

solution of nitrate of silver. When heated, this compound fuses, then detonates with considerable energy, and leaves cyanuret of silver, which probably contains a minimum of cyanogen. It contains no water. If its constitution be analogous with that of the foregoing salt, it ought to be composed of

Nitrate of oxide of silver	1 atom	38.79
Cyanuret of silver	2	61.21
		100.00

It ought, therefore, to contain 70.76 per cent. of metallic silver. This was confirmed by an experiment in which 0.43 gramme of the salt, decomposed by muriatic acid, yielded me 0.387 gramme of fused chloride of silver, equivalent to 69.74 per cent of metallic silver.

I made many attempts, but without success, to form analogous compounds by boiling other metallic cyanurets in a solution of nitrate of silver. Cyanuret of nickel, treated in this manner, instantly gave cyanuret of silver, and nitrate of oxide of nickel: a similar decomposition took place with cyanuret of zinc. Prussian blue occasioned the evolution of nitrous gas, and there was obtained a solution of nitrate of oxide of iron, and a precipitate consisting of a mixture of oxide of iron and cyanuret of silver. Cyanuret of lead yielded a solution of nitrate and subnitrate of lead, and a black coloured precipitate, which the application of nitric acid proved to consist of metallic silver and white cyanuret of silver. Cyanuret of copper, boiled in a solution of nitrate of silver, gave a precipitate consisting entirely of metallic silver. Cyanuret of palladium, similarly treated, sustained no alteration.

ARTICLE IX.

A List and Description of some Species of Shells not taken Notice of by Lamarck. By John Edward Gray, Esq. MGS.

(To the Editors of the *Annals of Philosophy*.)

GENTLEMEN,

British Museum, Jan. 10, 1825.

IN the following list I have referred several species, which have not been taken notice of by Lamarck, to his genera, and have described some new ones that are contained in the collection in the British Museum, where most of the species are exhibited with the names, here adopted, attached.

Your obedient servant,
J. E. GRAY.

1. MOLLUSCA CONCHIFERA.

ASPERGILLUM Javanum, Lam. disco subperforato, tubuli fimbriæ distinctis crassis, *Martini*, t. 1, f. 7.

A. Listeri. disco confertissime perforato, tubulis fimbriæ confertis tenuibus, *List.* t. 548, f. 3. *A. vaginiferum*, *Lam.*? I think that all the species of this genus will be found to have a foliaceous mouth to their tube when they are perfect.

Mya Binghami. *Sphænia Binghami*, *Turton*.

ANATINA. The shells of this genus always have a loose piece in their hinge which is very much developed in *A. Norvegica*, but is distinctly to be found in *A. Prætenuis* and *A. Myalis*.

Anatina globosa. *Mya globosa*, *Wood*, t. 24, f. 4—6.

An. Nicobarica. *Mya Nicobarica*, *Gmelin*.

An. prætenus. *Mya prætenus*, *Montague*, t. 1, f. 2.

An. distorta. *Mya distorta*, *Montague*, t. 1, f. 1.

An. convexa. *Mya convexa*, *Wood*, t. 18, f. 1.

An. Norvegica. *Mya Norvegica*, *Chemn.* x. 1647, 1648. *Amphidesma corbuloides*, *Lam. Hist.* 492.

An. membranacea. *Mya membranacea*, *Dillwyn*, 48.

LUTRARIA vitrea. *Mactra vitrea*, *Chemn.* xi. f. 1959, 1960.

L. fragilis. *Mactra fragilis*, *Chemn.* vi. f. 235.

MACTRA Campechensis. *List.* 304, f. 141.

M. squamosa. *Solen squamosus*, *Montague*.

ERYCINA. *Lam.* Several of Lamarck's *Crassatellæ* agree with the character of this genus; therefore I have removed them as far as I have any grounds. The recent species of Lamarck is a *Cytherea*.

Ery. denticulata. Testa elongato-cuneata, dentibus lateralibus serrulatis.

Ery. striata. *Crassatella striata*, *Lam.* 483.

Ery. subangulata. *Crassatella cuneata*, *Lam.* 483?

Ery. glabrata. *Crassatella glabrata*, *Lam.* 482.

Ery. ovata. Testa ovato-elongata, cardine in medio te sæ

Ery. Australis. *Mya Novæ Zealandiæ*, *Chemn.* vi. f. 19, 20.

UNGULINA. The only species of this genus that I have seen appear to be too nearly allied to *Amphidesma* to be kept distinct.

AMPHIDESMA decussatum. *Tellina decussata*, *Wood*, t. 43, f. 2, 3.

Amph. cordiforme. *Tellina cordiformis*, *Chemn.* xi. f. 19, 41, 42.

Amph. variabile. *Tellina obliqua*, *Wood*, t. 41, f. 4, 5.

Amph.? nitens. *Mya nitens*, *Montague*.

CORBULA labiata. *Mya labiata*, *Maton, Lin. Trans.*

PANDORA glacialis. Testa semicircularis, cardine submedio, margine dorsali recto.

LITHOPHAGÆ. The whole of the genera of this family appear to have very great affinity to the *Carditæ*, *Cypricardiæ*, &c. and should be placed nearer to them in a natural arrangement as well as the latter genera themselves; but these genera appear to be the most defective part of Lamarck's arrangement.

PETRICOLA *costata*, *Lam. Syst.* Venus *Lapicida*, *Chemn.* x. f. 1665, 1666.

Pet. divergens. Venus *divergens*, *Gmelin.*

Pet. nivea. *Mytilus niveus*, *Chemn.* viii. t. 82, f. 734.

Pet. suborbicularis. *Mya suborbicularis*, *Montague.*

Pet. bidentata. *Mya bidentata*, *Montague.*

Pet. rubra. *Cardium rubrum*, *Montague.*

VENERUPIS *monstrosa.* Venus *monstrosa*, *Chemn.* vii. f. 42.

Ven. decussata. *Mya decussata*, *Montague.*

TELLINA *tenera.* *Macroma tenera*, *Leach.*

LUCINA *Childrenæ.* Testa suborbiculata inequivalvis alba subantiquata; tenuissime radiata substriata: long. 3 unc. Brazil, *Humphreys. nob. Zool. Jour.* i. 221.

