

incurved, subcompressed, convex externally, but less convex internally, and ending above and in front in a blunt spine; hand compressed, elevated, with the upper edge arched, but not so sharp as in *Notopus*; the sides convex and covered with asperities or minutely denticulated ridges, interrupted and transverse; finger uncinatè, very short, incurved; thumb narrow, compressed, elongated, with a sharp apex and a strong tooth near the distal extremity.

Feet short and weak, as in *Notopus*; the first tibia bicarinated; the tarsus subquadrate, anteriorly bicarinate, with a scalpel-shaped claw; the second tibia one-keeled, with the tarsus oblong, and a sharp elongated trigonal claw; the third tibia subtriangular; tarsus short, flattened, subtrigonal, with a falcate claw; fifth tibia triangular, very short, flattened; tarsus transverse-ovate, with a small narrow claw.

Abdomen of the male seven-jointed, the joints from the first to the sixth nearly of the same width as in *Notopus*, and the last joint trigonal.

*Cosmonotus* differs from *Notopus*, De Haan, by wanting the post-frontal, elevated, denticulated ridge; by the dorsal keel ending abruptly in front, instead of terminating in a central frontal spine; in the front being notched with a single small spine on each side; in the thorax being much compressed, more especially in front, and in the produced and angular shape, while in *Notopus* it is almost straight across in front; and in the sides being entire, with a short sharp spine at the antero-latero angle.

The cut represents this species of twice the natural size, and is named in compliment to J. E. Gray, Esq., F.R.S., Keeper of the Zoological Department in the British Museum.

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December 12, 1847.

W. Spence, Esq., F.R.S., in the Chair.

The following papers were read:—

1. DESCRIPTIONS OF NINETEEN NEW SPECIES OF HELICEA, FROM THE COLLECTION OF H. CUMING, ESQ. BY DR. L. PFEIFFER.

1. *HELIX KURRI*, Pfr. *Hel. testâ mediocriter umbilicatâ, depressâ, tenui, punctis distantibus sub lente scabriusculâ, diaphandâ, corneo-albidâ, fasciâ 1 angustâ rufâ, alterâ obsoletâ infra peripheriam ornatâ; spirâ planâ; anfractibus 4 $\frac{1}{3}$ , primis convexiusculis, ultimo sensim descendente, utrinque subplano, anticè subconstricto; aperturâ obliquâ, subtriangulâri-lunari; peristomate simplice, tenui, marginibus conniventibus, supero latè expanso, basali reflexo, columnari brevi, triangulatim dilatato.*

Diam. 25, alt. 10 mill.

Locality unknown.

2. *HELIX GARDENERI*, Pfr. *Hel. testâ subperforatâ, turbinatâ, solidâ, striis longitudinalibus et spiralibus distantioribus decussatâ, nitidâ, castanèd; spirâ elevatâ, acutiusculâ; anfractibus 6½ convexiusculis, ultimo majore, sublævigato, ad peripheriam cingulo albo ornato; aperturâ obliquè lunari, intus albâ; peristomate simplice, recto, margine columellari subincrassato, supernè subdilatato, perforationem ferè claudente.*

Diam. 22, alt. 15 mill.

Found on leaves of trees in the forests of Ceylon, 8000 feet above the level of the sea (Dr. Gardener).

3. *STREPTAXIS FUNCKI*, Pfr. *Str. testâ subobtectè umbilicatâ, depresso-ovatâ, tenuiusculâ, supernè confertim plicatâ, basi lævigatâ, sub epidermide tenui, corneo-albidâ; spirâ regulariter parùm elatâ, apice obtusiusculâ; anfractibus 6½ vix convexiusculis, ultimo deorsum deviante, prope suturam striatulo, basi convexo, juxta umbilicum mediocrem compresso; aperturâ obliquâ, subtriangulârî; peristomate breviter expanso, margine basali leviter arcuato, columellari in laminam triangularem, fornicatim supra umbilicum reflexam, dilatato.*

Diam. 27½, alt. 16 mill.

From Merida, New Granada (Funck).

