella**, Zittel. *Rhynchonellidæ.* 1870.  
Dunker & von Meyer, Paleont. p. 220. Type *D. Gumbelli*, Zittel, l. c. p. 222, pl. xli, f. 27-30. Syn. *Atretia*, Jeffr. *Cryptopora*, Jeffr.
- Dinobolus**, Hall. *Trimerellidæ.* 1871.  
23d Regent's Rep. p. 247, 1873. Extras, Mar. 1871, fide Hall. Type *Obolus Conradi*, Hall, 20th Reg. Rep. p. 368. (Compare *Acritis*, Volborth, 1869.) Adt. Dav. & King, Quart. Journ. Geol. Soc. London, May, 1874, p. 159, pl. xviii, f. 1-4. (Cf. *Obolellina*, Bill.)
- Diphyites**, Schroter. (Incertæ sedis.) 1779.  
Lith. Lex. ii, p. 423. Non-binomial. (? = *Pygope*, Link.)
- Diplothyridæ**, Quenstedt. *Arthropomata.* 1871.  
Petref. Deutschl. ii, p. 27. Subsect. *Productidæ* cont. *Orthis*, *Orthisina*, *Leptæna*, *Strophomena*, *Streptorhynchus*, *Hysterolithus*, *Dicoelosia*, *Lepto-coelia*. (*Diplothyra*, Tryon, = gen. *Pholadacea*.)
- Discina**, Lamarck. *Discinidæ.* 1819.  
Hist. An. s. Vert. vi, p. 236. Type *D. ostreoides*, Lam. (not described), = *Orbicula norvegica*, Sow. non. Lam. = *Crania striata*, Schum. + *C. radiata*, Gould, Moll. U. S. Expl. Exped. p. 465, f. 480, a-c, 1852. (Recent.)
- Discina**, Dall. *Discinidæ.* 1871.  
Bull. Mus. Comp. Zool. iii, p. 39, 1871. Subg. *Discina*, type *D. striata*, Schum. sp. (= *Discina*, Lam. sens. str.)

- Discina**, Turton. *Craniidæ*. 1822.  
Dithyra Brit. p. 238, ex parte. (= *Crania* sp.)
- Discinella**, Hall. (*Incertæ sedis*). 1871.  
23d Regent's Rep. p. 246, 1873. Extras Mar. 1871, fide Hall. Diagnosis only; no ex. cited. *Gen. incert.* Said to = operculum of *Hyolithes* (*Pteropoda*).
- Discinidæ**, Gray. *Lyopomata*. 1840.  
Synopsis. Brit. Mus. i, p. 155. Ann. Mag. Nat. Hist. ii, p. 439. Fam. Brach. cont. *Discina*.
- Discinidæ**, King. *Lyopomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Discina*, *Orbiculoidea*, *Trematis*.
- Discinidæ**, Davidson. *Lyopomata*. 1853.  
Intr. p. 51. Fam. Brach. cont. *Discina* (? *Orbiculoidea*, *Trematis*), *Siphonotreta* (? *Acrotreta*). Ibid. 1856, p. 90.
- Discinina**, Agassiz. *Lyopomata*. 1847.  
Nom. Zool. Index, p. 366. (= *Discinidæ*, Gray corrig.)
- Discinisca**, Dall. *Discinidæ*. 1871.  
Bull. Mus. Comp. Zool. iii, p. 37, May, 1871. Type *Discina lamellosa*, Broderip, Reeve, Conch, Icon. pl. i, f. 4, 1862. (= *Discina*, auct. not Lam.)
- Eatonia**, Hall. *Rhynchonellidæ*. 1857.  
10th Regent's Rep. p. 90, f. 1-7. No diagnosis. First sp. *Atrypa medialis*, Vanuxem, Pal. N. York, iii, t. 37, f. 1. (L. Held.) Ibid. 12th Regent's Rep. Oct. 1859, p. 35, f. 1-7, 1st. sp. *E. peculiaris*, Conr. 1841. Not *Eatonia*, Edgar Smith, gen. Gasterop. 1875.
- Eichwaldia**, Billings. (?) *Rhynchonellidæ*. 1858.  
Rep. Prog. Canadian Geol. Surv. p. 190. (L. Sil.) Type, p. 192, f. 24 a-e, l. c. *E. subtrigonalis*, Bill. Hall, 20th. Reg. Rep. p. 274. (Relations doubtful.) Syn. *Dictyonella*, Hall.
- Elonia**, Meek & Hayden. *Rhynchonellidæ*. 1864.  
Pal. Upper Missouri (Jurassic), p. 70, September; lapsus, pro *Eatonia*. (= *Eatonia*, Hall.)
- Enteleles**, Fischer de Waldheim. *Arthropomata*. 1830.  
Oryct. Gouv. Moscou, 1830, p. 193, t. 26, f. 6-7. Ex. *E. glabra*, Fisch. l. c. Ibid. Bull. Soc. Imp. Nat. Moscou, 1843, p. 16. Ex. *E. Phillipsi*, Fisch. (*Gen. incert.*, probably = *Spirifer*, Sby.)
- Entellites**, G. B. Sowerby. *Arthropomata*. 1842.  
Conch. Man. ed. ii, p. 144; lapsus (= *Enteleles*, Fisch.). Said by Sowerby to be a heterogeneous assembly.
- Entogyrae**, Dalman. *Arthropomata*. 1828.  
Kongl. Vet. Acad. Handl. f. 1827, p. 89. Sect. Brach. cont. *Delthyris*, *Cyrtia*, *Atrypa*.
- Epithyridæ**, Morris. *Arthropomata*. 1846.  
Quart. Journ. Geol. Soc. Lond. ii, p. 387. Division of *Terebratula* cont. sections characterized by sculpture.

- Epithyridæ**, Quenstedt. *Arthropomata*. 1871.  
 Petref. Deutschl. ii, p. 27. Subsect. *Terebratulidæ*, cont. *Terebratula*,  
*Terebratulina*, *Terebratella*, *Nucleata*, *Trigonella*, *Cincta*, *Spirigera*, *Musculus*.
- Epithyris**, Phillips. *Arthropomata*. 1841.  
 Pal. Foss. Cornwall & Devon. p. 55. No ex. cited. Diagn. insuffi-  
 cient. Genus and family indeterminable.
- Epithyris**, King. *Terebratulidæ*. 1830.  
 Perm. Foss. p. 146. pl. vi, f. 30, 45. Type *Terebratulites elongatus*,  
 Schlotheim sp. (King, l. c.), Acad. München, vi, p. 27, pl. vii, f. 7-9, 1816.  
 Not *Epithyris* Phillips. Syn. *Dielasma*, King.
- Epithyrus**, Paetel. *Arthropomata*. 1875.  
 Fam. u. Gatt. Moll. p. 77; lapsus (= *Epithyris*, Phillips).
- Eudesia**, King. *Terebratulidæ*. 1850.  
 Perm. Fos, pp. 144, 246. Type *Terebratula orbicularis*, Sow. = *T. cardium*,  
 Val. Lam. Hist. An. s. Vert. vol. vi, p. 255, 1819. (Oölitic). Dav. Mon.  
 Oölitic Brach. p. 43, pl. xii, f. 13-18. Ann. Mag. Nat. Hist. 1850, pl. xiv,  
 f. 47. Quenstedt, Petr. Deutschl. 1871, pl. 45, f. 67-71.  
 This genus, being identical with *Waldheimia*, was with-  
 drawn by Prof. King in favor of the latter name, which was  
 simultaneously published (see Perm. Foss. p. 246). Since  
*Waldheimia* is preoccupied in *Hymenoptera*, this name may  
 advantageously be revived for the genus.
- Eumetria**, Hall. *Spiriferidæ*. 1864.  
 16th Regent's Rep. pp. 54-5, 59, f. 2-3. Types *Retzia vera*, Hall, l. c. and  
*R. serpentina*, Koninck, Chenu, Man. ii, p. 216, f. 1111. (= *Acambona*,  
 White. Cf. *Retzia*.)
- Euthyris**, Quenstedt. *Spiriferidæ*. 1871.  
 Petref. Deutschl. ii, p. 444. Name proposed to replace *Athyris*, which  
 Q. regards as inappropriate. But *Seminula*, *Actinoconchus*, and *Spirigera*  
 have prior claims if *Athyris* be rejected. (= *Athyris*, McCoy.)
- Fissirostra**, D'Orbigny. *Terebratulidæ*. 1847.  
 Comptes Rendus, xxv, p. 269. Cours Élém. Pal. p. 89. (Cf. *Fissuri-*  
*rostra*, D'Orb.)
- Fissirostris**, Gray. *Terebratulidæ*. 1848.  
 Ann. Mag. Nat. Hist. ii, p. 436; lapsus (= *Fissirostra*).
- Fissurirostra**, D'Orbigny. *Terebratulidæ*. 1848.  
 Pal. Franç. Ter. Cret. iv, p. 32, t. 520. Type *F. recurva*, DeFrance sp.  
 (D'Orb. l. c.). Davidson, 1856, p. 126, t. vii, f. 6-8. D'Orb. 1850, Ann.  
 Sci. Nat. c. xiii, pp. 341, 346, (= *F. elegans* var.). (= *Trigonosemus*, König.)
- Fissuristra**, Paetel. *Terebratulidæ*. 1875.  
 Fam. u. Gatt. Moll. p. 82, as of D'Orb.; lapsus (= *Fissirostra*, D'Orb.).
- Fixivalves**, Latreille. *Invertebrata*. 1825.  
 Fam. Nat. Règne An.\* Fam. Brach. = *Fixivalvia*, Berth.

- Fixivalvia**, Berth. *Invertebrata*. 1827.  
Germ. ed. Latreille, Fam. Nat. p. 196. Fam. Brach. cont. *Orbicula*, *Crania*, *Acardo?*, *Sphærulites?*.
- Frenula**, Dall. *Terebratulidæ*. 1871.  
Am. Naturalist, March, 1871, p. 55 (diagn. err.). Type *F.* (*Megerlia*) *Jeffreysi*, Dall, Am. Journ. Conch. vii, p. 65, pl. xi, f. 7-10. (Recent.) (= *Megerlia*, King, subg. *Ismenia*, Dall, not King.)
- Fusella**, M'Coy. *Spiriferidæ*. 1844.  
Carb. Foss. Ireland, pp. 128, 132. Type *Spirifera fusiformis*, Phillips, Geol. Yorkshire, p. 217, pl. ix, f. 10-11, as of J. de C. Sowerby MS. 1836. (= *Spirifer*, Sow.)
- Glossina**, Phillips. *Lingulidæ*. 1848.  
Mem. Geol. Survey Great Britain, ii, part ii, p. 370. (No diagn.) Cites *Lingula attenuata*, Sow. Dav. Mon. Sil. Brach. p. 44, t. iii, f. 18-27, and *Lingula crumena*, Phil. l. c. p. 369, pl. xxiv, f. 1-6. Dav. Mon. Sil. Brach. p. 40, t. ii, f. 1-6. (Sil.) Section containing the trigonal paleozoic *Lingulæ*, and which will probably eventually be adopted.
- Glottidia**, Dall. *Lingulidæ*. 1870.  
Am. Journ. Conch. vi, p. 157, pl. viii, f. 1-6. (Recent.) Type *Lingula albida*, Hinds, Voy. Sulph. p. 71, pl. xix, f. 4.
- Gonambonites**, Pander. *Strophomenidæ*. 1830.  
Beitr. Geogn. Russ. Reiches, p. 77, t. iii, f. 1, xxviii, f. 15, generic diagrams. First sp. p. 77, t. xxv, f. 1, *G. lata*, Pander, l. c. (Sil.), which, according to Bronn, Ind. Pal. ii, p. 539, with *G. plana* and other of Pander's sp. is the same as "*Orthis*" *plana*, Murch. Verneuil & Keys. Geol. Russia, ii, p. 199, t. xi, f. 7, = "*Orthis*" *plana*, Quenstedt, Petr. Deutsch. 1871, p. 545, t. 55, f. 37-41, which is a *Klitambonites*. Syn. *Orthisina*, King. (= *Klitambonites*.)
- Goniclis**, Rafinesque. (*Incertæ sedis*.) 1831.  
Mon. Biv. Shells Ohio, p. 8. No ex. cited; diagn. insuff.
- Goniocoelia**, Hall. *Spiriferidæ*. 1861.  
14th Regent's Rep. p. 101, and 15th do. pl. ii, f. 17-25. Subg. *Mersstella*. (Upper Held.) Type *Atrypa uniangulata*, (Conr.) Hall, var. *uniplicata*, = *Atrypa unisulcata*, Conr., Hall, Pal. N. York, iv, p. 309. (= *Pentagonia*, Cozzens.)
- Gonotrema**, Rafinesque. (*Incertæ sedis*.) 1820.  
Ann. Sci. Phys. Bruxelles, v, p. 232, in Mon. Turbinolies de Kentucky. Short descr. No ex. cited. Ibid. Mon. Biv. Shells Ohio, p. 7. No ex. cited.
- Gotlandia**, Dall. *Trimerellidæ*. 1870.  
Am. Journ. Conch. vi, p. 160. Type *G. Lindstromi*, Dall, l. c. p. 161, = *Trimerella*, sp. Lindström, Ofv. K. Vet. Akad. Forh. f. 1867, p. 253, pl. 21. (Sil.) Provisional genus proposed on Lindström's figures, which, proving to be inaccurate, the genus was withdrawn by Dall, l. c. vii, p. 81, 1871. (= *Trimerella*, Bill.)

- Griphus**, Blainville. *Terebratulidæ*. 1828.  
 Dict. Sci. Nat. liii, p. 145, div. Terebr. = *Gryphus*, Meg.
- Gryphites**, Llhwyd. *Invertebrata*. 1699.  
 Lith. Brit. Ichn. p. 26, and other non-binomial authors. Cont. *Gryphæa*,  
 sp. et *Productus*, sp. foss.
- Gryphus**, Megerle von Muhlfield. *Terebratulidæ*. 1811.  
 Schrift. Berl. Ges. Naturf. Freunde, 1811, p. 64. Ex. *Terebratula vitrea*,  
 Lam. Davidson, 1853, pl. vi, f. 1-2. Not *Gryphus*, Brisson or Wagler.  
 (= *Terebratula*, Muller.)
- Gryphytes**, Da Costa. *Invertebrata*. 1776.  
 Elem. Conch. p. 250. Non-binomial. Cf. *Gryphites*.
- Gwynia**, King. *Terebratulidæ*. 1859.  
 Proc. Dublin Univ. Zool.-Bot. Assoc. i, p. 258, f. 1-5. Type *G. capsula*,  
 King, l. c. Reeve, Conch. Icon. x, f. 39. An immature form, perhaps  
*Waldheimia cranium* test. juv.
- Gypidia**, Dalman. *Pentameridæ*. 1828.  
 Kongl. Vet. Acad. Handl. f. 1827, pp. 93, 100. Sole ex. l. c. p. 125, t. iv,  
 f. 1, a-g. *Gypidia conchidium*, Dalman, = *Anomites c.* Wahlenberg, Act.  
 Upsala, viii, p. 67, + *Conchidium biloculare*, Linné, Mus. Tessin. p. 90, t. v,  
 f. 8. (Sil.) Murch. Vern. et Keys. Geol. Rus. Ural, ii, p. 116, t. 8, f. 2.  
 Proposed by Dalman, who considered it as partly = *Pentamerus*,  
 Sow. which he regarded as preoccupied by *Pentamera*, Dumeril, gen.  
*Coleoptera*, 1806. Why does Dav. 1856, p. 173, note, state that  
*Uncites gryphus* is included by Dalman? It does not appear in the  
 synonymy, nor do the figures seem to agree. (= *Conchidium*, Lin.)
- Gypidia**, Hall. *Pentameridæ*. 1867.  
 Notice Pal. N. York, vol. iv, p. 164, Mar. 1867. Pal. N. York, vol. iv,  
 p. 374. Type *G. conchidium*, Dalm. (= *Gypidia*, Dalm.)
- Gypidium**, Beyrich. *Pentameridæ*. 1837.  
 Beitr. zur Kenntn. Verst. Rhein. Uebergeb.\* (= *Gypidia*, Dalm.)
- Gypidula**, Hall. *Pentameridæ*. 1867.  
 Notice Pal. N. York, vol. iv, p. 163, Mar. 1867. (Dev.) Pal. N. York,  
 iv, pp. 373, 380, pl. 58 a (all), 1867. Type *Pentamerus occidentalis*,  
 Hall, Geol. Iowa, i, part ii, p. 514, pl. vi, f. 2, 1858, but not of Hall,  
 Pal. N. York, ii, p. 341, 1852.
- Hapalosia**, Agassiz. *Mollusca*. 1847.  
 Nom. Zool. Index, p. 496, = *Apalosia*, Raf. corrig. q. v.
- Helictopoda**, Gray. *Brachiopoda*. 1848.  
 Ann. Mag. Nat. Hist. ii, p. 436. Subclass Brach. cont. *Sclerobrachia*,  
*Sarcicobrachia*.

- Helmersenia**, Pander. ? *Obolida*. 1861.  
Bull. Acad. Imp. Sci. St. Petersburg, iii, p. 47, pl. ii, f. 2, a-q. Type *H. jerémejewi*, Pander, l. c. (mel. *ieremieffi*). Not seen.
- Helmintholithus**, Linné. *Invertebrata*. 1760.  
Syst. Nat. ed. xi, ii, p. 162. Subclass inv. foss. cont. Vermes foss. incl. some brachiopods.
- Hemiasterias**, Herrmannsen. (*Incertæ sedis*). 1847.  
Index Gen. Mal. i, p. 524, as of Raf. (= *Hemisterias*, R.)
- Hemiprionites**, Agassiz. *Strophomenida*. 1847.  
Nom. Zool. Index, p. 511; lapsus (= *Hemipronites*, Pand.).
- Hemipronites**, Pander. *Strophomenida*. 1830.  
Beitr. Geogn. Russ. Reiches, pp. 71, 74, t. iii, f. 14 (generic only). Section or subgenus of *Klitambonites*, fully described; first sp. p. 74, *H. tumida*, Pand. t. xviii, f. 6, a-d. (Sil.) (= *Klitambonites*, Pander.)
- The relative application of this name and the names *Strep-torhynchus*, *Leptæna*, *Strophomena*, *Plectambonites*, and *Hip-parionyx* is involved in more obscurity, and has been more variously regarded by different authors, than almost any other case of a similar nature in the annals of malacological nomenclature. This has been still further complicated by the uncertainty which still exists in regard to the internal characters of most of the species, and the different values assigned by authors to these characters when they have been made known.
- A reference to the various names above cited will disclose the views taken by several authors, and further elucidate the historical account which follows, when it may not appear sufficiently full.
- In 1848, Bronn, in the *Index Paleontologicus*, i, p. 585, refers nineteen of Pander's twenty-one nominal species to "*Orthis*" *hemipronites*, von Buch (Beitr. Best. Gebirgs-Form. Russl. 1840, p. 20), including Pander's first or typical species *H. tumida*, the specific name of which, of course, is entitled to priority without regard to its generic affiliations. If this be correct, it would certainly seem, irrespective of other considerations, as if *H. tumida* (or *hemipronites*) was entitled to be considered as Pander's type. In case the genus *Hemipronites*, as typified by *H. tumida*, be synonymous with some previously named group, there would still remain *H. alata*

and *H. globosa*, Pander, to which the name *Hemipronites* might be applied if they prove distinct from any group named before 1830; and which, under Pander's name, were thus separated as a section of *Orthis* by Bronn in 1849 (iii, p. 228). To this it may be objected that the first species is represented by an unrecognizable cast of the interior, and the second bears considerable resemblance, as far as the figure is concerned, to a species of *Porambonites*. I shall therefore consider *H. tumida* and vars. as forming the typical species.

Quenstedt (Petr. Deutschl. 1871, p. 545, t. 55, f. 32-34) has figured the interior of what he states to be this species, which he regards as one of his somewhat heterogeneous group of *Orthides*, and affiliates to *Orthisina*, D'Orb. (= *Klitambonites*). The character of this interior does not appear to differ materially from that of *Klitambonites*, but, in deciding, much will depend on the view taken by each individual paleontologist as to the value of characters which appear to vary as much within the species as do the so-called generic characters between different groups of species. According to Quenstedt's figures, the difference between *O. hemipronites* (= *tumida*, type of *Hemipronites*) and *O. anomala* (= *adscendens*, teste Quenstedt, type of *Klitambonites* and first species of *Orthisina*, D'Orb.) is merely a question of degree of breadth of area and prolongation of the median ventral septum. *O. plana* seems to be of very similar type. For present purposes, it will suffice to regard *Hemipronites* and *Orthisina* as synonyms of *Klitambonites*, leaving to paleontologists the duty of determining whether there are grounds for ultimate separation of the species which they contain.

Now Davidson and some other authors have (as it seems to the writer), with evident propriety, taken Blainville's sole species (*S. rugosa*) as the type of the genus *Strophomena*, of which Blainville alone can be considered as the author; this species is generally admitted to be the same as *S. planumbona*, Hall, figured by Meek in the Paleontology of Ohio, i, p. 74, pl. 6, f. 3 a-g, 1873, and by Davidson, 1856, t. xi, f. 37-39.

In 1843, Vanuxem (Geol. Rep. Third Distr. N. York, p. 124,



f. 4) founded his genus *Hipparionyx* on a species to which he gave the name of *proximus*, and which has been fully illustrated by Prof. Hall under the name of *Orthis hipparionyx* in Pal. N. York, vol. iii. Subsequently Prof. Hall (Sixteenth Regent's Rep. p. 65) refers to this species as an extreme form of the genus *Streptorhynchus* of King, which, if true, would reduce Prof. King's name to a synonym, since Vanuxem's genus rests on the character of its type, and its validity is not affected by the original inclusion with that type of species not congeneric.

Prof. King, in 1850 (Perm. Foss. p. 107), erected into a genus the *Terebratula pelargonata* of Schlotheim, under the name of *Streptorhynchus*. This and *O. crenistria* were for some time afterward included by Davidson in *Orthisina* (= *Klitambonites*), but have since been separated from that connection, and recognized by him as species of *Streptorhynchus*, which he adopts as a section of *Strophomena*.

In 1864, Mr. F. B. Meek (Pal. Upper Missouri, part i, p. 25) expresses the opinion that *Streptorhynchus* is not separated by any definite characters from *Hemipronites*, as he understood it (= *Strophomena*, Blainville), and with *Hipparionyx* unites the two under Pander's name, which he adopts. In 1873 (l. c.), Mr. Meek, being unaware that Rafinesque's genus *Strophomenes* had not been described prior to Blainville's description of *Strophomena*, and relying on the statement that a specimen of the *Anomites rhomboidalis* of Wahlenburg had been labelled *Strophomena rugosa* by Rafinesque himself, proposed to adopt that as the type of *Strophomena* (a name never published by Rafinesque), and to retain the typical species of Blainville and its congeners under the name of *Hemipronites*. In Pal. Ohio, ii, p. 281, Mr. Meek reiterates his opinions of 1864 and 1873. If the propositions upon which this opinion was founded, namely, that Pander's type of *Hemipronites* was a "true *Streptorhynchus* of King", and that between the latter and the Strophomenoid forms typified by *S. planumbona* there is no difference except of degree, had proved unassailable, no question would arise as to the propriety of his conclusions.

However, since 1863, numerous investigations have re-

sulted in greater knowledge of the internal arrangements of the types of these groups, and greatly modified the former method of classification of these animals, which was based chiefly on external characters. Had Mr. Meek not been prevented from extending his investigations by the melancholy and long-continued illness which terminated in his death, it is very probable that he would have reconsidered his earlier views. At all events, it is evident that certain differences exist between the above-mentioned groups, which are apparently as important as many which have formed the basis of accepted genera, although it cannot be denied that a general and rather gradual transition may be traced between the different sections of this family. These it appears better, for the sake of discrimination, to accept for the present, leaving for the future the task of thorough correlation and subordination.

The preceding is but the beginning of these complications.

In 1828, Dalman had described the genus *Leptaena* (*q. v.*) with four species (and references to others which he supposed to belong to it), which formed a heterogeneous assemblage. Of the four species from which Dalman's type must be selected, *L. euglypha*, the third, is a typical *Strophomena* (Blainville), agreeing with *S. rugosa*, Bl. (= *planumbona*, Hall), in having the dorsal (or hæmal) valve convex, while the ventral or socket valve is concave externally. The first and second, *L. rugosa*, Dalm. (= *rhomboidalis*), and *depressa*, Dalm., are, according to Mr. Davidson, mere varieties of one species. This he includes in *Strophomena*, not considering the differences by which it is distinguished from the type of the genus *Strophomena* (Blainville) to be of generic or subgeneric importance. These differences are chiefly that the relative convexity and concavity of the valves are reversed, and that certain minute differences in the form of the muscular and vascular impressions, in the grooving of the tips of the cardinal process, or of the hinge-line, have been noticed, and also some differences of form, apparently owing to the general convexity, or to the sharp geniculation of the valves in various species. The fourth species, *L. transversalis*, Dalm., exhibits differences which seemed suf-

ficient to Mr. Davidson to authorize its separation from *Strophomena* (1853, p. 108), and thus retain the name *Leptaena*, which had been so widely used in paleontological literature. This species thus became the type of the restricted genus, and the latter has very generally been adopted.