Luc. gibba. *Tellina divaricata* var. *Chemn.* vi. f. 130.

Luc. globosa. Venus *globosa*, *Chemn.* vii. f. 430, 431.

Luc. scabra. *Tellina scabra*, *Chemn.* xi. f. 1943, 1944.

Luc. divaricata. var.? *Tellina dentata*, *Wood*, t. 46, f. 6.

TELLENIDES? *triangularis.* *Tellina triangularis*, *Chemn.* vi. t. 10, f. 85.

DONAX *veneroidea.* Venus *donaci formis*, *Chemn.* xi. f. 1983, 1984.

Don. scalpellum. Testa elongata, complanata, tenuis purpureo radiata, polita, tenuissime radiato-striata; antice valde elongata rotundata, lutea; postice oblique truncata, biangulata, purpurea, margine minute denticulato.

CRASSINA *borealis.* Venus *borealis*, *Chemn.* vii. f. 412—414. *Cyrena! depressa*, *Lam.?*

Crass. triangularis. *Mactra triangularis*, *Montague.*

Crass. minutissima. *Mactra minutissima*, *Montague*, An var. *prioris?*

Crass. minima. Venus *minima*, *Montague*, t. 3, f. 3.

Crass. subcordata. Venus *subcordata*, *Montague*, t. 3, f. 1.

Crass. sulcata. Venus *sulcata*, *Montague*, *Lam.* 427.

Crass. Montagui. Venus *compressa*, *Montague*, t. 26, f. 1.

Crass. Scotica. Venus *Scotica*, *Maton*, *Lin. Trans.* t. 2, f. 3. *Lam.* 455.

Crass. Banksii. *Nicania Banksii*, *Leach.*

Crass. striata. *Nicania striata*, *Leach.*

CYRENA *cyprinoides.* Testa cordato-trigona, gibba, olivacea, concentrice sulcata; cardine incrassata, dentibus lateralibus lævibus, anteriori conico cæteris approximato. Japan, long. 15-16, unc.

Cyr. Childrenæ. Testa orbiculato-cordata, lævis olivacea antice distanter irregulariter concentrice costata, intus purpureo aurantia; dentibus lateralibus serrulatis. *Encyc. Method.* t. 301, f. 1, long. 2 unc. Lamarck has referred this figure to *Cyprina Islandica*, but the teeth are evidently serrulated, &c.

Cyr. limosa. *Tellina limosa*, *Maton*, *Lin. Trans.* x. t. 24, f. 8—10.

CYTHEREA (b) albida. *Venus albida*, *Gmelin*, *List.* 273, f. 109.

Cyth. (a) crassa. Testa cordato-triangulata, gibba, crassa, polita, lutea, latere postico purpureo livido, lunulâ lanceolato-cordata magnâ; dentibus valde incrassatis. long. 18-10, unc. *Madras*, *Humphreys*, *Mus Cracherode*.

Cyth (a) pinguis. Testa cordato-triangulata solida, polita lutea lurida; umbonibus biradiatis; latere postico lunulâque purpureo-livida; intus carneo-albidis, punctis fuscis ornatis. long. 13-18 unc. *Bombay*, *Humphreys*, *Mus Cracherode*.

β minor subradiata striata, margine tumido.

Cyth. (a) scripta. *Donax scripta*, *Lin. Lam.!*

Cyth. (a) Solanderii. Testa ovata gibba, lævi polita albida purpureo variegata; umbonibus stellatis; intus albida; margine crenato; latere postico maculis purpureis natato. long. 13-18. "Venus hyans *Soland. MSS.*" *Humphreys*. Like the former, but much more gibbous, and in the different teeth none of these three species have any affinity to *Donax*, with which Lamarck placed them.

Cyth (a) meroe. *Venus meroe*, *Lin. Donax! meroe*, *Lam. Venus donaciformis*, *Gmelin*.

Cyth. (b) cardoides *Erycina cardoides*, *Lam.*

Cyth. (b) exilis. *Venus exilis*, *Chemn.* vi. t. 34, f. 362, 363.

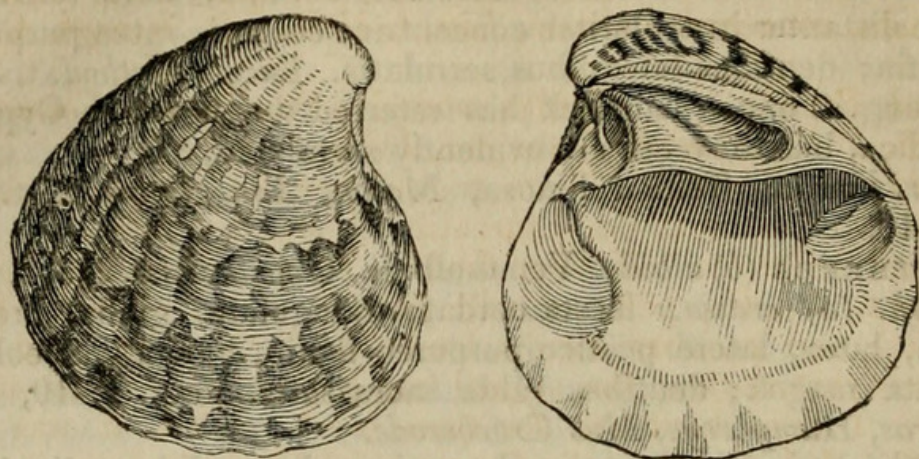
Cyth. (d) Histrio. *Venus exoleta variegata*, *Chemn.* vii. f. 407.

VENUS aurisiaca. Testa ovato-trigona, polita subconcentrice striata, pallide fusca, obscure trizonata; latere postico elongato; lunula scutulaque lanceolatis, purpureo variegatis: intus aurantiaca, long. 9-10 unc. *Mus Cracherode*.

Ven? papyracea. Testa ovata gibba papyracea tenui pellucida alba subantiquata; umbonibus concentrice sulcatis; margine cardinali antice impresso. An novum genus? An *Lithophagæ*? Testa peculiaris.

Ven. rotundata. *Tellina rotundata*, *Montague*, t. 2, f. 3.

VENERICARDIA megastropa. Testa oblique cordata crassa albida, rufo variegata, costis convexis rugosis; margine cardinali crassissimo. long. unc. *New Holland?* E. dono. *Dom. Bennet*. (See figure on next page.)



