

the præscutum and scutum being very short and external, but covered above by the mesothoracic scutellum, and the meta-thoracic scutellum and postscutellum (the latter small but distinct) internal.

The student will, perhaps, find some assistance in his investigation of this subject, by examining the highly-magnified figures contained in the four anatomical plates, published in Mr. Griffiths's Translation of the Animal Kingdom, in which, for the purpose of elucidation, I have uniformly represented each of the three thoracic segments in the different orders by a different colour,—the prothorax pink, the mesothorax blue, and the metathorax yellow.

ART. XLVIII.—*Descriptions of some Chalcidites discovered by*
C. DARWIN, Esq. By FRANCIS WALKER.

GENUS.—SMIERA, *Spinola*.

Corpus convexum, punctatum, pubescens, parum nitens: caput transversum, breve, thorace vix angustius; frons foveolata: oculi mediocres, subrotundi, extantes: ocelli approximati, vertice triangulum fingentes: thorax breviovatus: prothorax transversus, brevis: mesothoracis scutum longitudine latius; parapsidum suture bene determinatæ; scutellum breviobconicum, apice obtusum, subtus retractum: metathorax brevis, obconicus: petiolus longus, gracilis, abdominis dimidio vix brevior: abdomen fusiforme, subcompressum, glabrum, læve, nitens, thorace paullo brevius multo angustius: propedes et mesopedes simplices, graciles; metapedum coxæ magnæ, femora maxima compressa subtus serrata et sulcata, tibiæ arcuatæ: alæ mediocres.

Sp. 1. Smi. subpunctata. Fem. *Flava, nigro-maculata, antennæ fuscæ, abdomen fulvum, pedes flavi, alæ limpidæ.*

Smiera subpunctata. Guibling, Ent. Mag. II. 25.

Flava: oculi et ocelli rufi: mesothoracis scutum nigro basi et apice fasciatum dorso univittatum; parapsides nigro maculatæ; macula parva nigra utrisque ad proclaram squamulas; scutellum apice nigro maculatum: abdomen fulvum, basi flavescens; segmenta dorsalia 2^a. ad 5^{ta}. nigro maculata; apex nigra: coxæ extus nigro maculatæ; trochanteres subtus pieci; femora apice nigra:

genua nigra; tarsi fulvi: alæ limpidae; nervi fulvi, basi flavi; stigma fuscum. (Corp. long. lin. $2\frac{1}{2}$; alar. lin. $4\frac{1}{2}$.)

August; Bahia, Brazil.

Fem.—Corpus convexum, pubescens, scite punctatum, parum nitens: caput transversum, breve, thorace vix angustius: oculi mediocres, subovati: ocelli vertice triangulum fingentes: antennæ 13-articulatæ, pubescentes, fere filiformes; articulus 1^{us}. gracilis, linearis; 2^{us}. cyathiformis; 3^{us}. et 4^{us}. minimi; 5^{us}. et sequentes ad 10^{um}. lineares, approximati, subæquales; clava conica, non acuminata, articulo 10^o. duplo longior: thorax brevioratus: prothorax transversus, mediocris: mesothoracis scutum magnum, longitudine paullo latius; parapsidum suturæ bene determinatæ; scutellum magnum, subrotundum: metathorax transversus, parvus: petiolus gracilis, abdominis triente brevior: abdomen longioratum, nitens, læve, subtus carinatum, apice acuminatum, basi fere glabrum, thorace paullo longius; segmenta 1^{um}. et 2^{um}. sat magna, 3^{um}. et sequentia brevia; 7^{um}. obconicum: pedes et mesopedes simplices, graciles, subæquales; metapedum coxæ magnæ, femora ovata maxima, tibiæ arcuatæ: alæ mediocres; proalis nervus humeralis ulnari duplo longior, cubitalis brevissimus, radialis ulnari paullo longior.

Sp. 2. Smi. Pielus. *Fem. Fulvus, nigro-carius, antennæ piceæ, pedes lutei, alæ sublimpidæ.*

Fulvus: caput ad os luteum: oculi et ocelli rufi: antennæ piceæ; articulus 1^{us}. fulvus: thorax subtus luteus, nigro-bimaculatus; suturæ nigre: mesothoracis scutum et scutellum nigro-vittata, parapsides nigro-maculatæ: abdomen subtus luteum, apice nigrum; segmenta dorsalia basi ferruginea: pedes lutei; tarsi apice obscuriores; metapedum coxæ nigro-maculatæ, trochanteres nigri, femora apice subtus picea: alæ sublimpidæ; squamule fulvæ; nervi fasci, apice picei. (Corp. long. lin. $3\frac{1}{2}$; alar. lin. 4.)