In 1830, however, Pander described his genus *Plectambonites*, in which he placed a number of species, the whole forming an assemblage apparently about equivalent to *Leptaena* or *Strophomena*, as these terms were used in their unrestricted sense by early writers. The interior of some of his species is unknown, including the first species, and there are probably both *Leptænas* and *Strophomenas* (as restricted) contained in the genus. But his first of two generic figures appears to be the dorsal valve of a species of *Strophomena* of the *rhomboidalis* type, while his *P. triangularis*, *imbrex*, and another (all vars. of one sp.), which have been examined and figured by Mr. Davidson, have the dorsal valve concave, as in *rhomboidalis*. Should therefore it be necessary (as seems improbable) to separate the genus *Strophomena* as understood by Davidson into two groups, respectively typified by *rhomboidalis* and *rugosa* (*planumbona*), Pander's name might be utilized for the former, although M'Coy has (1844) also suggested a name (*Leptagonia*) for this identical group.

*Stropheodonta* of Hall (1850, Pal. N. Y. ii) seems tolerably distinct from the above, if the total absence of any indication of a covered or open foramen, which is said to characterize it, be confirmed.

A different arrangement from that adopted by Davidson was proposed by Professor King, by which *S. rhomboidalis* was to represent *Leptaena*, and *L. transversalis* and congeners would be the exemplars of *Plectambonites*. Whatever may have been the points in favor of this arrangement, it may be said that no part of it was imperatively required by the rules of nomenclature, and, as another grouping has come into general use, which is at least equally conformable to those rules, it would be highly undesirable to inaugurate any further or unnecessary changes.

*Orthothes* of Evans (1837, q. v.) is also a synonym of

*Streptorhynchus* or *Strophomena*. At the same time that he proposed the genus *Hemipronites*, Pander also described two other genera, founded on unimportant differences in the character of the foramen, partly natural, partly accidental to the specimens. The respective lists of species were, as in the preceding cases, chiefly made up of unimportant individual variations. Of *Orthambonites*, Bronn refers eleven out of eighteen species, including the first, to *Orthis calligramma*, Dalman, while of the genus *Gonambonites*, with twenty-four species, fourteen are referred to *Orthis inflexa*, Vern., and eight, including the first, to *O. plana*, Vern. This species is figured by Quenstedt, and is a *Klitambonites* (or *Orthisina*), and it seems at least probable, from Pander's figures, that more of his species belonged there, while others will be referable to *Strophomena*, &c. *Orthambonites* must be considered a synonym of *Orthis*, at least for the present; and there does not at present appear to be anything not referable to previously named genera in *Gonambonites*.

The conclusions to which this review of the history of these names would seem to lead, may be expressed synonymically as follows:

Genus STROPHOMENA, Blainville.

- a. *Strophomena (rugosa)*, Bl., 1825, Dav. 1853.  
*Hemipronites (planumbona)*, Meek, 1873.  
*Leptaena (euglypha)*, Dalman, 1828.
- b. *Hipparionyx (proximus)*, Vanuxem, 1843.  
*Orthotheses (? crenistria)*, Phil. Evans, MSS. 1837?, Fischer, 1850.  
*Streptorhynchus (pelargonatus)*, Schl., King, 1850.
- bb. *Plectambonites (rhomboidalis?)*, Pander, 1830.  
*Strophomena (rhomboidalis)*, Wahl., Meek, 1873.  
*Leptaena (rhomboidalis)*, Dalman, 1828.  
*Leptaena (rhomboidalis)*, Wahl., King, 1846.  
*Leptagonia (analoga)*, Phil., M'Coy, 1844.
- c. *Leptaena (transversalis)*, Dalman, 1828, Dav. 1853.  
*Plectambonites (transversa)*, King, 1850.
- d. *Stropheodonta (demissa)*, Conr., Hall, 1850.

Genus KLITAMBONITES, Pander.

- a. *Klitambonites (adscendens)*, Pander, 1830.  
*Pronites (adscendens)*, Pander, 1830.  
*Hemipronites (tumida)*, Pander, 1830.  
*Gonambonites (plana)*, Pander, 1830.  
*Orthisina (anomala)*, D'Orbigny, 1847.

Genus ORTHIS, Dalman.

- a. *Orthis (calligramma)*, Dalman, 1828.  
*Orthambonites (calligramma)*, Pander, 1830.  
*Schizophoria (striatula)*, King, 1850.

- Hemipronites**, Meek. *Strophomenidæ*. 1873.  
 Pal. Ohio, i, p. 74. Subg. *Strophomena*. Type *S. planumbona*, Hall, Dav. 1856, pl. xi, f. 37-39. (= *Strophomena*, Bl.)
- Hemisterias**, Rafinesque. (*Incertæ sedis*). 1832.  
 Atlantic Journal, iv, p. 142, cut. *H. quadriloba*, Raf. l. c. sole ex. (Referred by Herrm. to the Brach.)
- Hemithiris**, D'Orbigny. *Rhynchonellidæ*. 1847.  
 Comptes Rendus, xxv, p. 268. No ex. cited. Ann. Sci. Nat. viii, p. 246; xiii, p. 322, 1850. Type *Rhynchonella psittacea*, Gmel. sp. Dav. 1856, pl. x, f. 8, 9, 10, 15, 16, 23. Syn. *Hypothyris*, Fbs. & Hanl.
- Hemithyris**, Bronn. *Rhynchonellidæ*. 1848.  
 Jahrb. Min. p. 246. (= *Hemithiris*, D'Orb. corrig.)
- Heterogangliata**, Owen. *Invertebrata*. 1835.  
 Lect. on Comp. Anatomy (ed. 1843, p. 13). Name proposed by Owen for the subkingdom of *Mollusca*, and erroneously considered by Paetel to be equivalent to the class Brachiopoda. (= *Mollusca*, Cuv.)
- Hipparionyx**, Vanuxem. *Strophomenidæ*. 1842.  
 Geol. Rep. Third District N. York, p. 124, f. 4. (Dev.) Type *H. proximus*, Van. l. c. = *Orthis hipparionix*, Dav. Mon. Dev. Brach. p. 90. Hall, 16th Reg. Rep. p. 65, f. 6. Ibid. Pal. N. York, iii, p. 407, pl. 89, f. 1-4; pl. 90, f. 1-7; pl. 91, f. 4, 5; pl. 94, f. 5, 1859. Some sp. of *Atrypa* were included in Vanuxem's list. Syn. *Streptorhynchus*, King.
- Hipponyx**, Morris. *Gasteropoda*. 1843.  
 Brit. Foss. p. 121. Gen. gast., sp. ad Brach. ref. Morris in err.
- Histerolithus**, Auctt. (*Incertæ sedis*).  
 Cf. *Hysterolithus*.
- Hinniphoria**, Bronn. ? *Terebratulidæ*. 1862.  
 BRONN, Klass. u. Ordn. Thierr. 1ste Abth. p. 309, 1862, in list. (Jura.) (Cf. *Hynniphoria*, Suess.)
- Hynniphoria**, Suess. ? *Terebratulidæ*. 1858.  
 Beitr. Paleont. Oesterr. von Hauer, Bd. i, Heft 2, p. 44, t. v, f. 4-8. Type *H. globularis*, Suess. l. c. (I have not access to this work.)  
 The relations of this genus appear doubtful.
- Hynniphoria**, Quenstedt. *Terebratulidæ*. 1871.  
 Petref. Deutschl. ii, p. 403, as of Suess. Ex. *Terebratula cubica*, Quenstedt, l. c. atlas, pl. 49, f. 90, 91.
- Hypodema**, Koninck. *Coelenterata*. 1852.  
 Notice sur les gen. Hypodema, &c. p. 12, pl. ii, f. 1-3, a-d. (Carb.) Type *Calceola Dumontana*, Kon. (1843), l. c.
- Hypothyridæ**, Morris. *Arthropomata*. 1846.  
 Quart. Journ. Geol. Soc. Lond. ii, p. 387. Division *Terebratulidæ* cont. sections characterized by their sculpture or form.

- Hypothyridæ**, King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Isorhynchus*, *Hypothyris*, *Camerophoria*, *Uncites*, *Pentamerus*.
- Hypothyridæ**, Quenstedt. *Arthropomata*. 1871.  
Petref. Deutschl. ii, p. 27. Subsect. *Terebratulidæ* cont. *Rhynchonella*, *Camerophoria*, *Camarella*, *Atrypa*, *Pentamerus*, *Uncites*, *Strigocephalus*, *Pectunculus*.
- Hypothyris**, Phillips. ? *Rhynchonellidæ*. 1841.  
Pal. Fos. Cornwall & Devon. p. 55. "Beak acute; perforation below it;" only diagnosis; no ex. cited and the name not used in the specific descriptions.
- Hypothyris**, King. *Rhynchonellidæ*. 1846.  
Ann. Mag. Nat. Hist. xviii, p. 28. First sp. *H. cuboides*, Sow. sp. Geol. Trans. v, p. 704, t. 56, f. 17. Dav. Mon. Dev. Brach. p. 65, t. xiii, f. 17-21. (= *Rhynchonella*, Fisch.)
- Hypothyris**, Forbes and Hanley. *Rhynchonellidæ*. 1853.  
Brit. Moll. ii, p. 346. Sole ex. *Anomia psittacea*, Gmel. S. N. i, F. & H. l. c. pl. lvii, f. 1-3. (= *Hemithiris*, D'Orb.)
- Hysterolites**, Schlotheim. (*Incertæ sedis*.) 1820.  
Petref. p. 247, pl. xvi-xviii. Subsect. *Terebratulites* cont. spinose fossil brachiopods. (Cf. *Hysterolithus*.)
- Hysterolithes**, Link. (*Incertæ sedis*.) 1809.  
Beschr. Rostock, Samml. iv, p. 29. (Cf. *Hysterolithus*.)
- Hysterolithos**, Grew. (*Incertæ sedis*.) 1681.  
Mus. Soc. Reg. p. 258. Non-binomial. (Cf. *Hysterolithus*.)
- Hysterolithus**, Aldrovandus. (*Incertæ sedis*.) 1648.  
Mus. met. p. 597. Non-binomial. Followed by Walch, Waller, Schröter, and other non-binomial authors. Included globose, spinose fossil bivalves, *Spondyli*, *Producti*, et cetera.
- Hysterolithus**, Quenstedt. *Spiriferidæ*. 1871.  
Petref. Deutschl. ii, p. 27, 472-4, genus *Productidæ*. Type *Spirifer ostiolatus*, Schloth. sp. Quenst. l. c. atlas, pl. 52, f. 1-7, 12-13, = *Hysterolites hystericus*, Schloth. Petr. 1820, p. 249, pl. 29, f. 1. (= *Spirifer*, Sow.)
- Hysteropetra**, Cardan. (*Incertæ sedis*.) 1554.  
De subtil. lib. vii, p. 222. Non-binomial. (Cf. *Hysterolithus*, Aldr.)
- Inæquivalves**, Latreille. *Arthropomata*. 1825.  
Fam. Nat. Règne An.\* (Fam. Brach. = *Inæquivalvia*, Berth.)
- Inæquivalvia**, Berth. *Arthropomata*. 1827.  
Germ. ed. Latreille, Fam. Nat. p. 196. Fam. Brach. cont. gen. *Terebratula*, senso magno.
- Inarticulata**, Huxley. *Brachiopoda*. 1864.  
Lect. Class. An.\* Intr. Class. An. 1869, p. 116. Ord. cont. Brach. inarticulata. (= *Lyopomata*, Owen.)

- Iphidea**, Billings. *Arthropomata?* 1874.  
 Pal. Fos. Canada, ii, pt. i, (Aug.) p. 76, f. 44. Type *I. bella*, Billings, l. c. (Sil.) Interior unknown.  
 Allocated to *Kutorgina* and *Acrotreta* by Billings; but the figure resembles a small valve of *Klitambonites anomala* (*Orthisina anomala*, Dav. 1856, f. 21), Schlotheim.
- Isilia**, Rafinesque. *Arthropomata*. 1831.  
 Mon. Biv. Shells Ohio, p. 7. Sect. Terebrariorum cont. *Terebratula*, *Spinifer*, *Gonotrema*, *Amblotrema*.
- Ismenia**, King. *Terebratulidæ*. 1850.  
 Perm. Foss. pp. 81, 142 (not p. 245). Type *Terebratulites pectunculus*, Schlotheim, Quenst. Handb. Petr. p. 466, pl. 37, f. 23-25. Ibid. Gray, B. M. Cat. p. 104. (= *Megerlia*.)
- Ismenia**, King (2). *Terebratulidæ*. 1850.  
 Perm. Foss. p. 245, (not pp. 81, 142). Type *Terebratulites pectunculoides*, Schlotheim, Quenst. Handb. Petr. p. 464, pl. 37, f. 15-18. (Not of Gray nor of King, p. 142.) (= *Terebratella*, D'Orb.)
- Ismenia**, Dall. *Terebratulidæ*. 1871.  
 Am. Journ. Conch. vii, p. 6. Subg. *Megerlia*, King. Type *Terebratula sanguinea*, Sow. Thes. Conchyl. i, p. 357, pl. 71, f. 71-73. (= *Ismenia*, Gray; King, p. 142; + *Frenula*, Dall.)
- Isorhynchus**, King. *Porambonitidæ*. 1850.  
 Perm. Foss. p. 112. Type *Terebratulites æquirostris*, Schl. Verneuil, Geol. Rus. ii, pl. iii, f. i. Cf. Dav. 1853, p. 99, t. vii, f. 120-126. (= *Porambonites*, Pand.)
- Keyserlingia**, Pander. *Obolidæ?* 1861.  
 Bull. Imp. Acad. Sci. St. Petersburg, iii, p. 46, pl. ii, f. 1 a-g. Type *Orbicula reversa*, Verneuil, Pander, l. c. Not seen. (Cf. *Obolella*.)
- Kingena**, Davidson. *Terebratulidæ*. 1852.  
 Mon. Brit. Cret. Brach. p. 42, t. iv, f. 15-28, t. v, f. 1-4. Type *Terebratula lima*, Defrance, Dict. Sci. Nat. liii, p. 155, 1828. Davidson, l. c. subg. *Terebratella*.
- Klitambonites**, Pander. *Strophomenidæ*. 1830.  
 Beitr. Geogn. Russ. Reiches, p. 70, t. iii, f. 14, t. xxviii, f. 16, 17. First sp. *Pronites adscendens*, Pander, p. 72, pl. xvii, f. 6, Dav. 1856, pl. xi, f. 24, 26 (+ *P. alta*, P. l. c. f. 5, = var. præc. teste Murchison; Chenu, Man. ii, p. 223, f. 1147, 1862). Sil.  
 (Syn. *Pronites*, Pander, not Illiger; *Gonambonites*, Pander, *Orthisina*, D'Orb.)  
 Genus fully described and all the species divided between the subgenera *Pronites* and *Hemipronites* (q. v.). The figures cited are given as generic merely. The first sp. of *Pronites* (*adscendens*, P.) must be taken as the type of the genus, especially as *Pronites* is preoccupied by Illiger for a

genus of birds, and also because one of the subgenera must be left by the rules of nomenclature to contain the typical species, and therefore *Pronites* would necessarily lapse even if it were not pre-occupied.

**Koninckia**, Woodward. *Atrypidæ*. 1854?

Man. Rec. & Foss. Shells, p. 231, f. 145; Bronn, Thierr. iii, i, 302, 1862. Type *Producta Leonhardi*, Wissm.; lapsus, = *Koninckina*, Suess.

**Koninckina**, Suess. *Atrypidæ*. 1853.

Davidson, 1853, p. 92. Type *Producta Leonhardi*, Wissm. Dav. l. c. pl. viii, f. 194-198. (Trias.)

**Koninckinidæ**, Davidson. *Arthropomata*. 1853.

Intr. p. 51. Fam. Brach. cont. *Koninckina*.

**Kortugina**, Davidson. *Obolidæ*. 1871.

Mon. Sil. Brach. expl. pl. l. lapsus, = *Kutorgina*, Bill.

**Kraussia**, Davidson. *Terebratulidæ*. 1852.

Ann. Mag. Nat. Hist. ix, p. 369. Type *K. rubra*, Dav. l. c. = *Anomia rubra*, Pallas, Mis. Zool. pl. xiv, f. 2, 11, 1766. Reeve, Conch. Icon. ix, f. 37, a-c. Not *Kraussia*, Dana, 1852, gen. crustac. (= *Kraussina* Dav.)

**Kraussina**, Davidson. *Terebratulidæ*. 1859.

Sitzungsb. K. Ak. Wiss. Wien, Bd. 37, p. 210, and Annals Mag. Nat. Hist. 1861, p. 39. Proposed for *Kraussia*, Dav. præoc. by Dana in Crustacea.

**Kraussinina**, Paetel. *Terebratulidæ*. 1875.

Fam. u. Gatt. Moll. p. 104, lapsus, = *Kraussina*, Dav.

**Kraussininae**, Dall. *Terebratulidæ*. 1870.

Am. Journ. Conch. vi, p. 100. Subfam. *Terebratulidæ* cont. *Kraussina*, *Bouchardia*.

**Kriopen**, Oken. *Brachiopoda*. 1815.

Zool. vii, p. 249. Fam. Brach. cont. *Terebratula*, *Acardo*?, *Orbicula*, *Lingula*.

**Kutorgina**, Billings. (*Incertæ sedis*). 1861.

Paleoz. Foss. Can. Geol. Survey, i, p. 8, f. 9 (not 8 and 10). Type *Obolella cingulata*, Bill. Sil. (advance sheets Nov. 1861, l. c.). Subg. *Obolella*, Bill. l. c.

Billings's subgenus was established on the internal casts of which fig. 9 is a representation. See note on p. 9, l. c. It is very doubtful if it belongs to the *Obolidæ* at all. The valves (figures 8 and 10) therewith delineated are evidently not related to *Obolella*, as already pointed out by Davidson (Mon. Sil. Brach., p. 342, app.); and seem to belong not only to another species, from the internal cast figured by Bil-



lings, but also to a different generic group. Whether this be identical with a described genus, or whether it is still uncharacterized, is doubtful, and cannot be decided until the interior is known. Such valves have been identified with *Obolella Phillipsi*, Holl (Quart. Journ. Geol. Soc. xxi, p. 101-2, f. 10 a-b, 1864, by Messrs. Holl and Davidson (l. c.), which has been figured by Davidson (Mon. Sil. Brach., pp. 62, 342, pl. iv, f. 17-19, 1866, and pl. 1, f. 25, 1870). Mr. Whitfield, who kindly called the writer's attention to the dissimilarities between Billings's figures, is of the opinion that *O. Phillipsi* belongs to an undescribed generic group.

**Lampas**, Meuschen. *Arthropomata*. 1787.

Mus. Gev. p. 438. Non-binomial. (Cf. *Lampas*, Humph.)

**Lampas**, (Humphrey) Anonymous. *Arthropomata*. 1797.

Mus. Calonn. p. 45 (May). No diagnosis or references. First sp. *Anomia terebratula*, Lin. Other sp. are *Rhynchonella*, *Megerlia*, &c. (= *Terebratula*, Müller.)

**Lampus**, Sowerby. *Arthropomata*. 1842.

Conch. Man. ed. ii, p. 169, lapsus, = *Lampas*, Humphr.

**Laqueus**, Dall. *Terebratulidæ*. 1870.

Am. Journ. Conch. vi, p. 123, subg. *Terebratella*. Type *Terebratula californica*, Koch, Dall, l. c. pl. vii, fig. f, pl. viii, fig. 9-10.

**Leiorhynchus**, Hall. *Rhynchonellidæ*.  $\frac{1860.}{1861?}$

13th Regent's Rep. p. 75. Types *Atrypa quadricostata*, Hall, l. c. p. 86, & Rep. Fourth Distr. N. York, p. 223, f. 2; and *Atrypa mesacostalis*, Hall, l. c. p. 86 (Chem.) & Note on Foss. Chemung Group, p. 64, f. 1 a-b. Not *Liorhynchus*, Rud. gen. Coleopt. (Cf. *Meristella*, Hall, 1862, not 1861.)

**Leptaena**, Dalman. *Strophomenidæ*. 1828.

Kongl. Vet. Acad. Handl. 1827, pp. 93, 94. First sp. p. 106, *Producta rugosa*, Hisinger, Act. Holmiæ, 1826, p. 333. Dalman, l. c. pl. i, f. 1, = *Anomites rhomboidalis*, Wahl. Act. Upsal. viii, p. 65. (This and *L. depressa*, Dalman, second sp. p. 107, t. i, f. 2, + *L. euglypha*, Dalman, third sp. l. c. p. 108, t. i, f. 3, a-b; Hisinger sp. Bidr. Sver. Geogn. t. vi, p. 4, —are true *Strophomenas* fide Davidson.) Fourth sp. l. c. p. 109, t. i, f. 4 a-d. *L. transversalis*, Dalman, is taken by Davidson as type, 1853, pl. viii, f. 176-180; 1856, pl. xii, f. 1-5.

**Leptaena**, M'Coy. *Productidæ*. 1844.

Carb. Foss. Ireland, pp. 105, 118. First sp. *L. convoluta*, Phillips, Pal. Foss. Cornwall & Devon, p. 57, pl. 24, f. 96. In the diagnosis, however, *L. lata*, von Buch, (= *Chonetes striatella*, Koninck, Mon. *Chonetes*, p. 200, pl. xx, f. 5 a-g), is mentioned in a way to indicate it as M'Coy's type. (= *Chonetes*, Fisch.)

- Leptaena, King.** *Strophomenidæ.* 1846.  
Ann. Mag. Nat. Hist. xviii, pp. 28, 36. 1st sp. *L. rugosa*, Dalm. (= *rhomboidalis*). Ibid. Perm. Foss. 1850, p. 81, 104, same type, and adds *L. analoga*, Phillips, as also typical, = *Leptaena*, Dalman, pars, not Dav. = *Strophomena*, Davidson pars. (= *Plectambonites*, Pander.)
- Leptaena, Davidson.** *Strophomenidæ.* 1853.  
Intr. p. 108. Type *L. transversalis*, Dalm. pl. viii, f. 176-180. Ibid. 1856, p. 205, same type, pl. xii, f. 1-5. Syn. *Plectambonites*, King; not *Leptaena*, King.
- Leptaenacea, F. Braun.** *Arthropomata.* 1840.  
Bayr. Petref. p. 45. Fam. Brach. cont. *Leptaena*.
- Leptaenalosia, King.** *Productidæ.* 1845.  
Murch. Verneuil & Keys. Geol. Rus. Ural, ii, p. 281. (King, olim.) (= *Strophalosia*, King.)
- Leptagonia, McCoy.** *Strophomenidæ.* 1844.  
Carb. Foss. Ireland, p. 116, f. 11-13. First sp., also mentioned in diagnosis, *Producta analoga*, Phillips, Geol. Yorkshire, 1836, p. 215, pl. vii, f. 10. McCoy, l. c. p. 117, f. 13. (= *Plectambonites*, Pand.)
- Leptobolus, Hall.** *Obolidæ.* 1871.  
24th Regent's Rep. p. 226, pl. vii, f. 19-20. Oct. (Hudson R. group). Type *L. lepis*, Hall, l. c. Ibid. Hall & Whitfield, Ohio Pal. ii, p. 69, 1875. (See *Aulonotreta*, Kutorga.)
- Leptobulus, Hall.** *Obolidæ.* 1871.  
24th Regent's Rep. p. 226, passim, lapsus, = *Leptobolus*. Ibid. U. P. James, Cat. Foss. Cincin. 1875.
- Leptocoelia, Hall.** *Atrypidæ.* 1857.  
10th Regent's Rep. p. 107. No diagn. First sp. *L. concava*, Hall, Pal. N. York, iii, pl. 38, f. 1-7. (Group heterogeneous.)
- Leptocoelia, Hall.** *Terebratulidæ?* 1859.  
12th Regent's Rep. pp. 32-3, f. 1, 2, 4. First figure, *L. flabellites*, Hall, l. c. (Comp. *Tropidoleptus*, *Centronella*.)  
After excluding the *L. concava* (*Coelospira*, Hall), this group appears to belong to the *Terebratulidæ*. It is true that the shell-structure appears to be fibrous, which, if normal, would remove it from this family as generally defined, although the cases of *Rhynchopora* and *Syringothyris* warn the student that too much confidence is not to be placed in the family value of this character, and that there is a possibility of metamorphism rendering the punctuation imperceptible, so as to deceive the most eminent and careful observers. The character of the loop, if correctly interpreted and figured, is certainly very similar to that of the *Terebratulidæ*, where it seems best to leave it until more is known.