CARDIUM semisulcatum. Testa transversa, ovata lutea rosea vel albida, costato-striata, subspinoso; latere antico conferte striato; postico producto, aperto, distanter costato; margine dentato. long. 7-10 unc. *C. bullato* similis.

Card. crenatum. Testa cordata, alba, umbonibus carinatis, costis 22 convexis, anticis minoribus, lunula profundissima callosa intrusa.

ARCA trigona. Testa subcordata trigona turgida, angulata; latere antico plano. long. 1 unc. peculiar for having the form of *Hippopus maculatus*.

NUCULA Montagui. Arca rostrata, Mont. Sup. t. 27, f. 7.

Nuc. minuta. Arca minuta, Muller.

Nuc. tenuis. Arca tenuis, Montague.

Nuc. glacialis. Lenbulus glacialis, Leach.

UNIO ponderosa. Mya crassa, Wood, t. 20, 21.

Un. nodulosa. Mya nodulosa, Wood, t. 22, f. 1—4.

Un. plumbea. Chama plumbea, Chemn. xi. t. 203, f. 1991, 1992. N. B. Chama is certainly the best Linnean genus for the freshwater bivalves with irregular teeth.

HYRIA intermedia. Testa ovato-subquadrata, virido-nigra lævis, antice rotundata, postice sinuata; umbonibus prominentibus. long. 26-8 unc. Inter *H. avicularem* et *H. elongatam*.

Hyria Matoni. Mya variabilis, Maton, Lin. Trans. x. t. 24, f. 417.

ANODONTA must be retained instead of *Anodon*, a change first proposed by Dr. Leach in this work, as the latter has been used for a genus of reptiles. If it must be altered, *monodonta*, and several others, will also require it.

Anodonta fluviatilis. Mya fluviatilis, Dillw. 316, List, t. 157, f. 12.

Anodonta Adansonii. Mytilus dubius, Gmel. Adams. t. 17, f. 18.

BARBALA plicata. Dipsas plicatus, Leach, Zool. Misc.

Modiola castanea. Testa convexa, subcylindrica, castanea pellucida, concentric striata, *List*, t. 1065, f. 9, *Rumph.* t. 46, f. 2.

Mod. Brasiliensis. *Mytilus modiolus Brasiliensis*, *Chemn.* xi. f. 2018, 2019. *Mytilus latus jun*, *Dillw.*!

MYTILUS dilatatus. Testa trigona postice rotundata, compressa, umbonibus acutis incurvatis—Mediterranean.

Myt? Volgensis. *Mytilus fluvis*, Volga *Chemn.* *Myt.* polymorphus, *Gmelin*, perhaps will form a genus distinct from *Mytilus*, and peculiar for its freshwater habitation; and like shells of that station, the animal can live for a long time out of water. I have kept one for three weeks, when it was still healthy. It is found in the Commercial Docks, where it most likely has been introduced with timber from the Volga.

CRENATULA. This genus may be divided into two sections, which may perhaps hereafter be considered as genera by the same character as separates *Mytilus* from *Modiola*, § 1. *Testa quadrata umbonibus anterioribus*, which includes the species or rather varieties mentioned by Lamarck. § 2. *Testa ovata umbonibus sub anterioribus* (*Dalacia*) containing the following:

Cre. folium. Testa albida radiata compressa; latere antico rotundato, postico alata, Brande's Journal, xv. t. 2, f. 81. figura pulcherrima. *Vulsella folium*, *Humph.* Mus Cracherode.

LIMA gigantea. Testa crassa, ponderosa, subauriculata albidoro-sea, irregulariter radiata costata striata; intus alba, rufo maculata. lat. 15-4, long. 18-4, unc.

Lim. excavata. *Ostrea excavata*, *Gmelin*.

OSTREA prismatica. Testa elongata lamellosa; intus violacea, albido macerata iridescens; impressione muscularis reniformi translucens; umbonibus truncatis; valvâ superioris planulata. long. 2, lat. 6, unc.

ANOMIA rosea. *Tellina ænigmatica*, *Chemn.* x. t. 199, f. 1949, 1950. Mus. Tankerville.

DISCINA. This genus is certainly distinct from *Orbicula*, which appears to be the same as *Crania*.

Dis. lævis. *Orbicula! lævis*, Sow.

2. MOLLUSCA PTEROPODA.

Lamarck, Cuvier, and Peron, appear to have reversed these animals and the *heteropes*, and called their belly their back, for they certainly, like the *gasteropodes*, swim with their belly upwards, and consequently the latter have their shell placed on their mantle as in the *gasteropodes*; to this order should be referred the genus *Janthina*.

3. MOLLUSCA GASTEROPODA.

PLEUROBRANCHUS Montagui. *Bulla Plumula*, Montague.
Pleu, argenteus. *Bulla membranacea*, Montague.

Siphonaria angulata. Testa convexo conica, angulata radiato-costata; intus fusca. long. 15-10 unc.

PARMOPHORUS elegans. Emarginula breviusculus, Sow. Gen. f. 2, certainly not *Parmophorus breviusculus* of Blainville, as that shell is in the Museum, and is only slightly antiquated. Inter *Parmophoros* et *Emarginulas*.

EMARGINULA cristata. Testa convexo-conica, antice costa media cristata ornata.

(To be continued.)

ARTICLE X.

An Account of a new Mineral. By M. Lévy, MA. in the University of Paris.

(To Mr. Children.)

DEAR SIR,

THROUGH your kindness and that of Mr. James Sowerby, I have been enabled to examine some well-defined single crystals of a substance found at Snowdon, which had been classed by some with rutile, by others with sphene, but which certainly differs from both, its forms being derivable from a right rhombic prism, whilst the primitive form of rutile is a square prism, and that of sphene an oblique rhombic prism. The forms of this substance I have observed are represented by figs. 2, 3, and 4, and although I have not drawn the inferior summit, some of the planes which belong to it occur in some of the crystals. They are flattened parallel to the planes h^1 , and some are more than half an inch in breadth and length. They cleave easily in a direction parallel to the plane g^1 , but the face of cleavage is rather dull. All the natural planes are sufficiently brilliant to be

Fig. 2.

