

the columella. In size it was equal to *Bithynia ventricosa*. Pieces of drift-wood, vegetating seeds, shells of *Spirula*, a small *Litiopa*, *Hyalææ*, *Loligopsis*, and one of the venomous sea-snakes of the Bay, with a keeled belly, black above and yellow below, and with a broad white zigzag line running along the laterally compressed tail, entered our towing nets on that night, borne by the tidal currents through the group of islands.

Mörch rejects Jeffreys's *Recluzia aperta* from the genus, and refers it to *Amauropsis*. The aspect of the shell is opposed to the supposition of its being a floating pelagian form.

Cheltenham, Oct. 19, 1860.

LII.—On a new Genus and some new Species of Mollusca from Japan. By ARTHUR ADAMS, F.L.S., &c.

Genus CINGULINA, A. Adams.

Testa subulato-turrita. Anfractus numerosi, cingulis elevatis spiralibus instructi, interstitiis sculptis. Apertura oblonga, antice integra; labio recto, simplici; labro acuto, arcuato.

This genus most nearly resembles *Monoptygma* in form and sculpture; but in the straight inner lip and absence of parietal fold it is like *Turbonilla*. The transverse ridges of the whorls likewise suggest *Aclis*, but the form of the aperture is very different. I have found the typical species (described below) both in the north of China and in the Sea of Japan.

*Cingulina circinata*, A. Adams.

*C. testa* subulato-turrita tenui, alba, opaca; anfractibus normalibus circa 11, planiusculis, cingulis spiralibus tribus, interstitiis longitudinaliter concinne striatis; anfractu ultimo cingulis quatuor instructo, basi convexo, liris spiralibus elevatis ornato.

*Hab.* Awa-Sima; in shell-sand. Loo-shan-Kou (Shan-tung); in shell-sand.

Genus PARTHENIA, Lowe.

Since writing my papers containing descriptions of new species of *Parthenia*, *Odostomia*, *Dunkeria*, &c., I have continued to investigate these interesting though somewhat diminutive forms, and am now enabled to record several additional species.

1. *Parthenia spirata*, A. Adams.

*P. testa* ovato-conica, tenui, sordide alba, rimata; anfractibus normalibus 4, spiratis, longitudinaliter costatis, costis rectis subdistantibus, interstitiis lirulis obsolete decussatis, suturis canaliculatis, costis in anfractu ultimo (basi liris convergentibus ornato)

ad peripheriam evanidis ; apertura ovata, postice acuminata ; labio arcuato, tenui, plica parva dentiformi in medio instructo ; labro postice angulato.

*Hab.* Korea Strait ; 46 fathoms.

2. *Parthenia Pagodula*, A. Adams.

*P.* testa ovato-conica, acuminata, tenui, rimata, pallide fusca ; anfractibus normalibus 5, planatis, longitudinaliter costatis, costis obliquis prominentibus, interstitiis lævibus, suturis profundis, anfractu ultimo costis ad peripheriam desinentibus, peripheria subangulata zonula foveolata circumcincta, basi lævi ; apertura ovata, antice producta ; labio arcuato, plica parietali superiore parva.

*Hab.* Tabu-Sima ; 24 fathoms.

3. *Parthenia fenestrata*, A. Adams.

*P.* testa ovato-conica, subrimata, tenui, sordide alba ; anfractibus normalibus 3, spiratis, postice obtuse angulatis, costellis tenuibus prominentibus et liris elevatis transversis late clathratis, costellis in anfractu ultimo subito ad peripheriam terminantibus, basi planis ; apertura oblonga ; labio arcuato, plica parietali obsoleta instructo.

*Hab.* Mino-Sima ; 63 fathoms.

4. *Parthenia Mariella*, A. Adams.