- Leptogonia**, Agassiz. *Strophomenida*. 1847.  
Nom. Zool. Index, p. 593, lapsus, = *Leptagonia*, M'Coy.
- Les Acardes**, Desmoulins. *Invertebrata*. 1826  
Bull. Hist. Nat. Soc. Lin. de Bordeaux, i, p. 241. Fam. incl. *Sphæru-  
lites*, *Hippurites*, *Calceola*. Not of Rang.
- Les Cranies**, Ferussac. *Brachiopoda*. 1819  
Tabl. Syst. p. xxxviii. Fam. Brach. cont. *Orbicula*, *Crania*, *Thecidea*.
- Les Cranies**, Rang. *Lyopomata*. 1829.  
Man. Moll. p. 262. Fam. Brach. cont. *Crania*, *Orbicula*, *Discina*.
- Les Lingules**, Ferussac. *Lyopomata*. 1819.  
Tabl. Syst. p. xxxviii. Fam. Brach. cont. *Lingula*. Ibid. Rang, Man.  
Moll. p. 257, 1829.
- Les Orbicules**, Cuvier. *Lyopomata*. 1798.  
Leçons d'Anat. Comp. i, p. 5. Fam. Brach. cont. *Crania*, *Orbicula*.
- Les Ostracées**, Lamarck. *Invertebrata*. 1809.  
Phil. Zool. (ed. 1830, p. 317). Fam. incl., among other things, *Crania*.
- Les Terebratules**, Ferussac. *Arthropomata*. 1819.  
Tabl. Syst. p. xxxviii. Fam. Brach. cont. *Terebratula*, *Magas*.
- Les Terebratules**, Rang. *Invertebrata*. 1829.  
Man. Moll. p. 258. Fam. cont. *Terebratula*, *Pentastère*, *Strygocephale*,  
*Spirifère*, *Magas*, *Strophonema*, *Thecidea*, *Calceola*.
- Libera**, Fleming. *Arthropomata*. 1828.  
Brit. An. pp. 225, 367. Fam. Brach. cont. *Pentamerus*, *Productus*. Not  
*Libera*, De Haan.
- Ligula**, Cuvier. *Lingulida*. 1798.  
Tabl. Élé. p. 435 (not p. 634). Sole ex. *L. unguis*, L., lapsus, = *Lin-  
gula*, Brug. In index and text, passim, "*Lingule*". Not *Ligula*, Cuvier,  
p. 634; Humphrey; Montague, &c. (= *Lingula*, Brug.)
- Ligularius**, Dumeril. *Lingulida*. 1806.  
Zool. Anal. p. 170; from *Ligula*, Cuvier. Dumeril had a mania for  
terminating all names in *arius*. (= *Lingula*, Brug.)
- Lingula**, Brugiere. *Lingulida*. 1792.  
Enc. Méth. i, pl. 250. No diagnosis or specific name cited. The fig-  
ure resembles *L. anatina*. Ib. Lam. Prodrôme, 1799, p. 89. Sole ex. *Pa-  
tella unguis*, Lin. = *L. anatina*, Lam. Dav. 1856, p. 243, pl. xiv, f. 24-31.  
Syn. *Pharetra*, Bolten, 1798.
- Lingulacea**, Blainville. *Invertebrata*. 1818.  
Dict. Sci. Naturelles, x, table, olim. Fam. Brach. cont. *Lingula*, *Ter-  
ebratula*, *Orbicula*, *Sphæru-lites*?
- Lingulacea**, Menke. *Lyopomata*. 1830.  
Syn. Mus. Menkeanum, ed. ii, p. 95. Fam. Brach. cont. *Lingula*. = *Lin-  
gulida*, Gray.

- Lingulaceæ**, Menke. *Lyopomata*. 1828.  
Syn. Mus. Menkeanum, ed. i, p. 56. Fam. Brach. cont. *Lingula*. Adt. Hinds, Voy. Sulph. Zool. p. 71.
- Linguladæ**, "Bromh." Gray. *Lyopomata*. 1838.  
Charlesworth's Mag. ii, p. 418. P. Z. S. 1847, p. 202. Fam. Brach. cont. *Lingula*.
- Lingulæ**, Eichwald. *Brachiopoda*. 1829.  
Zool. Spec. i, p. 272. Tribe cont. *Lingula*, *Crania*, *Orbicula*, *Terebratula*, *Obolus*.
- Lingulæ**, Deshayes. *Lyopomata*. 1830.  
Enc. Méth. iii, p. 553, tabl. Fam. Brach. cont. *Lingula*.
- Lingularia**, Rafinesque. *Lyopomata*. 1831.  
Mon. Biv. Shells Ohio, Suppl. p. 7. Fam. Brach. cont. *Lingula*. (= *Lingulidæ*, Gray.)
- Lingularius**, (Dumeril?) Herrmannsen. *Lingulidæ*. 1806.  
Zool. Anal. p. 168, fide Herrm. (= *Lingula*, Brug.)
- Lingulella**, Salter. *Lingulidæ*. 1866.  
Mem. Geol. Survey Great Brit. iii, p. 333, 1866. (Sil.) Type *L. Davisii*, M'Coy. (Salter, l. c. t. ii, f. 7-12; t. iv, f. 14.) Ann. Mag. Nat. Hist. 2d ser. viii, p. 105. Davidson, Mon. Sil. Brach. p. 56, pl. iv, f. 1-16.
- Lingulepis**, Hall. *Lingulidæ*. 1863.  
16th Regent's Rep. p. 129, pl. vi, f. 15-16. Sole ex. *L. pinnæformis*, Hall, l. c. (Sil.) = *Lingula p.* Owen, Geol. Rep. Wis., Iowa and Minn., p. 583, pl. 1 B, f. 468.
- Lingulidæ**, Gray. *Lyopomata*. 1840.  
Syn. Brit. Mus. i, p. 155. Fam. Brach. cont. *Lingula*. Id. 1848, Ann. Mag. Nat. Hist. ii, p. 439.
- Lingulidæ**, D'Orbigny. *Lyopomata*. 1849.  
Cours Élém. Pal. p. 80. Fam. Brach. cont. *Lingula*, *Obolus*. Id. Davidson, 1853, p. 51, and 1856, p. 90.
- Lingulidæ**, Dall. *Lyopomata*. 1870.  
Am. Journ. Conch. vi, p. 100. Fam. Brach. cont. subf. *Lingulinae*, *Obolineæ*.
- Lingulina**, Agassiz. *Lyopomata*. 1847.  
Nom. Zool. Index, p. 610. = *Lingulidæ*, Gray, emend., not of D'Orbigny.
- Lingulina**, Giebel. *Lyopomata*. 1846.  
Palæoz. Faun. p. 122. Fam. Brach. cont. *Lingula*, *Crania*.
- Lingulinae**, Dall. *Lingulidæ*. 1870.  
Am. Journ. Conch. vi, p. 100. Subf. Brach. cont. *Lingula*, *Glottidia*, *Lingulella*, *Trimerella*, *Lingulepis*.

- Lingulops**, Hall. *Trimerelliæ*. 1871.  
23d Regent's Rep. 1873, p. 245, pl. 13, f. 1-2. (Extras, Mar. 1871, fide Hall.) Sil. Type *L. Whitfieldi*, Hall, l. c. Id. Davids. & King. Quart. Journ. Geol. Soc. London, 1874, p. 164, pl. xix, f. 9 a, p. 165, f. 3.
- Lyopomata**, Owen. *Brachiopoda*. 1858.  
Encyc. Brit. ed. viii, xv, art. Mollusca, p. 339. Order cont. the inarticulate brachiopods.
- Lyra**, Cumberland. *Terebratulidæ*. 1816.  
Not formally proposed, but referred to by Sowerby in Min. Conch. 1816, t. 138, f. 4-5 (Germ. ed. p. 188). Type *L. Meadii*, Cumb. MSS. = *Terebratula lyra*, Sby. l. c. Dav. 1856, pl. vii, f. 22-24. Subg. *Terebratella*. Syn. *Trigonosemus* sp. König; *Terebrirostra*, D'Orb. Not *Lyra*, Linné, Griffiths.
- Macandrevia**, King. *Terebratulidæ*. 1859.  
Proc. Dublin Univ. Zool.-Bot. Assoc. i, p. 261. Type *Terebratula cranium*, Mull. Prodr. Zool. Danica, p. 209, 1776. (Recent.) Rve. Conch. Icon. iii, f. 6. Founded on a broken specimen. Not *Macandrevia*, Gray, 1860, gen. *Porifera*. (= *Eudesia*, King.)
- Macrilia**, Rafinesque. *Brachiopoda*. 1831.  
Mon. Biv. Shells Ohio, p. 7. Sect. Terebrar..cont. *Diclisma*, *Apleurotis*, *Trigorima*, *Magas*, *Obovites*.
- Magas**, Sowerby. *Terebratulidæ*. 1816.  
Min. Conch. ii, p. 39. Sole ex. *M. pumila*, Sow. l. c. t. 119, f. 1-5. (Cret.) Gray, B. M. Cat. p. 99, f. 9-10.
- Magasella**, Dall. *Terebratulidæ*. 1870.  
Am. Journ. Conch. vi, p. 134. Type *M. evansi*, Dav. P. Z. S. London, 1852, p. 77, pl. xiv, f. 7-9. Subg. *Terebratella*, D'Orb. (Recent.)
- Magasidæ**, D'Orbigny. *Terebratulidæ*. 1847.  
Comptes Rendus, xxv, p. 268. Fam. Brach. cont. *Magas*, *Terebratulina*.
- Magasidæ**, King. *Terebratulidæ*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Magas*, *Bouchardia*.
- Magasina**, Gray. *Terebratulidæ*. 1853.  
Brit. Mus. Cat. Brach. p. 85. Tribe Brach. cont. *Terebratella?*, *Trigonosemus*, *Magas*, *Bouchardia*, *Waltonia?*, *Morrisia*, *Megerlia*, *Kraussia*.
- Magasinæ**, H. and A. Adams. *Terebratulidæ*. 1858.  
Genera Rec. Moll. ii, p. 576. Subfam. cont. *Terebratella*, *Magas*, *Bouchardia*, *Kraussia*, *Megerlia*, *Morrisia*.
- Magasinæ**, Dall. *Terebratulidæ*. 1870.  
Am. Journ. Conch. vi, p. 99. Subfam. Brach. cont. *Terebratella*, *Megerlia*, *Magas*, *Ismenia*, *Magasella*.
- Majas**, Keferstein. *Terebratulidæ*. 1829.  
Zeitung Geogn. p. 81; lapsus, = *Magas*, Sow. (Cret.)

- Mannia**, Dewalque. *Terebratulidæ*. 1874.  
Davidson, Tert. Brach. Belgium, Geol. Mag. Decade ii, vol. i, no. 4, pl. vii, f. 10-13. (Tert.) April. Type *M. Nysti*, Dew. MS. l. c. and in Prodr. Descr. Géol. Belgique, 1868. No special diagnosis. Gen. incert. (? = *Magas*, Sow.)
- Martinia**, M'Coy. *Spiriferidæ*. 1844.  
Carb. Foss. Ireland, p. 128, f. 18; p. 139, f. 32. First sp. *Spirifera decora*, Phillips, Geol. Yorkshire, p. 219, pl. x, f. 9. King, Perm. Foss. 1850, p. 134, cites the above; on p. 81, cites *M. glabra*, M'Coy. Syn. *Ambocoelia*, Hall.
- Meekella**, White and St. John. *Strophomenidæ*. 1870.  
Trans. Chicago Acad. Sci. i, p. 120, f. 4-6. Type *Plicatula striatocostata*, Cox, = *Orthisina missouriensis*, Swallow, W. and St. J. l. c. (Dev.) (Comp. *Streptorhynchus*.)
- Meganteris**, Suess. *Terebratulidæ*. 1856.  
Sitz. K. Ak. Wiss. Wien, Klasse Math. xviii, p. 51 (Dev.), t. i, f. 1-5, 16, t. iii, f. 3 a-b. Type *M. Archiaci*, Suess, l. c. Not *Meganteris* (sp.), Hall.
- Megarima**, Deshayes. *Brachiopoda*. 1832.  
Enc. Méth. iii, p. 421; lapsus, = *Megorima*, Raf.
- Megarites**, Rafinesque. *Brachiopoda*. 1831.  
Mon. Biv. Shells Ohio, p. 8. No ex. cited. Gen. incert.
- Megas**, Isensee. *Terebratulidæ*. 1833.  
Elem. Geogn. pp. 37, 44, 46, 51; lapsus, = *Magas*, Sow.
- Megathiris**, D'Orbigny. *Terebratulidæ*. 1847.  
Comptes Rendus, xxv, pp. 193, 269. No ex. cited. Pal. Franç. Terr. Cret. iv, p. 365. Ann. Sci. Nat. viii, 252. Type *Anomia detruncata*, = *A. decollata*, Chemnitz, Conchyl. Cab. viii, p. 96, t. 78, f. 705. Davidson, 1856, pl. vii, f. 35-38. (Recent.) (Mel. *Megathyris*.) Syn. *Argiope*, Desl. not Savigny.
- Megathyrinæ**, Dall. *Terebratulidæ*. 1870.  
Am. Journ. Conch. vi, p. 100. Subfam. Brach. cont. *Megathyris*, *Cistella*.
- Megathyris**, Bronn. *Terebratulidæ*. 1848.  
Jahrb. für Min. p. 244. = *Megathiris*, D'Orb. corrig.
- Megerlea**, Davidson. *Terebratulidæ*. 1856.  
Intr. p. 129. (= *Megerlia*, King, not Rob. Des.)
- Megerlia**, King. *Terebratulidæ*. 1850.  
Perm. Foss. pp. 81, 145. Type *Anomia truncata*, Lin. Reeve, Conch. Icon. xi, f. 47, a-c. (Recent.) Preoccupied by a bad genus of Diptera, Robineau Desvoidy, Essai sur les Myodaires, 1830.
- Megorima**, Rafinesque. *Brachiopoda*. 1818.  
Am. Monthly Mag. iv, p. 107; name only. Journ. de Phys. t. 88, p. 427, 1819. First sp. *M. lævis*, Raf. not described. Menke, Syn. p. 96, 1830; name only. Genus incert.

**Mentzelia**, Quenstedt.*Spiriferida*. 1871.

Petref. Deutschl. ii, p. 522; Atlas, pl. 54, f. 58-61. Type *Spirifer medianus*, Quenst. l. c. Handb. Petr. 1851, p. 482, t. 38, f. 33. (Lias.)

**Merista**, Suess.*Spiriferida*. 1851.

Jahrb. K. K. Geol. Reichs. ii, part iv, pp. 150, 160. Type *M. herculea*, Barrande, Brach. Sil. Bohm. t. 14, f. 1, (Sil.); fide Dav. 1856, pl. ix, f. 32-35. Chenu, Man. ii, p. 217, f. 1112, 1862.

Davidson, 1856, includes *Atrypa tumida*, Dalm., among the types of *Merista*, but it appears (1861) not to be congeneric, and is type of *Meristella*, Hall, 1861; not of Hall, 1859 or 1862. Billings, Ann. Mag. Nat. Hist. xx, p. 233 et seq., proposes to retain for (1) *Athyris*, M'Coy, *Atrypa tumida* as type, as has been done by Davidson in 1853. In 1852 (not 1844), M'Coy had included this sp. in *Athyris*. He would preserve (2) *Spirigera*, D'Orbigny, with *S. concentrica* as type, like Davidson in 1853. Lastly, he would separate (as above) *A. tumida* from *Merista*, leaving *M. herculea*, Barr., as type. This cannot be adopted. The laws of nomenclature being framed to exclude doubt in every practicable case, it cannot be admitted that a type may be selected for a genus which the author in his original construction of the genus did not specifically include in it. Any other course would open the door to a host of misconceptions. Therefore, Billings's proposition cannot be entertained:

First, because *A. tumida* was not included by M'Coy in his original description and list of Athyrides;

Secondly, because *Spirigera*, founded on what was properly taken to be M'Coy's type of 1844, was avowedly intended to supersede *Athyris* as an ineligible name; though, in the latter case, *Seminula* or *Actinoconchus* would have had prior claims for adoption;

Lastly, because Hall, in 1860, had already made *tumida* the type, or included it among his types of *Meristella*, positively characterized for the first time in that year.

There is therefore no reason for disturbing Mr. Davidson's judicious and widely adopted arrangement of 1856.

**Meristella**, Hall.*Spiriferida*. 1859.

12th Regent's Rep. (Oct. 1859), p. 78, note. No diagnosis; sole ex. cited, *Atrypa naviformis*, Hall, Pal. N. York, i, pl. xxiv, f. 1 a-c. Ib. ii, p. 76. (Sil.) Comp. *Meristina*, Hall.

**Meristella, Hall.**

*Spiriferida.* **1860.**  
**1861.**

13th Reg. Rep. p. 74, (Dec. '60 or Jan. '61). *Atrypa tumida*, Dalm. (Dav. Mon. Sil. Brach. p. 109, pl. xi, f. 1-13), mentioned, in preliminary remarks, as belonging to the new group. First sp. cited in list of American examples, *M. laevis*, Hall, l. c. (cf. *Charionella*).

As *Atrypa tumida*, Dalm., which has unwisely been included in *Athyris* and *Merista* (and which, for reasons previously given, cannot be said to be typical of either), if distinct from these forms as originally typified, remains free to be described generically, it would seem as if this name, as here applied, might stand, unless objection be raised from its previous application to *Atrypa naviformis*.

**Meristella, Hall, (olim) MSS.****1862.**

15th Regent's Report, pp. 179, 180. Extra copies, pp. 151-2, Dec. 1862. Types cited, (1) *Atrypa quadricostata*, Hall, Geol. Rep. 4th Dist. N. York, p. 223, f. 2; (2) *Atrypa multcosta*, Hall, 15th Reg. Rep. p. 181, f. 14, 15, and p. 190; extra copies, pp. 153, 162; (3) *A. mesacostalis*, Hall, Rep. l. c. p. 191; extras, p. 163, f. 1 a-c. (= *Leiorhynchus*, Hall, 1860-1.)

It appears, from a note of Professor Hall in the 15th Regent's Rep. p. 148 (extra copies), that during the long delay which took place between the presentation and the printing (partially) of the 13th Report and its final publication, some changes were considered desirable by him, and accordingly were made, in the printing-office, some time before its publication. Some proof-sheets having come into the possession of various persons before the above changes were made, and before the report had actually been published, and afterward the discrepancies between said proof-sheets and the final issue of the report having excited comment, Professor Hall, in the 15th Report, as above, reprinted the matter as it originally stood, to avoid misconception. This publication may then be considered as void, and standing in the light of an erratum; Professor Hall's final views being apparently those of the 13th Report as published. It will be observed that the types above quoted are those published as the types of *Leiorhynchus*, Hall, in the 13th Report, other types being there assigned to *Meristella*. In this connection, see Professor Hall's note, 15th Rep. (extras, p. 148), above cited, and Silliman's Am. Journ. Sci. and Arts. xxxi, p. 292, Mar. 1861, and xxxii, p. 430.



- Meristina**, Hall. *Spiriferidæ*. 1867.  
Notice Pal. N. York, vol. iv, Mar. 1867, p. 157, cut. Pal. N. Y. vol. iv, p. 299, cut. Sole ex. *M. maria*, Hall, l. c. (Sil.) (?= *Meristella*, Hall, 1859.)
- Mesopygia**, Quenstedt. *Arthropomata*. 1871.  
Petref. Deutschl. ii, p. 21. Substitute proposed for *Apygia*, Bronn.
- Mesotreta**, Kutorga. *Siphonotretidæ?* 1848.  
Verh. Kais. Min. Ges. St. Petersburg f. 1847, p. 271, t. vii, f. 4 a-c. Type *Siphonotreta tentorium*, Kut. l. c. (Sil.)
- Monobolina**, Salter. *Obolidæ*. 1865.  
Mem. Geol. Surv. Great Brit. iii, p. 334. (Sil.) Type *M. plumbea*, Salter, Siluria, ed. ii, p. 50, Foss. pl. 8, f. 1, 1859. Dav. Mon. Sil. Brach. pl. iv, f. 20, 27, p. 61. Subgen. *Obolella*, Bill.
- Monomerella**, Billings. *Trimerellidæ*. 1871.  
Canadian Nat. new ser. vi, p. 220, Dec. 29, 1871. Type *M. prisca*, Bill. l. c. p. 221. Dav. & King, Quart. Journ. Geol. Soc. Lond. May, 1874, p. 156, pl. xvii, f. 5-8. (Sil.)
- Morrisia**, Davidson. *Terebratulidæ*. 1852.  
Ann. Mag. Nat. Hist. May, 1852, p. 371. (Rec.) Type *Terebratula anomioides*, Scacchi, in Philippi, Moll. Sicil. ii, p. 69, pl. xviii, f. 9, 1844. (= *Platidia*, Costa.)
- Musculus**, Quenstedt. *Terebratulidæ*. 1871.  
Petref. Deutschl. ii, p. 27, 384; Atlas, pl. 48, f. 70-74; gen. Epithyrid. (Cret.) Type *Terebratula biplicata* var. *acuta*, von Buch, Abhandl. Berliner Akad. 1833, p. 128; Quenst. l. c. = *Musculus anomius*, Sch. Mus. dil. p. 75, 1716. (Non-binomial.) Not *Musculus*, Klein, Raf. and others. (= *Terebratula*, Mull.)
- Notremidia**, Rafinesque. (*Incertæ sedis*.) 1818.  
Am. Monthly Mag. iv, p. 356. Subfamily including *Orbicula* and an imaginary genus *Notrema*.
- Nucleata**, Quenstedt. *Terebratulidæ*. 1871.  
Petref. Deutschl. ii, p. 27, t. 47, f. 93-98. Sect. *Epithyridæ*. Type *Terebratula nucleata*, Schlotheim, Petref. p. 281, 1820; Quenst. l. c. (= *Terebratula*, Müller, *sensu stricto*.)
- Nucleospira**, Hall. *Spiriferidæ*. 1859.  
12th Regent's Rep. (Oct.), p. 23-25. Type *N. ventricosa*, Hall, l. c. p. 25-6, f. 1-8; Pal. N. York, iii, p. 219, 1859. Same type, pl. xiv, f. 1, pl. xxviii<sup>b</sup>, f. 2-9. (Sil.)
- Nummulus**, Waller. *Craniidæ*. 1778.  
Syst. Min. ii, p. 500. Non-binomial. (= *Crania*, Retz.)
- Numulus**, Agassiz. *Craniidæ*. 1846.  
Nom. Zool. fasc. ix, 1846, p. 60. (= *Nummulus*, Wall.)
- Obolella**, Billings. *Obolidæ*. 1861.  
New sp. L. Sil. Foss. i, pp. 6-7, f. 7 a-d. Type *O. chromatica*, Bill. i. c. (December).

- Obolellina**, Billings. *Trimerellidæ*. 1871.  
Canadian Nat. new ser. vi, p. 220, Dec. (Sil.) Type *Obolus galtensis*, Billings, l. c. p. 222. Pal. Geol. Surv. Canada, p. 168, f. 161, Jan. 1862. (= *Trimerella*, B.)
- Obolidæ**, King. *Lyopomata*. 1846.  
Ann. Mag. Nat. Hist. xviii, p. 28. Fam. Brach. cont. *Obolus*.
- Obolinæ**, Dall. *Lingulidæ*. 1870.  
Am. Journ. Conch. vi, p. 100. Subfam. Brach. cont. *Obolus*, *Obolella*, *Monobolina*, *Spondylobolus*.
- Obolus**, Eichwald. *Obolidæ*. 1829.  
Zoöl. Spec. i, p. 274. (Sil.) Type *O. apollinis*, Eich., Schl. sp. Dav. 1853, p. 136, pl. ix, f. 280-284. Syn. *Aulonotreta*, pars, Kut.; *Ungula*, Pander; *Ungulites*, Bronn.
- Obovites**, Rafinesque. *Brachiopoda*. 1831.  
Mon. Biv. Shells Ohio R. p. 7. No ex. cited. Gen. incert.
- Obulus**, Quenstedt. *Obolidæ*. 1871.  
Petref. Deutschl. ii, p. 732; lapsus, = *Obolus*, Eichw.
- Onychites**, Mercati. *Brachiopoda*. 1717.  
Met. Vatic. p. 330 (non-binomial), and subsequent writers, for a group of brachiopods with deeply incurved umbones, like *Stringocephalus*, *Gypidia*, and some *Rhynchonellæ*.
- Orbicella**, D'Orbigny. *Discinidæ*. 1847.  
Comptes Rendus, xxv, p. 269. No ex. cited. Ann. Sci. Nat. xiii, 1850, p. 350. No ex. cited. Prodr. Pal. Strat. 1849, p. 20. No type selected, first two sp. cited as of "D'Orb. 1847". 1st sp. *O. Buchii*, Verneuil, Murch. Geol. Russ. Ural, ii, p. 288, t. 19, f. 1. 2d sp. *O. punctata*, Sowerby, in Murchison's *Siluria* (ed. iii), p. 212, f. (35) 1, pl. v, f. 17. (L. Sil.) Dav. Mon. Sil. Brach. p. 69, pl. vi, f. 9. 9th (last) sp. cited *O. terminalis*, "D'Orb. 1848", Conrad, in Emmons, Geol. N. York, iv, p. 395, f. 4, 1842. Dav. 1856, xiv, f. 4-7. In the absence of other information, *O. Buchii* may be taken as the type. (= *Trematis*, Sharpe.)
- Orbicula**, Cuvier. *Craniidæ*. 1798.  
Tabl. Élém. d'Hist. Nat. p. 435. Type *Patella anomala*, Mull. = *Crania an.* Dav. 1856, pl. xiii, f. 24, 32, 33, 35, 36. (Recent.) Lamarek, Prodr. p. 83, 1799. Type *O. norvegica*, Lam. non Sow. = *Crania anomala*. Ib. Syst. An. s. Vert. 1801, p. 140, same type. (= *Crania*, Retz.)
- Orbicula**, Sowerby. *Discinidæ*. 1830.  
Min. Conch. vi, p. 4, pl. 506. Ex. *O. reflexa*, Sow. l. c. G. B. Sowerby, Conch. Man. ed. ii, p. 209, 1842. Thes. Conch. i, p. 365, 1847. Not *Orbicula*, Cuv. (= *Discina*, Lam.)
- Orbiculacea**, Anton. *Lyopomata*. 1839.  
Verzeichn. p. 21. Fam. Brach. cont. *Orbicula*.
- Orbiculæ**, Deshayes. *Lyopomata*. 1830.  
Encyc. Méth. iii, p. 553, tabl. Fam. Brach. cont. *Orbicula*.