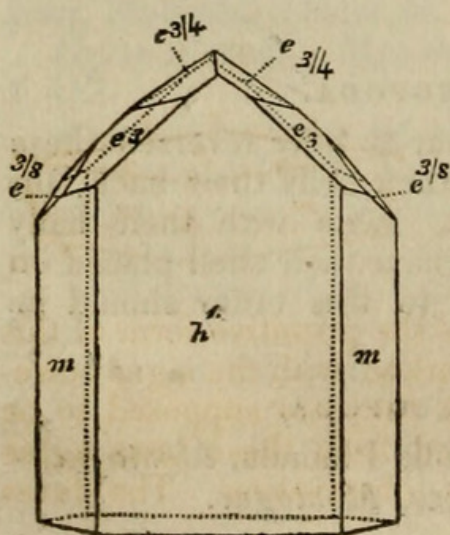
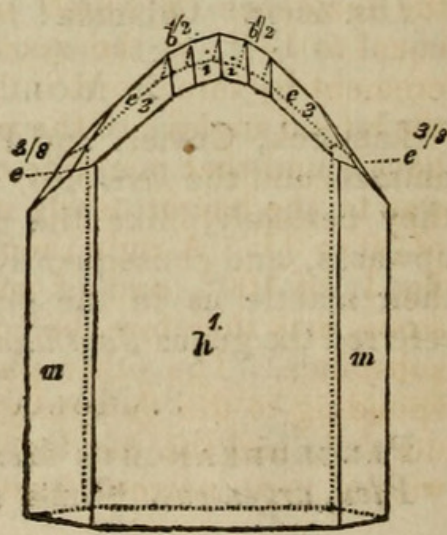


Fig. 3.



ARTICLE II.

A List and Description of some Species of Shells not taken Notice of by Lamarck. By John Edward Gray, Esq. MGS.

(Continued from p. 140.)

EMARGINULA Sicula. Testa subconvexa conica, albida, tenuis, costellis longitudinalibus striisque minutis transversis cancellata; vertice recurvo, subcentrali; apertura ovata; fissura angustissima elongata.

Emar. octoradiata. a. tricarinata, *Born.* t. 18, f. 62. β . P. octo-radiata, *Gmelin, List.* 532, f. 11.

Emar. squamata. Testa subconvexa conica; costellis longitudinalibus inæqualibus, confertis, squamatis; vertice recurvo subcentrali; margine crenato; fissura brevissima.

Emar. notata. Patella notata, *Lin. Chemn.* x. vig. 25, f. C. D.

Emar. elongata. Testa subconvexa conica, pellucida albida; striis confertis longitudinalibus, transversisque cancellata; vertice recurvo submarginali; apertura oblonga; fissura brevissima.

FISSURELLA cancellata. Patella græca, *Montague.*

Fis. crenulata. Sow. gen.

Fis. ventricosa. Patella ventricosa, *Gmelin.*

Fis. clypeiformis. Sow. gen.

PILEOPSIS rosea. Testa obliquè depresso conica; apertura orbiculato-ovata, intus rosea, long. 1 unc.

Pil. mitrula; subrufa; pennata et squamæformis should be removed to the second section, to which also belong

Pil. crenulata. Testa rotunda, obliquè conica, rufo concentricè sublamellata, densè radiatim striata; apice incurvo subspirali; margine minutè crenulato.

Pil. albida. Testa rotundata, obliquè conica, albida, concentricè substriata, densè radiatim striata; vertice recurvo acuto.

CALYPTRÆA Dillwynii. Patella equestris, *Dillw.* C. equestris. *Lam.* is P. Neptuni, *Dillw.* C. Tectum Chinensis appears to be a variety of the former.

Calypt. auricula. Patella auriculata, *Gmelin.* Patella duplicata, *Mawe Cat.* Calypt. extintorium, *Sow.* not *Lam.*

Calypt. puncturata. Testa orbiculata-tenuis, albido-fusca, nigro-punctata, lævis, irregulariter subcostata, margine sinuato angulato; vertice recurvo, subcentrali.

Calypt. spinosa. Sow. gen. f. 4. f. 7.

Calypt. striata. Testa ovato-orbiculata, convexo-conica, alba, densè striata; apice recurvo acuto; margine crenulato.

Calypt. costata. Testa ovato-orbiculata, crassa, convexo-conica, pallidè fusca, radiatim striata et obliquè irregulariter costata; apice acuto recurvo.

Calyp. albida. *Patella Chinensis*, *Montague*, t. 13, f. 4.
 β *rosea*, intus *rosea*.

Calyp. lineata. *Mitella Chinensis alba*, *Martini*, t. 13, f. 121, 122. *Pet. Gaz.* t. 21, f. 11.

Calyp. undulata. *Calyp. extincorium*, *Lam.*? *Mitella Chinensis undulata*, *Mart.* t. 13, f. 123, 124. *List.* t. 546, f. 39.

Calyp. alba. Testa subdepresso-conica, albida, linea spirali fusca notata, concentricè substriata, subtuberculata; apice subspirali anfractu unico; columella perforata.

Calyptræa comma notata. *Sow. gen.*

ANCYLUS Spina Rosæ, *Drap.* and *Lam.* is a species of crustaceous animal, and should therefore be excluded from the list of shells.

BULLÆA orientalis. Testa ovata albida pellucida. *Bullæa aperta* similis sed ovata.

Bullæa lignaria, *Bulla lignaria*, *Lam.* on account of the form of the shell, gizzard, and animal, should certainly be placed in this genus, as should also one or two of the fossil species.

Bullæa alba, *Hasselt.*

BULLA australis. Testa ovato-oblonga, subpellucida, lævis, fusco rufoque marmorata; vertice umbilicato, long. 2 unc. New Holland, *Berry*. South Seas, *Barnard*, *Capt. G. King*.

Bulla elegans. Testa ovato-cylindrica, albido-lutea, pellucida, densè spiraliter striata; vertice umbilicato; columella costato-marginata; apertura patula, long. 3-4 unc. Mare Britannicum et Mediterraneum.

Bulla Wallisii. Testa ovata, oblonga, lutea, pellucida, minutissimè spiraliter striata, concentricè substriata; margine columellæ subreflexo albo; vertice imperforato; apertura posticè coarctata; long. 1-4 unc. Nov. Hollandiæ, *Capt. Wallis*.