*P.* testa ovata, alba, solidiuscula, subrimata ; anfractibus normalibus 3, planatis, postice plicatis plicis parvis distantibus, antice cingulo elevato spirali ornatis, suturis canaliculatis ; anfractu ultimo postice plicato, antice cingulis elevatis spiralibus (circiter novem) instructo ; apertura oblonga ; labio plica dentiformi parva mediana.

*Hab.* Mino-Sima ; 63 fathoms.

5. *Parthenia bellula*, A. Adams.

*P.* testa ovato-conica, tenui, rimata, alba, opaca ; anfractibus normalibus 4, planatis, longitudinaliter plicatis, plicis ad suturas interruptis, suturis zonula spirali elevata succinctis ; anfractu ultimo plicis ad peripheriam desinentibus, peripheria rotundata zonulis spiralibus tribus ornato, basi radiatim plicato ; apertura ovata ; labio tenui, arcuato, plica parietali superiore instructo.

*Hab.* Tsu-Sima ; 26 fathoms.

6. *Parthenia punctigera*, A. Adams.

*P.* testa ovato-conica, alba, solida ; anfractibus normalibus 3, planatis, costellatis, costellis validis obliquis regularibus, interstitiis punctatis ; anfractu ultimo costellis ad peripheriam desinentibus, basi convexo, elevatim lirato ; apertura ovata, plica parietali parva superiore vix celata.

*Hab.* Sado ; 30 fathoms.

## Genus ODOSTOMIA, Fleming.

1. *Odostomia vitrea*, A. Adams.

*O. testa parva, imperforata, ovato-conica, solidiuscula, vitrea, pellucida, apice obtuso; anfractibus  $3\frac{1}{2}$ , planiusculis, suturis profundis, anfractu ultimo ad peripheriam rotundato, intus spiraliter sulcato; apertura ovata; plica parietali valida, mediana, transversa.*

*Hab.* Korea Strait; 46 fathoms.

2. *Odostomia subangulata*, A. Adams.

*O. testa rimata, ovato-conica, alba, opaca; anfractibus  $5\frac{1}{2}$ , planis, ultimo elongato, in medio subangulato, antice producto-acuminato; suturis canaliculatis; apertura ovata, antice effusa; labio incrassato; plica parietali valida, mediana, transversa.*

*Hab.* Tsu-Sima; 26 fathoms.

3. *Odostomia ovoidea*, A. Adams.

*O. testa subrimata, oblongo-ovata, tenui, alba, opaca; anfractibus  $4\frac{1}{2}$ , convexiusculis, suturis mediocribus; anfractu ultimo amplo, ad basin rotundato; apertura oblonga; plica parietali parva, obliqua.*

*Hab.* Awa-Sima; low water.

4. *Odostomia producta*, A. Adams.

*O. testa rimata, tenuicula, ovato-acuminata, alba, opaca; anfractibus planulatis, suturis profundis; anfractu ultimo elongato, ad basin rotundato; apertura oblonga; plica parietali superiore, parva, obliqua.*

*Hab.* Sado; 30 fathoms. Tabu-Sima; 25 fathoms.

5. *Odostomia nivea*, A. Adams.

*O. testa rimata, ovato-conica, alba, semipellucida; anfractibus  $5\frac{1}{2}$ , planis, suturis exaratis; anfractu ultimo amplo, ad peripheriam subangulato; apertura ovata, antice subproducta; plica parietali parva, obliqua.*

*Hab.* Korea Strait; 46 fathoms.

Like *O. subangulata* in form, but thin and semipellucid; and the inner lip in the adult not thickened.

6. *Odostomia goniosoma*, A. Adams.

*O. testa imperforata, ovato-conica, alba, opaca; anfractibus  $4\frac{1}{2}$ , planis, suturis canaliculatis; anfractu ultimo magno, ad peripheriam obtuse angulato; apertura rhomboidea, antice producta et angulata; plica parietali transversa, mediana.*

*Hab.* Korea Strait; 46 fathoms.

7. *Odostomia cana*, A. Adams.

