

I have taken as many as thirty-four perfect shells from one cup, showing that they are prolific.

They fix these cups in indentations and crevices and under overhanging parts of the rocks, and *invariably on that side least exposed to the fury of the waves*; and this circumstance shows that even in this animal the Great Author of all has implanted a sense of guarding its young from injury, proving his superintending care over all his creatures.

The accompanying drawings will illustrate the above statement:—

#### PLATE I. A.

Fig. 1. Nidi taken from under the whelk when in the act of forming it.

— 2. Nidi after the escape of the young.

— 3. Magnified view of the upper part or operculum when left by the whelk.

### IX.—*Descriptions of Chalcidites discovered near Conception, in South America, by C. Darwin, Esq.* By FRANCIS WALKER, F.L.S.

Lamprotatus Alcander, Mas. *Æneo-viridis cupreo et cyaneo varius, antennæ fulvæ, pedes fulvi, alæ limpidæ.*

Corpus breve, robustum, convexum, æneo-viride, nitens, scitissime squameum, parce hirtum: caput transversum, breve, viride, thorace paullo latius; vertex latus, frons impressa, abrupte declivis: oculi rufi, mediocres, non extantes: antennæ fulvæ, subfiliformes, thorace non longiores; articulus 1<sup>us</sup> nigro-viridis, longus, gracilis; 2<sup>us</sup> longicyathiformis; 3<sup>us</sup> et 4<sup>us</sup> brevissimi; 5<sup>us</sup> et sequentes usque ad 10<sup>um</sup> breves, approximati, subæquales; clava longiconica, compressa, acuminata, articulo 10<sup>o</sup> duplo longior: thorax ovatus, cupreo-æneus: prothorax brevissimus: mesothoracis scutum cyaneo-viride, longitudine latius; parapsidum suturæ bene determinatæ, postice approximata; scutellum subrotundum: paraptera et epimera magna: metathorax mediocris, obconicus, declivis: petiolus sat longus: abdomen breviovatum, cupreo-varium, supra planum, basi cyaneo-viride, thorace multo brevius; segmentum 1<sup>um</sup> magnum, 2<sup>um</sup> et sequentia breviora: pedes fulvi, simplices, subæquales; coxæ virides; tarsi apice fuscæ: alæ amplæ, limpidæ; squamulæ fuscæ; nervi fulvi; nervus humeralis ulnari fere duplo longior, radialis ulnari non brevior, cubitali multo longior; stigma minutum. (Corp. long. lin. 1; alar. lin. 2.)

Gastrancistrus Cephalon, Fem. *Cupreus, antennæ nigræ, pedes lutei, femora basi nigra, alæ limpidæ.*

Corpus cupreum, convexum, nitens, scitissime squameum, parce hirtum: caput transversum, breve, thorace latius; vertex latus; frons impressa, abrupte declivis: oculi rufi, mediocres, non extantes: antennæ subclavatæ, nigræ, sat graciles, submoniliformes, thorace non longiores; articulus 1<sup>us</sup> longus, sublinearis; 2<sup>us</sup> cyathiformis; 3<sup>us</sup> et 4<sup>us</sup> minimi; 5<sup>us</sup> et sequentes usque ad 10<sup>um</sup> breves, approximati, subæquales; clava longiconica, acuminata, articulo 10<sup>o</sup> plus duplo longior: thorax ovatus: prothorax transversus, mediocris, antice angustus: mesothoracis scutum longitudine latius; parapsidum suturæ bene determinatæ, postice approximata; scutellum subconicum: metathorax brevis, postice angustus: petiolus brevissimus: abdomen ova-



tum, læve, supra planum, subtus carinatum, apice acuminatum, thorace paullo brevius : pedes lutei, simplices, subæquales ; coxæ virides ; femora basi nigra ; tarsi apice fusci : alæ limpidæ ; squamulæ piceæ ; nervi fulvi ; nervus humeralis ulnari multo longior, radialis ulnari paullo brevior, cubitali multo longior ; stigma minutum. (Corp. long. lin.  $\frac{3}{4}$  ; alar. lin.  $1\frac{1}{4}$ .)

