TRANSACTIONS

ENTOMOLOGICAL SOCIETY

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I. Dytiscida Darwiniana; or, Descriptions of the Species of Dyliscidic collected by Charles Darwin, Esq., M.A. Sec. G. S. &c., in South America and Australia, during his Vougge in H.M.S. Beagle, By Charles C. Babing-TON, M. A., F. L. S., F. G. S., &c. su do par [Read 4th June, 1838.]

AT the request of my friend Mr. C. Darwin, I have examined the species of Dutiscide collected by him during his voyage with Captain Fitzroy in the Beagle, and have now the honour of submitting the following descriptions of them to the Entomological Society. The specimens described very closely resemble some of those which are natives of the British isles: but, after a minute examination, a marked difference is always found to exist between them and any European insects, Before proceeding to the descriptions, I propose to make a few

observations: and in the first place I would draw attention to the Cybister, which I have named 2-ungulatus. It has been observed by Erichson, Curtis, Stephens, &c., that this genus has only one immoveable claw to the posterior tarsi. Here (Pl. I. fig. 1 a. 1 b) we find two clearly distinguishable claws both immoveable, and apparently joined together at their base; or rather perhaps we ought to consider it as one claw very deeply divided into two parts. This insect also differs from the usual structure of the

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genus in the proportions of the joints of its palpi and antennæ, the structure of its mandibles, and the singularly pitted elytra of the female. In the first group of the genus Columbetes (Rantus, Eschsch.), we have a series of species closely allied to our C. notatus and agilis, but most of them at once distinguished from all the English species by the form of the apex of their elytra. In our native insects of this group, that part is uniformly rounded and obtuse, but in the South American specimens contained in this collection each elytron is obliquely truncate in such a manner as to form a sharp point at the suture (Pl. 1, fig. 2 b). The singular structure of the anterior claws of the males is worthy of notice, one of them being much longer than the other, broad, flattened, and fixed at a right angle with the last joint of the tarsi; the other slender and setaceous, and about a third part shorter (Pl. 1, fig. 2 a). This structure occurs in the claws of C. notatus, but in no other English species which I have had an opportunity of examining. In C. augusticollis will be found a form of thorax which has never before fallen under my notice in this genus. The species of Hudroporus will be observed to resemble closely some of those contained in our English cabinets, but yet to be clearly distinguishable from them. At the conclusion of the paper, I have characterised three new

generic forms of great interest; and as the species upon which they are founded are amongst the more minute of those contained in this family, and are nearly the first small water insects which have been brought from the tropics. I cannot but consider them as a proof of the very rich harvest which awaits the active and industrious collector, who may be induced to turn his attention to the minuter insects of those countries. The first, which I have denominated Hydroporomorpha, has the general appearance of an Hudronorus, closely resembling H. oblongus, Power (Steph. III. (M.) 5, p. 437), but it has a conspicuous scutellum; the structure of its labial palpi is quite different, having the three first joints very short, and the first joint of its internal maxillary palpi is longer than the second, not very short as in Hudronorus. The second new generic form (Anodochcilus, Bab.) also closely resembles a minute Hudroporus, from which it differs by the three basal joints of its external maxillary and labial nalni being transverse. and the terminal one emarginate, the first joint of the internal maxillary long and slender, and the second subulate, and by the want of the least trace of a tooth in the centre of the mentum. The third new genus (Desmopachria, Bab.) has the outward appearance of a minute Hygrotus, but is distinguished from that The Complete Work of Charles Darwin Online

external maxillary and labial palpi, the slender short terminal joint of the internal maxillary, and its very short thick and cu-In conclusion, I beg to express my great obligation to the Rev. F. W. Hope for the free use of his cabinet and library, and to J. O. Westwood, Esq., for his kind assistance in making the dissections and drawings for this paper.

of Dutiscide Dorwiniana. genus by the great thickness and different form of the joints of its

DYTISCIDÆ DARWINIANÆ. is Entrad CYPISTER, Curt.