*O.* testa imperforata, ovato-conica, sordide alba; anfractibus  $4\frac{1}{2}$ , convexiusculis, suturis impressis; anfractu ultimo amplo, ovato, ad peripheriam rotundato; apertura oblonga, antice producta et dilatata; plica parietali valida, mediana, obliqua.

*Hab.* Korea Strait; 46 fathoms.

8. *Odostomia neglecta*, A. Adams.

*O.* testa parva, ovato-conica, imperforata, alba, opaca, suturis simplicibus; anfractibus  $3\frac{1}{2}$ , convexiusculis; anfractu ultimo ad peripheriam rotundato; apertura ovato-oblonga; plica parietali parva, obliqua.

*Hab.* Tabu-Sima; 25 fathoms.

9. *Odostomia pruinosa*, A. Adams.

*O.* testa imperforata, ovato-conica, pruinosa, semiopaca, apice obtuso; anfractibus  $3\frac{1}{2}$ , planulatis, suturis impressis; anfractu ultimo magno, ovato, ad peripheriam rotundato; apertura oblonga, antice producta; plica parietali parva, transversa, mediana.

*Hab.* Okosiri; 35 fathoms.

10. *Odostomia Achatinella*, A. Adams.

*O.* testa imperforata, ovato-pyramidali, solidiuscula, alba, semiopaca; anfractibus  $5\frac{1}{2}$ , convexiusculis, suturis impressis; anfractu ultimo elongato, ad peripheriam vix angulato; apertura ovata; plica parietali parva, transversa.

*Hab.* Tsu-Sima; 26 fathoms.

11. *Odostomia subdiaphana*, A. Adams.

*O.* testa imperforata, ovato-conica, alba, semipellucida; anfractibus  $3\frac{1}{2}$ , planatis, suturis profundis; anfractu ultimo magno, ad peripheriam obtuse angulato; apertura ovato-rhomboides; labro in medio subangulato, plica parietali parva transversa.

*Hab.* Okosiri; 35 fathoms.

Like *O. goniosoma*, but smaller, thinner, semipellucid, and the spire more conical.

Subgenus *Evalea*, A. Adams.12. *Odostomia (Evalea) sulcata*, A. Adams.

*O.* testa ovato-oblonga, alba, imperforata, solida; anfractibus  $5\frac{1}{2}$ , convexiusculis, transversim valde sulcatis, interstitiis punctatis; apertura ovata; plica parietali transversa, conspicua; labro subincrassato.

*Hab.* Tsu-Sima; 16 fathoms.

13. *Odostomia (Evalea) lirata*, A. Adams.

*O.* testa ovato-conica imperforata, alba, opaca; anfractibus  $4\frac{1}{2}$ , planis, transversim valde liris, liris subdistantibus, interstitiis longitudinaliter creberrime striatis; apertura rhomboidea; plica parietali parva, mediana, transversa; labro in medio subangulato.

*Hab.* Tabu-Sima; 26 fathoms: Sado; 30 fathoms.

Genus *TURBONILLA*, Risso.1. *Turbonilla perfecta*, A. Adams.

*T.* testa elongato-turrita, tereti, tenui, cornea, subdiaphana; anfractibus normalibus 14, rotundatis; costis obliquis, validis, æqualibus, interstitiis lævibus; anfractu ultimo costis ad peripheriam desinentibus, basi lævi convexo; apertura oblonga, subquadrata; labio vix recto.

*Hab.* Port Hamilton; 7 fathoms. I also obtained this species in the Korea Strait, near Mino-Sima; 63 fathoms.

2. *Turbonilla eximia*, A. Adams.

*T.* testa subulato-turrita, solida, alba, zona pallide rufa spirali obsolete cincta; anfractibus normalibus 9, planatis, in medio constrictis; costis validis, undulatis, prominentibus, interstitiis liris validis spiralibus decussatis; anfractu ultimo costis ultra peripheriam extendentibus, deinde evanidis, basi convexo, liris spiralibus ornato; apertura subquadrata; labio crasso, superne subtortuoso, antice reflexo.