Bulla Savigniana. Testa ovato-oblonga, lutea, tenuis, pellucida, lævis; vertice imperforato; apertura angusta; margine columellæ subreflexa; long. 1-2 unc. Red Sea, *J. E. Savigny*.

These three shells are allied to *B. hydatis*, *Montague*, and there are several other distinct species in the Museum.

Bulla lineata. Testa ovato-oblonga, pellucida, densè spiraliter striata, alba; fasciis duabus spiralibus, et lineolis coccineis concentricis ornata; spira conica; apertura elongata, integra. β spira depressa, long. 2-3 unc. New Holland, *Mr. E. Barnard*.

Bulla nitidula, *Dillwyn*. Priori affinis.

Bulla soluta, *Dillw.*

Bulla solitaria, *Say*.

Bulla, *Say*.

TESTACELLA scutulum, *Sow. gen.* f. 3, 6.

Test. ambigua, *Fer.* t. 8, f. 4. *Parmacella calyculus*, *Sow. gen.*

VITRINA Cuvieri. *Helicarion*, *Fer.* t. 9, f. 8, t. 9, f. 1, 2.

V. Freycinetti. *Helicarion*, *Fer.* t. 9, f. 3, 4.

V. brevis. *Helicolimax*, *Fer.* t. 9, f. 2.

- V. Lamarckii*. Helicolimax, *Fer.* t. 9, f. 9.
V. Pyrenaica. Helicolimax, *Fer.* t. 9, f. 3.
V. annularis. Helicolimax, *Fer.* t. 9, f. 7.
V. pellicula. Helicolimax, *Fer.* t. 9, A f. 5, 6, 7.
HELIX brevipes, *Drap.* *Fer.* t. 10, f. 1.
H. rufa. *Fer.* t. 10, f. 2.
H. Castra. *Fer.* t. 9, A f. 8.
H. globulosa. *Fer.* t. 25, f. 3, 4.
H. versicolor, *Born.* *Fer.* t. 17, f. 1, 2, 3.
H. follis. *Fer.* t. 17, f. 4.
H. zonulata. *Fer.* t. 15, f. 1, 2. *List.* t. 1055, f. 4.
H. conformis. *Fer.* t. 25, A f. 10.
H. crispata. *Fer.* t. 16, f. 7, 8; t. 25, f. 7, 8.
H. cincta, *Muller.* *Fer.* t. 22, f. 7, 8.
H. ligata, *Muller.* *Fer.* t. 20, f. 1—4; t. 24, f. 4.
H. prunum. *Fer.* t. 26, f. 7, 8, 9. South Sea.
H. gilvus. *Fer.* t. 21. β f. 1.
H. gyrostoma. *Fer.* t. 32, f. 5, 6. Tripoli.
H. addita. *Fer.* t. 25, B. f. 2, 3.
H. torulus. *Fer.* t. 27, f. 3, 4. New Holland. Teneriff.
H. contusa. *Fer.* t. 31, f. 1; t. 39, B. f. 5, 6.
H. deformis. *Fer.* t. 32, A. f. 1.
H. papilla, *Muller.* *Fer.* t. 25, B. f. 5; *Chemn.* ix. t. 122, f. 104, 105.
H. mamilla. *Fer.* t. 25, f. 1, 2.
H. irregularis. *Fer.* t. 28, f. 5, 6.
H. maculosa. *Fer.* t. 28, f. 9, 10. a. *Fer.* t. 32, A. f. 9, 10.
H. Nicæensis. *Fer.* t. 28, f. 1, 2.
H. ligulata. *Fer.* t. 31, f. 2, 3.
H. simplex, *Lam.* *Fer.* t. 25, B. f. 6.
H. Otaheitana. *Fer.* t. 29, f. 4, 5.
H. similis. *Fer.* n. 262, t. 25, B. f. 1.
H. signata. *Fer.* t. 30, f. 3. Italy.
H. Melitensis. *Fer.* t. 25, f. 11, 12. Malta.
H. aspersa, var. *scalaris*, *Cornucopia*, *Born.* t. 13, f. 10, 11.
Corn. helicina, *Shaw.* *Serpula Cornucopia*, *Dillw.* R. S. 1081.
H. guttata, *Oliv.* *Fer.* t. 38, f. 2.
H. spiriplana, *Oliv.* *Fer.* t. 38, f. 3, 6.
H. marmorata. *Fer.* t. 40, f. 8.
H. Carseolana. *Fer.* t. 41, f. 1.
H. circumornata. *Fer.* t. 41, f. 2.
H. squamosa. *Fer.* t. 41, f. 3.
H. muralis. *Fer.* t. 41, f. 4. *Gualt.* t. 3, f. F.
H. modesta. *Fer.* t. 42, f. 1.
H. consobrina. *Fer.* t. 42, f. 2.
H. Pouchet. *Fer.* t. 42, f. 3. *Adans.* t. 1, f. 2.
H. cognata. *Fer.* t. 44, f. 4.
H. aspera. *Fer.* t. 44, f. 1—3. β *List.* t. 94, f. 95.