1. C. 2-ungulatus, Bab. Olivaceo-niger, capite antice thoracis elytrorumque lateribus rufis; elytris postice latioribus impunctatis, sterni laciniis spathulatis; pedibus 4 anticis rufis, posticis bruneis, rufo-cili-

Olive black, ovate. Head olivaceous, with its anterior margin rufous; two small black fovere in front, and two slender black lines extending diagonally from the antennæ towards the crown; no frontal lunule; impunctate except when greatly magnified, but then it is found to be, together with the thorax and elytra, covered with extremely minute punctures; labrum rufous; palpi and antennæ ferruginous. Thorax with an interrupted row of impressed dots on its anterior margin, an oblique one on both sides, and an

atis, omnibus 2-dactylis. (Long. corp. 12-14; lat. 7-84. lin.)

abbreviated longitudinal dorsal channel, the lateral margins broadly rufous. Scutellum olivaceous; elytra ovate, posteriorly dilated, the exterior margin rufous, three rows of distant punctures upon each, and an irregular row of more minute ones on the exterior margin. Under side black, with a bright yellow spot at the posterior angles of the hinder sutures. The four anterior legs rufous, very short; posterior short and thick, particularly the tibiæ, dark; all the tarsi with two claws, but both those of the hinder pair appear to be immoveable, fringed internally with long rufous hairs. (Plate I. fig. 1 a, last joint of hind tarsi seen above;

Hab, Maldonado, on the north coast of the Rio del Plata, A forma typicali (C. Rocsclii) hujusce generis insecta nostra

differe videntur articuli basalis palporum maxillarium externorum antennarumque longitudine majori, elytris scrobiculatis forminge, mandibulis brevibus truncatis et oblique emargina-

4

COLYMBETES (RANTUS). Steph. Brit. Ent. (Mand.) 5, 393.

RANTUS, Eschsch.

COLYMBETES. Erichs. Dytire. 32.

A. Elytrorum apice oblique truncato, acuminato.

a. Thorace postice multo latiori.
1. (2.) C. reticulatus, Bab.

Oblongo-ovatus, supra flavicans, subtus niger, vertice et thorace antice posticeque nigris, elytris crebre nigro-reticulatis striisque disci puoctatis; antennis pedibusque pallidis, tarsis

positics nigit's exceptis. (L. c. 5, lat. 2] hin.)
Oldong-serve, yellow above. Head with the veriex broadly
black, antennex yellow. Thorax abort, transverse, broadly emarkginate in from, with prominent some ongles, the sides oblique and
but alightly rounded, the posterior margin somewhat simusted, the
angles obtaine and alightly rounded, smooth, with a series of impressed dots on the anterior margin; disk immurables, the anterior

angles obtains and alightly rounded, amouch, with a series of time present date on the interior margin; disk immorthen, the natured margin blackish, the positries with a broad transverse black appel and the properties of the positries with a broad transverse black appel and the properties. So without transposit, both, with an age and ability transities on as to form a sharp point at the staters, alightly convex, with three lines of muster impressed dets ages each, which are scarcely distinguishable in the female, yellow, with the staters, we, and numerous longitudinal fines connection with the staters, we, and numerous longitudinal fines connection nearly continuous lines next the source yellow, the whole surface mixedy targine in the female. Body beamsh black, with the ablomen nomerbat factors. Legs yellow, the posterior tarial observacytom, the posterior tarial color excepted, which are black.

alone excepted, which are black.

Hab. Valparaiso, Chili.

In this species, and all the others included in my Section A., the claws of the anterior feet (Pl. 1, fig. 2a) are very large and

and the allied European species.

integration to the state of the control of the cont

2. (3.) C. nigro-rematus, Bab, Oblongo-ovatus, supra flavicans, subtus niger, abdomine flavo, vertice nigro, elytris crebre nigro-reticulatis striisque disci punctatis; antennis pedibusque pallidis, tarsis posticis nigris

Head, antennæ, and thorax as in the preceding insect; but the latter is wholly yellow, with the exception of two minute black

spots on the hinder margin. Scutellum as in the last. Elytra the same, but the vellow outer margin is broader, and the reticulations are less regular. Breast black. Abdomen yellow, with the centres of the segments rather dusky. Legs pale, with the exception of the posterior tarsi, which are black. There are two specimens of this insect in the collection; one

from Port Famine, on the east coast of Patagonia, has smooth shining elvira, and all the appearance of a male insect, but it has not dilated tarsi; the other from Port Desire, on the same coast, has the strigose doll elytra, tarsi, &c. of a female. This species pale thorax with two minute spots, and the pale abdomen. Can it be a variety of that insect?