*Hab.* Chosan Harbour; 6 fathoms.

3. *Turbonilla venustula*, A. Adams.

*T.* testa aciculato-turrita, alba, solida; anfractibus normalibus 11, planatis; costis validis, rectis, subconfertis; interstitiis liris elevatis spiralibus confertis decussatis; anfractu ultimo costis ad peripheriam desinentibus, basi convexo, lirulis spiralibus instructo; apertura oblonga, subquadrata; labio curvato, antice dilatato.

*Hab.* Chosan Harbour; 6 fathoms.

4. *Turbonilla macilenta*, A. Adams.

*T.* testa aciculato-turrita, gracili, alba, solida, opaca; anfractibus normalibus 7, convexiusculis; costis rectis, crassis, subdistantibus, interstitiis simplicibus; apertura ovata; labio recto.

*Hab.* Port Hamilton; 7 fathoms.

5. *Turbonilla monocycla*, A. Adams.

*T.* testa subulato-turrita, rimata, sordide alba, solidiuscula; anfractibus normalibus 8, planatis, suturis canaliculatis; costis undulatis, prominentibus, subconfertis, interstitiis simplicibus; costis in anfractu ultimo ad peripheriam desinentibus, peripheria lira

spirali duplicata elevata apicibus costarum decussata ornata ; apertura ovata, antice producta ; labio tenui, arcuato, superne tortuoso.

*Hab.* Mino-Sima ; 63 fathoms.

6. *Turbonilla nitida*, A. Adams.

*T.* testa subulato-turrita, nivea, vix opaca ; anfractibus normalibus 10, convexiusculis, suturis profundis ; costis prominentibus, subobliquis, distantibus, interstitiis liris evanidis spiralibus decussatis ; anfractu ultimo costis ad peripheriam subito truncatis, basi lævi ; apertura subquadrata ; labio brevi, recto.

*Hab.* Mino-Sima ; 63 fathoms.

7. *Turbonilla commoda*, A. Adams.

*T.* testa aciculato-turrita, gracili, sordide alba, solida ; anfractibus normalibus 11, convexiusculis ; costis validis, subdistantibus, interstitiis lævibus, costis in anfractu ultimo ad peripheriam desinentibus ; apertura subcirculari ; labio brevi, recto, crasso.

*Hab.* Tsu-Sima ; 16 fathoms.

8. *Turbonilla sculptilis*, A. Adams.

*T.* testa subulato-turrita, sordide alba, solida ; anfractibus normalibus 8, convexis ; costis latis, rectis, subdistantibus, interstitiis foveolatis ; anfractu ultimo costis ad peripheriam subito truncatis, basi lævi ; apertura subquadrata ; labio recto.

*Hab.* Tsu-Sima ; 16 fathoms.

9. *Turbonilla fragilis*, A. Adams.

*T.* testa aciculato-turrita, gracili, alba, tenui, nitida, subdiaphana ; anfractibus normalibus 10, convexiusculis ; costis obliquis validis, distantibus, interstitiis lævibus, suturis inter apices costarum profunde canaliculatis ; anfractu ultimo costis ad peripheriam obsoletis, basi lævi convexo ; apertura subquadrata ; labio arcuato, antice producto.

*Hab.* Tsu-Sima ; 16 fathoms.

10. *Turbonilla bicincta*, A. Adams.

*T.* testa subulato-turrita, alba, tenui, subdiaphana ; anfractibus normalibus 11, convexiusculis, fasciis duabus angustis rufescentibus ornatis ; costis validis, vix obliquis, lirulis spiralibus elevatis decussatis ; anfractu ultimo costis ad peripheriam desinentibus, basi lirulis spiralibus instructo ; apertura subcirculari ; labio arcuato.