- Orbicularius**, Dumeril. *Craniidæ*. 1806.  
Zool. Analyt. p. 168. (= *Orbicula*, Cuv.)
- Orbiculidæ**, M'Coy. *Lyopomata*. 1844.  
Carb. Foss. Ireland, p. 103. Fam. Brach. cont. *Orbicula*. Adt. King, Ann. Mag. Nat. Hist. xviii, p. 28, 1846. (= *Discinidæ*.)
- Orbiculidæ**, D'Orbigny. *Lyopomata*. 1849.  
Cours Élém. Pal. p. 80. Fam. Brach. cont. *Siphonotreta*, *Orbicella*, *Orbiculoidea*, *Orbicula*.
- Orbiculina**, Agassiz. *Lyopomata*. 1847.  
Nom. Zool. Index, p. 757. = *Orbiculidæ*, M'Coy corrig. Not *Orbiculina*, Lam. gen. Rhizop.
- Orbiculoidea**, D'Orbigny. *Discinidæ*. 1847.  
Comptes Rendus, xxv, p. 269. No ex. cited. Ann. Sci. Nat. xiii, 1850, p. 351. No ex. cited. Prodr. Pal. Strat. 1849 (Sil.), p. 21. 1st sp. *O. Morrisii*, "D'Orb. 1847", Dav. Mon. Sil. Brach. p. 65, pl. vii, f. 10-12. Two other sp. cited as of "D'Orb. 1848". It would appear as if *O. Morrisii* must be considered as the type. Dav. 1856, pl. xiv, f. 1-3, cites *O. elliptica*, Kutorga sp. (*Schizotreta*) as type or example of both *Orbiculoidea* and *Schizotreta*, as also in 1853, p. 129, t. ix, f. 253-255. It is, however, only the type of the latter, though both may be congeneric. (Comp. *Schizotreta*, Kut.)
- Orithothrix**, Davidson. *Productidæ*. 1856.  
Intr. Expl. pl. xii, f. 27; lapsus = *Orthothrix*, Geinitz.
- Orthambonites**, Pander. *Strophomenidæ*. 1830.  
Beitr. Geogn. Russ. Reiches, p. 80, t. iii, f. 7; xxviii, f. 18, generic diagrams. 1st sp. p. 81, t. xxii, f. 1, (Sil.) *O. transversa*, Pander, l. c., which with eleven of Pander's eighteen nominal species is referred by Bronn, Ind. Pal. iii, p. 852, to *Orthis calligramma*, Dalman, Ter. p. 28, t. 2, f. 2. See *Orthis*. Syn. *Schizophoria*, King. (= *Orthis*, Davidson.)
- Orthidæ**, Woodward. *Arthropomata*. 1852.  
Man. Rec. and Foss. Shells, p. 229. Fam. Brach. cont. genera *Orthis*, *Strophomena*, *Davidsonia*, *Calceola*.
- Orthis**, Dalman. *Strophomenidæ*. 1828.  
Kongl. Vet. Acad. Handl. f. 1827, pp. 93, 96. 1st sp. (queried by Dalm.), *O. ? pecten*, Wahl. sp. Act. Upsal. viii, p. 66; Dalm. l. c. p. 110, t. 1, f. 6. 2d sp. (also queried), *O. ? striatella*, Dalm. l. c. p. 111, t. 1, f. 5; 3d (not regarded as typical by Dav.), *O. zonata*, Dalm. l. c. p. 111, t. ii, f. 1 a-e (not = *O. adscendens*, Pander); 4th sp. *O. callactis*, Dalm. l. c. p. 112, t. ii, f. 2; 5th sp. *O. calligramma*, Dalm. l. c. p. 114, t. ii, f. 3 a-d; Dav. 1853, t. vii, f. 127. This and the 4th sp. are taken as typical by Davidson. Syn. *Schizophoria*, King; *Orthambonites*, Pander. Not *Orthis*, Mke.
- Orthis**, Menke. *Terebratulidæ*. 1830.  
Syn. Mus. Menkeanum, ed. ii, p. 96. Sole ex. *Anomia truncata*, Lin. sp. Dav. 1856, pl. vii, f. 9-12. Id. Philippi, Moll. Sicil. ii, p. 69; i, p. 95, t. vi, f. 12. Not congeneric with any of Dalman's species. (= *Megerlia*, King.)

- Orthis, King.** *Strophomenidæ.* 1850.  
Perm. Foss. pp. 103-105. Type *Anomites pecten*, Wahl., Dalman's 1st but queried sp. of *Orthis*. Dav. 1856, pl. xi, f. 42. Not *Orthis*, Davidson, Mke. but = *Strophomena*, Bl. sp.
- Orthis, Davidson.** *Strophomenidæ.* 1853.  
Intr. p. 101, pl. vii, f. 127. Types *O. calligramma*, Dalm. Dav. l. c. and *O. elegantula*, Dalm. Dav. l. c. pl. viii, f. 140. Ibid. 1856, p. 194. Includes *Orthambonites*, *Platystrophia*, *Dicaelosia*, and *Schizophoria*. (= *Orthis*, Dalm. em. not of King, Menke, or Philippi.)
- Orthisidæ, D'Orbigny.** *Arthropomata.* 1849.  
Cours Élém. Pal. p. 80. Fam. Brach. cont. *Strophomena*, *Orthis*, *Orthisina*.
- Orthisina, D'Orbigny.** *Strophomenidæ.* 1847.  
Comptes Rendus, xxv, p. 267. No ex. cited. Ann. Sci. Nat. viii, p. 268, t. 8, f. 7 (probably *anomala*). No sp. named. Id. xiii, 1850, p. 319. No type specified. Three species: 1st, *O. anomala*, Schloth. sp. Dav. 1853, t. 8, f. 150, 151; 2d, *O. adscendens*, Pander sp.; 3d, *O. Verneuilii*, D'Orbigny (Eichwald sp.). Prodr. Pal. Strat. i, p. 18. No type cited. Three sp. named: 1st, *Verneuilii*; 2d, *anomala*; 3d, *adscendens*. Cours Élém. Pal. 1852, ii, p. 84. Sole ex. cited, *O. Verneuilii*, l. c. f. 243. Eichwald, Urwelt, ii, p. 51, t. 2, f. 3-5. Dav. 1856, t. xi, f. 23. This should probably be taken as the type. Quenstedt considers *anomala* and *adscendens* conspecific. (= *Klitambonites*, Pand.)
- Orthisina, King.** *Strophomenidæ.* 1850.  
Perm. Foss. p. 105. Ex. *Gonambonites plana*, Pand. Dav. 1856, pl. xi, f. 25. Ibid. 1853, pl. viii, f. 153, 154.
- Orthisina, Davidson.** *Strophomenidæ.* 1853.  
Intr. p. 104, pl. viii, f. 149. Takes as type *Klitambonites adscendens*, Pander, l. c. Ibid. 1856, p. 198, pl. xi, f. 24, 26. (= *Klitambonites*, P.)
- Orthonata, Emmons.** *Acephala.* 1842.  
Genus supposed by Herrmannsen, Ind. Mal. ii, p. 165, to belong to the Brachiopoda. (Lapsus, = *Orthonota*, Conrad.)
- Orthotetes, Oken.** *Strophomenidæ.* 1831.  
Isis, p. 232, as of Fischer de Waldheim. Agassiz, Nom. Zool. Index, p. 764, 1847. King, Ann. Mag. Nat. Hist. xviii, 1846, p. 37, note, cites *Strophomena pecten*, Wahl., as the apparent type. (= *Orthotetes*, Evans.)
- Orthotheles, D'Orbigny.** *Strophomenidæ.* 1850.  
Pal. Franç. Terr. Cret. iv, p. 340; lapsus (= *Orthotetes*, Evans.)
- Orthotetes, (Evans, MS.) Fischer.** (*Incertæ sedis.*) 1829.  
Bull. Soc. Imp. Nat. Moscou, i, p. 375. No ex. cited or figured. Generic description insufficient to be recognizable. Stated to be related to *Placuna* and *Pedum*. (Gen. incert.)

- Orthothetes**, Fischer de Waldheim. *Strophomenidæ*. 1837.  
 Oryct. Gouv. Moscou, p. 133, t. xx, f. 4 a-c. No specific name applied. According to Bronn, the figure represents *Orthis arachnoidea*, Verneuil, Geol. Russ. Ural Mts. ii, p. 196, t. x, f. 18; xi, f. 1, which, according to Davidson, is *Spirifera crenistria*, Phillips, Geol. Yorkshire, ii, 1836, p. 216, pl. ix, f. 6, = *Streptorhynchus crenistria*, Dav. Mon. Carb. Brach. pp. 124, 228, and Mon. Dev. Brach. p. 81. Fischer again introduces the name in Bull. l. c. 1850, p. 23, pl. x, f. 3, with the species this time named *O. radiata*, Fischer, = *Streptorhynchus umbraculum*, Dav. Mon. Dev. Brach. p. 76. Syn. *Streptorhynchus*, King. (= *Hipparionyx*, Vanuxem.)
- Orthothrix**, Geinitz. *Productidæ*. 1847.  
 Bull. Soc. Imp. Nat. Moscou, xx, p. 84. Type *Strophalosia excavata*, Geinitz. sp. Dav. 1856, pl. xii, f. 27-29. Cf. Geinitz, Zechst. p. 48, 1848, and Verneuil, Bull. Soc. Géol. France, v, p. 300, 1848. (= *Strophalosia*, King.)
- Orthotoma**, Quenstedt. *Terebratulidæ*. 1871.  
 Petref. Deutschl. ii, p. 315, pl. 45, f. 138-142. Subg. *Terebratula*. (Mid. Lias.) Type *Ter. Heyseana*, Roemer, Verst. Nordl. Ool. 1836, p. 35, t. 12, f. 7.
- Orthotrix**, Auctt. *Productidæ*.  
 Lapsus; cf. *Orthothrix*, Geinitz.
- Ostracites**, Llhwyd. *Invertebrata*. 1699.  
 Lith. Brit. Ichn. and other non-binomial authors. Genus incert. Included fossil Pectinides, Spondyli, Ostreae, and Brachiopoda.
- Ostreopectinites**, Auctt. *Invertebrata*.  
 Used by early non-binomial authors to include various ribbed brachiopods, *Anomia* and *Ostrea* sp. foss.
- Oxyrhynchus**, Llhwyd. *Rhynchonellidæ*. 1699.  
 Lith. Brit. Ichn. p. 34, non-binomial. Quenstedt, Petref. Deutschl. ii, 1871, pp. 29, 34. (= *Rhynchonella*, Fischer, not *Oxyrhynchus*, Aristotle.)
- Pachiloma**, Rafinesque. *Brachiopoda*. 1831.  
 Mon. Biv. Shells Ohio R. p. 8. No ex. cited. Gen. incert.
- Pachyloma**, Herrmannsen. *Brachiopoda*. 1848.  
 Ind. Gen. Mal. ii, p. 186. Paetel, Fam. u. Gatt. Moll. p. 149, 1875; lapsus, = *Pachiloma*, Raf.
- Pachyrhynchus**, King. *Terebratulidæ*. 1850.  
 Perm. Foss. p. 70. (Recent.) Type *Terebratula rosea*, Mawe. Sow. Gen. f. 4, Dav. 1856, pl. vii, f. 25-8. (= *Bouchardia*, Dav.)
- Palæocrania**, Quenstedt. *Craniidæ*. 1871.  
 Petref. Deutschl. ii, p. 688, t. 61, f. 98. (Sil.) Sole ex. *Orbicula antiquissima*, Eichw. Leth. Ross. 1860, i, p. 909. (Cf. *Pseudocrania*, McCoy.)
- Palliobranchiata**, Blainville. *Invertebrata*. 1824.  
 Dict. Sci. Nat. xxxii, p. 298. Class Moll. cont. the Brachiopoda and some genera of *Acephala*.

- Palliobranchiata**, King. *Brachiopoda*. 1846.  
Ann. Mag. Nat. Hist. xviii, p. 26. Class Moll. cont. *Obolida*, *Lingulida*, *Orbiculida*, *Craniida*, *Calceolida*, *Strophomenida*, *Productida*, *Terebratulida*, *Spiriferida*, *Thecideida*.
- Paracyclas**, Hall. *Acephala*. 1843.  
Geol. Rep. Fourth Distr. N. York, p. 171. Erroneously referred by Herrmannsen, Ind. Gen. Mal. ii, p. 200, to the *Brachiopoda*. (Gen. *Lucinidarum*.)
- Pectinites**, Aldrovandus. *Invertebrata*. 1468.  
Mus. Met. &c. Contained fossil pectens, with which pectiniform brachiopods were often confounded.
- Pectunculi**, Lister. *Invertebrata*. 1687.  
And subsequent non-binomial authors. Contained fossil sp. of brachiopods among other things. Cf. *Pectunculites*.
- Pectunculites**, Lister. *Invertebrata*. 1687.  
Hist. an. Angl. p. 245. Gen. conch. biv. fos. cont. sp. of brachiopods. Non-binomial. (Cf. *Pectinites*.)
- Pectunculus**, Quenstedt. *Arthropomata*. 1871.  
Petref. Deutschl. ii, p. 27, gen. Hypothyridarum; p. 3 mentions *P. ferreolus*, Gesner, 1565, De fig. lapid. p. 166. Non-binomial. =? *Terebratula rimosa*, Quenst. Handb. Petref. 1851, p. 447. Not *Pectunculus*, Lam.
- Pedunculata**, Berth. *Brachiopoda*. 1827.  
Germ. ed. Latreille, Fam. Nat. p. 196. Order cont. fam. *Æquivalvia*, *Inæquivalvia*. (= *Pédoncules*, Latr.)
- Pedunculata**, Fleming. *Brachiopoda*. 1828.  
Brit. An. pp. 225, 367. Fam. Brach. cont. *Lingula*, *Terebratula*, *Magas*, *Spirifer*.
- Pedoncules**, Latreille. *Brachiopoda*. 1825.  
Fam. Nat. Règne An.\* Ord. Brach. = *Pedunculata*, Berth.
- Pentagonia**, Cozzens. *Spiriferida*. 1846.  
Ann. Lyc. Nat. Hist. N. York, iv, p. 158, pl. x, f. 3 a-b; read Dec. 8th, 1845. Type *P. Peersii*, Cozzens, l. c. = *Atrypa unisulcata*, Conrad, Pal. N. Y., iv, p. 309, pl. 50. Comp. *Goniocoelia*, Hall.
- Pentamerella**, Hall. *Pentamerida*. 1867.  
Notice Pal. N. York, vol. iv, March, p. 163. Pal. N. York, iv, pp. 373, 375. Type *Atrypa arata*, Conrad. An. Rep. Geol. N. York, 1841, p. 55. Hall, l. c. 1867, p. 375, pl. 58, f. 1-21.
- Pentameridæ**, M'Coy. *Arthropomata*. 1844.  
Carb. foss. Ireland, p. 103. Fam. Brach. cont. *Pentamerus*.
- Pentameridæ**, Hall. *Arthropomata*. 1867.  
Notice of Pal. N. Y., vol. iv, p. 19. Fam. brach. cont. *Pentamerus*, *Pentamerella*, *Stricklandinia*, *Gypidula*, *Anastrophia*, *Amphigenia*, *Camarephoria*, ?*Triplesia*, ?*Gypidia*, ?*Camarella* sp.

- Pentameroidæ**, Agassiz. *Arthropomata*. 1847.  
Nom. Zool. Index, p. 805, = *Pentameridæ*, M'Coy corrig.
- Pentamerus**, Sowerby. *Pentameridæ*. 1813.  
Min. Conch. i (Germ. ed. p. 48), pl. 28, f. 1, 1813. 1st sp. *P. Knightii*, Sowerby, l. c.; Dav. 1856, pl. x, f. 33-34. Other sp. *P. lævis*, Sow. l. c. f. 2; *P. Aylesfordi*, Sow. l. c. t. 28, f. 3; t. 29. (Cf. *Conchidium*, Lin.)
- Pentastera**, Herrmannsen. *Pentameridæ*. 1848.  
Index Gen. Mal. ii, p. 231, = *Pentastère*, Bl. = *Pentamerus*, Sowerby.
- Pentastère**, Blainville. *Pentameridæ*. 1824.  
Diet. Sci. Nat. xxxii, p. 301. Ibid. Man. Mal. 1825, p. 511. Vern. pro *Pentamerus*, Sowerby.
- Perforata**, Giebel. *Arthropomata*. 1852.  
Allgem. Pal. p. 78. Fam. Brach. = *Orthisidæ*, D'Orbigny.
- Peridiolithus**, Hupsch. *Brachiopoda*. 1768.  
Neue Entdeck. p. 144; non-binomial. ?= *Orthis*, sp.
- Pharetra**, Bolten. *Lingulidæ*. 1798.  
Mus. Bolt., (ed. 1819, p. 111). Sole ex. *P. monoculoides*, Bolt. l. c. No description or figure of genus or species. = *Lingula anatina*, Lam. Hist. vi. 1819, p. 258. (= *Lingula*, Brug.)
- Pholidops**, Hall. *Craniidæ*. 1860.  
13th Regent's Rep. p. 92; 15th do. p. 195. 1st sp. *P. squamiformis*, Hall, Pal. N. York, iii, pl. 108 B, f. 6 a-b. In notice of Pal. N. Y. vol. iv, Mar. 1867, by a MS. correction as distributed, this genus is said to be a synonym of *Pseudocrania*, M'Coy, 1859. In Pal. N. Y. vol. iv, p. 413, *Crania antiquissima*, Eichwald, Verneuil, Geol. Rus. Ural. ii, pl. i, f. 12 a-c, is said to be a *Pholidops*, but was cited by M'Coy as his first of two species of *Pseudocrania*. M'Coy's *P. divaricata* is said to be of a different type. Syn. *Palæocrania*, Quenstedt, 1871. (Sil.) (= *Pseudocrania*, M'Coy.)
- Pilolithus**, Beuth. *Calceolidæ*. 1776.  
Juliae et Mont. subterr. p. 150. Non-binomial. (= *Calceola*, Lam.)
- Plachiloma**, Ferussac. *Brachiopoda*. 1835.  
Bull. Zool. p. 23; lapsus, = *Pachiloma*, Raf.
- Placunea**, Rafinesque. *Invertebrata*. 1815.  
Analyse Nat. p. 148. Fam. cont. *Cranicella*, Raf. (= *Les Ostracées*, Lam.)
- Platidia**, Costa. *Terebratulidæ*. 1852.  
Fauna del Regno Napoli, p. 47, January. (Recent.) Type *Terebratula anomioides*, Scacchi, in Philippi, Moll. Sicil. ii, p. 69, pl. xviii, f. 9. Syn. *Morrisia*, Dav.
- Platidiinæ**, Dall. *Terebratulidæ*. 1870.  
Am. Journ. Conch. vi, p. 100. Subfam. cont. *Platidia*.

- Platilia**, Rafinesque. *Brachiopoda*. 1831.  
 Mon. Biv. Shells Ohio R. p. 7. Sect. Terebrariorum cont. *Platilites*,  
*Pleurinea*, *Pachiloma*, *Strophomenes*, *Pleuranisis*.
- Platilites**, Rafinesque. *Brachiopoda*. 1831.  
 Mon. Biv. Shells Ohio, p. 8. No ex. cited. Genus incert.
- Platistrophia**, Quenstedt. *Strophomenida*. 1871.  
 Petref. Deutschl. ii, p. 735; lapsus, = *Platystrophia*, King.
- Platystrophia**, King. *Strophomenida*. 1850.  
 Perm. Foss. p. 106. (Sil.) Type *Orthis biforata*, Schloth. Dav. 1853,  
 p. 101, pl. vii, f. 146-148. (= *Orthis*, Dav.)
- Plectambonites**, Pander. *Strophomenida*. 1830.  
 Beitr. Geognos. Russ. Reiches, p. 90, t. iii, f. 8, 16; t. xxviii, f. 19, generic  
 figures. 1st sp. p. 90, t. xix, f. 1, *P. planissima*, Pand. l. c. Sil. (which  
 with *P. convexa*, Pander, l. c. p. 91, t. xix, f. 5, and other of Pander's sp.  
 is referred by Bronn, Ind. Pal. iii, p. 995, to "*Leptaena*" *convexa*, Murch.  
 Verneuil and Keys. Geol. Russia, ii, p. 232, t. 15, f. 5). Generic figure  
 t. iii, f. 8, appears to represent a *Strophomena* of the *rhomboidalis* type.  
 Adt. Shaler, 1865, Bull. Mus. Comp. Zool. i, p. 64: 1st sp. *P. glabra*,  
 Shaler, l. c. (Sil.) Syn. *Leptagonia*, McCoy; *Leptaena*, King; *Strophomena*,  
 sp. Dav.; *Leptaena*, sp. Dalman.
- Pleuranisis**, Rafinesque. *Brachiopoda*. 1831.  
 Mon. Biv. Shells Ohio, p. 8. No ex. cited. Genus incert.
- Pleurecterites**, Bronn. (*Incertæ sedis.*) ? 1848.  
 Pal. Coll. p. 118. Herrmannsen, Ind. Gen. Mal. ii, p. 391. = *Pleurete-*  
*rites*, Raf. corrig. Cf. *Pleureterites*.
- Pleureterites**, Rafinesque. *Invertebrata*. 1832.  
 Atlantic Journal, iv, p. 142, cuts.: 1st sp. *P. lateristria*, Raf. f. 2  
 (apparently a fossil coral); 2d sp. *P. obliqua*, Raf. f. 3, p. 143 (= *Tri-*  
*gonia*, sp.). Genus worthless; referred by Agassiz, Nom. Zool. Index, p.  
 860, 1847, to the Brachiopoda.
- Pleurinea**, Rafinesque. *Brachiopoda*. 1820.  
 Ann. Gen. Sci. Phys. Bruxelles, v, p. 232; name cited; no description.  
 Mon. Biv. Sh. Ohio, p. 8; diagn.; no ex. cited. Genus incert.
- Pleuropygia**, Bronn. *Brachiopoda*. 1862.  
 Klass. u. Ordn. Thierr. iii, 1 Ste Abth. p. 301. Order cont. the inarticu-  
 lated brachiopods. (= *Lyopomata*, Owen.)
- Poleteria**, Rafinesque. *Invertebrata*. 1815.  
 Analyse Nat. p. 148. Order cont. among other things the family  
*Brachiopea*.
- Polymaria**, "Deshayes", King. *Invertebrata*. 1850.  
 Perm. Foss. p. 67, in synonymy. ? lapsus pro *Polymyaria*. (= *Brachi-*  
*opoda*, Cuv.)



- Porambonites**, Pander. *Porambonitidæ*. 1830.  
 Beitr. Geogn. Russ. Reiches, p. 95, t. iii, f. 9: generic figure; t. xxviii, f. 21, 25; 1st sp. p. 95, t. xvi A, f. 12, (Sil.) *P. intermedia*, Pander, l. c. Eight of Pander's species are referred by Bronn, Ind. Pal. iii, p. 1029, to *P. æquirostris*, Schlotheim sp. = *Terebratulites æquirostris*, Schloth. Petref. i, p. 282, 1820, which is taken as type by Dav. 1853, p. 99, t. vii, f. 120-122, and 1856, p. 192, pl. x, f. 37-39. Cf. Dav. Geol. Mag. Decade ii, vol. 1, Feb. 1874, t. iii. Syn. *Isorhynchus*, King; *Priambonites*, Agassiz.
- Porambonitidæ**, Davidson. *Arthropomata*. 1853.  
 Intr. p. 51. Fam. Brach. cont. *Porambonites*. Ibid. 1856 (olim).
- Priambonites**, Agassiz. *Strophomenidæ*. 1847.  
 Nom. Zool. Fasc. ix, 1846. Index, p. 886, 1847. Idem. Herrmannsen, Ind. Gen. Mal. ii, p. 331, and Paetel, Fam. u. Gatt. Moll. p. 471; lapsus, = *Porambonites*, Pander.
- Prionites**, Agassiz. *Strophomenidæ*. 1847.  
 Nom. Zool. Index, p. 888. Idem. Herrm. l. c. ii, p. 332, 1848; lapsus, = *Pronites*, Pander, not Illiger.
- Producta**, G. B. Sowerby. *Productidæ*. 1825.  
 Genera of Shells, fasc. 21. (= *Productus*, Sow.)
- Producta**, M'Coy. *Productidæ*. 1844.  
 Carb. Foss. Ireland, p. 105, f. 9. First sp. *Productus aculeatus*, Sow. Min. Conch. t. 68, f. 7-8, 1813.
- Productella**, Hall, *Productidæ*. 1867.  
 Notice of Pal. N. York, vol. iv, Mar. p. 149. Pal. N. York, iv, p. 153. First sp. *P. subaculeatus*, Murch. Bull. Soc. Géol. France, xi, p. 255, pl. ii, f. 9 a-c, 1840. Hall, l. c. p. 154, pl. xxiii.
- Producti**, Deshayes. *Arthropomata*. 1830.  
 Encycl. Méth. iii, p. 553, tabl. Fam. Brach. cont. *Productus*. (= *Productidæ*, Dav.)
- Productidæ**, Gray. *Invertebrata*. 1840.  
 Synops. Brit. Mus. i, p. 155. Fam. Brach. cont. *Productus*, *Calceola*.
- Productidæ**, King. *Arthropomata*. 1846.  
 Ann. Mag. Nat. Hist. xviii, p. 28. Fam. Brach. cont. *Productus*, *Strophalosia*.
- Productidæ**, D'Orbigny. *Arthropomata*. 1847.  
 Comptes Rendus, xxv, p. 267. Fam. Brach. cont. *Productus*, *Chonetes*, *Leptagonia*, *Leptaena*.
- Productidæ**, Gray. *Invertebrata*. 1848.  
 Ann. Mag. Nat. Hist. ii, p. 438. Fam. Brach. cont. *Productus*, *Strophalosia*, *Chonetes*, *Leptaena*, *Orthis*, *Strophonema*, *Calceola*.
- Productidæ**, D'Orbigny. *Arthropomata*. 1849.  
 Cours Élém. Pal. p. 80. Fam. Brach. cont. *Productus*, *Chonetes*, *Leptaena*.