3. (4:) C. Chiliensis, Laporte ? Oblongo-ovatus, supra flavicans, subtus niger, capite thorace

antice postice maculaque oblonga transversa disci nigris, elytris crebrissimè nigro-reticulatis, striisque disci punctatis, antennis flavis extrorsum fuscis, pedibus fuscis. (L. c. 5); lat, 22 lin.)

C. Chiliensis, Lap. Etud. Ent. 100?

Head black, the anterior margin and labrum flavous, Antennæ flavous at the base, becoming gradually darker towards the apex. Structure of the thorax as in the preceding. The anterior and posterior margins black, and a large broad transverse rectangular black spot on the disk, between which and the base is a row of minute black dots. Scutellum totally black; elytra ovate, very slightly dilated, with the usual strize, formed of few distant punctures, flavescent, very thickly reticulated with black; the lateral margins, and a very narrow line down the suture, immaculate. Body beneath wholly black. Legs fuscous, the inter-

mediate femora thickly and coarsely punctured, Distinguished from the preceding species by its black head, the spot on the thorax, &c. Found at Valparaiso in Chili, one of the specimens at an elevation of 5000 feet above the sea.

4. (5.) C. suturalis, Bab.
Oblongo-ovatus, supra flavicans, subtus niger, vertice nigro, maculis 2 testaccis, elytris crebre nigro-irroratis striisque disci punctatis, antennis pedibusque flavis. (L. c. 5; lat. 2½

disci punctatis, antennis pedibusque flavis. (L. c. 5; lat. 2½ lin.)

Head yellow, with the vertex black, inclosing two transverse

yellow spots. Antenna yellow. Structure of the thorax, as in the preceding species, yellow, with a very narrow black line on the hinder margin, and a slight cloud on the dath. Scarelline the species of the species of the species of the species of the covered with minute black spots (not criticalized), less closely placed near the lateral margins, which, together with a strongly placed near the lateral margins, which, together with a strongly marked line down the source, are immediate, the usual strip marked line down the source, are immediate, the usual strip marked line down the source, are immediate, and a superposition of the species of the species of the species of positions. The species of the species of the species of the Quillow, the hinder spir rather darker.

The irrorated elytra of this insect will distinguish it from all the preceding.

Hab. Valparaiso.

Thorace postice vix latiori, lateribus subparallelis,
 † Elytrorum basi thorace latiori.

5. (6.) C. angusticollis, Curt.

Oblongus, thorace elytrorum basi multo angustiori, lateribus parallelis rectis, pallide flarus, diplannus, vertice coulis pectorique nigris; elytris linciesi longitudinalibus undulatis sub-interruptis nigris notatis, striisque disci punctatis obsoletis, antennis pedibusque pallide flavis. (L. c. 5; lat. 2½ lin.)

C. angusticollis, Curt, in Linn. Trans, xviii. 195 t. xv. f. E.

C. engericollus, Curt. in Islam. Trans. xviii. 136; t. xv. f. E.
The whole upper rather pale yeldem and dispharous, expent
The whole upper rather pale yeldem and dispharous, expens
short, transverse, narrow, breadly canceptant in frest, slightly
produced over the local in the middle, the angles promisers and
acuts, soles parallel and depressant, the kinder angles recenteged and
produced over the docal in the middle, the measurement over it is except
to the contract of the soles of the contract of the cont

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of Dytiscida Darwiniana. and fourth from the suture longest and most strongly marked; between each of these is another irregular wavy line, and about three externally between them and the margin, the whole anastomosing more or less, so as to present a very irregular and imperfect system of reticulations; there is an abbreviated black line upon the truncate apex next to the suture; the lateral mar-

gins are broadly immaculate, and the usual strige scarcely to be detected. Body beneath dark, the thorax and breast black, the abdomen fuscous. Legs pale yellow, The singular thorax of this insect, distinguishes it from all the other species with which I am acquainted, Since this paper was communicated to the Society, Mr. Curtis

has published a description and figure of what appears to be the

same insect as that now before us, in the Transactions of the Linnean Society. I have therefore adopted his name, and omitted that of C. narallelus, which I had conferred upon it.

Hab. Port St. Julians, S. A. ++. Elytrorum basi thoracem æquanti.

6, (7.) C. rotundicollis, Bab,

Oblongus, thorace elytrorum basin æquanti, lateribus rotundatis, fuscus, subtus niger; elytris crebre nigro-reticulatis striisque disci punctatis, antennis pedibusque fuscis. (L. c. 4: lat. 2 lin.)