*Hab.* Tsu-Sima ; 16 fathoms.

11. *Turbonilla cincta*, A. Adams.

*T.* testa pyramidato-subulata, turrita, sordide alba ; anfractibus normalibus 8, planatis, postice constrictis, in medio fascia rufa con-

spicua circumcinctis; costis validis, prominentibus, undulatis; interstitiis valde punctatis; costis in anfractu ultimo gradatim evanidis, ad peripheriam obsoletis; apertura oblongo-subquadrata; labio arcuato.

*Hab.* Mino-Sima; 63 fathoms.

12. *Turbonilla munda*, A. Adams.

*T.* testa subulato-pyramidali, turrita, alba, tenui, semipellucida; anfractibus normalibus 8, convexiusculis; costis obliquis, prominentibus, distantibus, interstitiis lævibus, costis in anfractu ultimo ad peripheriam subito truncatis; apertura subquadrata; labio recto, superne vix tortuoso.

*Hab.* Mino-Sima; 63 fathoms.

13. *Turbonilla speciosa*, A. Adams.

*T.* testa elongata, turrita, tereti, solidiuscula, opaca, sordide alba; anfractibus normalibus 12, convexiusculis; costis rectis, prominentibus, æquidistantibus, interstitiis lævibus; anfractu ultimo costis ad peripheriam subito truncatis, basi lineis spiralibus obsoletis ornato; apertura oblonga; labio recto, crasso, antice vix everso.

*Hab.* Mino-Sima; 63 fathoms.

14. *Turbonilla debilis*, A. Adams.

*T.* testa subulato-turrita, cornea, tenui, semipellucida, aureo-nitente, rufo-pallido obsolete fasciata; anfractibus normalibus 11, planatis, quibusdam varicosis; costis subtenuibus, undulatis, interstitiis valde punctatis; anfractu ultimo costis ad peripheriam subito truncatis, basi lævi convexo; apertura subquadrata; labio recto, tenui, antice producto.

*Hab.* Mino-Sima; 63 fathoms.

15. *Turbonilla modica*, A. Adams.

*T.* testa subulato-turrita, alba, opaca; anfractibus normalibus 7, convexis; costis validis, crassis, obliquis, interstitiis valde punctatis; anfractu ultimo costis ad peripheriam obsoletis, basi lævi convexo; apertura ovata; labio arcuato.

*Hab.* Mino-Sima; 63 fathoms.

16. *Turbonilla Scaliola*, A. Adams.

*T.* testa aciculato-turrita, solida, sordide alba, nitida; anfractibus normalibus 7, convexis; costis paucis, prominentibus, latis, rotundatis, postice nodosim angulatis, interstitiis lævibus; anfractu ultimo costis ad peripheriam desinentibus, basi lirulis spiralibus ornato; apertura circulari; labio arcuato.

*Hab.* Korea Strait; 46 fathoms.

17. *Turbonilla metulina*, A. Adams.

*T.* testa pyramidato-subulata, turrita, tenui, lactea, opaca; anfractibus normalibus 9, convexis; costis obliquis, prominentibus, æquidistantibus, interstitiis lirulis elevatis spiralibus decussatis; anfractu ultimo costis ad peripheriam desinentibus, basi lævi convexo; apertura subquadrata; labio recto.

*Hab.* Mino-Sima; 63 fathoms.

The species of *Turbonilla* obtained by me from the Japanese side of the Korea Strait and from other parts of the Sea of Japan are, with one exception (viz. *T. perfecta*, A. Adams), different from those I discovered at Chosan, in the Korea peninsula, and at Port Hamilton, one of the Korean archipelago. They are all very elegant and of delicate construction.

## Genus LEUCOTINA, A. Adams.

1. *Leucotina exarata*, A. Adams.