4. *BULIMUS QUADRICOLOR*, Pfr. *Bul. testâ imperforatâ, succineiformi, tenui, striatulâ, luteâ, strigis obliquis fulguratis confertis castaneis, nonnullisque latioribus stramineis, antrorsum serratis, infra medium evanescentibus pictâ; spirâ conicâ, obtusiusculâ; anfractibus 4 subplanis, ultimo parùm convexo, 2—3 longitudinis subæquante; columellâ filari; peristomate undique brevissimè expanso, roseo, marginibus callo tenuissimo junctis.*

Long. 30½, diam. 14 mill.

From Chachopo, province of Merida, New Granada (Funck).

5. *BULIMUS LOVÉNI*, Pfr. *Bul. testâ imperforatâ, ovatâ, tenui, longitudinaliter plicatâ, fusco-luteâ, strigis castaneis fulguratis elegantissimè pictâ; spirâ conicâ, obtusâ, apice subimpressâ; anfractibus 4½ vix convexiusculis, supremis castaneis, penultimo inter plicas subtilissimè transversim striato, ultimo subtiliter malleato, 4—7 longitudinis æquante; columellâ castanèd, supernè leviter plicatâ; aperturâ oblongo-ovali, subconcolore; peristomate nigro-castaneo, undique expanso et reflexo, margine columellari supernè dilatato, appresso.*

Long. 42, diam. 20 mill.

From the Colonia of Tovar, Venezuela (Mr. D. Dyson).

6. *BULIMUS LAMARCKIANUS*, Pfr. *Bul. testâ subperforatâ, ovatâ, solidâ, striatâ et undique distinctè granulatâ, saturatè fuscâ, punctis nigricantibus conspersâ; spirâ brevi, obtusiusculâ; anfractibus 5 parùm convexis, ultimo ventrosiore, 3—5 longitudinis sub-*

*æquante; columellâ obliquè leviter plicatâ; aperturâ oblongo-ovali, intus lividâ; peristomate subincrassato, expanso-reflexo, marginibus callo tenui junctis, columellari supernè dilatato, perforationem ferè occultante.*

Long. 62, diam. 32 mill.

From the Andes of New Granada, 8000 feet high (Funk).

7. *BULIMUS BLAINVILLEANUS*, Pfr. *Bul. testâ subperforatâ, solidâ, ventroso-ovatâ, longitudinaliter confertim plicatâ, sub epidermide olivaceâ castaneâ, strigis sparsis nigricantibus fulguratis variegatâ; spirâ brevi, conicâ, acutiusculâ; anfractibus  $4\frac{1}{2}$ , supremis planis, penultimo convexiusculo, ultimo ventroso, 3—5 longitudinis subæquante, perobliquè descendente; columellâ mediocriter plicatâ, paulò recedente; aperturâ oblongo-semiovali, intus nigricante, nitidâ; peristomate nigro, incrassato, latè expanso, marginibus callo tenuissimo junctis, columellari dilatato, plano, subappresso.*

Long. 50, diam. 25 mill.

From Zaji, province of Merida, New Granada (Funk).

8. *BULIMUS PLECTOSTYLUS*, Pfr. *Bul. testâ subperforatâ, ovato-conicâ, solidâ, regulariter et distinctè granulatâ, saturatè castaneâ, flammis brevibus albis infra suturam ornatâ; spirâ conicâ, obtusiusculâ; anfractibus 5 vix convexiusculis, superioribus plicato-striatis, ultimo tumido, anticè perobliquè descendente, 4—7 longitudinis subæquante; columellâ supernè plicâ validâ, subobliquâ, munitâ; aperturâ obversè auriformi, intus sordidè lilaced, nitidâ; peristomate undique expanso et reflexo, livido-fusco.*

Long. 35, diam. 17 mill.

From Chachopo, province of Merida, New Granada (Funk).

9. *BULIMUS VERANYI*, Pfr. *Bul. testâ subperforatâ, ovatâ, solidiusculâ, minutissimè granulatâ, fulvâ, punctis castaneis conspersâ et strigis luteis vel albis fulguratis distantibus ornatâ; spirâ conicâ, obtusiusculâ; anfractibus  $4\frac{1}{2}$  convexiusculis, ultimo 3—5 longitudinis æquante; columellâ supernè subplicatâ, leviter arcuatâ; aperturâ oblongo-ovali, intus margaritaceâ; peristomate albo, undique mediocriter expanso.*

Long. 33, diam. 15 mill.