Whole insect fuscous, Head nearly black on the crown, minutely punctured, with two deep foven between the antennae. Thorax transverse, short, broadly emarginate in front, with the angles acute, the sides rounded, depressed, rugose, the hinder margin sinuated with a small longitudinal impression on each side, the hinder angles rounded; the anterior margin black, and black, the interior margins paler, the usual strize rather strongly

several irregular dark clouds upon the disk. Scutellum dark fuscous, with its acute apex paler. Elytra oblong-ovate, so thickly covered with dark broad reticulations as to appear nearly

marked. Body beneath black. Legs fuscous.

Hab. Alpine situations in Tierra del Fuego.

B. Elytrorum apice non truncato, sed rotundato.

a, unquiculis anticis magnis,

7. (8.) C. signatus, Bab.

Obovatus, supra fusco-flavicans, subtus niger, vertice nigro,

maculis 2 flavicantibus, thorace macula disci transversa

tatis, antennis pedibusque fusco-flavescentibus. (L. c. 42; lat. 23 lin.) Ovate, fuscous yellow above. Crown of the head black, inclosing two transverse fuscous yellow spots. Antennæ fuscous vellow. Thorax transverse, short, broadly emarginate in front, the angles prominent and acute, margins oblique, slightly rounded, much broader behind, slightly sinuated, the angles acute, disk

Mr. C. C. Babington's Descriptions nigrâ, elytris crebrissimè nigro-irroratis, striis disci punc-

smooth, with a large transverse dark spot, attenuated at both ends. Scutellum fuscous. Elytra oboyate, dilated beyond the middle, fuscous vellow, very thickly irrorated with black, leaving the exterior margin and a narrow line down the suture immaculate, the usual punctate strize faint. Body beneath black. Legs fuscous yellow; the hinder pair rather darker; the anterior claws large, but yet rather smaller than in the preceding section. Hab. Monte Video, and Tierra del Fuego. Unfortunately the only specimens of this insect are females, and therefore it may be doubted whether it has the curious claws described above; it agrees, however, so nearly with our C. notatus, that I am inclined to refer them to the same group. In

the following species the claws are much smaller, and although unequal in length, are yet similar in form, neither do they differ much in the two sexes. Still a slight approach to the unequal.

form may sometimes be detected in the males, b, unguiculis anticis mediocribus, 8, (9,) C. Darwinii, Bab. Ovatus, supra flavescens vel fusco-flavescens, subtus niger vel

nigro-fuscus, vertice nigro, maculà transversà flavà, thorace antice et postice maculânue disci nigris ; elvtris plus mi-

nusve crebre nigro-irroratis striisque disci punctatis, antennis flavis, pedibus flavis vel fuscescentibus. (L. c. 5-6, lat. 21-3

Ovate, flavescent, fusco-flavescent, or fuscous. Crown of the head black, with a transverse flavescent spot, which is connected by its middle with the anterior concolorous part of the head, so as to form a T shaped mark. Antenna yellow, Thorax of the same structure as the last, margined before and behind more or less broadly with black, and an ovate transverse spot of the same colour on the disk. Scutellum black. Elytra ovate, dilated

slightly beyond the middle, flavescent or fuscous yellow, thickly irrorated with black, in some specimens so thickly as to make the The Complete Work of Charles Darwin Online

of Dytiscide Darwinianae. 9
whole appear fuscous-black; the usual strine rather strongly
marked, and formed of irregular punctures. Body beneath black
or fuscous-black. Legs dark yellow or fuscous.

marked, and formed of irregular punctures. Body beneath black or fuscous-black. Legs dark yellow or fuscous. Extremely variable in colour; some specimens being nearly black, and others quite pale. Hab, Tierra del Fuego. 9, (10.) C. calidus. Fab.