- H. discolor.* Fer. t. 46, f. 3, 6.
H. Lima. Fer. t. 46, f. 1, 2.
H. indistincta. Fer. t. 38, f. 1.
H. formosa. Fer. t. 47, f. 1. List, t. 74, f. 74?
H. sobrina. Fer. t. 43, f. 6, 7, 8.
H. Carmelita. Fer. t. 32, f. 4.
H. orbiculata. Fer. t. 42, f. 3, 4.
H. dentiens. Fer. t. 49, A. f. 2; t. 48, f. 2.
H. punctata, Born. t. 14, f. 17, 18. Fer. t. 48, f. 3.
H. parilis. Fer. t. 49, f. 2.
H. elevata, Say. *H. Knoxvillina.* Fer. t. 49, f. 5, 6.
H. Thyroidus, Say. List. t. 91, f. 91. β edentula.
H. avara, Say.
H. auriculata, Say. List, t. 93, f. 93.
H. hirsuta, Say. List, t. 93, f. 94.
H. convexa, Rafinesque. Fer. t. 50, A. f. 2.
H. palliata, Say. *H. denotata.* Fer. t. 49, A. f. 5.
H. clausa, Raf. *H. reflexa,* Say. Fer. t. 51, f. 2.
H. tridentata, Say. List, Syn. t. 92, f. 92. Fer. t. 51, f. β edentula.
H. monodon, Racket. Lin. Trans. xiii. t. 5, f. 1.
H. holosericea. Fer. t. 51, f. 5.
H. plicata, Say.
H. caribanata. Fer. t. 51, B. f. 3.
H. labyrinthica, Say. Fer. t. 51, β . f. 1.
H. Imperator. Fer. t. 52.
H. Soror. Fer. t. 54, f. 4.
H. bidentata. *H. bidens,* Chemn. ix. t. 126.
H. Cobresiana, Alten. *H. unidentata,* Drap. t. 7, f. 15.
H. edentula. Drap. t. 7, f. 14.
H. Pyrenaica. Drap. t. 13, f. 7.
H. Quimperiana. Fer. t. 75, B. f. 1, 2, 3. a. t. 74, f. 2.
H. zonalis. Fer. t. 70, f. 3.
H. exceptiuncula. Fer. t. 73, A. f. 1; t. 70, f. 1.
H. bigonia, Fer.
H. pernobilis, Martyn. U.C. t. 3, f. 117.
H. zodiaca. Fer. t. 75, f. 2.
H. bipartita. Fer. t. 75, f. A. f. 1.
H. dilata. Fer. Perry Conch. t. 51, f. 4.
H. collapsa. Fer. Perry Conch. t. 51, f. 5.
H. divaricata. Fer. Perry Conch. t. 51, f. 3.
H. Senegalensis. Chemn. ix. t. 109, f. 917, 918.
H. concisa. Fer. t. 78, f. 3-4.
H. trifasciata. Chemn. xi. t. 213, f. 3016, 3017.
H. unguicula. Fer. t. 76, f. 3. *H. unguina.* Chemn. ix. t. 125, f. 1098, 1099. a. Fer. f. 4. β lab. int. unidentato. Mus. Cracherode.
H. circumdata. Fer. t. 76, f. 1; t. 77, f. 1.

- H. polygyrata*. Born, t. 14, f. 19, 20. Brazil, Mus. Crach.
H. lineata, Say.
H. rudis. *H. rotundata*, Turton.
H. perspectiva, Say.
H. pygmæa. Drap. t. 8, f. 8, 9, 10.
H. umbilicata. Montague, t. 13, f. 6. *H. rupestris*. Drap.
 t. 7, f. 7, 8, 9.
H. glaphyra. Say, t. 1, f. 3.
H. nitidula. Drap. t. 8.
H. nitidosa, Fer. *H. nitidula* var. Drap. t. 8, f. 21, 22.
H. nitens, Racket, Lin. Trans. viii.
H. subrufescens. Miller, Ann. Phil. iii. 379.
H. arborea. Say, t. 4, f. 4.
H. crystallina. Drap. t. 8, f. 13—20.
H. candida. Martin, N. Magn. iv. t. 3, f. 22, 23.
H. lævipes, Muller. Fer. t. 92, f. 3, 4, 5, 6.
H. leucas, Lin.
H. cicatricosa, Muller. Chemn. ix. t. 109, f. 923; xi. t. 213,
 f. 3012, 3013.
H. nemorensis, Muller. Born, t. 16, f. 1, 2.
H. Janus bifrons. Chemn. xi. t. 213, f. 3016, 3017.
H. Javacensis. Fer. t. 92, f. 2.
H. exilis, Muller. Chemn. xi. t. ix. t. 129, f. 1149. Fer. 92, f. 1.
H. Rapa, Muller. Chemn. ix. t. 131, f. 1176.
H. Clairvillia. Fer. t. 91, f. 1. B. f. 2, 3. Manilla, Humph.
H. Trochiformis, Montague. *H. fulva*, Drap.
H. aculeata, Muller. *H. spinulosa*, Montague.
H. fasciola. Drap. t. 6, f. 22, 23, 24.
H. limbata. Drap. t. 6, f. 29.
H. Olivieri, Fer. Drap. t. 7, f. 3, 4, 5.
H. Cantiana. Montague, t. 23, f. 1. *H. palida*, Don.
H. strigella. Drap. t. 7, f. 1, 2, 19.
H. villosa. Drap. t. 7, f. 18.
H. glabella. Drap. t. 7, f. 6.
H. rufescens, Montague, t. 23, f. 2. *H. hispida*, Don.
H. sericea. Drap. t. 7, f. 16, 17.
H. scabra. Chemn. ix. t. 133, f. 1208.
H. variegata. Chemn. ix. t. 133, f. 1207.
H. carnicolor, Fer. Chemn. ix. t. 132, f. 1186, 1187.
H. Trochus, Muller. Chemn. ix. t. 102, f. 1055, 1056.
H. subdentata. Fer. t. 27, f. 1, 2.
H. pyramidata. Drap. t. 5, f. 6.
H. conica. Drap. t. 5, f. 3, 4, 5.
H. ochroleuca. Fer. t. 30, f. 1. Chemn. ix. 126, f. 1105,
 1106.
H. unidentata. Chemn. xi. t. 208, f. 2049, 2050.
H. pellicula. Fer. t. 105, f. 1.

H. incerta. Fer. t. 105, f. 2.

H. mirabilis. Fer. t. 105, f. 3; t. 31, f. 4; t. 104, f. 6, 7.

H. Studeriana. Fer. t. 103, f. 6.

H. strobilus. Fer. t. 103, f. 1.

H. avellanea. Fer. t. 103, f. 4, 5.

H. alauda. Fer. t. 103, f. 2, 3; t. 104, f. 4, 5.

H. diaphana. Fer. t. 104, f. 1.

H. Rossiana. Fer. t. 104, f. 2, 3.

H. coniformis. Fer. t. 108, f. 1.

H. subplicata. Sow. Zool. Jour. i. 56, t. 3, f. 1.

H. punctulata. Sow. Zool. Jour. i. 56, t. 3, f. 2.

H. nivosa. Sow. Zool. Jour. i. 56, t. 3, f. 3.

H. nitidiuscula. Sow. Zool. Jour. i. 57, t. 3, f. 4.

H. Portosanctanae. Sow. Zool. Jour. i. 57, t. 3, f. 5.

H. tectiformis. Sow. Zool. Jour. i. 57, t. 3, f. 6.

H. bicarinata. Sow. Zool. Jour. i. 58, t. 3, f. 7.

H. innominata. Nob. Zool. Jour. i. 58, t. 3, f. 8.

CAROCOLLA, Julia. Helix, Fer. List, t. 83, f. 87?