Rio Janeiro, Brazil.

Fem.—Corpus gracile, convexum, punctatum, pubescens, parum nitens: caput transversum, breve, thoracis latitudine; frons abrupte declivis, lævis, nitens: oculi mediocres: ocelli vertice triangulum fingentes: thorax ovatus: prothorax transversus, subquadratus, mediocris: mesothoracis scutum longitudine latius; parapsidum suturæ non bene determinatæ; scutellum subrotundum: metathorax magnus, obconicus: petiolus gracilis, sulcatus, abdominis dimidio longior: abdomen ovato-compressum,

leve, nitens, fere glabrum, thorace brevius et angustius, segmento 1^o. fere obiectum: pro- et mesopedes simplices, subaequales; metapedes coxis femoribusque maximis, tibiis arcuatis: alae mediocres; nervus humeralis ulnari longior.

Sp. 3. Smi. Teleute. Fem. *Atra*, abdomen nigro-piceum ferrugineo varium, antennae nigrae, pedes nigro-picei, tarsi fulvi, alae limpidae.

Atra: oculi et ocelli rufi: antennae nigrae: abdomen nigro-piceum, subtus et utriusque ferrugineo varium: pedes nigro-picei; coxae nigrae; trochanteres ferruginei; genua ferruginea; tarsi fulvi; protarsi fasci: alae limidae; squamulae ferrugineae; nervi fulvi (Corp. long. lin. 1½; alar. lin. 2.)

Hobart Town, Van Diemen's Land.

GENUS.—CHALCIS, Fabricius.

Mas.—Corpus robustum, convexum, punctatum, parum nitens, parce hirtum: caput transversum, breve, thorace vix latius; vertex latus; frons abrupte declivis: oculi mediocres, non extantes: ocelli remoti, vertice triangulum fingentes: antennae pubescentes, extorsum crassiores, apice obtusae, thorace vix longiores: thorax breviovatus: prothorax transversus, brevis, subquadratus: mesothoracis scutum longitudine latius; parapsidam saturae non bene determinatae; scutellum brevisobconicum, postice retractum: metathorax transversus, brevis: petiolus brevissimus: abdomen ovatum, leve, thorace angustius et paullo brevius: segmentum 1^o, glabrum, dorsi plus dimidium occupans: pro- et mesopedes simplices, subaequales; metapedum coxae magnae, femora ovata maxima, tibiae arcuatae: alae mediocres; nervus humeralis ulnari duplo longior, radialis ulnari longior, cubitalis brevissimus; stigma minutum.

Fem.—Antennae subclavatae, quam masi graciliores: abdomen apice acuminatum, thorace non brevius.

Sp. 1. Chal. Phya. Mas et Fem. *Aeneo-atra*, paraptera flava, antennae nigrae apice piceae, pedes nigro-picei, tarsi flavi, alae limidae.

Mas et Fem.—*Atra*, aeneo subnitens: capitis frons pilis albis vestita: oculi et ocelli rufi: antennae nigrae, apice piceae: mesothoracis paraptera flava: pedes nigri, pubescentes; genua flava; tibiae

marî piccæ fem. nigræ, basi et apice flavæ; tarsi flavi, apice picci: alæ limpidae; squamulae flavæ; nervi fusci, basi flavi. (Corp. long. lin. $1\frac{1}{2}$ — $1\frac{3}{4}$; alar. lin. $2\frac{1}{2}$ — $2\frac{3}{4}$.)

Sydney, New South Wales.

Fem. — Corpus breve, convexum, punctatum, dense pubescens, parum nitens: caput transversum, breve, thoracis latitudine: oculi mediocres, subovati: ocelli vertice triangulum fingentes: antennæ 13-articulatæ, pubescentes, extrorsum crassiores, corpora dimidio paullo longiores; articulus 1^{us}. gracilis, linearis; 2^{us}. subrotundus; 3^{us}. minimus; 4^{us}. et sequentes transversî, usque ad 10^{um}. curtantes; clava conica, non acuminata: thorax ovatus: prothorax magnus, transversus, subquadratus: mesothoracis scutum longitudine paullo latius; parapsidium suturæ bene determinatæ; scutellum magnum, obconicum: metathorax parvus, transversus: petiolus brevissimus: abdomen ovatum, subcompressum, nitens, leve, basi glabrum, thorace paullo brevius et angustius; segmentum 1^{um}. magnum, 2^{um}. et sequentia brevia: metapedum coxæ magnæ, femora ovata, maxima: alæ mediocres; nervus humeralis ulnari duplo longior, radialis longus cubitalis brevissimus.