(10.) C. calidas, Fab.
 Oyatus, capite thoraceque nigris, elytris crebre nigro-irroratis,

Ovatus, capite thoraceque ngrs, elytris ceren nigro-iroratis, maculà magnà triangulari dorali prope basin nigrd, lineda interruptà basali transversá, marginibus externis elytrorum et lateribus thoracis rufis, atriis disci punetatis, subtus niger, antennis pedibusque flavis, posticis fuscis. (L. c. 6; lat. 3 lin.)

ins.) C. calidas, Fab. Em. Syat. 1, 193, 27; Syat. Eleut. 1, 265.
Oral; Incal likek, amoult, with two minute force between the
eyes in front. Thorac of the same arranges as in the preceding
hards, the hareal margins broadly rations. Securibmen black,
hards, the hareal margins broadly rations. Securibmen black
hards, the hareal recoming so much sufficient departs the arriver
part of the sids, as to form a large triangular black parts, nearly
correcting the values with of the bana, and cartening half the
hards of the nature; the lateral margins, and a transverse patch
to the lass interrupted at the sature, reduces, there is a narrow
some one the disk, terminated ledow by the black patch, and extending to the parts, the usual practice state rules arrowing the
most extending to the parts, the usual practice state rules arrowing to

marked. Body beneath black. The four anterior legs yellow, the posterior fascous.

This beautiful insect approaches in its appearance to Hydaticus, but agrees with the present group in its structure. It may be distinguished by the curious dorsal patch, and the bright red transverse line at the base of the elyrra. In one of our specimens this line is divided into four distinct apost. It is a native of Rio

COLYMBETES (ILYBIUS), Steph. Ill. (M) 5, 394.

ILYBIUS, Erichs, Dutis, 34.

 (11.) C. Saulegii, Dufour MSS, in Collect. Dom. Hope.
 Ovatus, niger, Isevis, depressus, maculis 2 frontalibus rufis, thoracis angulis anticis elytrisque lineá apicali maculá laterali
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fuscis. (L. c. 3); lat. 2 lin.) Ovate, black, shining, smooth, depressed. Head with two

transverse red spots on the crown. Antennæ fuscous. Thorax transverse, very short, broadly emarginate in front; the angles prominent and acute; hinder margin nearly straight, the angles slightly prominent and acute; the anterior angles broadly castaneous. Scutellum black. Elytra ovate, black; a little beyond the middle, near the outer margin, there is a triangular castaneous spot, and within the apex another small round one, connected with the former by a slender castaneous line, which is continued beyond the apical spot, but interrupted by the suture; the usual punctate lines on the disk but faintly marked. Under side black, with a small red spot on each side of the segments of the abdomen. Legs fuscous, the hinder ones darker, Hab, Callao, The appearance of this insect is very similar to C. vitreus, but

et puncto apicis castancis, subtus niger, antennis pedibusque

it differs in shape, colour, and in the marks at the end of the elytra. It has the structure of Erichson's genus Hybins (as indeed has C. Grapii referred by Mr. Stephens to Agabas), namely, the unequal posterior claws by which it is at once separated from C. nitreus. I cannot let this opportunity pass without remarking the utter uselessness of these generic divisions, since, as sections, they separate insects so closely allied as C, vitreus and Saulcwii, 11. (12.) C. punctum, Bab,

Ovatus, niger, lævis, depressus, thoracis angulis anticis, ore, antennis lunulis 2 frontalibus pedibusque anticis rufescentibus,

elytris maculă parvă laterali oblongă fenestrată, subtus niger, pedibus posticis fuscis. (L. c. 4: lat. 24 lin.) Ovate black, very minutely reticulate-strigose. Head with two transverse usually confluent lunules on the crown, and the mouth and antennæ rufescent. Structure of the thorax as in the last, the anterior angles rufescent, and the posterior not prominent, and slightly rounded. Scutellum black. Elytra oyate, black: a little beyond the middle, near the outer margin, is a minute oblong fenestrated spot; the usual strice are formed of numerous

rufescent, the posterior pair fascous, Hab, Valparaiso.

12, (13.) C. magellanicus, Bab.

punctures, and are strongly marked. Body beneath black. Legs Ovatus, niger, subdepressus, elytris subcostatis macula parvà The Complete Work of Charles Darwin Online |

of Dutiscida Darwiniana. laterali oblongă fenestrată, subtus niger, antennis pedibusque fuseis. (L. c. 3; lat. 14 lin.)

A third part smaller than the preceding, ovate, black, very minutely reticulate-strigose. Head immaculate. Antennæ fuscous. Thorax much broader behind than in front, the hinder angles slightly acute. Scutellum black. Elytra oval, obscurely ribbed longitudinally, and having at a little beyond the middle, and near to the outer margin, a minute oblong fenestrated spot; the usual strice scarcely distinguishable, and very irregular. Body beneath black. Legs fuscous.

COPELATUS, Erichs. Dutis. 38.