*Pteromalus Calenus*, Mas. *Æneo-viridis, abdomen cupreum, antennæ nigræ, pedes fulvi, femora viridia, alæ limpidæ.*

Corpus convexum, æneo-viride, nitens, scitissime squameum, parce hirtum : caput transversum, breve, thorace latius ; vertex latus ; frons impressa, abrupte declivis : oculi rufi, mediocres, non extantes : antennæ nigræ, subclavatae, thorace paullo longiores ; articulus 1<sup>us</sup> longus, gracilis, 2<sup>us</sup> longicyathiformis ; 3<sup>us</sup> et 4<sup>us</sup> minimi ; 5<sup>us</sup> et sequentes ad 10<sup>um</sup> subæquales ; clava conica, articulo 10<sup>o</sup> multo longior : thorax ovatus : prothorax transversus, brevissimus : mesothoracis scutum longitudine latius ; parapsidum suturæ vix conspicuæ ; scutellum subconicum : paraptera magna ; metathorax brevibconicus, declivis : petiolus brevissimus : abdomen cupreum, sublineare, depressum, læve, fere glabrum, thorace multo angustius et paullo brevius : pedes fulvi, simplices, subæquales ; coxæ virides ; femora viridia, apice fulva ; tarsi apice fusci ; mesotibiæ fuscæ ; metatibiæ piceo-cinctæ : alæ limpidæ ; squamulæ piceæ ; nervi fusci ; nervus humeralis ulnari duplo longior, radialis ulnari non brevior, cubitali paullo longior ; stigma minutum. (Corp. long. lin. 1 ; alar. lin.  $1\frac{3}{4}$ .)

*Derostenus Alcetas*, Mas. *Viridis, antennæ nigræ, pedes flavi, alæ fulvo-tinctæ.*

Corpus breve, convexum, viride, nitens, subtilissime squameum, parce hirtum : caput transversum, breve, thorace vix latius : vertex latus ; frons impressa, abrupte declivis : oculi rufi, mediocres, non extantes : antennæ graciles, submoniliformes, nigræ, apice acuminatæ, thorace non longiores ; articulus 1<sup>us</sup> longus, sublinearis ; 2<sup>us</sup> et sequentes usque ad clavam breves : thorax ovatus, cupreo-varius : prothorax brevissimus, supra non conspicuus : mesothoracis scutum longitudine latius ; parapsidum suturæ bene determinatæ, postice approximatae : scutellum obconicum : metathorax magnus, declivis, obconicus : petiolus sat longus : abdomen breviovatum, læve, fere planum, thorace multo brevius : pedes pallide flavi, graciles, subæquales ; coxæ virides ; ungues et pulvilli fusci : alæ fulvo-tinctæ, latæ ; squamulæ piceæ ; nervi flavi ; nervus ulnaris humerali multo longior, radialis vix ullus, cubitalis brevissimus. (Corp. long. lin.  $\frac{2}{3}$  ; alar. lin.  $1\frac{1}{4}$ .)

*Closterocerus Cercius*, Fem. *Viridis, abdominis discus purpureus, antennæ nigræ, pedes nigri, tarsi flavi, alæ fusco-nebulosæ.*

Corpus sublineare, fere planum, læte viride, nitens, scitissime squameum, parce hirtum : caput transversum, brevissimum, impressum, thorace non latius ; frons abrupte declivis : oculi rufi, mediocres, non extantes : antennæ nigræ, graciles, submoniliformes, apice acuminatæ, thorace paullo breviores ; articulus 1<sup>us</sup> longus, sublinearis ; 2<sup>us</sup> et sequentes usque ad clavam breves, subæquales : thorax ovatus : prothorax brevissimus, supra non conspicuus : mesothoracis scutum longitudine latius ; parapsidum suturæ non bene determinatæ ; scutellum æneo-viride, obconicum : metathorax brevis, postice angustus : petiolus brevissimus : abdomen ovatum, subtus carinatum, thorace brevius, non latius ; discus purpureus : pedes nigri, simplices, subæquales ; coxæ virides ; genua fulva ; tibiæ apice flavæ ; tarsi flavi, apice fusci : alæ sublimpidæ, ciliatæ, fusco obsolete nebulosæ ; squamulæ piceæ ; nervi fulvi ; nervus ulnaris humerali multo longior, radialis vix ullus, cubitalis brevissimus, in alæ discum abrupte declivis ; stigma minutum. (Corp. long. lin.  $\frac{3}{4}$  ; alar. lin.  $1\frac{1}{4}$ .)