Sp. 2. Chal. Cabira. Fem. Atræ, antennis nigræ, pedibus nigri, tibiæ fulvo-flavæ, tarsi lutei, alæ limpidae.

Atræ, pilis albis vestita: oculi et ocelli rufi: antennæ nigræ: pedes nigri; tibiæ flavæ, fulvo fasciatæ; tarsi lutei; protarsi fulvi: alæ limpidae; squamulae flavæ; nervi fusci, apice picci. (Corp. long. lin. $1\frac{1}{2}$; alar. lin. $2\frac{1}{2}$.)

Charles's Isle, Galapagos.

GENUS.—HOCKERIA, *De Laporte.*

Mas. — Corpus crassum, convexum, punctatum, nitens, parce pubescens: caput transversum, breve, conferte punctatum, thorace paullo latius; frons foveolata, abrupte declivis: antennæ filiformes, corpora dimidio longiores: thorax ovatus, parce punctatus: prothorax magnus, transversus, subquadratus: mesothoracis scutum longitudine multo latius; parapsidium suturæ remotæ, bene determinatæ; scutellum brevi-obconicum: metathorax transversus, brevis, carinatus: petiolus vix ullus: abdomen breviovatum, leve, thorace paullo angustius multo brevius, segmento 1^o. fere obtectum: pro- et mesopedes simplices, subæquales:

metapedum coxæ magnæ, femora maxima, tibiæ arcuatæ: alæ mediocres; nervus humeralis ulnari quadroplo longior, radialis et cubitalis vix ulli.

Sp. 1. Hoc. Dexius. Mas. *Atra, antennæ nigrae, pedes rufi, alæ sublimpidæ.*

Atra, subtus pilis albis vestita: oculi et ocelli rufi: antennæ nigrae, fulvo-pubescentes: pedes rufi; coxæ nigrae: alæ sublimpidæ; proalæ apud costam obscuriores; squamulae rufæ; nervi picci, (Corp. long. lin. $1\frac{1}{2}$; alar. lin. $2\frac{1}{2}$.)

March; King George's Sound, Australia.

Fem. — Corpus convexum, punctatum, pubescens, parum nitens: caput transversum, breve, thoracis latitudinæ; frons foveolata, abrupte declivis: oculi extantes: antennæ subfiliformes, pubescentes, corporis dimidio longiores: thorax ovatus: prothorax transversus, medioeris, subquadratus: mesothoracis scutum longitudinæ latius; parapsidum saturæ sat bene determinatæ; scutellum magnum, obconicum, apex bimacronata: metathorax transversus, brevis: petiolus brevissimus: abdomen ovatum, nitens, læve, basi fere glabrum, subtus carinatum, apice acuminatum, thorace paullo brevius et angustius; segmentum 1^m. magnum, 2^m. et sequentia brevia: pedes pubescentes; tibiæ apice mucronatæ; tarsi graciles; metapedum coxæ magnæ, femora maxima ovato-compressa, tibiæ arcuatæ: alæ mediocres; nervus humeralis ulnari quadroplo longior, radialis longus, cubitalis vix ullus.

Sp. 2. Hoc. Eracon. Fem. *Atra, antennæ nigrae, pedes picci, tarsi rufi, proalæ fusco bifasciatæ.*

Atra, pilis albis vestita: oculi et ocelli rufi: antennæ nigrae: pedes picci; trochanteres rufi; genua rufa; tarsi rufi, apice fuscii: alæ sublimpidæ; proalæ fusco bifasciatæ; squamulae piccæ; nervi fuscii, apice picci. (Corp. long. lin. $1\frac{1}{2}$; alar. lin. $2\frac{1}{4}$.)

Hobart Town, Van Diemen's Land.