From Chachopo, province of Merida, New Granada (Funk).

10. *BULIMUS PERDIX*, Pfr. *Bul. testâ perforatâ, ovato-oblongâ, solidâ, confertim striatâ, albâ, flammis, maculis et punctis nigricantibus pictâ; spirâ conicâ, apice obtusiusculâ; suturâ marginatâ; anfractibus  $5\frac{1}{2}$  vix convexis, ultimo spiram subæquante, basi juxta perforationem angustam vix compresso; columellâ supernè obliquè plicatâ, leviter arcuatâ; aperturâ oblongâ, intus concolore; peristomate undique expanso, margine columellari subfornicato.*

Long. 36, diam. 15 mill.

From Agua de Obispo, New Granada (Funk).

11. *BULIMUS QUITENSIS*, Pfr. *Bul. testâ umbilicatâ, ovato-conicâ, solidâ, ruguloso-striatâ, pallidè fusciscente, strigis variis fuscis*

*et castaneis variegatâ; spirâ conicâ, acutâ; anfractibus 7 planiusculis, ultimo convexo, spiram vix superante, basi juxta umbilicum angustum, apertum compresso, nigricante; columellâ rectâ, verticali, nigricante; aperturâ oblongâ, ad basin columellæ subangulatâ, intus nigricanti-limbâ; peristomate simplice, recto, marginibus subparallelis, dextro supernè repando, columellari dilatato, patente.*

Long. 26, diam. 12 mill.

From Quito (De Lattre).

12. *BULIMUS IRREGULARIS*, Pfr. *Bul. testâ umbilicatâ, ovato-oblongâ, solidulâ, plicis confertis, longitudinalibus rugosâ, carnea, fusculo substrigatim variegatâ; spirâ conicâ, acutiusculâ, apice rufâ; anfractibus 6 vix convexiusculis, ultimo spirâ vix brevior, circa umbilicum angustum, non pervium subangulato-compresso; columellâ leviter arcuatâ; aperturâ ellipticâ, basi subangulatâ; peristomate simplice, recto, margine columellari e basi reflexo, supernè dilatato.*

Long. 19, diam. 9 mill.

From Quito, Ecuador (De Lattre).

13. *BULIMUS MERIDIONALIS*, Pfr. *Bul. testâ perforatâ, ovato-conicâ, striatulâ, diaphandâ, albâ, fasciâ 1 aurantio-fusca cingulatâ; spirâ regulariter conicâ, acutiusculâ; anfractibus 7 convexiusculis, ultimo spirâ brevior, subrotundato; columellâ leviter arcuatâ; aperturâ obliquâ, truncato-ovali, intus concolore; peristomate simplice, breviter expanso, margine columellari supernè fornicato-reflexo.*

Long. 15, diam. 8 mill.

From South Africa.

14. *BULIMUS PELLUCIDUS*, Pfr. *Bul. testâ subperforatâ, turritâ, tenuissimâ, striatulâ, nitidâ, pellucidâ, lutescenti-cornâ; spirâ elongatâ, apice obtusâ; anfractibus 7 convexiusculis, ultimo 1—3 longitudinis æquante; columellâ subtortâ; aperturâ subquadrangulâ-ovali; peristomate simplice, acuto, margine columellari breviter revoluta.*

Long.  $11\frac{1}{2}$ , diam. 4 mill. (spec. max.).

From Merida, New Granada (Funck).

15. *BULIMUS GRANADENSIS*, Pfr. *Bul. testâ angustè perforatâ, fusiformi-ovatâ, tenui, irregulariter striatâ, albâ, strigis vitellinis et maculis longitudinalibus nigricantibus seriatis ornatâ; spirâ conicâ, acutiusculâ; anfractibus 6 vix convexiusculis, ultimo spiram æquante; columellâ rectâ; aperturâ ovali-oblongâ, intus concolore; peristomate acuto, simplice, vix expansiusculo, margine columellari in laminam triangularem tenuem reflexo, perforationem ferè occultante.*

Long. 26, diam. 11 mill.

From Merida, New Granada (Funck).