- Productidæ, Davidson.** *Arthropomata.* 1853.  
Intr. p. 51. Fam. brach. cont. *Chonetes, Strophalosia, Productus, (Aulosteges?)*. Ibid. 1856, p. 90.
- Productidæ, Quenstedt.** *Arthropomata.* 1871.  
Petref. Deutschl. ii, p. 27. *Mesopygia*, sect. iii, cont. subsect. *Diplothyridæ, Syphnothyridæ*.
- Productina, Giebel.** *Arthropomata.* 1846.  
Allgem. Pal.\* Fam. Brach. = *Productidæ*, D'Orbigny. Ibid. Agassiz, Nom. Zool. Index, p. 892, 1847.
- Productus, Sowerby.** *Productidæ.* 1812.  
1814.  
Min. Conch. i, p. 153, t. 68; do. iv, p. 15, t. 317, f. 2-4, 1823. Type *P. martini*, Sow. l. c. = *Anomites semireticulatus*, Mart. 1809, Petref. Derb. p. 7, pl. xxxii, f. 1-2, + *A. productus*, Mart. l. c. p. 9, pl. xxii, f. 1-3. Adt. Dav. 1856, *P. martini*, Sow. pl. xii, f. 11; Koninck, Mon. *Productus*, 1847, p. 83, pl. viii, f. 1 a-h; pl. ix, f. 1 a-m; pl. x, f. 1 a-d.
- Pronites, Pander.** *Strophomenidæ.* 1830.  
Beitr. Geogn. Rus. Reich. p. 71, sect. *Klitambonites*; 1st sp. *P. adscendens*, Pander, l. c. t. xvii, f. 6. (Sil.) Dav. 1856, pl. xi, f. 24, 26, = type of *Klitambonites*. Not *Pronites*, Illiger, 1811, gen. Avium. (= *Klitambonites*, Pand.)
- Protonia, Link.** *Productidæ.* 1830.  
Handb. Phys. Erdbeschr. ii. 1, p. 449. (= *Productus*, Sow. corrig.) Quenstedt, Petref. Deutschl. ii, 1871, pp. 27, 609; no ex. cited. Not *Protonia*, Rafinesque.
- Pseudocrania, M'Coy.** *Craniidæ.* 1851.  
Ann. Mag. Nat. Hist. viii, p. 388. Type *Crania antiquissima*, Eichwald, Sil. Schicht. Esthl. 1840, p. 169. Dav. 1856, pl. xiii, f. 22. Cf. Dav. Mon. Sil. Brach. p. 79. M'Coy's 2d sp. *Crania divaricata*, M'Coy, Dav. Mon. Sil. Brach. l. c. pl. viii, f. 7-12. Dav. 1856, pl. xiii, f. 25-26. Syn. ? *Pholidops*, Hall; *Palæocrania*, Quenstedt.
- Pugites, De Haan.** *Terebratulidæ.* 1833.  
Mus. Lugdun. p. —. Type *Terebratula diphya*, Col. Woodw. Man. p. 215, pl. xv, f. 2, 1854. Bronn, Leth. p. 653, 1838, (fide Herrm., Bronn.) (= *Pygope*, Link.)
- Pycnodonte, Fischer de Waldheim.** *Invertebrata.* 1835.  
Bull. Soc. Imp. Nat. Mosc. viii, pl. i; gen. cont. *Orthis*, sp. et *Gryphæa*, sp. foss.
- Pygope, Link.** *Terebratulidæ.* 1830.  
Handb. Phys. Erdbeschr. ii, 1, p. 451. Type *Terebratula diphya*, Col., von Buch, Ueber Ter. p. 88, t. i, f. 12. King, Perm. Foss. 1850, p. 144. Woodward, Man. p. 215, pl. xv, f. 2. Syn. *Pugites*, De Haan; *Antinomia*, Catullo.
- Pyxis, Chemnitz.** *Productidæ.* 1784.  
Conchyl. Cab. vii, p. 301, non-binomial; = *Productus pustulosus*, Phillips, Geol. Yorkshire, ii, p. 216, pl. vii, f. 15. Not *Pyxis*, Humphrey, Bell, or Dej.

**Rensselæria, Hall.***Terebratulidæ*. 1859.

12th Regent's Rep. p. 39, Oct. 1st sp. *R. suessana*, Hall, l. c. f. 12.  
 = *Meganteris* s. Hall, 10th Reg. Rep. 1857, p. 100; Pal. N. York, vol. iii,  
 pl. 106 a, f. 1. 2d sp. *Terebratula ovoides*, Eaton, Geol. Textb. p. 45,  
 1832; not of Sow. Hall, Pal. N. York, iii, pl. 104-5, f. 1. 12th Reg.  
 Rep. l. c. f. 3, 4, 5. Dall, Rev. Ter. 1870, p. 105, took the second sp. as  
 the type. (Comp. *Centronella*, Bill.)

**Reticularia, M'Coy.***Spiriferidæ*. 1844.

Carb. Foss. Ireland, p. 142, f. 26, pl. xix, f. 15. 1st sp. *Terebratula* ?  
*imbricata*, Sow. Min. Conch. t. 334, f. 4-6, 1823 (Germ. ed. p. 365).  
 (? = *Spirifer*, Sow.)

**Retsia, Davidson.***Spiriferidæ*. 1856.

Intr. pl. ix; lapsus, = *Retzia*, King.

**Retzia, King.***Spiriferidæ*. 1850.

Mon. Perm. Fos. p. 137. Type *Terebratula adrieni*, Vern. Hall, 16th  
 Reg. Rep. p. 57, f. 4; Dav. 1856, pl. ix, f. 31. Comp. *Acambona*, White;  
*Eumetria*, Hall.

**Rhizophyllum, Lindström.***Calceolidæ*. 1866.

Ofvers. K. Vet. Akad. Forh. 1865, p. 271, pl. xxxi, f. 1-8. Type *R.*  
*gotlandicum*, Lindstr. l. c. = *Calceola gottl.* F. Roemer. (= *Calceola*, Lam.)

**Rhynchonella, Fischer de Waldheim.***Rhynchonellidæ*. 1809.

Notice des Fos. Gouv. Moscon, Oct. 26, 1809, p. 35, t. ii, f. 5, 6. Type  
*R. loxia*, Fischer, l. c. Dav. 1853, pl. vii, f. 99. Ib. 1856, pl. x, f. 7. Cf.  
*Hemithiris*, D'Orb.; *Hypothyris*, Phillips; *Rhynchotrema*, Hall. (= *Rhyn-*  
*chonella*, Bl.)

I have been able to consult the original paper.

**Rhynchonella, (Fischer) Blainville.***Rhynchonellidæ*. 1827.

Blainville, Dict. Sci. Nat. xlv, p. 426, 1827. Fischer de Waldheim,  
 Oryct. Gouv. Mosc. 1837, pl. 24. Type *R. loxia*, Fischer, Dav. 1853, pl.  
 vii, f. 99. Resembles *R. acuta*, Sow. Lias (Dav. in litt.). Cf. *Hypothyris*,  
 Phillips; *Rhynchotrema*, Hall.

**Rhynchonellidæ, D'Orbigny.***Arthropomata*. 1849.

Cours Élém. Pal. p. 80. Fam. Brach. cont. *Hemithiris*, *Rhynchonella*,  
*Strigocephalus*, *Porambonites*.

**Rhynchonellidæ, Gray.***Arthropomata*. 1848.

Ann. Mag. Nat. Hist. ii, p. 438. Fam. Brach. cont. *Rhynchonella*, *Came-*  
*rrophia*, *Uncites*?, *Trigonosemus*, *Rhyncora* (Dalm.), *Pygope*, *Delthiridæ*,  
*Pentamerus*.

**Rhynchonellidæ, Davidson.***Arthropomata*. 1853.

Intr. p. 51. Fam. Brach. cont. *Rhynchonella*, *Camarophoria*, *Pentamerus*.  
 Ibid. 1856, p. 90.

**Rhynchonellina, Gemellaro.***Rhynchonellidæ*. 1871.

Giorn. Sci. Nat. ed Econ. Palermo, Studj. Pal. sulla Fauna del Calcare  
 a. Ter. janitor, iii, p. 29. Type *R. Suessi*, Gem. p. 31, l. c. pl. v, f. 1-7. (Jura.)

(This paper not seen, but particulars kindly furnished by  
 Mr. Davidson.)

- Rhynchopora**, King. *Rhynchonellidæ*. 1856.  
Ann. Mag. Nat. Hist. 2d ser. xvii, p. 506, pl. 12, f. 11. Type *Rhynchonella Geinitziana*, Verneuil, King, l. c. Not *Rhynchopora*, Illiger, gen. crustaceorum, nor of Latr. gen. coleopterarum.
- Rhynchora**, Dalman. *Terebratulidæ*. 1828.  
Kongl. Vet. Acad. Handl. f. 1827, pp. 105, 135. 1st sp. *Terebr. costatus*, Dalm. l. c. = *Anomites costatus*, Wahl. 1821, Act. Upsal. viii, p. 62, t. iv, fig. 12-14. Supposed by Dalman to = *T. lyra*, Sow. = *Lyra Meadii*, Cumberland. 2d sp. p. 136, *Anomites spathulathus*, Wahl. l. c. t. iv, f. 10, 11, 1821. Dav. 1856, p. 126, pl. vii, f. 19-21, pl. xiv, f. 54, 55. (Cret). Herrmannsen, Index Gen. Mal. Suppl. takes 2d sp. as type. King, Perm. Fos. p. 81, takes the 1st.  
Davidson says that Hagenow added a false beak to some of his specimens of *T. costata*, which seems to be a *Trigonosemus*. Woodward mentions the same thing, and adds that a cast of this false beak is in the British Museum. Dalman quotes *T. lyra*, Sow., in his synonymy of *T. costata*, but places a note of interrogation after the "rostrum . . . . producta?" in his diagnosis. The name would seem to be well retained as a subgenus of *Magas*, with the second species as the type.
- Rhynchoridæ**, King. *Arthropomata*. 1850.  
Perm. Fos. p. 81 (p. 245, olim). Fam. Brach. cont. *Ismenia*, *Delthyridæ*, *Rhynchora*.
- Rhynchospira**, Hall. *Spiriferidæ*. 1859.  
12th Regent's Rep. Oct. pp. 28, 29, f. 1-6. Type *R. formosa*, Hall, l. c. Pal. N. York, iii, p. 484, pl. xcv, a, f. 7-11, same type, 1859. (Comp. *Retzia*, King.)
- Rhynchotrema**, Hall. *Rhynchonellidæ*. 1860.  
13th Regent's Rep. App. F. p. 68. Type *Rhynchonella increbescens*, Hall, l. c. p. 66, f. 8-13. (L. Sil.) = *Atrypa incr.* Hall, Pal. N. York, 1847, vol. i, pp. 146, 289, pl. 33, f. 13 a-y, pl. 79, f. 6, = *A. capax*, Conrad, Journ. Phil. Acad. Nat. Sci. viii, p. 264, 1842. (Comp. *Rhynchonella*, F.)
- Rhynchura**, Agassiz. *Terebratulidæ*. 1847.  
Nom. Zool. Index, p. 942, = *Rhynchora*, Dalm. corrig.
- Rhyncora**, Gray. *Terebratulidæ*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 438; lapsus, = *Rhynchora*, Dalm.
- Rhyncospira**, Hall. *Spiriferidæ*. 1859.  
Pal. N. York, iii, 1859, p. 213, subg. *Trematospira*. (L. Held.) 1st sp. *Trematospira globosa*, Hall, l. c. p. 215, pl. 36, f. 1 a-p. Lapsus, = *Rhynchospira*.
- Rhyngonella**, Bronn. *Rhynchonellidæ*. 1849.  
Nom. Pal. iii, p. 1087, lapsus, = *Rynchonella*, Fischer.

- Rhynobolus**, Hall. *Trimerellidæ*. 1871.  
23d Regent's Rep. p. 247, pl. 13, f. 10, 1872. Extras Mar. 1871, fide Hall. Type *Obolus galtensis*, Bill. Hall, l. c. (= *Trimerella*, Bill.)
- Sacculus**, Llhwyd. *Brachiopoda*. 1699.  
Lith. Brit. Ichn. p. 42, no. 871; non-binomial. Gen. incert.
- Sandaliolite**, Rozier. *Calceolidæ*. 1774.  
Journ. de Phys. iii, p. 150; non-binomial. (= *Calceola*, Lam.)
- Sandaliolithus**, Hupsch. *Calceolidæ*. 1768.  
Neue Entdeck. p. 56; non-binomial. (= *Calceola*, Lam.)
- Sandalite**, Rozier. *Calceolidæ*. 1774.  
Journ. de Phys. iii, p. 150; non-binomial. (= *Calceola*, Lam.)
- Sandalites**, Hupsch. *Calceolidæ*. 1768.  
Neue Entdeck. p. 56; non-binomial. (= *Calceola*, Lam.)
- Sandalium**, Oken. *Calceolidæ*. 1815.  
Lehrb. der Naturges. iii, p. vii. (= *Sandalites*, Hupsch. corrig.)
- Sarcicobrachia**, Gray. *Brachiopoda*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 436. Ord. Brach. cont. *Productidæ*, *Craniadæ*, *Discinidæ*, *Lingulidæ*.
- Sarcicobrachia**, King. *Brachiopoda*. 1850.  
Perm. Foss. p. 81. Ord. Brach. cont. *Lingulidæ*, *Obolidæ*, *Craniadæ*, *Discinidæ*, *Calceolidæ*, *Davidsonidæ*, *Productidæ*, *Strophomenidæ*.
- Sarcicobranchia**, Paetel. *Brachiopoda*. 1875.  
Fam. u. Gatt. Moll. p. 185; lapsus, = *Sarcicobrachia*, Gray.
- Schizocrania**, Hall and Whitfield. *Discinidæ*. 1875.  
Pal. Ohio, ii, p. 71, pl. i, f. 12-15. (Cincin. Gr.) Type *Orbicula filosa*, Hall, Pal. N. York i, p. 99, pl. xxx, f. 9. = *Trematis* f. Hall, 23d Reg. Rep. expl. pl. xiii, f. 21-22.
- Schizophoria**, King. *Strophomenidæ*. 1850.  
Perm. Fos. p. 106. Type *S. resupinatus*, King, = *Conch. an. resupinatus*, Martin, Petref. Derb. 1809, p. 12, t. 49, f. 13-14, = *Orthis res.*, Phillips, Pal. fos. Cornwall and Devon. p. 67, t. 27, f. 15, and Murch. Vern. Keys. Geol. Rus. Ural, ii, 183, t. 12, f. 5, 6. (= *Orthis*, Dalm.)
- Schizotreta**, Kutorga. *Discinidæ*. 1848.  
Verh. K. Min. Ges. St. Petersburg f. 1847, pp. 260, 272, t. vii, f. a-c. Type *S. elliptica*, Kut. l. c. (Sil.) Dav. 1856, pl. xiv, f. 1-3. (= *Orbiculoidea*, D'Orb.)
- Sclerobrachia**, Gray. *Brachiopoda*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 436. Ord. Brach. cont. *Spiriferidæ*, *Rhynchonellidæ*.
- Sclerobrachia**, King. *Brachiopoda*. 1850.  
Perm. Foss. p. 81. Ord. Brach. cont. *Hypothyridæ*, *Spiriferidæ*.

- Schmidtia**, Volborth. *Obolida*. 1869.  
Verh. K. Min. Ges. St. Petersburg, iv, 1868, p. 208, t. 17, f. 1-6. Sole ex. *S. celata*, Volb. l. c. (Sil.) p. 209. Quenst. Petref. Deutschl. 1871, p. 671. ? Syn. *Dicellomus*, Hall. Not *Schmidtia* of Bals.-Criv. gen. *Porifera*, 1863.
- Semibrachidés**, D'Orbigny. *Brachiopoda*. 1849.  
Cours Élém. Pal. p. 80. Sect. *Brachida* cont. *Spiriferida*, *Magasida*, *Terebratulida*, *Orbiculida*, *Cranida*.
- Semiluna**, King. *Arthropomata*. 1846.  
Ann. Mag. Nat. Hist. xviii, pp. 33, 36; lapsus, = *Seminula*, M'Coy.
- Seminula**, M'Coy. *Arthropomata*. 1844.  
Carb. Foss. Ireland, p. 158; p. 150, f. 31. 1st sp. *Terebratula pentaëdra*, Phillips, Geol. Yorkshire, p. 221, t. 12, f. 3, 1836, = *Athyris ambigua*, Sow. fide Davidson; 2d sp. *T. seminula*, Phil. l. c. p. 222, t. 12, f. 21-23; 3d sp. *T. rhomboidea*, Phil. l. c. p. 222, t. 12, f. 18-20. (Nos. 2 and 3 are probably *Rhynchonella*.) M'Coy's first or typical species being a true *Athyris*, the name *Seminula* should take precedence of *Spirigera*, D'Orb, if *Athyris* be dropped.
- Seminula**, M'Coy. *Terebratulida*. 1855.  
Pal. Foss. Cambridge Mus. p. 408. (Not seen by me. Stated to have been proposed this time for the group of *Terebratulæ* already characterized by King as *Epithyris* and afterward as *Dielasma*.) Not *Seminula*, M'Coy, 1844. (= *Epithyris*, King, not Phil.)
- Sessiles**, Latreille. *Brachiopoda*. 1825.  
Fam. Nat. Règne An. p. —. Ord. cont. fam. *Fixivalves*, Latr.
- Sessilia**, Berth. *Brachiopoda*. 1827.  
Germ. ed. Latreille, Fam. Nat. p. 196. Ord. cont. fam. *Fixivalvia*. (= *Sessiles*, Latr.)
- Sessilia**, Fleming. *Lyopomata*. 1828.  
Brit. An. pp. 225, 367. Fam. Brach. cont. *Discina*, *Criopus*.
- Shizotreta**, Davidson. *Discinida*. 1856.  
Intr. p. 232 in syn. lapsus; = *Schizotreta*, Kutorga.
- Siphonotrema**, Dana. *Lyopomata*. 1849.  
Geol. U. S. Expl. Exp. p. 615; lapsus, = *Siphonotreta*, Vern.
- Siphonotreta**, Verneuil. *Siphonotretida*. 1845.  
Murch. Vern. u. Keyserl. Geol. Rus. Ural, ii, p. 286. Type *Crania unguiculata*, Eichwald, Dav. 1856, p. 239, pl. xiv, f. 9-18. Kutorga, Verh. K. Min. Ges. St. Petersburg, f. 1847, p. 261. Same type (Sil.) p. 264, t. vi, f. 4-6, 1848.
- Siphonotretææ**, Kutorga. *Lyopomata*. 1848.  
Verh. K. Min. Ges. St. Petersburg f. 1847, p. 250. Fam. Brach. cont. *Siphonotreta*, *Schizotreta*, *Acrotreta*, *Aulonotreta*, *Mesotreta*.
- Siphonotretææ**, Morris. *Lyopomata*. 1849.  
Ann. Mag. Nat. Hist. iv, p. 315. = *Siphonotretææ*, Kut.

**Skenidium**, Hall.*Spiriferidæ*? 1860.

13th Regent's Rep. p. 70, Dec. f. 2, 4, 5. Type *Orthis insignis*, Hall, l. c. (Comp. *Rhynchora spathulata*, Dalm.) Relations doubtful, perhaps Strophomenoid.

**Spirifer**, Rafinesque.*Spiriferidæ*. 1831.

Mon. Biv. Shells Ohio, p. 7. No ex. cited; lapsus, = *Spirifer*, Sow.

**Spirifer**, Sowerby.*Spiriferidæ*. 1815.

Min. Conch. ii, p. 42, t. 120. Sole ex. *S. cuspidatus*, Sow. l. c. (Carb.) = *Anomites cuspidatus*, Martin, Trans. Lin. Soc. iv, p. 45, t. 3, and t. 4, f. 5. Dav. Mon. Carb. Brach. pp. 44, 224.

This is the first printed reference to the genus, and it has been urged with much force by eminent authorities that the sole species mentioned here must necessarily be taken as the type of the genus. But Sowerby had previously presented a paper (in 1814), which was then read before the Linnean Society, and the substance of which became known not only in England but on the continent (cf. Dav. 1853, p. 81). This was published in the Linnean Transactions, xii, pp. 514-515, 1821, and in it the discovery of the spires from which the genus takes its name, in the *Anomites striatus*, Martin (Petref. Derb. t. 23, 1809), Sow. l. c. p. 515, t. 28, f. 1-2, was announced, while at the same time Sowerby notes that their presence in *S. cuspidatus* was only surmised at that time. On these grounds, the majority of modern authors have justifiably regarded *S. striatus* as the type (see Dav. 1856, p. 159, pl. viii, f. 22-23). This decision is of more importance, since *S. cuspidatus* belongs to a section of the genus differing in some details from that typified by *S. striatus*, and which has been recognized under the name *Syringothyris* applied by Winchell. If the work of restriction were to be done over again from the very beginning, it is probable that most authors would consider the rules of nomenclature better served by taking *cuspidatus* as the type, but the reverse process has been the rule among authors so long that it would be a serious detriment to science to attempt such a change at present.

Syn. *Spirifera*, Phillips, J. de C. Sowerby; *Trigonotreta*, König, &c. Comp. *Spirifer*, King, Meek, &c.

**Spirifer**, Meek and Hayden.*Spiriferidæ*. 1864.

Pal. Upper Missouri (Carb.), p. 19. Mr. Meek, considering *S. cuspidatus*, Sow., the first species published under the name of *Spirifer* as the true type, defines the genus upon that basis. Cf. *Spirifer*, Sow.; *Cyrtia*, Dalman; *Trigonotreta*, König; *Syringothyris*, Winchell.

- Spirifera**, J. de C. Sowerby. *Spiriferidæ*. 1835.  
 Index Sow. Min. Conch. 1835; Phillips, Geol. Yorksh. ii, and Dav. 1856,  
 p. 157. (= *Spirifer*, Sow.)
- Spirifera**, M'Coy. *Spiriferidæ*. 1844.  
 Carb. Fos. Ireland, p. 128, f. 17. 1st sp. *Terebratula aperturata*, Schloth.  
 Petref. i, 258, ii, p. 67, t. xvii, f. 1.
- Spiriferidæ**, King. *Arthropomata*. 1846.  
 Ann. Mag. Nat. Hist. xviii, p. 28. Fam. Brach. cont. *Spirifer*, *Atrypa*,  
*Martinia*, *Strigocephalus*.
- Spiriferidæ**, Gray. *Arthropomata*. 1848.  
 Ann. Mag. Nat. Hist. ii, p. 437. Fam. Brach. cont. *Spirifer*, *Strigo-*  
*cephalus*.
- Spiriferidæ**, D'Orbigny. *Arthropomata*. 1849.  
 Cours Élé. Pal. p. 80. Fam. Brach. cont. *Cyrtia*, *Spirifer*, *Spiriferina*,  
*Spirigerina*, *Spirigera*.
- Spiriferidæ**, King. *Arthropomata*. 1850.  
 Perm. Foss. p. 81. Fam. Brach. cont. *Atrypa*, *Athyris*, *Cleiothyris*,  
*Retzia*, *Delthyris*, *Trigonotreta*, *Spirifer*, *Martinia*.
- Spiriferidæ**, Davidson. *Arthropomata*. 1853.  
 Intr. p. 51. Fam. Brach. cont. *Spirifer*, *Athyris*, *Spirigera*, *Uncites*,  
*Atrypa*, and subg. *Spiriferina*, *Cyrtia*, *Retzia*.
- Spiriferidæ**, Davidson. *Arthropomata*. 1856.  
 Intr. p. 90. Fam. Brach. cont. *Spirifera*, with subg. *Spiriferina*, *Cyrtia*,  
*Suessia*; *Athyris*, with subg. *Merista*, *Retzia*, *Uncites*; *Atrypa*; ? *Koninck-*  
*ina*.
- Spiriferina**, D'Orbigny. *Spiriferidæ*. 1847.  
 Comptes Rendus, xxv, p. 268. No ex. cited. Id. D'Orb. Ann. Sci. Nat.  
 xiii, 1850, p. 334. Type *Spirifer Walcotti*, Sow. = *S. rostrata*, Schloth. sp.  
 fide Dav. 1856, p. 161, pl. ix, f. 1-5, 11, 14.
- Spiriferus**, Blainville. *Spiriferidæ*. 1827.  
 Dict. Sci. Nat. t. 50, p. 291. = *Spirifer*, Sow.
- Spirigera**, D'Orbigny. *Spiriferidæ*. 1847.  
 Comptes Rendus, xxv, p. 268. No ex. cited. Pal. Franç. Ter. Cret. iv,  
 p. 357; Ann. Sci. Nat. xiii, 1850, p. 337, sole ex. and type *S. concentrica*,  
 von Buch; Chenu, Man. ii, p. 216, f. 1108-10; Dav. 1853, p. 87, pl. vi, f.  
 65-67; Billings, 1867, Ann. Mag. Nat. Hist. xx, p. 233. (= *Athyris*,  
 M'Coy.)  
 Proposed to replace *Athyris* with the same type, on ac-  
 count of discrepancies between the diagnosis and name of  
*Athyris* and the real characters; but, if that be rejected,  
*Seminula* would antedate this name.
- Spirigerina**, D'Orbigny. *Atrypidæ*. 1847.  
 Comptes Rendus, xxv, p. 268. No ex. cited. Ann. Sci. Nat. xiii, 1850,  
 p. 334. Type *Anomites reticularis*, Linné, Dav. 1856, p. 175, pl. ix, f. 39-46.  
 (= *Atrypa*, Dalman.)