C. angustata. Helix, Fer. t. 61, f. 1.

C. angulata. Helix, Fer. t. 61, f. 2.

C. Lampas. Helix, Fer. t. 60, f. 2.

C. pyrostoma. Helix, Fer. t. 15, f. 3, 4.

C. marginata. Helix, Fer. t. 63, f. 3—12.

C. scabrosa. Helix, Fer. t. 63, f. 1, 2.

C. Pileolus. Helix, Fer. t. 63, A. f. 1, 2.

C. bifasciata. Trochus, Burrows, t. 27, f. 2.

C. Turcica. Trochus, Chemn. xi. t. 209, f. 2065, 2066.

C. cariosa. Oliv. Voy. t. 31, f. 4. Helix, n. 84, Lam.

C. Tripolitana. Testa orbiculata, suprà convexo-conica, marginibus carinatis, crenatis, infrà convexa, imperforata, alba, pellucida, tenuis, concentricè acute corrugata; Peristomate completo albo, reflexo; axis 1-2, diam. 3-4 unc. Tripoli. Ritchie.

C. Listeri. List. t. 66, f. 64. Mus. Brit.

C. orientalis, nob. Testa suprà convexiuscula, infrà convexa; umbilicata, cornea, pellucida; anfractibus, 7 v. 8, acutè carinatis, supernè densè concentricè striatis; apertura lineari-lunata, peristomate reflexo, albo; axis 1-4, diam. 1-2 unc. India orientalis?

PUPA *Auris Leporis.* Auricula Leporis, Lam. n. 4.

P. Auris Sileni. Auricula Sileni, Lam. n. 3.

P. Auris cervina. Helix Auris cervina, Fer. Mawe Braz. f. 4.

P. goniostoma. Helix goniostoma, Fer. Zool. Jour. i.

P. Caprella. Auricula caprella, Lam. Caprella undulata, Guilding. Bern, t. 9, f. 3, 4.

P. distorta. Vol. australis, Dillw. Chemn. x. t. 149, f. 1395, 1396.

P. Johnii. Chemn. xi. t. 210, f. 2076, 2077.

P. Auris vulpina. Chemn. xi. t. 210, f. 2086, 2087. Struthiolaria crenata, Lam.

P. melanastoma. List, t. 29, f. 27. Figura pulcherima; neglecta, Mus. Sloane. Bul. melanastomus, Swain.

P. Auris Malachi. Chem. ix. t. 121, f. 1037, 1038.

P. Auris Bovina. Chem. ix. t. 121, f. 1039, 1040. Auricula Bovina, Lam.

P. odontostoma. Bulimus, Sow. Zool. Journ. i. 59, t. 5, f. 3.

P. decumana. List, 588, f. 47. Hel. decumanus, Fer.

P. Doliolum. Drap. t. 11, f. 41, 42.

P. Listeri. List, t. 31, f. 29. H. Listeri, Fer.

P. Brasiliensis. Mawe Trav. f. 6. H. Brasiliensis, Fer.

P. tridens. Pult. Dors. t. 19, f. 2. H. Goodalli, Fer.

P. cylindra. Chemn. ix. t. 136, f. 1256, 1257. H. cylindrus, Fer.

P. truncata. Cyclost. fasciata, Lam. Ency. Method. t. 461, f. 7.

P. tortuosa. Chem. xi. t. 195, A. f. 1882, 1883.

P. Tristensis. Balea, nob. Zool. Jour. i. t. 6, f. A.

P. ventricosa. Balea, nob. Zool. Jour. i. t. 6, f. B.

P. Chemnitziana. Helix, n. 512, Fer. Chemn. ix. t. 112, f. 956.

P. edentula. Drap. t. 3, f. 28, 29.

P. muscorum. Drap. t. 3, f. 26, 27.

P. pygmæa. Drap. t. 3, f. 30, 31.

P. antivertigo. Drap. t. 3, f. 32, 33.

P. vertigo. Drap. t. 3, f. 34, 35.

P. contracta, Say.

P. exigua, Say.

P. ovata. Vertigo, Say.

P. pentodon. Vertigo, Say.

I have removed several of Lamarck's *Auriculæ* to this genus, as they agree better with his character, and with some of the species that he has placed in it himself, than with any of the former genus.

CLAUSILIA bidens. Drap. t. 4, f. 5, 7. Turbo laminatus, Montague.

C. ventricosa. Drap. t. 4, f. 14.

C. Montagui. Turbo biplicatus. Montague, t. 11, f. 5.

C. solida. Drap. t. 4, f. 8, 9. T. labiatus, Montague.

C. plicata. Drap. t. 4, f. 15, 16.

C. dubia. Drap. t. 4, f. 10. Turbo

C. Rolphii, nob. Med. Rep. H. Everetti. Miller, Ann. Phil. 182

iii. 377.?

BULIMUS metaformis. Helix, Fer. t. 108, f. 2.