13. (14.) C. elegans, Bab. Ovato-oblongus, rufo-fuscus, impunctatus, thorace longitudi-

naliter strigoso, elytris striis 10 ornatis, alternis abbreviatis, apicem acutum non attingentibus, corpore subtus antennis pedibusque rufo-fuscis. (L. c. 3; lat. 11 lin.)

Ovate-oblong, fuscous red, not punctured. Head short, transverse, with two minute fovese between the eyes. Thorax short, transverse, broadly emarginate in front; the angles acute and prominent; margins slightly rounded, broader behind; the margin nearly straight; the angles rectangular; the disk darker than the sides and head, covered with minute longitudinal strice, a row of which occupy the place of the usual series of punctures near to the anterior margin. Scutellum minute. Elytra oblong, acute, rufo-fuscous, the base paler, each with ten strong longitudinal strize, which do not extend to the apex, the second about half as

the length of the elytra. Body beneath and legs fuscous red. Hab. Rio de Janeiro.

Hypaticus, Leach. *

1. (15.) H. Havaniensis, Laporte.

Obovatus, testaceus, thorace antice posticeque nigro, elvtris nigro-irroratis maculă dorsaliă transversă nigră lateribus femoribus posticis testaceis maculă internă basali nigră; tibiis

nigro-fuscis, tarsis fuscis. (L. c. 5-53; lat. 22-31 lin.) H. Hayanicaris, Laporto, Etud. Ent. 96,

Obovate, testaceous above, impunetate. Crown of the head inclosing, by a wavy line, a bilobed testaceous spot. Antennae testaceous. Thorax transverse, short, the anterior angles prominent, acute, testaceous; on the anterior margin a uniformly broad black fascia, and on the posterior another, which is broader, it approaches the testaceous lateral margins. Scutellum black, Elytra ovate, thickly covered with rather large black dots, which become confluent at about the middle, and form a broad irregular transverse fascia, which is succeeded by a pale spot, variegated with black clouds and dots, and extending to the apex; on the disk are three rows of deep punctures. In the female the thorax and elytra are minutely strigose punctate. Body beneath black, several segments of the abdomen having a pale spot on each side. The four anterior legs testaceous, the posterior variegated, the femora testaceous, with a large black patch on the inner side, extending from the base to three-fourths of their length; tibiae black

or dark fuscous, tarsi fuscous.

This beautiful insect is a native of Rio de Janeiro, and Laporte has described it from specimens obtained in the island of Cuba.

Hyphidrus, Ill. Steph. 1, (16.) H. maculatus, Bab.

Ovatus, brevis, gibbus, fuscus, capite, thoracis lateribus elytrorumque maculis testaceis, subtus fuscus, antennis testaceis, pedibus fuscis. (L. c. 2; lat. 1½ lin.) Short, ovate, gibbous, the whole upper surface coarsely pune-

tate. Head testacous; in one specimen fuscous. Antennae testaceous. Therax transverse, similar to H. deaths, fuscous. Elytra ovate, much dilated near the middle, the apex rounded, flacous, except a bibloded pot at the base; the humeral angle, the anterior half of the lateral margin, a longitudinal abbreviated the arterior half of the lateral margin, a longitudinal abbreviated for the disk connected with a triangular transverse spot on the middle of the disk connected with a triangular transverse spot on the margin, and we would be a supported by the disk of the disk connected with a triangular spot connected with this late, and with each tree until triangular spots connected with this late, and with each

other within the apex, which are testaceous. Body beneath fuscous, coarsely punctured, very gibbous. Legs fuscous. This pretty little insect was obtained at St. Jago. Erichson and Brullé concur in describine the posterior tarsi of

Encourant and prosessed of two claws, which are said to be unequal, the upper one fixed, and the lower shorter and moveable.

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After a careful examination of several species, I must agree with Stephens in considering that there is only one claw, and that moveable, the apparent upper claw being only a long seta.

Hydroronus, Claire.

A. Thoracis lateribus rotundatis, elytrorum apice dentato.

1. (17.) II. Darwinii. Bab.