**Spirobranchiophora**, Gray. *Invertebrata*. 1821.

London Med. Repository, p. 238. Tribe Moll. aceph. = *Brachiopoda*, Cuv.

**Spondylobolus**, M'Coy. ? *Obolida*. 1852.

Ann. Mag. Nat. Hist. viii, p. 407. Types *S. craniolaris*, M'Coy, Dav. 1856, pl. xiii, f. 37 (Sil.), and *Crania Sedgwicki*, Lewis. The latter appears not to be a brachiopod. Cf. Dav. Mon. Sil. Brach. p. 83, pl. viii, f. 25.

**Spondylobus**, Davidson. ? *Obolida*. 1853.

Intr. p. 122, in syn. Dall, Am. Journ. Conch. vi, pp. 100, 163-5; lapsus, = *Spondylobolus*, M'Coy.

**Stenocisma**, Conrad. *Pentamerida*. 1839.

Ann. Rep. Geol. N. York, p. 59. Sole ex. *Terebratula schlotheimi*, von Buch; Chenu, Man. ii, p. 220, f. 1132 (Sil.), scr. *Stenoschisma*. Syn. *Camerophoria*, King. Not *Stenocisma*, Hall, 1847, nor 1859.

Conrad's diagnosis is very short but explicit, and agrees perfectly with the characters of the species he cites as type, but which he does not figure. His typical specimens are not preserved. Professor Hall, on the ground that Conrad had abandoned his genus, proposed, in 1847, to apply the *Stenocisma* to a group of *Atrypida* typified by *A. modesta*, Say. In July, 1862, however, Professor Hall, having investigated the interior of this species, proposed for it the name *Zygospira*. This was in conformity with the well-established rule that a genus once described passes out of the control of its describer, and, except for identity of characters with some other, cannot be wilfully remanded to oblivion.

In 1859, Professor Hall (Pal. N. Y. iii, 236, t. xxxv, f. 6 a-y) described a brachiopod from the Lower Helderberg under the name of *Rhynchonella formosa*. In 1867-68 (Pal. N. Y. iv, p. 334, and 20th Reg. Rep. p. 270), Professor Hall refers to an unpublished lithograph, with MS. notes upon it, by Mr. Conrad, among which a figure (referred by Professor Hall to his *Rhynchonella formosa*) is stated to be named *Ter. schlotheimi* in Mr. Conrad's handwriting. For that reason, Professor Hall, considering *R. formosa* to represent a particular group of *Rhynchonellida*, proposes to revive Conrad's name of *Stenocisma* for the group in question. In spite of some reasons which seem to recommend this course, it still remains very doubtful whether it is desirable to be adopted.

Mr. Conrad may have confounded the *R. formosa* with *T.*

*schlotheimi* at the time of preparing this plate, as the two shells are not dissimilar externally. Or he may have intended to represent *T. schlotheimi*, and failed to do so sufficiently to allow his figure to be distinguished from *R. formosa*. Any one familiar with Mr. Conrad's plates will not doubt the possibility of this. But there does not appear to be any certain method of deciding that there was any necessary connection between this figure and the "common Silurian bivalve" which Mr. Conrad had in his mind when he proposed his genus, and with which his diagnosis agrees. The fact that the same species was afterward made the type of the genus *Camerophoria* by Professor King has no bearing on the question.

To the writer there seems no escape from the necessity of taking Mr. Conrad's citation as it stands, and thus conforming to the rules of nomenclature, although in so doing we shall be obliged to reduce to the rank of a synonyme a name which has been widely recognized and generally adopted.

**Stenocisma, Hall.** *Atrypidæ.* 1847.

Pal. N. York, i, p. 142, pl. 33, f. 15. Type *Atrypa modesta*, Say; Hall l. c. (Trenton Gr.). Scr. *Stenoschisma*; not *Stenocisma*, Conrad, 1839, nor Hall, 1867. (= *Zygospira*, Hall.)

**Stenocisma, Hall.** *Rhynchonellidæ.* 1867.

Pal. N. York, iv, p. 334. Type *Rhynchonella formosa*, Hall, Pal. N. Y. iii, p. 236, pl. 35, f. 6 a-y (L. Held.). Scr. *Stenoschisma*, not *Stenocisma*, Hall, 1847. (Comp. *Rhynchonella*, Fisch.)

**Stola, Klein.** *Invertebrata.* 1753.

Ostracol. p. 173, non-binomial, pl. xii, f. 82-86. Gen. cont. *Chama* sp. *Brachiopoda* sp. Name cited *Spondyli Listeriana*, Klein, l. c. incl. several things.

**Stophalasia, Bronn.** *Productidæ.* 1848.

Leonh. u. Bronn, Jahrb. f. Min. p. 248; lapsus, = *Strophalasia*, King.

**Strepheodonta, Marschall.** *Strophomenidæ.* 1873.

Nom. Zoöl. p. 140; lapsus, = *Strophodonta*, Hall.

**Streptorhynchus, King.** *Strophomenidæ.* 1850.

Mon. Perm. Foss. p. 107 (Carb. and Perm.). Type *Terebratulites pelargonatus*, Schloth. Denkschr. Acad. München. vi, t. 8, f. 21-23. Dav. 1856, pl. xi, f. 27. Dav. Mon. Perm. Brach. ii, f. 38, 40-42. (See *Hemipronites*, P.)

- Stricklandia**, Billings. *Pentameridæ*. 1859.  
Canadian Naturalist, iv, April, p. 132, f. 8-10. (Sil.) 1st sp. *Atrypa lens* (Sow. ?), Bill. l. c. Murch. Sil. Syst. pl. 8, f. 9, 10.  
Billings, Can. Nat. 1863, pp. 78-85, refers species to the genus which are probably not congeneric. Cf. Hall, Pal. N. York, vol. iv, p. 373, 1867; *S. canadensis* is the first of a series of characteristic forms referred to the revised genus by Hall. Not *Stricklandia*, gen. plantarum. Cf. *Stricklandinia*.
- Stricklandinia**, Billings. *Pentameridæ*. 1863.  
Can. Nat. viii, 1863, p. 370. (Sil.) Proposed for *Stricklandia*, Bill., which had previously been used in botany, though this, under the prevailing practice of naturalists, was quite unnecessary. (= *Stricklandia*, Bill.)
- Strigocephalidæ**, King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Strigocephalus*.
- Strigocephalus**, DeFrance. ? *Terebratulidæ*. 1827.  
Dict. Sci. Nat. vol. li, p. 102, pl. 75, f. 1, 1 a. Type *S. Burtini*, DeFrance, l. c. Woodward, Man. p. 222, f. 130, 131, pl. xv, f. 13. Scr. *Stringocephalus*, q. v.
- Stringocephalidæ**, Davidson. *Arthropomata*. 1853.  
Intr. p. 51, (?) fam. Brach. cont. *Stringocephalus*.
- Stringocephalinæ**, Dall. *Terebratulidæ*. 1870.  
Am. Journ. Conch. vi, p. 99. Subfam. Brach. cont. *Stringocephalus*.
- Stringocephalus**, Sandberger. *Terebratulidæ*. 1842.  
Leonh. u. Bronn, Jahrb. für Min. 1842. Dav. 1853, p. 73, pl. vii, f. 95-98. Type *S. Burtini*, DeFr., Dav. l. c. = *Stringocephalus*, DeFr. bene corrig.
- Strophalosia**, King. *Productidæ*. 1844.  
Ann. Mag. Nat. Hist. xiv, p. 313. No ex. cited. Ibid. l. c. 1846, xvii, p. 92. Type *Orthis excavatus*, Geinitz, Neues Jahrb. 1842, p. 578, pl. x, f. 12, 13 (Dev.). King, Perm. foss. p. 93, pl. xii, f. 13-17, 1850. Syn. *Orthothrix*, Geinitz; *Leptaenolosia* (olim), King.
- Stropheodonta**, Hall. *Strophomenidæ*. 1852.  
Pal. N. Y. ii, p. 63. Type *S. demissa*, Conrad; figures *S. prisca*, Hall, pl. xxi, f. 9 a-b, 1852. Dav. 1856, Intr. p. 203, note. Mon. Sil. Brach. p. 386. Brit. Foss. Brach. appendix, p. 28, 1874. = *Strophodonta*, Hall, emend.
- Strophesia**, Rafinesque. *Brachiopoda*. 1820.  
Ann. Gen. Sci. Phys. Bruxelles, v, p. 232; name cited without diagn. or ex. Mon. Biv. Shells Ohio, p. 8; no ex. cited. Genus incert.
- Strophodonta**, Hall. *Strophomenidæ*. 1850.  
Proc. Am. Assoc. 1850, p. 348; 10th Reg. Rep. p. 138, f. 12. *S. demissa*, Conr. sp. (Ham. Gr.) Rep. Pal. Iowa, t. ii, f. 5 a-c; Journ. Acad. Nat. Sci. Phil. viii, p. 258, t. 14, f. 14, 1842. (Scr. *Stropheodonta*.)

**Stropholosia, Gray.** *Productidæ.* 1848.

Ann. Mag. Nat. Hist. ii, p. 438; lapsus, = *Strophalosia*, King.

**Strophomena, Blainville.** *Strophomenidæ.* 1825.

Man. Mal. i, p. 513, ii, pl. liii, f. 2. Sole ex. *S. rugosa*, Bl., which (fide Meek) is *S. planumbona*, Pal. Ohio, i, p. 73, 1873, = *Leptaena planumbona*, Hall, 1847, Pal. N. York, vol. i, p. 112, pl. xxxi B, f. 4 a-e. Adt. King, Perm. Foss. p. 103, 1850. See *Hemipronites*, Pander.

**Strophomena, King.** *Strophomenidæ.* 1846.

Ann. Mag. Nat. Hist. xviii, p. 36. Type *S. rugosa*, (Raf.) Bl.

King here considers Blainville's type congeneric with *Leptaena alternata*, which has socket-valve concave, while *planumbona* had been said to have it convex. But in Perm. Fos. p. 103, Professor King concludes that it is concave in *planumbona* also, which appears to be the fact.

**Strophomena, Davidson.** *Strophomenidæ.* 1853.

Intr. p. 105, pl. viii, f. 157-159. Type *S. planumbona*, Hall. Dav. l. c. includes *Orthis? pecten*, Dalm. Ibid. 1856, p. 200. Ditto, Sharpe, Quart. Journ. Geol. Soc. London, iv, p. 178. (= *Strophomena*, Blainv.)

**Strophomena, Meek.** *Strophomenidæ.* 1873.

Pal. Ohio, i, p. 73, pl. v, f. 6 a-c. Type *S. rhomboidalis*, Wilck. [= *Leptaena*, Dalman, King, not of Davidson.] (= *Plectambonites*, Pand.)

**Strophomenes, Rafinesque.** (*Incertæ sedis.*) 1820.

Annals Gen. Sci. Phys. Bruxelles, v, p. 232, 1820. Name only; no diagn. or ex. cited. "Annals of Nature, Oct. 1, 1820", fide Rafinesque, but not to be found there. Descr. Rem. Objects Cab. Raf., Nov. 1831, p. 4. 1st sp. *S. levigata*, Raf. foss. Ohio Limestone; descr. insufficient. De-france, Tabl. p. 6, 1824; name only. No ex. cited. (*Genus indeterminate.*)

Professor Hall says he saw, in Rafinesque's cabinet, after it had passed through several hands, a specimen of *Strophomena rhomboidalis*, Wilckens, labelled by Raf. as *S. rugosa*. But this is insufficient to determine the character of his original type, even if the label had certainly not been misplaced, as Rafinesque has even united a coral and a *Trigonia* in one genus as brachiopods! The genus must stand as of Blainville, and by his figured type, if it is to be retained at all. See *Hemipronites*, Pander.

**Strophomenes, Steining.** *Strophomenidæ.* 1831.

Verst. der Eifel, p. 36. Not seen. (= *Orthis*, Dalman.)

**Strophomenidæ, King.** *Arthropomata.* 1846.

Ann. Mag. Nat. Hist. xviii, p. 28. Fam. Brach. cont. *Strophomena*, *Orthis*, *Leptaena*, *Chonetes*.

- Strophomenidæ**, King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Strophomena*, *Leptaena*, *Chonetes*, *Orthis*, *Schizophoria*, *Streptorhynchus*, *Orthisina*, *Dicælosia*, *Platystrophia*.
- Strophomenidæ**, Davidson. *Arthropomata*. 1853.  
Intr. p. 51. Fam. Brach. cont. *Orthis*, *Orthisina*, *Strophomena*, *Leptaena*.
- Strophomenidæ**, Davidson. *Arthropomata*. 1856.  
Intr. p. 90. Fam. Brach. cont. *Porambonites*; *Orthis*, with subg. *Orthisina*; *Strophomena*, with subg. *Leptaena*; ? *Davidsonia*.
- Strophonema**, Rang. *Strophomenidæ*. 1829.  
Man. Moll. p. 261; Gray, Ann. Mag. Nat. Hist. ii, 1848, p. 433, lapsus; = *Strophomena*, Raf.
- Strygocephale**, Blainville. *Terebratulidæ*. 1825.  
Man. Malac. p. 511, pl. liii, f. 1. *Ter. Burtini*, Defr. l. c. (= *Stringocephalus*, Sandb.)
- Strygocephalus**, Bronn. *Terebratulidæ*. 1848.  
Index Pal. iii, p. 1208; lapsus, = *Strigocephalus*, Defr.
- Styriasis**, Rafinesque. *Brachiopoda*. 1831.  
Mon. Biv. Shells Ohio, p. 8. No ex. cited. *Genus incert.*
- Suessia**, Deslongchamps. *Spiriferidæ*. 1854.  
Annales Inst. des Provinces, 1854. Dav. Mon. Brit. Fos. Brach. i, p. 28. Appendix, 1854. Dav. 1856, p. 165, pl. ix, f. 6, 13-18. Type *S. imbricata*, Desl. l. c. (subg. *Spirifer*).
- Syntrielasma**, Meek. *Pentameridæ*. 1865.  
Proc. Acad. Nat. Sci. Phil. Dec. 1865, p. 277. Geol. Rep. Illinois, Pal. vol. ii, p. 321, f. 36-37. Type *Spirifer hemiplicatus*, Hall, 1862. Stansbury's Great Salt Lake Rep. p. 409, pl. iv, f. 3 a-b.
- Syntrilasma**, Carpenter. *Pentameridæ*. 1867.  
Ann. Mag. Nat. Hist. xx, p. 73, passim; Quenstedt, Petref. Deutschl. ii, p. 724, 1871; lapsus, = *Syntrielasma*, Meek.
- Syphnothyridæ**, Quenstedt. *Arthropomata*. 1871.  
Petref. Deutschl. ii, p. 27. Subsect. *Productidæ* cont. *Productus*, *Protonia*, *Chonetes*, *Koninckina*, *Strophalosia*, *Gryphites*, *Bufocephalus*, *Pyxis*.
- Syringothyris**, Winchell. *Spiriferidæ*. 1863.  
Proc. Acad. Nat. Sci. Phil. Jan: 1863, p. 6. Type *S. typa*, Winchell, l. c. (= *Spirifer cuspidatus*?). Cf. King, Ann. Mag. Nat. Hist. 1868, ii, July, p. 1, pl. ii, iii. (Sil.)
- Telestrophis**, Agassiz. *Invertebrata*. 1847.  
Nom. Zool. Index, p. 1047. = *Telistrophis*, Raf. corrig.
- Telistrophis**, Rafinesque. (*Incertæ sedis.*) 1832.  
Atlantic Journal iv, p. 142, f. 7. Sole ex. *T. torsala*, Raf. l. c. ? = *Spirifer* sp., distorted. *Genus incert.*
- Tendinosa**, Reeve. *Brachiopoda*. 1841.  
Conch. Syst. i, p. 174. Tribe Brach. cont. *Lingula*, *Terebratula*. (= *Pedunculata*, Berth.)

- Terebraria**, Rafinesque. *Brachiopoda*. 1831.  
 Mon. Biv. Shells Ohio, p. 7. Fam. Brach. cont. sect. *Macrilia*, *Isilia*, *Platilia*.
- Terebratella**, D'Orbigny. *Terebratulidæ*. 1847.  
 Comptes Rendus, xxv, p. 269. No ex. cited. Pal. Franç. Ter. Cret. iv, p. 110, 1847. Ann. Sci. Nat. viii, p. 247. Type *Ter. chilensis*, Brod. = *Terebratula dorsata*, Lamarck. An. s. Vert. v, vii, p. 331, 1819. Dav. 1853, p. 65. Sowerby, Thes. Conch. viii, p. 346, t. 68, f. 15, 16, 17. (Recent.) Syn. *Delthyris*, Mke.; *Ismenia*, King.
- Terebratellidæ**, King. *Arthropomata*. 1850.  
 Perm. Foss. p. 245. Fam. Brach. cont. *Terebratella*, *Megerlia*, *Ismenia*.
- Terebratula**, Llhwyd. *Terebratulidæ*. 1699.  
 Lith. Brit. Ichn. p. 40, no. 827-865. Non-binomial. Adt. Lang. 1708, Klein, 1753, &c. Cf. *Terebratula*, Müller.
- Terebratula**, Klein. *Arthropomata*. 1753.  
 Ostracol. p. 171, pl. xi, f. 74. Non-binomial. 1st sp. *T. simplex*, Klein, l. c. = *Terebratula*, sp.
- Terebratula**, O. F. Müller. *Terebratulidæ*. 1776.  
 Prodr. Zool. Danica, pp. xxxi and 249. 1st sp. *T. cranium*, Müller, Others, = *Terebratulina*, sp. and indeterminate. Müller cannot be said to have settled the type; his indeterminate sp. may have been *T. vitrea*. Cuvier, 1798, Tabl. Élém. p. 434; 1st sp. *Terebratula vitrea*; Gray, B. M. Cat. p. 17, f. 3 a-b. In synonymy of this, he (Cuvier) places *Anomia terebratula*, Linné. Lam. Prodrome, 1799, p. 89, sole ex. *Anomia terebratula*, Linné, = (fide Hanley), *Terebratula perovalis*, Sow. Dav. Mon. Ool. Brach. p. 51, pl. x, f. 1-6. (Oolitic.) Lam. Syst. 1801, same type.  
*T. vitrea*, Lam., and *T. perovalis*, Sow., are generally accepted as the types of the genus as now restricted. But if it is insisted that Müller's first species must be taken as type, *Terebratula* would = *Waldheimia* (*Eudesia*), as generally understood, and the present *Terebratulæ* would have to take the name of *Gryphus*, Megerle.
- Terebratulacea**, Menke. *Brachiopoda*. 1830.  
 Synops. Mus. Menkeanum, ed. ii, p. 95. Fam. Brach. cont. *Terebratula*, *Atrypa*, *Uncites*, *Gypidia*, *Magas*, *Delthyris*, *Cyrtia*, *Orthis*, *Monotis*, *Leptaena*, *Megorima*, *Apleurotis*.
- Terebratulaceæ**, Menke. *Terebratulidæ*. 1828.  
 Syn. Mus. Mke. p. 56, olim. Fam. Brach. cont. *Terebratula*, *Magas*.
- Terebratuladæ**, Leach, MS. *Arthropomata*. 1847.  
 Gray, Ann. Mag. Nat. Hist. xx, p. 273. Fam. Brach. cont. *Terebratula*.
- Terebratulæ**, Deshayes. *Arthropomata*. 1830.  
 Enc. Méth. iii, p. 553, tabl. Fam. Brach. cont. *Terebratula*, senso magno.

- Terebratulana**, Gray. *Arthropomata*. 1853.  
 Brit. Mus. Cat. Brach. p. 15. Tribe Brach. cont. *Terebratula*, *Terebratulina*, *Waldheimia*.
- Terebratularius**, Dumeril. *Terebratulidæ*. 1806.  
 Zool. Analyt. p. 168. = *Terebratula*, Auct.
- Terebratulidæ**, Gray. *Arthropomata*. 1840.  
 Synops. Cont. Brit. Mus. i, p. 155. Fam. Brach. cont. *Terebratula*, *Spirifer*.
- Terebratulidæ**, M'Coy. *Arthropomata*. 1844.  
 Carb. Foss. Ireland, p. 150. Fam. Brach. cont. *Delthyridæa*, *Terebratula*, *Cyclothyris*, *Atrypa*, *Seminula*.
- Terebratulidæ**, King. *Arthropomata*. 1846.  
 Ann. Mag. Nat. Hist. xviii, p. 28. Fam. Brach. cont. *Terebratula*, *Hypothyris*, *Pentamerus*, *Camerophoria*, *Uncites*.
- Terebratulidæ**, D'Orbigny. *Arthropomata*. 1847.  
 Comptes Rendus, xxv, p. 269. Fam. Brach. cont. *Terebratella*, *Terebratula*, *Terebrirostra*, *Fissirostra*.
- Terebratulidæ**, Gray. *Arthropomata*. 1848.  
 Ann. Mag. Nat. Hist. ii, p. 436. Fam. Brach. cont. "Magas, *Terebratula*, *Terebratulina*, *Terebrirostris*, *Fissirostris*, &c."
- Terebratulidæ**, King. *Arthropomata*. 1850.  
 Perm. Foss. p. 81 (p. 244 olim). Fam. Brach. cont. *Epithyris*, *Terebratella*, *Terebratula*, *Pygope*, *Eudesia*, *Megerlia*, *Waldheimia*.
- Terebratulidæ**, King. *Arthropomata*. 1850.  
 Perm. Foss. p. 245. Fam. Brach. cont. *Terebratula*, *Terebratulina*, *Delthyridæa*, *Waldheimia*, *Epithyris*, *Pygope*.
- Terebratulidæ**, Davidson. *Arthropomata*. 1853.  
 Intr. p. 51. Fam. Brach. cont. *Terebratula*, subg. *Terebratulina*, *Waldheimia*; *Terebratella*, subg. *Trigonosemus*, *Terebrirostra*, *Megerlia*; *Kraussia*, *Magas*, *Bouchardia*, *Morrisia*, *Argiope*.
- Terebratulidæ**, Davidson. *Arthropomata*. 1856.  
 Intr. p. 90. Fam. Brach. cont. *Terebratula* with subg. *Terebratulina*, *Waldheimia*; *Terebratella*, with subg. ? *Trigonosemus*, ? *Terebrirostra*, *Megerlia*, *Kraussia*, *Magas*, *Bouchardia*, *Morrisia*; subfam. *Thecideidæ*, with *Argiope*, and subg. *Zellania*; *Stringocephalus*; *Thecidium*.
- Terebratulidæ**, Dall. *Arthropomata*. 1870.  
 Am. Journ. Conch. vi, p. 99. Fam. Brach. cont. *Terebratulina*, *Stringocephalina*, *Magasinæ*, *Kraussinina*, *Megathyrina*, ? *Platidiina*, ? *Thecidiina*.
- Terebratulidæ**, Quenstedt. *Arthropomata*. 1871.  
 Petref. Deutschl. ii, p. 27. Sect. i of *Mesopygia*, cont. *Hypothyridæ*, *Epithyridæ*.

- Terebratulidea**, Sowerby. *Brachiopoda*. 1822.  
Trans. Lin. Soc. Lond. xiii, p. 469. = *Brachiopoda*, auctt.
- Terebratulina**, Giebel. *Brachiopoda*. 1846.  
Palæoz. Faun. p. 121. Fam. Brach. cont. *Terebratula*, *Delthyris*, *Thecidea*, *Magas*, *Trigonotreta*, *Spirifer*, *Orbicula*.
- Terebratulina**, D'Orbigny. *Terebratulidæ*. 1847.  
Comptes Rendus, xxv, p. 268. No ex. cited. D'Orb. Ann. Sci. Nat. viii, p. 249. Type *T. caputserpentis*, Lin. pl. vii, f. 7, 8, 17, 1848. Ib. xiii, p. 339, 1850. Dav. 1856, p. 121, pl. vi, f. 7-10, 24. Syn. *Agulhasia*, King.
- Terebratulinae**, Dall. *Terebratulidæ*. 1870.  
Am. Journ. Conch. vi, p. 99. Subfam. Brach. cont. *Terebratula*, *Rennselaeria*, *Terebratulina*, *Waldheimia*; with subgenera *Terebratula*, *Centronella*, *Epithyris*?, *Pygope*, *Waldheimia*, *Cryptonella*, *Meganteris*.
- Terebratulites**, auctt. *Arthropomata*.  
Walch, Schüster, and others, used to denote fossil species of *Brachiopoda*.
- Terebratulites**, Schlotheim. *Arthropomata*. 1820.  
Petref. p. 250, pl. 20, 37, 40. Sectio *Anomites*, cont. Brach. Arthrop. sp. foss.
- Terebrirostra**, D'Orbigny. *Terebratulidæ*. 1847.  
Comptes Rendus, xxv, p. 268. No ex. cited. Pal. Franç. Ter. Cret. iv, p. 146, 1847. Type *Terebratula lyra*, Sow. = *Lyra Meadii*, Cumb. Ann. Sci. Nat. xiii, p. 345, 1850. Journ. de Conchyl. ii, p. 222, 1851. (= *Lyra*, Cumb.)
- Terebrirostris**, Gray. *Terebratulidæ*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 436; lapsus, = *Terebrirostra*, D'Orbigny.
- Thecidæ**, D'Orbigny. *Arthropomata*. 1847.  
Comptes Rendus, xxv, p. 269. Ibid. Cours Élém. Pal. p. 80, 1849. Fam. Brach. cont. *Megathiris*, *Thecidia*.
- Thecidæa**, Gray. *Thecidiidæ*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 437; lapsus, = *Thecidea*, Defr.
- Thecidæadæ**, Gray. *Arthropomata*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 437. Fam. Brach. cont. *Thecidæa*, *Argiope*.
- Thecidæidæ**, D'Orbigny. *Arthropomata*. 1850.  
Ann. Sci. Nat. xiii, p. 308. Fam. Brach. cont. *Thecidea*, *Megathiris*.
- Thecidæidæ**, King. *Arthropomata*. 1850.  
Perm. Foss. p. 81. Fam. Brach. cont. *Thecidæa*.
- Thecideadæ**, Gray. *Arthropomata*. 1853.  
Brit. Mus. Cat. Brach. p. 8. = *Thecidæ*, D'Orb.
- Thecidea**, DeFrance. *Thecidiidæ*. 1828.  
Ferussac, Tabl. Syst. p. 38 (1821?). Type *Terebratula pumilum*, Lam. Hist. An. s. Vert. vii, p. 58, 1819. Dav. Ann. Mag. Nat. Hist. 1850, pl. xiv, f. 58. (Cret.) Syn. *T. radiata*, Defr. l. c. (= *Thecidium*, Sow.)