*L.* testa ovato-conica, alba, umbilicata, solidiuscula; anfractibus  $4\frac{1}{2}$ , convexiusculis, transversim liratis, interstitiis tenuissime longitudinaliter striatis; apertura ovata, postice acuta; plica parietali vix mediana, parva, obliqua.

*Hab.* Tabu-Sima; 25 fathoms.

2. *Leucotina insculpta*, A. Adams.

*L.* testa acuminato-ovata, alba, perforata, solidiuscula; anfractibus  $4\frac{1}{2}$ , convexiusculis, transversim liratis, interstitiis valde punctatis; apertura oblonga, postice angustata, antice dilatata; labio incrassato, plica parietali vix celato.

*Hab.* Korea Strait; 46 fathoms.

## Genus DUNKERIA, P. P. Carpenter.

1. *Dunkeria scabra*, A. Adams.

BM 1878.128.33

*D.* testa subulato-turrita, pallide fusca, imperforata; anfractibus  $8\frac{1}{2}$ , convexis, costis nodosis longitudinalibus et liris elevatis tribus transversis (circiter 7 in anfractu ultimo) cancellatis; apertura ovata; labio antice rufo tincto.

*Hab.* Tsu-Sima; 16 fathoms.

2. *Dunkeria ferruginea*, A. Adams.

*D.* testa perparva, pyramidato-turrita, imperforata, ferruginea; anfractibus  $5\frac{1}{2}$ , convexis, ad suturas angustatis, liris duabus transversis nodulosis costellis longitudinalibus validis distantibus decussatis; liris in anfractu ultimo 3; apertura ovato-quadrangulæ, antice acuminata.

*Hab.* Sado; 30 fathoms.

3. *Dunkeria reticulata*, A. Adams.

*D.* testa subulato-turrita, imperforata, fusco-cinerea; anfractibus  $8\frac{1}{2}$ , convexis, costellis longitudinalibus et liris transversis tenuibus elevatis reticulatis; liris tribus ad costas nodulosis; in anfractu ultimo liris numerosis; apertura ovata, antice acuminata; labio rectiusculo.

*Hab.* Awa-Sima; low water.

## Genus CAPULUS, Montfort.

*Capulus dilatatus*, A. Adams.

*C.* testa alba, lineis concentricis irregularibus instructa, transversim subquadrata, lateribus valde dilatatis, apice marginali postico recurvato; apertura transversim ovata, intus alba, nitida, margine foliaceo, reflexo, valde dilatato, postice vix recto, antice arcuato.

*Hab.* Mino-Sima; 63 fathoms.

## Genus AGATHA, A. Adams.

*Agatha virgo*, A. Adams.

127. *A.* testa subulato-turrita, eburnea, opaca, nitida; anfractibus  $9\frac{1}{2}$ , planulatis, ad suturas vix angulatis, longitudinaliter substriatis, transversim (sub lente) obsolete sulcatis; apertura oblongo-ovata, antice subproducta; labio inferne plica valida obliqua instructo; labro intus lævi, margine simplici acuto.

*Hab.* Korea Strait; 46 fathoms.

This species is as elegant in form as it is pure in colour; it is about an inch long, and may well be regarded as the queen of a genus of which all the species are lovely.

## Genus CEMORIA, Leach.

*Cemoria nobilis*, A. Adams.

*C.* testa ovata, depresso-conica; apice subcentrali, postice recurvo; dorso costis radiantibus tribus parvis cum uno majore alternantibus, lineis elevatis concentricis decussatis; foramine lanceolato, antice angustato, postice in sulcum desinente; septo interno valido, arcuato; apertura intus radiatim sulcata, margine dentato-crenato.

*Hab.* Okosiri; 35 fathoms.

This is the largest species of the genus, being nearly an inch long and half an inch high.

Shan-Tung, China, May 8, 1860.



Adams, Arthur. 1860. "LII.—On a new genus and some new species of Mollusca from Japan." *The Annals and magazine of natural history; zoology, botany, and geology* 6, 414–422.

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