B. maxima. Cochlogena maxima, Sow.

B. ventricosus, Brug. (not Drap.) Chemn. ix. f. 1007, 1008.

B. decoratus. Helix, t. 112, f. 3, 4. List, t. 13, f. 8.

- B. Dufresnii.* Leach, *Zool. Misc.* ii. t. 154.
B. Taunaisii. Helix, *Fer.* t. 113, f. 4, 5.
B. papyraceus. Helix, *Mawe Introd.* t. 1, f. 7.
B. septenarius. Helix, n. 46. *Fer. Pet. Gaz.* t. 17, f. 4.
B. iostomus. Sow. *Zool. Jour.* i. 58, t. 5, f. 1.
Bul. strigatus, Brug. Helix, *Fer.*
B. striatulus, Brug. Helix, *Fer.*
B. flammeus, Brug. *Chemn.* ix. f. 1024, 1025.
B. stramineus. *Bulimulus stramineus,* *Guilding, Lin. Trans.* xiv. *List,* t. 8, f. 3.
B. rufescens. Testa ovato-conica, perforata, glabra, minutissimè striata, luteo-albida; apice acuto fusco. Peristomate simplici, long. 1 unc. Jamaica.
B. Bontia. Helix Bontia, *Chemn.* ix. t. 134, f. 1216, 1217.
B. Columba, Brug. *Seba,* t. 71, f. 6.
B. lævus, Brug. *Chemn.* ix. t. 111, f. 940, 949.
B. trifasciatus, Brug. *Bul. zonatus,* Sow. Helix trifasciatus, *Chemn.* ix. t. 134, f. 1215. Helix trizonatus, *Fer.*
B. lineatus, Brug. *Chemn.* ix. t. 136, f. 1263.
B. Goodalli. Helix Goodalli, *Miller, Ann. Phil.* iii. Helix Clavulus, *Fer.* n. 381?
Bulimus pulcher. Testa ovato-conica, tenuis, albida; fasciis tribus purpureo-fuscis ornata; anfractibus convexiusculis. Peristomate simplici, labio interiori roseo long. 1-2 unc.
Bulimus cylindricus. Testa conico-cylindrica, perforata, albida, densè concentricè striata, fascis 6 fuscis interruptis ornata; anfractibus 9 v. 10; convexiusculis; apertura suborbiculata; peristomate tenui, long. 6-10; diam. 3-10 unc.
Bulimus Kingii. Testa conico-ovata, perforata, albida, pellucida transverse nigro fusco lineolata; anfractibus convexiusculis; apertura spiræ longitudine; peristomate tenui, intus purpureo nigro, long. 1, diam. $\frac{1}{2}$ unc. New Holland, Capt. King.
ACHATINA exarata. *Bulla exarata.* *Chemn.* ix. t. 120, f. 1031, 1032.
A. melanostoma, Sw. *H. regina,* *Fer.* t. 119, f. 3, 4. β sinistra. *A. perversa,* Sw.
A. vittata, Sw. β sinistra.
A. fulvescens. *List,* t. 582, f. 35 a. *Born,* t. 10, f. 2.
A. marginata, Sw. *Illust.* 30.
A. rosea. *List,* t. 1059, f. 4 (non *Pupa goniostoma*). Helix, *Fer.* t. 136, f. 89.
A. striata. *Chemn.* ix. t. 120, f. 1030. Helix, *Fer.* n. 557.
A. Boreti. Helix, n. 358. *Fer.* t. 136, f. 1—5.
A. decora. Helix, *Fer.* *Chemn.* xi. t. 213, f. 3014, 3015. β dextra.
A. lugubris. Helix, *Fer.* *Chemn.* xi. t. 209, f. 2059, 2060.
A. Terebraster. *Bulimus Terebraster,* *Lam. List.* t. 20, f. 15.
A. octona. *Bulimus octonus,* *Lam. Chemn.* ix. t. 136, f. 1264.

I have removed these two species, because they have the truncated columella of this genus, and are very nearly allied to *A. acicula*, as are also the two following.

A. sulcata. Testa turrita, pellucida, cornea, apice obtusa, anfractibus 8 v. 9 convexis, medio concentricè sulcatis, basi lævibus; labro tenui; long. 7-10, diam. 2-10 unc.

A. nitens. Testa ovato-conica, turrita, hyalina, cornea, lævi polita, apice obtusiuscula; anfractibus 8 convexis; apertura vata, peristomate tenui, axis 7-10, diam. 3-10 unc.

Succinea tigrina, Leseuer. Fer. t. 11, A. f. 4.

S. ovalis, Say. Fer. t. 11, A. f. 1.

S. australis. Helix, 11. Fer. t. 11, f. 11

S. campestris, Say. Fer. t. 11, f. 12.

S. angularis. Helix, n. 13. Fer. t. 11, A. f. 5.

S. sulculosa. Helix, n. 14. Fer. t. 11, A. f. 6.

Partula, Ferussac.

Testa ovata, spira conica. Apertura longitudinalis, anticè integerima, peristomate reflexo; columella anticè callosa.

Animal. Tentacula 2 retractilia, apice oculata.

This genus is most nearly allied to Lamarck's *Auriculæ*, but the animal has retractile instead of contractile tentacula, and pedicelled instead of sessile eyes.

P. pudica, Fer. Chemn. ix. t. 121, f. 1042. List, t. 24, f. 22.

P. australis, Fer. Chemn. ix. t. 121, f. 1044.

P. unidentata, Sow.

P. gibba, Fer.

P. fragilis, Fer.

P. otaheitana, Fer. Chemn. ix. f. 950, 951. β dextrorsa.

P. auricula, Fer.

Auricula lineata. Drap. t. 3, f. 20, 21.

A. corticaria. Odostonia. Say, t. 4, f. 5.

A. plicatus. Scarabus, n. 2, Fer. List, t. 577, f. 32.

A. Petiverianus. Scarabus, n. 3, Fer. Pet. Gaz. t. 4, f. 10.

A. ponderosa. Fer, n. 4. Mus. Kerc. f. 412.

A. bidentata. Fer. n. 9. Vol. bidentata, Montague, t. 30, f. 4.

A. alba. Fer. n. 10. Vol. alba, Montague, t. 14, f. 27.

A. ornata. Fer. n. 11.

A. Matoni. Vol. fluviatilis, Maton, Lin. Trans.

A. bidentatus. Melampus, Say. β lineatus.

A. obliquus. Melampus, Say.

A. fabula. Fer. n. 24.

A. nucleus. Fer. n. 26. Helix nucleus, Gmelin.

A. bullaoides. Vol. bullaoides, Montague, t. 30, f. 4. Tornatella, n. 7, Fer.

A. pedipes. Tornatella pedipes, Lam. Adams, t. 1, f. 4.

A. mirabiles. Pedipes, n. 2, Fer.

A. ovulus. Pedipes, n. 3, Fer.

A. affinis. Pedipes, n. 4, Fer.



Gray, John Edward. 1825. "A list and description of some species of Shells not taken notice of by Lamarck." *Annals of Philosophy* n.s. v. 9 (1825), 134–140, 407–415.

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