- Thecidea**, Deshayes. *Arthropomata*. 1830.  
Enc. Méth. iii, p. 553, tabl. Fam. Brach. cont. *Thecidea*.
- Thecideidæ**, Gray. *Arthropomata*. 1840.  
Synops. Cont. Brit. Mus. i, p. 155; ii, pp. 85, 92. Fam. Brach. cont. *Thecidea*. Adt. King, Ann. Mag. Nat. Hist. xviii, p. 28, 1846. Dav. 1853, p. 51. (Mel. *Thecidiidæ*.)
- Thecideidæ**, Davidson. *Arthropomata*. 1856.  
Intr. p. 90. Subfam.? *Terebratulidæ* cont. *Argiope* and subg. *Zellania*, *Stringocephalus*, and *Thecidium*.
- Thecideum**, Lacaze Duthiers. *Thecidiidæ*. 1861.  
Ann. Sci. Nat. Zool. xv, p. 262, pl. i-iv. *T. mediterraneum*, Sow. (= *Thecidium*, Sow.)
- Thecidiidæ**, Dall. *Arthropomata*. 1870.  
Am. Journ. Conch. vi, p. 147. Cat. Rec. Brach. Proc. Acad. Nat. Sci. Phil. 1872, p. 195. Fam. Brach. cont. *Thecidium*.
- Thecidiinæ**, Dall. *Thecidiidæ*. 1870.  
Am. Journ. Conch. vi, p. 100. Subf. cont. *Thecidium*.
- Thecidioidæ**, Agassiz. *Arthropomata*. 1847.  
Nom. Zool. Index, p. 1061. = *Thecidæadæ*, Gray corrig.
- Thecidium**, Sowerby. *Thecidiidæ*. 1844.  
Genera of Shells, xx. Dav. 1853, p. 77, pl. vi, f. 35-38. Type *Thecidea radiata*, Deifr. = *T. pumilum*, Lam. (Cret.) Dav. l. c. (= *Thecidea*, Deifr. corrig.)
- Trematis**, Sharpe. *Discinidæ*. 1847.  
Quart. Journ. Geol. Soc. London (June), iv, p. 66. Type *Orbicula terminalis*, Conrad, Nat. Hist. N. York, iv, Geol. by Emmons, p. 395, f. 4, 1842. Dav. 1856, pl. xiv, f. 4-7. (Trenton.) (Syn. *Orbicella*, D'Orb.)
- Trematospira**, Hall. *Spiriferidæ*. 1857.  
Pal. N. York, vol. iii, 1859, p. 207. 1st sp. mentioned l. c. pp. 207-9, *Spirifer? multistriatus*, Hall, Reg. Rep. 1856, Pal. N. York, iii, pl. 24, f. 3 a-t, pl. 28, f. 5 a-f. (Sil.) Cf. 12th Reg. Rep. (Oct. 1859), pp. 27-8, *T. multistriatus*, Hall, l. c. f. 3-4. (Comp. *Retzia*, King.) 1859.
- Tretenterata**, King. *Brachiopoda*. 1873.  
Ann. Mag. Nat. Hist. 4th ser. xii, July, 1873, p. 15. Subclass cont. the inarticulate brach. (= *Lyopomata*, Owen.)
- Trigonella**, Quenstedt. *Terebratulidæ*. 1871.  
Petref. Deutschl. ii, p. 27, pl. 45, f. 1-2. Gen. Epithyrid. Type *Terebratula trigonella*, Schloth. Petref. 1820, p. 271, = *Trigonella suevica*, Schröter (non-binomial), fide Quenstedt, l. c. Not *Trigonella*, Da Costa. (= *Eudesia*, King.)
- Trigonellæ**, Fischer de Waldheim. *Invertebrata*. 1809.  
Notice Fos. Gouv. Moscou, p. 35. Sect. *Terebratulidarum*. Included some species of trigonal brachiopods. Not used in a strictly generic sense. (= *Trigonella*, Quenst. auct.)

- Trigonosema**, Paetel. *Terebratulidæ*. 1875.  
Fam. u. Gatt. Moll. p. 212; lapsus, = *Trigonosemus*, Kön.
- Trigonosemus**, König. *Terebratulidæ*. 1825.  
Icones Foss. Sectil. p. 3, pl. vi, f. 73. (Cret.) Type *T. elegans*, Kön.  
l. c. fide Dav. 1856, p. 126, pl. vii, f. 6, 7, 8. Mon. Cret. Brach. p. 29, pl.  
iv, f. 1-4. Syn. *Fissurirostra*, D'Orb.
- Trigonosmus**, Paetel. *Terebratulidæ*. 1875.  
Fam. u. Gatt. Moll. p. 212; lapsus, = *Trigonosemus*.
- Trigonoremus**, Gray. *Terebratulidæ*. 1848.  
Ann. Mag. Nat. Hist. ii, p. 438; lapsus, = *Trigonosemus*.
- Trigorima**, Rafinesque. *Brachiopoda*. 1831.  
Mon. Biv. Shells Ohio, p. 7. No ex. cited. Genus incert.
- Trigonotetra**, Davidson. *Spiriferidæ*. 1856.  
Intr. expl. pl. viii, f. 21. *Spirifera disjuncta*, Sow. Id. Keferstein,  
1829. Zeit. Geogn. p. 85; lapsus, = *Trigonotreta*, Kön.
- Trigonotreta**, König. *Spiriferidæ*. 1825.  
Icones Foss. Sectiles, no. 70, p. 3. (Gen. cont. *Spirifer* sp. et *Orthis* sp.  
&c. fide Bronn.) Adt. King. Perm. Foss. pp. 81, 126, 1850. *T. stokesii*,  
Kön. l. c. selected as type; = (?) *Ter. aperturatus*, Schloth. Petref. i, p.  
258, ii, p. 67, pl. 17, f. 1 (fide Bronn). (= *Spirifer*, Sow.)
- Trigonotreta**, Meek and Hayden. *Spiriferidæ*. 1864.  
Pal. Upper Missouri (Carb.), p. 19. Mr. Meek, having adopted *S. cuspi-*  
*datus* as the type of *Spirifer*, revives *Trigonotreta*, König, to contain  
*Spirifer striatus*, Sow. (commonly regarded as the type,) and its conge-  
ners. (= *Spirifer*, Dav.)
- Trimecella**, "Dalman", Paetel. *Trimerellidæ*. 1875.  
Fam. u. Gatt. Moll. p. 212; lapsus, = *Trimerella*, Bill.
- Trimerella**, Billings. *Trimerellidæ*. 1862.  
Pal. Foss. Canada (June), p. 166, vol. i, f. 151, a-b. Type *T. grandis*,  
Bill. l. c. (Sil.) Dav. & King, Quart. Journ. Geol. Soc. May, 1874, p.  
124, pl. xiii, f. 2, 3.
- Trimerellidæ**, Davidson and King. *Lyopomata*. 1874.  
Quart. Journ. Geol. Soc. London (May), p. 142. Fam. Brach. cont.  
*Trimerella*, *Monomerella*, *Dinobolus*.
- Triplasia**, Hall. *Rhynchonellidæ*. 1859.  
12th Reg. Rep. p. 44 (Oct.), f. 1-3. Type *T. extans*, Hall, l. c. = *Atrypa*  
*extans*, Emmons, Geol. Rep. 3d Distr. N. Y. 1843. (Scr. *Triplasia*.) Not  
*Triplasia*, Reuss, 1854, g. foramin. (Syn. *Dicraniscus*, Meek.)
- Tropidoleptus**, Hall. *Arthropomata*. 1857.  
10th Regent's Rep. p. 151, f. 1-2. 12th do. p. 31, f. 1-4, 1859. Type  
*Strophomena carinata*, Conrad, Ann. Rep. Geol. N. York, 1839, p. 64; Hall,  
l. c. In notice Pal. N. York, vol. iv, p. 23, f. 1-2, Mar. 1867, this genus is  
pointed out as close to *Leptocoelia*, and probably belonging to the fam.  
*Terebratulidæ*. (Dev.) (Comp. *Leptocoelia*, Hall, 1859.)

- Trunculites**, Rafinesque. *Brachiopoda*. 1831.  
 Mon. Biv. Shells Ohio, p. 8. No ex. cited. Atlantic Journ. iii, p. 122, 1832. Name cited; no diagn. or ex. (*Gen. incert.*)
- Turbinolia**, auctt. non Lam. *Coelenterata*.  
 A genus of zoophytes to which *Calceola* sp. and some brachiopods have been referred by authors.
- Uncinities**, auctt. *Brachiopoda*.  
 Cf. *Uncites*.
- Uncites**, DeFrance. *Spiriferidæ*. 1825.  
 Blainville, Man. Mal. p. 630. (Dev.) Type *Terebratulites gryphus*, Schlotheim, Dav. 1856, p. 173, pl. ix, f. 50-56.
- Uncitidæ**, D'Orbigny. *Arthropomata*. 1849.  
 Cours Élém. Pal. p. 80. Fam. Brach. cont. *Uncites*, *Atrypa*, *Pentamerus*.
- Ungula**, Pander. *Obolidæ*. 1830.  
 Beitr. Geogn. Russ. Reiches, pp. 55-7. 1st sp. *U. convexa*, Pand. p. 59, t. xxviii, f. 1. (L. Sil.) = *Obolus apollinis*, Eichw. (1829), Zool. Spec. i, p. 274, t. iv, f. 5. Dav. 1856, p. 245, pl. xiv, f. 35-39. Five out of six of Pander's sp. are stated by Bronn (Ind. Pal. iii, 1342) to be vars. of *O. apollinis*. The other sp. = *O. ingricus*, Eichw. l. c. p. 274. (= *Obolus*, Eichw.)  
 Quenstedt notes (Petr. Deutschl. 1871, p. 669) that this genus was mentioned in Rose, "Reise nach dem Ural", the publication of which was begun by Engelhardt, of Dorpat, in the spring of 1829 (but not finished until 1837). Pander's work passed the censor in November, 1829, and was probably published by January, 1830. No sufficient evidence has yet been adduced to show that Pander's name preceded that of Eichwald, and if it stand at all (it seems as if several forms were included in Pander's very bad figures) it cannot be on the first species.
- Ungulites**, Bronn. *Obolidæ*. 1848.  
 Ind. Pal. iii, p. 1342. Quenst. 1871, Petr. Deutschl. p. 725 (? Wieg. Arch. 1837, p. 143). *Lapsus*, (= *Ungula*, Pand.)
- Ungulites**, Quenstedt. *Trimerellidæ*. 1871.  
 Petref. Deutschl. ii, p. 669. Cont. *Dinobolus*, sp. fide Dav. and King.
- Urticites**, auctt. *Invertebrata*. —.  
 DeFrance, Dict. Sci. Nat. lvi, p. 383, 1828, in syn. (= *Hysterolithus*, auctt.)
- Vitulina**, Hall. *Arthropomata*. 1860.  
 13th Regent's Rep. p. 72 (Dec.), f. 1-2. No specific name applied. (Hamilton Gr.) Pal. N. York, iv, p. 410, pl. 62, f. 1, a-i. Sole ex. *V. pustulosa*, Hall, l. c. Not *Vitulina*, Swains. gen. Gasterop. 1840.  
 Probably belongs to the *Terebratulidæ*.

**Volborthia**, Möllera.*Siphonotretidæ*. 1873.

(Extr.) Verh. Min. Ges. St. Petersburg, 1873, p. 1-7, pl. i, f. 1-6. (In Russian.) Type *Acrotreta recurva*, Kutorga, l. c. 1847, p. 277, t. vii, f. 9, 1848. *Hyolithes* sp. Eichw. Leth. Ros. p. 905.

**Waldheimia**, King.*Terebratulidæ*. 1850.

Perm. Foss. p. 81, 145. Type *Terebratula flavescens*, Lam. Hist. An. s. Vert. vi, p. 246, 1819, = *Waldheimia australis*, King, l. c. pl. xx, f. 10-12. Reeve, Conch. Icon. t. i; t. ii, f. 1 a-b. Cf. *Eudesia*, King.

This genus, or subgenus, which has come into very general use, and is represented by a number of recent species, most unfortunately bears a name which is preoccupied by Brullé, in *Hymenoptera*, since 1846. Brullé's genus is stated on good authority to be tenable, and hence the writer proposes to revive the name of *Eudesia* (which see) for this group. (Cf. Brullé, Hist. Nat. des Insectes Hym. iv, p. 665, Nov. 1846. Types *Tenthredo Brasiliensis*, Lep. St. Fargeau, and *W. Orbignyana*, Brullé, l. c. pl. 46, f. 8.)

**Waltonia**, Davidson.*Terebratulidæ*. 1850.

Ann. Mag. Nat. Hist. p. 475. Type *W. Valenciennesii*, Dav. l. c. pl. xv, f. 1 a-d. Ib. l. c. 1852, p. 372, subg. *Magas*. Id. l. c. 1861, p. 34, olim. Founded on an immature and apparently imperfect Terebratulid; perhaps a *Terebratella*.

**Zellania**, Moore.*Terebratulidæ*. 1854.

Proc. Somerset Archæol. Nat. Hist. Soc. 1854.\* Dav. 1856, p. 141, pl. vii, f. 43-44. Type *Z. Davidsonii*, Moore, l. c. (= *Cistella*, Gray.)

**Zonarites**, Rafinesque.*Brachiopoda*. 1831.

Enum. Rem. Obj. Cab. Raf. p. 4. Sole ex. *Z. atrata*, Raf. l. c. fos. Kentucky. (*Genus incert.*)

**Zygospira**, Hall,*Atrypidæ*. 1862.

15th Regent's Rep. pp. 154-5, f. 1, 2. Type *Atrypa modesta*, (Say) Hall, l. c. (= *Stenocisma*, Hall, not Conr.)

## SYSTEMATIC LIST OF THE GENERA.

Genera or subgenera admitted to be valid, or not sufficiently known to the author to be reasonably questioned, are printed in upright letters.

Synonymes, or names suspected to be such, are indented; absolute synonymes are in italics, the others in upright letters; both under the name to which they are referred, or suspected to belong.

An asterisk marks non-binomial synonymes.

An interrogation-mark (?) indicates that the family relations are doubtful. The same in parentheses (?) indicates that the synonyme so marked cannot be definitely referred to any genus, or may denominate an assemblage of species which should be distributed among several groups. Before a name not indented, it indicates a doubt as to its validity.

The name following a genus refers to the author who used it in the sense indicated by its allocation here, and not necessarily the author who first used it. This holds good throughout these lists.

It must be borne in mind that this arrangement is merely tentative and subject to reform.

## Fam. TEREBRATULIDÆ.

*(Terebratulinae.)*

## Terebratula, Müller.

- \* *Terebratula*, Llhwyd.
- \* *Sacculus*, Llhwyd.
- \* *Lampas*, Meuschen.
- \* *Terebratulites*, Schlotheim.
- Terebratularius*, Dumeril.
- Lampas*, sp. Humphrey.
- Gryphus*, Megerle.
- Lampus*, Sowerby.
- Musculus*, Quenstedt.
- Nucleata*, Quenstedt.

## (?) Epithyris, King, not Phillips.

- Epithyrus*, Paetel.
- Seminula*, M'Coy, 1855.
- Dielasma*, King.

## Centronella, Billings.

- Cryptonella*, Hall, 1861-3.

## (?) Rennselæria, Hall.

## (?) Leptocoelia, Hall, 1859.

## Pygope, Link.

- \* *Diphyites*, Schröter.
- Pugites*, De Haan.
- Antinomia*, Catullo.

## (?) Orthotoma, Quenstedt.

## (?) Vitulina, Hall, not Swainson.

## Terebratulina, D'Orbigny.

- Agulhasia*, King.

## Cryptonella, Hall, 1867.

- ? *Cryptonema*, Bigsby.
- Cryptocella*, Paetel, not Adams.

## Meganteris, Suess.

## Eudesia, (King) Dall.

- Waldheimia*, King, not Brullé.
- Macandreria*, King, not Gray.
- (?) *Gwynia*, King.
- Trigonella*, Quenstedt.
- Cincta*, Quenstedt.
- Cryptacanthia*, White & St. John.

## Lyra, Cumberland.

- Terebrirostra*, D'Orbigny.
- Terebrirostris*, Gray.

*(Magasinae.)*

## Trigonosemus, König.

- Trigonoremus*, Gray.
- Trigonosmus*, Paetel.
- Trigonosema*, Paetel.
- Fissirostra*, D'Orbigny.
- Fissurostra*, D'Orbigny.
- Fissirostris*, Gray.
- Fissuristra*, Paetel.
- Delthyridea*, King.
- Deltyrydæa*, Davidson.
- Delthiridæa*, Gray.

## ? Hynniphoria, Suess.

- Hynniphoria*, Bronn.

## Terebratella, D'Orbigny.

- Delthyris*, Menke.
- Ismenia*, King.
- Waltonia*, Davidson.

## Laqueus, Dall.

## Megerlia, King, not Rob-Desv.

- Megerlea*, Davidson.
- Orthis*, Menke.
- Orthis*, Philippi.

## (?) Frenula, Dall.

- Ismenia*, King, olim.
- Ismenia*, Gray, Dall.

## Kingena, Davidson.

## Magasella, Dall.

## ? Tropicoleptus, Hall.

## Platidia, Costa.

- Morrisia*, Davidson.

## Bouchardia, Davidson.

- Pachyrhynchus*, King.

## Magas, Sowerby.

- Majas*, Keferstein.
- Megas*, Isensee.
- (?) *Mannia*, Dewalque.

Rhynchora, Dalman (pars).

*Rhynchura*, Agassiz.

*Rhyncora*, Gray.

Kraussina, Davidson.

*Kraussia*, Davidson.

*Kraussinina*, Paetel.

(*Megathyrinae*.)

Megathyris, Bronn.

*Megathyris*, D'Orbigny.

*Argyope*, Deslongchamps, not Savigny.

*Argiope*, Deslongchamps, not Savigny.

Cistella, Gray.

*Zellania*, Moore.

Fam. THECIDIIDÆ.

Thecidium, Sowerby.

*Thecidea*, Defrance.

*Thecidæa*, Gray.

*Thecideum*, Lacaze Duthiers.

Fam. STRINGOCEPHALIDÆ.

Stringocephalus, Sandberger.

*Strygocephale*, Blainville.

*Strygocephalus*, Bronn.

*Strigocephalus*, Defrance.

Fam. PENTAMERIDÆ.

Anastrophia, Hall.

*Brachymerus*, Shaler.

Amphigenia, Hall.

Gypidula, Hall.

Pentamerella, Hall.

Camarella, Billings (pars).

*Camerella*, Paetel.

Stenoschisma, n.

*Stenocisma*, Conrad, not Hall.

*Camerophoria*, King.

*Camarophoria*, Bronn.

*Comerophoria*, Gray.

Pentamerus, Sowerby.

*Pentastère*, Blainville.

*Pentastera*, Herrmannsen.

Conchidium, Linné.

*Gypidia*, Dalman.

*Gypidia*, Hall.

*Gypidium*, Beyrich.

Stricklandia, Billings.

*Stricklandinia*, Billings.

Syntrielasma, Meek.

*Syntrilasma*, Carpenter.

Fam. RHYNCHONELLIDÆ.

Rhynchonella, Fischer.

*Rhynchonelle*, Fischer.

*Rhyngonella*, Bronn.

\* *Oxyrhynchus*, Llhwyd.

*Stenocisma*, Hall, 1867.

Rhynchotrema, Hall.

Hypothyris, Phillips.

*Hypothyris*, King.

*Cyclothyris*, Davidson.

*Bicornes*, Quenstedt.

Acanthothyris, D'Orbigny.

*Acanthothiris*, D'Orbigny.

Hemithyris, Bronn.

*Hemithiris*, D'Orbigny.

*Hypothyris*, Forbes & Hanley.

Rhynchopora, King.

(?) *Antirhynchonella*, Quenstedt.

Camarella, Billings (pars typ.).

*Camerella*, Paetel.

Eatonia, Hall.

*Elonia*, Meek & Hayden.

Dimerella, Zittel.

*Atretia*, Jeffreys.

*Cryptopora*, Jeffreys.

(?) *Rhynchonellina*, Gemellaro.

Triplesia, Hall.

*Dicraniscus*, Meek.

Leiorhynchus, Hall, not Rud.

*Meristella*, Hall, olim 1862.

? *Eichwaldia*, Billings.

*Dictyonella*, Hall, MSS.

Fam. ATRYPIDÆ.

Atrypa, Dalman.

*Spirigerina*, D'Orbigny.

*Cleiothyris*, Phillips.

*Cleidothyris*, Paetel.

*Cliothyris*, Agassiz.

Anoplotheca, Sandberger.

Zygospira, Hall.

*Stenocisma*, Hall, 1847, not Con.

(?) *Coelospira*, Hall.

*Leptocoelia*, Hall, 1857.

Koninckina, Suess.

*Koninckia*, Woodward.

? *Davidsonia*, Bouchard.

Fam. SPIRIFERIDÆ.

Athyris, M'Coy.

*Athyris*, Davidson, 1856.

*Seminula*, M'Coy, 1844.

*Actinoconchus*, M'Coy.

*Semiluna*, King.

*Cleiothyris*, King.  
*Spirigera*, D'Orbigny.  
*Euthyris*, Quenstedt.  
 (?) *Charionella*, Billings.  
*Merista*, Suess.  
     *Camarium*, Hall.  
*Pentagonia*, Cozzens.  
     *Goniocoelia*, Hall.  
*Meristella*, Hall, 1861.  
     *Athyris*, Davidson, 1853.  
     *Athyris*, Billings.  
 (?) *Meristina*, Hall.  
*Nucleospira*, Hall.  
*Retzia*, King.  
     *Retsia*, Davidson.  
     *Rhynchospira*, Hall.  
     *Rhyncospira*, Hall.  
     *Trematospira*, Hall.  
*Acambona*, White.  
     *Eumetria*, Hall.  
*Uncites*, DeFrance.  
     *Uncinities*, auctt.  
*Spirifer*, Sowerby.  
     *Spirifera*, J. de C. Sowerby.  
     *Spiriferus*, Blainville.  
     *Spinifer*, Rafinesque.  
     *Hysterolithus*, Quenstedt.  
     *Fusella*, M'Coy.  
     *Choristites*, Fischer.  
     *Choristites*, Quenstedt.  
     *Choristides*, Keferstein.  
     *Delthyris*, Dalman.  
     *Brachythyris*, M'Coy.  
     *Trigonotreta*, König, Meek.  
     *Trigonotetra*, Keferstein.  
     *Reticularia*, M'Coy.  
*Martinia*, M'Coy.  
     *Ambocoelia*, Hall.  
     *Ambocoilia*, Quenstedt.  
*Syringothyris*, Winchell.  
     *Spirifer*, King, Meek.  
*Cyrtia*, Dalman.  
     *Cyrthia*, D'Orbigny.  
*Cyrtina*, Davidson.  
     *Cyrtaena*, Hall.  
 (?) *Mentzelia*, Quenstedt.  
*Suessia*, Deslongchamps.  
*Spiriferina*, D'Orbigny.  
     \*           \*  
 (?) *Skenidium*, Hall.

## Fam. PORAMBONITIDÆ.

*Porambonites*, Pander.  
     *Priambonites*, Agassiz.  
     *Isorhynchus*, King.