16. *ACHATINELLA MIGHELIANA*, Pfr. *Ach. testâ ovato-coniformi, lavigatâ, opacâ, nitidâ, nivedâ, strigis cinereis variegatâ; spirâ*

conicd, apice acutiusculd; suturâ submarginatâ; anfractibus  $5\frac{1}{2}$  convexis, ultimo infra medium lined nigricante (interdum duplicatâ) cincto; plicâ columellari validâ, dentiformi, basi castaneâ; aperturâ semiovali, fusco-marginatâ; peristomate simplice, acuto.

Long. 17, diam. 8 mill.

From Molokai, Sandwich Islands.

17. *ACHATINA MAGNIFICA*, Pfr. *Ach. testâ ovato-subfusiformi, tenuiusculâ, leviter striatâ, haud nitente, luteâ, strigis et flammis virentibus et castaneis, fasciâque 1 luteo et castaneo articulatâ, supramediand variegatâ; spirâ conicâ, apice obtusissimâ; anfractibus  $5\frac{1}{2}$  vix convexiusculis, ultimo spiram pauld superante; suturâ angustè marginatâ; columellâ rectâ, verticali, callo introrsum albo, extrorsum nigricante indutâ, basi rubrâ, ad basin aperturæ ellipticæ, intus cærulescenti-albidæ obliquè truncatâ.*

Long. 47, diam. 21 mill.

From Quito, Equador; in woods (De Lattre).

18. *ACHATINA FUNCKI*, Pfr. *Ach. testâ subperforatâ, ovato-conicâ, tenui, striatâ, nitidâ, pellucidâ, stramineo-hyalinâ; spirâ conicâ, acutâ; anfractibus 6 convexis, ultimo spirâ pauld breviorè; aperturâ semiovali; pariete aperturali medio plicâ laevi, intrante munito; columellâ medio lamellatim truncatâ; peristomate simplice, acuto.*

Long.  $12\frac{1}{2}$ , diam. 6 mill.

From the province of Merida, New Granada (Funck).

19. *BALEA FUNCKI*, Pfr. *Bal. testâ sinistrorsâ, vix subrimatâ, turritâ, truncatâ, sublævigatâ, fuscâ; anfractibus (spec. trunc.) 5 convexiusculis, ultimo basi rotundato; aperturâ oblongo-semiovali, intus fulvâ; plicâ parietali validâ, compressâ, columellari obliquâ, obsoletâ; peristomate albo, expanso, reflexiusculo, marginibus callo junctis, externo sinuato.*

Long. (spec. trunc.) 14, diam. 4 mill.

From Chachopo, province of Merida, New Granada (Funck).

## 2. DESCRIPTION OF A NEW SPECIES OF VOLUTE. BY W. J. BRODERIP, Esq., F.R.S. ETC.

*VOLUTA SIGNIFER.* *Vol. testâ ovato-fusiformi, longitudinaliter creberrimè lineatâ, subflavâ, signis spadiceo-brunneis irregularibus, interruptis vittatâ; spirâ mediocri, subtumidâ, apice subacuto-mammillari, glabro; anfractibus 3, ultimo longè maximo, subventricosos; labro acuto; columellâ quadriplicatâ, plicis magnis.*

Long.  $3\frac{3}{8}$ , lat.  $1\frac{5}{8}$  poll.

*Hab.* In Oceano Orientali?

Two bands of detached, reddish-brown, irregular, interrupted spots wreath the spiral whorls, and three such bands, with a trace of a fourth, adorn the body-whorl. There is a wide interval between the upper two of the bands of the body-whorl, and the third and trace of the fourth on the same whorl. An irregular linear dash of the same colour connects the three uppermost of these bands longitu-

dinally and centrally. Indeed the colour seems disposed generally to run from the upper to the lower band of each pair. The terminal notch is very deep and is surmounted by an unusually strong elevated ridge.

The specimen is faded and rubbed, but in form is nearly perfect. When in fine condition *V. signifer* must be one of the most elegant of the beautiful family to which it belongs.

Mr. Cuming obtained this Volute in the present year, from the cabinet of Dr. Dalen of Rotterdam, by whom it was liberally presented to him, although Dr. Dalen had no other example of the shell. I never saw the species before, and as far as my experience goes, this is the only specimen known.