Fem. — Corpus convexum, punctatum, parce pubescens, parum nitens: caput transversum, breve, thorace vix latius; frons foveolata, abrupte declivis: oculi mediocres, extantes: ocelli vertice triangulum fingentes: antennæ subfiliformes, pubescentes, corporis dimidio longiores: thorax ovatus: prothorax transversus, medioeris, subquadratus: mesothoracis scutum longitudinæ latius; parapsidum saturæ sat bene determinatæ; scutellum magnum,

brevi-obconicum, apex subproducta bimucronata: metathorax transversus, brevis: petiolus brevissimus: abdomen ovatum, nitens, læve, basi fere glabrum, subtus carinatum, apice attenuatum et acuminatum: thorace paullo angustius vix brevius: segmentum 1^m. dorsi dimidium occupans, 2^m. et 3^m. brevia, 4^m. et 5^m. brevissima, 6^m. et 7^m. sat longa: pedes pubescentes: tarsi validi, articuli 1^o. ad 4^m. curtantes, 5^m. 4^o. paullo longior: metapedum coxæ magnæ, femora ovato-compressa, tibiæ arcuatae: alæ parvæ; nervus humeralis ulnari quadruplo longior, radialis longus, cubitalis vix ullus.

Sp. 3. Hoc. Nyssa. Fem. *Atra, abdomen rufum apice nigropiceum, antennæ nigrae, pedes picco-rufi, proalæ fusco nebulosæ.*

Atra, pilis albis vestita: oculi et ocelli rufi: antennæ nigrae: abdomen rufum, apice nigro-piceum: pedes rufi: tarsi fusci: propedum femora picea, tibiæ basi piceæ; mesofemora fusca; metatibiæ basi subtus nigrae: proalæ sublimpidae, fusco nebulosæ; metalæ limpidae; nervi fusci, apice picei. (Corp. long. lin. 1 $\frac{3}{4}$; alar. lin. 2.)

Sydney, New South Wales.

GENUS.—CALLIMOME, *Spinola*.

Sp. 1. Call. Daonus. Fem. *Viridis, cupreo-varius, oviductus vaginae abdominis dimidio longiores, antennæ nigrae apice fusca, pedes fusci, metafemora viridi-cyanea, alæ limpidae.*

Læte viridis, nitens, scite squameus, breviter pubescens: caput thorace latius; frons æneo-varia: os fulvum: oculi et ocelli rufi: antennæ nigrae; apices subtus pubescentes; articuli 1^o. et 2^o. virides: thoracis latera cupreo-varia: abdomen viridi-cupreum, læve, fere glabrum: oviductus vaginae nigrae, abdominis dimidio longiores: pedes flavi; tarsi apice fusci; protarsi fulvi; metafemora viridi-cyanea, apice cuprea: alæ limpidae; squamae fulvæ, antice virides, nervi fusci. (Corp. long. lin. 1; alar. lin. 1 $\frac{1}{2}$.)

March; King George's Sound, Australia.

GENUS.—PTEROMALUS, *Scofieldus*.

Mes.—Corpus angustum, sublineare, nitens, pubescens, squameum: caput breve, convexum, thorace paullo latius; vertex latus; frons

abrupte declivis: oculi mediocres, subrotundi: ocelli vertice triangulum fidentes: antennae subfiliformes, ad apices angustiores et acuminatae, corporis dimidio paulo breviores; articulus 1^{us}. longifusiformis; 2^{us}. cyathiformis; 3^{us}. et 4^{us}. minimi; 5^{us}. et sequentes subquadrati, approximati, latitudine longiores; clava teliformis, articulo 10^o. duplo longior: thorax longiovatus, convexus: prothorax brevissimus: mesothoracis parapsidum suturae non bene determinatae, scutellum obovatum: metathorax brevis: abdomen sublineare, ad apicem subdilatum, thorace paulo angustius vix brevius: alae mediocres; nervus ulnaris humerali non brevior, cubitalis radiali paulo longior.

Sp. I. Pter. Eneubulus. Mas. *Viridi-aeneus, abdomen nigro-cupreum, antennae nigrae, pedes fulvi, femora aeneo-viridia, tarsi albidii, alae sublimpidae.*

Aeneus: caput ad os viride: oculi et ocelli rufi: antennae nigrae: articuli 1^{us}. et 2^{us}. aeneo-virides: metathorax cyaneo-viridis: pectus viride: abdomen nigro-cupreum, subtus nigro-cyaneum: pedes fulvi; coxae et femora aeneo-viridia; tibiae basi piceae; tarsi albidii, apice fuscii; propedum tibiae viridi-fulvae, tarsi fulvi: alae sublimpidae; squamae aeneo-piceae; nervi fuscii. (Corp. long. lin. 1 $\frac{1}{4}$; alar. lin. 1 $\frac{3}{4}$.)