## Fam. STROPHOMENIDÆ.

*Strophomena*, Blainville.  
     *Hemipronites*, Meek.  
     *Strophonema*, Rang.  
     *Orthis*, King, 1850.  
     *Leptaena*, sp. Dalman.  
     *Strophomena*, Davidson (pars).  
*Hipparionyx*, Vanuxem.  
     (?) *Orthotheses*, Fischer, 1837.  
     *Orthotheses*, Fischer, 1850.  
     *Orthotheses*, D'Orbigny.  
     *Orthotetes*, Oken.  
     *Streptorhynchus*, King.  
 (?) *Plectambonites*, Pander.  
     *Leptaena*, sp. Dalman.  
     *Leptaena*, King, 1846.  
     *Strophomena*, Meek, 1873.  
     *Leptagonia*, M'Coy.  
     *Leptagonia*, Agassiz.  
*Leptaena*, Dalman (pars).  
     *Leptaena*, Davidson.  
     *Plectambonites*, King.  
*Stropheodonta*, Hall.  
     *Strophodonta*, Hall.  
     *Strepheodonta*, Marschall.  
*Klitambonites*, Pander.  
     *Pronites*, Pander, not Illiger.  
     *Prionites*, Agassiz.  
     *Clitambonites*, Agassiz.  
     *Hemipronites*, Pander.  
     *Hemiprionites*, Agassiz.  
     *Gonambonites*, Pander.  
     *Orthisina*, D'Orbigny.  
     *Orthisina*, Davidson.  
*Orthis*, Davidson.  
     *Orthis*, Dalman (pars).  
     *Orthambonites*, Pander.  
     *Strophomenes*, Steininger.  
     *Schizophoria*, King.  
     *Platystrophia*, King.  
     *Platistropheia*, Quenstedt.  
 (?) *Meekella*, White & St. John.  
*Bilobites*, Linné.  
     *Dicaelosia*, King.  
*Brachyprion*, Shaler.  
     (Doubtful.)  
 ? *Amphiclina*, Laube.  
 ? *Aulacorhynchus*, Dittmar.  
 ? *Enteleles*, Fischer.  
     *Entellites*, Sowerby.  
     *Anteleles*, D'Orbigny.  
 ? *Iphidea*, Billings.  
 ? *Tropidoleptus*, Hall.  
 ? *Skenidium*, Hall.

## Fam. PRODUCTIDÆ.

Productus, Sowerby.

*Producta*, Sowerby, jr.*Producta*, M'Coy.*Protonia*, Link.\* *Pyxis*, Chemnitz.*Arbusculites*, Murray.*Arbusculithes*, Paetel.

Chonetes, Fischer.

*Leptaena*, M'Coy.*Chonetus*, Paetel.

Productella, Hall.

Strophalosia, King.

*Strophalosia*, Gray.*Strophalosia*, Bronn.*Leptaenalosia*, King.*Orthothrix*, Geinitz.*Orithothrix*, Davidson.*Orthotrix*, auct.

Aulosteges, Helmersen.

## LYOPOMATA.

## Fam. SIPHONOTRETIDÆ.

Siphonotreta, Verneuil.

*Siphonotrema*, Dana.

Mesotreta, Kutorga.

Acrotreta, Kutorga.

Volborthia, Möller.

? Eichwaldia, Billings.

? Iphidea, Billings.

## Fam. TRIMERELLIDÆ.

Trimerella, Billings.

*Trimecella*, Paetel.*Gotlandia*, Dall.*Rhynobolus*, Hall.*Obolellina*, Billings.

Dinobolus, Hall.

*Ungulites*, Quenstedt.*Conradia*, Hall.

Monomerella, Billings.

? Lingulops, Hall.

## Fam. OBOLIDÆ.

Helmersenian, Pander.

Keyserlingia, Pander.

? Kutorgina, Billings (pars).

*Kortugina*, Davidson.

Monobolina, Salter.

Obolella, Billings.

? Spondylobolus, M'Coy.

*Spondylobolus*, Davidson.

Aulonotreta, Kutorga (pars).

*Leptobolus*, Hall.*Leptobulus*, Hall.*Acritis*, Volborth.*Acrites*, Dav. & King.

Obolus, Eichwald.

*Obulus*, Quenstedt.*Ungula*, Pander.*Ungulites*, Bronn.*Aulonotreta*, sp. Kutorga.(?) *Schmidtia*, Volborth, not Bals.-Criv.*Dicellomus*, Hall.

## Fam. LINGULIDÆ.

Dignomia, Hall.

Lingulella, Salter.

Lingulepis, Hall.

Glottidia, Dall.

Glossina, Phillips.

Lingula, Brugière.

*Ligula*, Cuvier.*Ligularius*, Dumeril.*Lingularius*, Herrmannsen.*Pharetra*, Bolten.

## Fam. DISCINIDÆ.

Discina, Lamarck.

*Orbicula*, Sowerby.

Disciniscia, Dall.

Trematis, Sharpe.

*Orbicella*, D'Orbigny.

Orbiculoidea, D'Orbigny.

*Schizotreta*, Kutorga.*Shizotreta*, Davidson.

Schizocrania, Hall &amp; Whitfield.

## Fam. CRANIIDÆ.

Crania, Retzius.

\* *Criopoderma*, Poli.\* *Criopiderma*, Poli.*Criopododerma*, Agassiz.*Criopus*, Gray.*Cryopus*, Deshayes.*Craniolites*, Schlotheim.*Craniolithes*, auctt.*Discina*, Turton.\* *Nummulus*, Waller.*Numulus*, Agassiz.*Orbicula*, Cuvier.*Orbicularius*, Dumeril.

Craniscus, Dall.

Ancistrocrania, Dall.

*Cranopsis*, Dall, not Adams.

Pseudocrania, M'Coy.

*Craniops*, Hall.

Pholidops, Hall.

*Palæocrania*, Quenstedt.

Choniopora, Schauroth.



GENERA INCERTÆ SEDIS.

*Mostly indeterminable and of Rafinesque.*

<i>Amblotrema</i> , Rafinesque.	<i>Megarites</i> , Rafinesque.
<i>Amblytrema</i> , Agassiz.	<i>Megorima</i> , Rafinesque.
<i>Aplecerotis</i> , Paetel.	<i>Obovites</i> , Rafinesque.
<i>Apleurotis</i> , Rafinesque.	<i>Orthothetes</i> , Evans, 1829.
* <i>Bufocephalus</i> , Linné.	<i>Orthothetes</i> , Fischer, 1837.
* <i>Bursula</i> , Klein.	<i>Pachiloma</i> , Rafinesque.
* <i>Capsularia</i> , Llhwyd.	<i>Pachyloma</i> , Herrmannsen.
<i>Clipsilia</i> , Rafinesque.	* <i>Peridiolithus</i> , Hüpsch.
* <i>Conchyliolithus</i> , Martin.	<i>Plachiloma</i> , Ferussac.
<i>Cranicella</i> , Rafinesque.	<i>Platilites</i> , Rafinesque,
<i>Curvulites</i> , Rafinesque.	<i>Pleuranisis</i> , Rafinesque.
<i>Cyclothyris</i> , M'Coy.	<i>Pleurecterites</i> , Bronn.
<i>Delthyridea</i> , M'Coy.	<i>Pleureterites</i> , Rafinesque.
<i>Diclipites</i> , Rafinesque.	<i>Pleurinca</i> , Rafinesque.
<i>Diclisma</i> , Rafinesque.	<i>Strophesia</i> , Rafinesque.
<i>Discinella</i> , Hall.	<i>Strophomenes</i> , Rafinesque.
<i>Epithyris</i> , Phillips.	<i>Styriasis</i> , Rafinesque.
<i>Goniclis</i> , Rafinesque.	<i>Telestrophis</i> , Agassiz.
<i>Gonotrema</i> , Rafinesque.	<i>Telistrophis</i> , Rafinesque.
<i>Hemiasterias</i> , Herrmannsen.	<i>Trigorima</i> , Rafinesque.
<i>Hemisterias</i> , Rafinesque.	<i>Trunculites</i> , Rafinesque.
<i>Megarima</i> , Deshayes.	<i>Zonarites</i> , Rafinesque.

GENERA CONTAINING A HETEROGENEOUS ASSEMBLY, OF WHICH SOME SPECIES ARE KNOWN OR SUPPOSED TO HAVE BEEN BRACHIOPODS.

<i>Anomia</i> , Linné.	* <i>Onychites</i> , Mercati.
* <i>Anomites</i> , Schlotheim.	* <i>Ostracites</i> , Llhwyd.
* <i>Bucardites</i> , Argenville.	* <i>Ostreopectinites</i> , auctt.
<i>Clavagella</i> , Goldfuss.	<i>Patella</i> , Linné.
* <i>Ctenites</i> , Kenntman.	* <i>Pectinites</i> , auctt.
* <i>Cunolites</i> , auctt.	* <i>Pectunculi</i> , auctt.
* <i>Gryphites</i> , Llhwyd.	* <i>Pectunculus</i> , Gesner.
* <i>Gryphytes</i> , Da Costa.	* <i>Pectunculites</i> , Lister.
<i>Helmintholithus</i> , Linné.	<i>Pycnodonte</i> , Fischer.
<i>Hipponyx</i> , Morris.	<i>Siphonaria</i> , Quenstedt.
* <i>Hysterolites</i> , Schlotheim.	* <i>Stola</i> , Klein.
<i>Hysterolithes</i> , Link.	<i>Trigonelles</i> , Fischer.
* <i>Hysterolithos</i> , Grew.	* <i>Trigonellites</i> , auctt.
* <i>Hysterolithus</i> , Aldrovandus.	* <i>Urticites</i> , auctt.
* <i>Hysteropetra</i> , Cardan.	

GENERA ERRONEOUSLY REFERRED TO THE BRACHIOPODA.

ACEPHALA.	LUCINIDÆ.
ANOMIIDÆ.	Paracyclas, Hall.
Ænigma, Koch.	CRUSTACEA.
CARDITIDÆ.	ENTOMOSTRACA.
Orthonata, Emmons.	Daphnoidea, Hibbert.

## COELENTERATA.

## CALCEOLIDÆ.

Hypodema, Koninck.

Calceola, Lamarck.

\* *Calcoites*, Schlotheim.\* *Crepidites*, Schröter.\* *Crepidolite*, Rozier.\* *Crepidolithus*, Hüpsch.\* *Crepite*, Rozier.\* *Crepites*, Hüpsch.\* *Pilolithus*, Beuth.\* *Sandaliolite*, Rozier.\* *Sandaliolithus*, Hüpsch.\* *Sandalite*, Rozier.\* *Sandalites*, Hüpsch.*Sandalium*, Oken.*Calceolaria*, Griffith.*Rhizophyllum*, Lindström.

? ?

Chelodes, (D. &amp; K.) Lindström.

From the preceding list it appears that about four hundred and sixty-three generic and subgeneric names have been rightly or wrongly associated with the group of Brachiopoda. Eighty-seven have been assigned to the *Terebratulidæ*, sixty-five to the *Rhynchonellidæ* as generally understood, fifty-three to the *Spiriferidæ*, and fifty-two to the *Strophomenidæ*. Of all these, only about one hundred and thirty have been at all generally accepted, being about three and a half names to each group. Sixteen families and two orders are here recognized. The general list contains about seven hundred names. It is estimated that there are about ten thousand names and synonymes which have been used in the sub-kingdom of *Mollusca*, taken in its extended sense, of which the Brachiopods contribute about six per cent.

*List of the Linnean species of Brachiopoda described in the Systema Naturæ, ed. X and XII, with their modern equivalents, chiefly on the authority of Sharpe, Hanley, and Davidson.*

Ed.	Linnean name.	Modern name.
X	<i>Anomia craniolaris</i> .	<i>Crania craniolaris</i> , Dall.
X	<i>Anomia pectinata</i> .	<i>Trigonosemus pectinatus</i> , Gray.
X	<i>Anomia scobinata</i> .	? <i>Megerlia truncata</i> , Dav.
X	<i>Anomia aurita</i> .	? <i>Terebratulina caputserpentis</i> , D'Orb.
X	<i>Anomia retusa</i> .	<i>Terebratulina caputserpentis</i> , D'Orb.
X	<i>Anomia pecten</i> .	<i>Strophomena pecten</i> , Dav.
X	<i>Anomia striata</i> .	?
XII	<i>Anomia truncata</i> .	<i>Megerlia truncata</i> , Dav.
X	<i>Anomia reticularis</i> .	<i>Atrypa reticularis</i> , Dalman.
X	<i>Anomia plicatella</i> .	<i>Spirifer interlineatus</i> , Sowerby.
X	<i>Anomia crispera</i> .	<i>Spirifer sulcata</i> , Davidson.
X	<i>Anomia lacunosa</i> .	<i>Rhynchonella Wilsoni</i> , Sow.
XII	<i>Anomia pubescens</i> .	<i>Ter. caputserpentis</i> (juv.).
X	<i>Anomia farcta</i> .	<i>Terebratula obsoleta</i> , Sowerby.
XII	<i>Anomia caputserpentis</i> .	<i>Ter. caputserpentis</i> , D'Orbigny.
X	<i>Anomia terebratula</i> .	<i>Terebratula perovalis</i> , Sowerby.
XII	<i>Anomia excavata</i> .	<i>Terebratula excavata</i> , Phillips.
X	<i>Anomia hysterita</i> .	<i>Orthis striatula</i> , Davidson.
XII	<i>Anomia spinosa</i> .	<i>Acanthothyris spinosa</i> , D'Orb.
X	<i>Anomia biloba</i> .	<i>Orthis (Bilobites) biloba</i> , Quenst.
X	<i>Conchidium bilocularis</i> .	<i>Gypidia conchidium</i> , Dalm.
X	<i>Patella unguis</i> .	<i>Lingula + Parmophorus</i> , sp. incert.



Table showing approximately the known distribution of the chief groups of Brachiopoda in geological time—Continued.

	Cambrian.	Silurian.	Devonian.	Carboniferous.	Permian.	Triassic.	Jurassic.	Cretaceous.	Tertiary.	Recent.	
<i>Camarella</i> , Billings (sp.) . . . . .	.		.	.	.	.	.	.	.	.	
<i>Anastrophia</i> , Hall . . . . .	.		.	.	.	.	.	.	.	.	
<i>Amphigenia</i> , Hall . . . . .	.	.		.	.	.	.	.	.	.	
<i>Gypidula</i> , Hall . . . . .	.	.		.	.	.	.	.	.	.	
<i>Pentamerella</i> , Hall . . . . .	.	.		.	.	.	.	.	.	.	
<i>Stenoschisma</i> , (Conrad). . . . .	.	.	?			.	.	.	.	.	
<i>Syntriolasma</i> , Meek. . . . .	.	.	.		.	.	.	.	.	.	
	x	x	x	x	x	x	x	x	x	x	
<b>RHYNCHONELLIDÆ</b> . . . . .		-----									
? <i>Eichwaldia</i> , Billings . . . . .	.		.	.	.	.	.	.	.	.	
<i>Eatonia</i> , Hall. . . . .	.		.	.	.	.	.	.	.	.	
<i>Triplesia</i> , Hall. . . . .	.		.	.	.	.	.	.	.	.	
<i>Antirhynchonella</i> , Quenstedt. . . . .	.		.	.	.	.	.	.	.	.	
<i>Camarella</i> , Billings (pars) . . . . .	.		.	.	.	.	.	.	.	.	
<i>Rhynchonella</i> , Fischer . . . . .	.	-----							?	.	.
<i>Leiorhynchus</i> , Hall, not Rud . . . . .	.	.		?	.	.	.	.	.	.	
<i>Rhynchopora</i> , King . . . . .	.	.	.	.		.	.	.	.	.	
<i>Dimerella</i> , Zittel. . . . .	.	.	.	.	.		?	?	?		
<i>Rhynchonellina</i> , Gemellaro. . . . .	.	.	.	.	.	.		.	.	.	
<i>Acanthothyris</i> , D'Orbigny. . . . .	.	.	.	.	.	.		.	.	.	
<i>Hemithyris</i> , Bronn . . . . .	.	.	.	.	.	.	?	-----			
	x	x	x	x	x	x	x	x	x	x	
<b>ATRYPIDÆ</b> . . . . .		-----									
<i>Zygospira</i> , Hall . . . . .	.				.	.	.	.	.	.	
<i>Coelospira</i> , Hall . . . . .	.				.	.	.	.	.	.	
<i>Atrypa</i> , Dalman . . . . .	.				.	.	.	.	.	.	
<i>Anoplotheqa</i> , Sandberger . . . . .	.	.			.	.	.	.	.	.	
<i>Davidsonia</i> , Bouch . . . . .	.	.			.	.	.	.	.	.	
? <i>Koninckina</i> , Suess. . . . .	.	.			.		.	.	.	.	
	x	x	x	x	x	x	x	x	x	x	
<b>SPIRIFERIDÆ</b> . . . . .		-----									
? <i>Skenidium</i> , Hall . . . . .	.		.	.	.	.	.	.	.	.	
<i>Meristina</i> , Hall (?) . . . . .	.		.	.	.	.	.	.	.	.	
<i>Meristella</i> , Hall, 1861. . . . .	.				.	.	.	.	.	.	
<i>Merista</i> , Suess. . . . .	.				.	.	.	.	.	.	
<i>Athyris</i> , M'Coy . . . . .	.	-----									
<i>Spirifer</i> , Sowerby. . . . .	.					.	.	.	.	.	
<i>Cyrtia</i> , Dalman . . . . .	.		?	.	.	.	.	.	.	.	

Table showing approximately the known distribution of the chief groups of Brachiopoda in geological time—Continued.

	Cambrian.	Silurian.	Devonian.	Carboniferous.	Permian.	Triassic.	Jurassic.	Cretaceous.	Tertiary.	Recent.
<i>Cyrtina</i> , Davidson . . . . .	.	—	—	—	.	.	.	.	.	.
<i>Nucleospira</i> , Hall. . . . .	.	—	—	.	.	.	.	.	.	.
<i>Trematospira</i> , Hall . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Retzia</i> , King . . . . .	.	—	—	—	.	.	.	.	.	.
<i>Acambona</i> , White . . . . .	.	.	.	—	.	.	.	.	.	.
<i>Charionella</i> , Billings . . . . .	.	.	—	.	.	.	.	.	.	.
<i>Pentagonia</i> , Cozzens. . . . .	.	.	—	.	.	.	.	.	.	.
<i>Uncites</i> , DeFrance. . . . .	.	.	—	.	.	.	.	.	.	.
<i>Spiriferina</i> , D'Orbigny. . . . .	.	—	—	—	—	—	—	.	.	.
{ <i>Ambocoelia</i> , Hall . . . . .	.	.	—	?	.	.	.	.	.	.
{ <i>Martinia</i> , M'Coy . . . . .	.	.	—	—	.	.	.	.	.	.
<i>Syringothyris</i> , Winchell . . . . .	.	.	.	—	.	.	.	.	.	.
<i>Suessia</i> , Deslongchamps . . . . .	.	.	.	.	.	.	—	.	.	.
<i>Mentzelia</i> , Quenstedt . . . . .	.	.	.	.	.	.	—	.	.	.
	x	x	x	x	x	x	x	x	x	x
PORAMBONITIDÆ . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Porambonites</i> , Pander . . . . .	.	—	.	.	.	.	.	.	.	.
	x	x	x	x	x	x	x	x	x	x
STROPHOMENIDÆ. . . . .										
? <i>Iphidea</i> , Billings . . . . .	—	—	.	.	.	.	.	.	.	.
<i>Orthis</i> , Dalman . . . . .	—	—	—	—	?	.	.	.	.	.
<i>Platystrophia</i> , King. . . . .	.	—	.	.	.	.	.	.	.	.
<i>Bilobites</i> , Linné . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Brachyprion</i> , Shaler. . . . .	.	—	.	.	.	.	.	.	.	.
<i>Stropheodonta</i> , Hall. . . . .	.	—	—	.	.	.	.	.	.	.
<i>Klitambonites</i> , Pander . . . . .	.	—	?	?	?	.	.	.	.	.
? <i>Skenidium</i> , Hall . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Strophomena</i> , Blainville . . . . .	.	—	—	—	?	.	.	.	.	.
<i>Leptaena</i> , Dalman . . . . .	.	—	—	—	—	—	—	.	.	.
<i>Streptorhynchus</i> , King. . . . .	.	?	—	—	—	.	.	.	.	.
<i>Hipparionyx</i> , Vanuxem . . . . .	.	?	—	?	?	.	.	.	.	.
<i>Meckella</i> , White & St. John . . . . .	.	.	.	—	.	.	.	.	.	.
? <i>Aulacorhynchus</i> , Dittmar . . . . .	.	.	.	—	.	.	.	.	.	.
? <i>Amphiclina</i> , Laube . . . . .	.	.	.	.	.	—	.	.	.	.
	x	x	x	x	x	x	x	x	x	x
PRODUCTIDÆ . . . . .	.	—	—	—	—	.	.	.	.	.
<i>Chonetes</i> , Fischer. . . . .	.	—	—	—	—	.	.	.	.	.
<i>Strophalosia</i> , King . . . . .	.	.	—	—	—	.	.	.	.	.



Table showing approximately the known distribution of the chief groups of Brachiopoda in geological time—Continued.

	Cambrian.	Silurian.	Devonian.	Carboniferous.	Permian.	Triassic.	Jurassic.	Cretaceous.	Tertiary.	Recent.
<i>Trematis</i> , Sharpe . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Orbiculoidea</i> , D'Orbigny . . . . .	.	.	.	.	.	.	—	—	.	.
<i>Discina</i> , Lamarek . . . . .	.	.	.	.	.	.	?	?	—	—
	x	x	x	x	x	x	x	x	x	x
CRANIIDÆ . . . . .	.	—	—	—	—	—	—	—	—	—
? <i>Pseudocrania</i> , M'Coy . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Crania</i> , Retzius . . . . .	.	?	—	—	—	—	—	—	—	—
<i>Choniopora</i> , Schauroth . . . . .	.	.	.	.	—	.	.	.	.	.
<i>Craniscus</i> , Dall . . . . .	.	.	.	.	.	.	—	.	.	.
<i>Ancistrocrania</i> , Dall . . . . .	.	.	.	.	.	.	.	—	.	.

Table of the geological distribution of the known families.

	Cambrian.	Silurian.	Devonian.	Carboniferous.	Permian.	Triassic.	Jurassic.	Cretaceous.	Tertiary.	Recent.
LYOPOMATA.										
<i>Craniidæ</i> . . . . .	.	—	—	—	—	—	—	—	—	—
<i>Discinidæ</i> . . . . .	.	—	—	—	—	—	—	—	—	—
<i>Lingulidæ</i> . . . . .	.	—	—	—	—	—	—	—	—	—
<i>Trimirellidæ</i> . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Siphonotretidæ</i> . . . . .	—	—	.	.	.	.	.	.	.	.
<i>Obolidæ</i> . . . . .	—	—	.	.	.	.	.	.	.	.
ARTHROPOMATA.										
<i>Strophomenidæ</i> . . . . .	.	—	—	—	—	—	—	.	.	.
<i>Productidæ</i> . . . . .	.	—	—	—	—	.	.	.	.	.
<i>Spiriferidæ</i> . . . . .	.	—	—	—	—	.	.	.	.	.
<i>Atrypidæ</i> . . . . .	.	—	—	?	?	.	.	.	.	.
<i>Pentameridæ</i> . . . . .	.	—	—	—	—	.	.	.	.	.
<i>Rhynchonellidæ</i> . . . . .	.	—	—	—	—	.	.	.	.	.
<i>Porambonitidæ</i> . . . . .	.	—	.	.	.	.	.	.	.	.
<i>Terebratulidæ</i> . . . . .	.	—	—	—	—	.	.	.	.	.
<i>Stringocephalidæ</i> . . . . .	.	.	—	.	.	.	.	.	.	.
<i>Thecididæ</i> . . . . .	.	.	.	?	?	—	—	—	—	—

It is seen that of sixteen families, six have living representatives, one more than appear to have been represented during the Cambrian epoch; while but two of the Cambrian families have survived. All those living in Cretaceous times have endured till now. All now living had Paleozoic representatives, while half the Paleozoic families do not appear to have survived the changes which introduced the Mesozoic time.

## A D D E N D A .

(December, 1877.)

- Acrothele**, Linnarson. *Discinidæ*. 1876.  
 Bihang till K. Svensk. Vet. Ak. Handl. iii, No. 12, p. 20. 1st sp. *A. coriacea*, Linnars. l. c. p. 21, pl. iv, f. 44-45. (Cambrian.) Comp. *Mesotreta*, Kutorga. Much like typical *Discina*.
- Ægilops**, Hall. ? *Brachiopoda*. 1850.  
 Third Regent's Rep. App. K. p. 171; sole ex. *Æ. subcarinata*, Hall, l. c. pl. 4, f. 1 a-b. (Trenton.) A squeezed indeterminate cast, described (inferentially) as a Lamellibranch, but referred to Brachiopoda by Miller, Am. Pal. Fos. p. 103, 1877; no diagnosis; *incert. sedis*.
- Lysingothyris**, Hall. *Spiriferidæ*. 1868.  
 Twentieth Reg. Rep. p. 388, note; *lapsus* = *Syringothyris*, Winchell.
- Orthoidea**, Friren (?). *Incert. sedis*. 1875.  
 Bull. Soc. Nat. Hist. de Metz, 1875, p. 22, pl. i, ii. (Middle Lias.) *O. liasina*, Fr. n. s. Quoted as a Brach. in Geol. Rec. for 1875, index of n. s. p. 351.
- Pronites**.  
 This term, as used by Illiger, was spelled *Prionites*. This does not, however, affect the synonymy in Brachiopods.
- Rhizophyllum**, Lindström. *Coelenteratæ*.  
 Dr. Lindström is convinced that this is distinct from *Calceola*.
- Suessia**, Deslongchamps. *Spiriferidæ*. 1854.  
 First published by Dav. l. c. (See p. 69.) Afterward in Ann. Inst. Prov. 1855 (not 1854); extras, p. 6, f. 8-11, 12-16. 1st sp. *S. imbricata*, Suess, l. c.
- Trematis**, Sharpe. *Discinidæ*. 1847.  
 Page 73, instead of "Type" read "1st sp. l. c. p. 68, f. 1-3," *Orbicularia terminalis*, etc.