### 32 Mr. Walker's descriptions of Chalcidites from Conception.

Bellerus (N.G.) Anaitis (Haliday MSS.), Mas. *Viridis, antennæ nigræ, pedes virides, tarsi fusci, alæ subfuscæ.*

Corpus gracile, sublineare, convexum, viride, nitens, scitissime squameum, parce hirtum : caput transversum, brevissimum, thorace vix latius ; vertex sat latus ; frons impressa, abrupte declivis : oculi rufi, mediocres, non extantes : antennæ 12-articulatæ ?, graciles, moniliformes, nodosæ, verticillatopilosæ, corpore paullo breviores ; articulus 1<sup>us</sup> longus, sublinearis ; 2<sup>us</sup> brevis ; 3<sup>us</sup> et sequentes usque ad 9<sup>um</sup> verticillo setarum ornati ; 5<sup>us</sup> et sequentium quisque ad 9<sup>um</sup> gracillimi, lineares, apice ubi setæ insident in clavam globosam latescentes ; clava triarticulata, fusiformis, acuminata : thorax longiovatus : prothorax transversus, sat magnus, antice angustus : mesothoracis scutum longitudine latius ; parapsidum suturæ optime determinatæ, postice approximatae ; paraptera et epimera magna ; scutellum subovatum : metathorax mediocris, obconicus, declivis : petiolus brevissimus : abdomen sublineare, planum, læve, thorace angustius et multo brevius : pedes virides, simplices, subæquales ; trochanteres picei ; genua fusca ; tarsi 4-articulati, fusci ; ungues et pulvilli minuti ; protarsi basi flavi ; alæ subfuscæ ; squamulæ piceæ ; nervi fusci ; nervus ulnaris humerali multo longior, radialis humerali paullo brevior, cubitali plus duplo longior ; stigma minutum. (Corp. long. lin.  $\frac{3}{4}$  ; alar. lin.  $1\frac{1}{2}$ .)

Tetrastichus Naucles, Fem. *Ater, abdomen nigro-æneum, antennæ piceæ, pedes fulvi, femora nigra, metatibiæ fusco-cinctæ, alæ sublimpidæ.*

Corpus validum, convexum, atrum, nitens, læve, parce hirtum : caput transversum, brevissimum, thoracis latitudine ; vertex sat latus ; frons impressa, abrupte declivis : oculi rufi, mediocres, non extantes : antennæ piceæ, subclavatae, thorace vix longiores : thorax ovatus : prothorax brevissimus, supra vix conspicuus : mesothoracis scutum magnum, longitudine non latius ; parapsidum suturæ bene determinatæ, remotæ, postice approximatae ; scutellum bisulcatum, semicirculum fingens : metathorax brevis, transversus, declivis : petiolus brevissimus : abdomen ovatum, nigro-æneum, supra planum, subtus carinatum, apice acuminatum, thorace paullo longius : pedes fulvi, simplices, subæquales ; coxæ nigræ ; femora nigra, apice fulva ; tarsi apice fusci ; metatibiæ fusco-cinctæ : alæ sublimpidæ, pubescentes ; squamulæ piceæ ; nervi fusci ; nervus ulnaris humerali fere duplo longior, radialis nullus, cubitalis sat longus ; stigma minutum. (Corp. long. lin. 1 ; alar. lin.  $1\frac{1}{2}$ .)

Tetrastichus Norax, Fem. *Ater, antennæ piceæ, pedes flavi, femora nigra, alæ limpidæ.*

Præcedente gracilior. Corpus sublineare, convexum, atrum, nitens, læve, parce hirtum : caput transversum, brevissimum, thoracis latitudine ; vertex sat latus ; frons impressa, abrupte declivis : oculi rufi, mediocres, non extantes : antennæ piceæ, subclavatae, thorace non longiores ; articulus 1<sup>us</sup> niger : thorax ovatus : prothorax brevissimus, supra vix conspicuus : mesothoracis scutum longitudine non latius ; parapsidum suturæ remotæ, bene determinatæ, postice approximatae ; scutellum bisulcatum, semicirculum fingens : metathorax brevis, declivis : petiolus brevissimus : abdomen ovatum, supra planum, subtus carinatum, apice acuminatum, thorace non longius : pedes flavi, simplices, subæquales ; coxæ nigræ ; femora nigra, apice flava ; tarsi apice fusci : alæ limpidæ ; squamulæ piceæ ; nervi fulvi ; nervus ulnaris humerali duplo longior, radialis nullus, cubitalis sat longus ; stigma minutum. (Corp. long. lin.  $\frac{3}{4}$  ; alar. lin.  $1\frac{1}{4}$ .)





Walker, Francis. 1843. "Description of Chalcidites discovered near Conception, in South America, by C. Darwin Esq." *The Annals and magazine of natural history; zoology, botany, and geology* 11, 30–32.

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