Charles's Isle, Galapagos.

GENUS.—EUFELMUS, *Dalman.*

Sp. I. Eup. Amillarus. Fem. *Viridi-ferrugineus, aeneo et albido varius, antennae fulvae, pedes piceo-fulvi, femora viridivittata, alae nullae.*

Caput viridi-aeneum: os fulvum: oculi et ocelli rufi: antennae fulvae: gula albida: pectus ferrugineum, antice viridi-varium: abdomen aeneo-fulvum, basi subtus albidum: pedes fulvi; coxae virides; femora viridi vittata; tarsi apice fuscii; metapedum tibiae et tarsi supra picea: alae nullae. (Corp. long. lin. 1 $\frac{1}{4}$.)

Discovered in the beginning of August, by sweeping in forests and open places after the rainy season or winter.

GENUS.—ENCYRTUS, *Dalman.*

Corpus breve, latum, crassum, nitens, pubescens, scite squameum, parce punctatum: caput transversum, convexum, thoraci juxta

latum; vertex latus; frons abrupte declivis: oculi mediocres: antennæ nonnisi articuli 1^o, et 2^o, ademptæ, hic longicyathiformia, ille fusiformis: thorax brevioratus, convexus: mesothoracis scutum transversum, paraptera non convenientia, scutellum obconicum, epimera brevia glabra: pectus fere glabrum: abdomen obconicum, fere leve, thorace angustius et brevius: oviductus occultus: pedes validi: alæ amplæ.

Sp. 1. En. Odacon. Fem. *Viridis, æneo et purpureo variis, abdomen purpureum, pedes fulvi, metapedes nigro-virides, proalæ fusco bifasciatæ.*

Caput viride, ad os viridi-cyanæum: oculi et ocelli rufi: antennis articulus 1^o, fulvus, supra fuscus; 2^o, niger: thorax viridis: mesothoracis scutellum et latera æneo-viridia: metathoracis latera cyaneo-purpurea: abdomen purpureum: pro- et mesopedes fulvi, tarsi apice fusci: metapedes nigri, coxæ et femora obscure viridia: alæ albidiæ; squamulæ picæ; nervi flavi; proalis fasciæ 2 connexæ fuscæ, una apud stigma, altera ad alæ apicem; metala: apice subfuscæ. (Corp. long. lin. $\frac{1}{2}$; alar. lin. $1\frac{1}{2}$.)

Hobart Town, Van Diemen's Land.

GENUS.—EULOPHUS, *Geoffroy.*

Fem.—Corpus breve, latum, parum nitens, scilicet squameum, breviter pubescens: caput transversum, breve, thorace paullo angustius: vertex latus, convexus; frons impressa, abrupte declivis: oculi mediocres, subrotundi: ocelli vertice triangulum fingentes: antennæ subfiliformes, corporis dimidio non longiores; articulus 1^o, longifusiformis, gracilis; 2^o, cyathiformis; 3^o, et 4^o, minimi; 5^o,? et sequentes quadrati, subæquales, latitudine longiores: clava triarticulata, longiconica, articulo præcedente duplo longior: thorax brevioratus: prothorax brevissimus, supra non conspicuus: mesothoracis scutum transversum, parapside saturate non bene determinatæ, paraptera maxima supra convenientia, scutellum rhombiforme: metathorax brevissimus: abdomen subrotundum, sessile, planum, glabrum, scitissime squameum, apice parce hirtum, thorace latius vix longius; segmenta 1^o, et 2^o, maxima; 3^o, breve; 4^o, longius; 5^o, et sequentia vix conspicua: oviductus occultus: pedes graciles, subæquales: alæ mediocres: nervus ulnaris humerali multo brevior, cubitalis arcuatus, radialis paullo longior, stigma minutum.

Sp. 1. *Eul. Megalarus*. Fem. *Cupreus*, abdomen fulvum, antennæ fuscæ, pedes fulvi, alæ limpidæ.

Obscure cupreus: oculi piceï: ocelli rufi: antennæ fuscæ; articulus 1^{us}. nigro-cupreus; 2^{us}. flavus: abdomen fulvum; discus subtus cupreus: pedes fulvi; coxæ nigro-cupreæ; tarsi apice fuscï: alæ limpidæ; squamulae piceæ; nervi fulvi. (Corp. long. lin. 1 $\frac{1}{4}$; alar. lin. 2.)

March; King George's Sound, Australia.