Oblongo-ovatus, subdepressus, punctatus, ferrugineus, vertice nigro, thorace maculis 2 fuscis lineisque 2 abbreviatis impressis, elytris nigris margine externo maculis 2 lateralibus

pressis, cytris ingris margine externo macuns 2 lateratious lineisque interrupiis flavis, corpore subtus pedibusque ferregineis. (Le. c. 3; lat. 1 lin.) Oblong-ovate, depressed, thickly punctured throughout. Head rounded, pale testaceous, narrowly black behind. Antennae tes-

tocoms, with the terminal joints riegal with black. Thorse pale tentacous, along traverues, boundly and deeply emergiant in front, the major series, the sales straight and parallel, except near no the america angles are when the same parallel produced in the sales, and the sales are sales and the sales and th

testaceous, the abdomen rather darker. Legs testaceous, the posterior pair darker.

Hab. King George's Sound, Australia.

2. (18.) H. undecimlineatus, Bab.

Oblongo-ovatus, subdepressus, punctatus, flavus, elytris sutură lineis 5 maculisque 2 lateralibus nigris, corpore subtus antennis pedibusque flavis. (L. c. 2; lat. 1 lin.) Oblong-ovate, depressed, thickly punctured throughout, Head

and thorax as in the last, except that the latter has two faint dark clouds upon its hinder margin alone, and the sides are uniformly rounded. Elyra broader than the thorax, ovate, the apex neutre, with a minute tooth upon each sold, yellow; with the suture, five regular lines upon each, two oblong spots between the first and second, and two spots (one angular, and at about the middle, the "O. The Corporalext World or ficharies Darguin Ordina."

Mr. C. C. Babington's Descriptions other oblong, and near the apex,) between the fifth and the lateral

margin, black; the space next to the suture and the second and fourth interstices the most regular, and of a brighter colour. Body beneath and legs yellow. B. Thoracis elytrorumque lateribus continuis, elytrorum apice non truncato.

3. (19.) H. obscurus, Bab. Oblongo-ovatus, opacus, minutissimè punctatus, supra et subtus fuscus, thorace, antennis pedibusque flavis. (L. c. 2; lat.

4. (20.) H. nitidus, Bab, Oblongo-ovatus, nitidus, grosse punctatus, supra et subtus fuscus; capite, thorace (medio excepto), antennis, pedibusque

Minute, oblong-ovate, shining, coarsely punctured, fuscous both

ā lin.)

Minute, oblong-ovate, opaque, fuscous both above and below,

viated impressed line on each side behind. Elytra ovate, fuscous,

Head large. Antennæ vellow. Thorax vellow, transverse, short, broadly emarginate in front, sides rounded, posterior margins

wavy, the disk slightly elevated transversely, and a deep abbre-

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flavis. (L. c. 2: lat. 4 lin.)

the base and suture darkest, the margins and apex reddish, very

minutely punctured, and slightly downy, an impressed line on

each side at the base in continuity with that on the thorax. Body

beneath slightly downy, fuscous, with the abdomen rather paler, Legs vellow.

above and below. Head and thorax similar to the last, vellow, the latter with a fuscous spot in the centre, and the lateral impressed lines sinuated, and nearly reaching to the anterior margin,

Elytra ovate, fuscous, coarsely punctured, with a paler patch upon each, caused by their transparency, and an impressed line upon

beneath fuscous. Legs and antennae yellow.

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Corpus clongatum, depressum. Caput oculis non prominulis, fronte lævi. Antennæ 11-articulatæ, infra oculos insertæ,

· Derivatio nominis, Hydroporus and pages, forms, The Complete Work of Charles Darwin Online

each side at the base in continuity with that on the thorax. Body

articulo primo elongato, 2do quam tertium paulo longiore,

reliqui inter a equalibia teria hervinibas obonicia, ultima funiforni acumiano. Lefurus pande emeginatum. Palmanilares acteria articula 1, 2 et 3 devonicis, saboqualbas, "teria pualo longiri ; to maximo, chegora, funiforni, turncato; p. ac. intera 2-articulas, articula choquita atenuatis, lima subclavara, decy lepatires. Barbas loba internolo dentiforni obtens. Palpi labuler articular lima et alto trangara, vatricone, turnonio. Sarfolio mere, clima, tringalpara. Pada 5 anteriores tarsis 4-articulais," postici tarsis 5-articunius unquiciospogo 2 exqualbas mobilios.

parts ungurentsque 2 acquantous monitous, [Pl. I. ig. 3-a, lubram; 3-b, mandible; 3-c, maills; 3-d, labium; 3-c, fore leg; 3-f, middle leg.] Differs from Hydroporus by the structure of the internal maxillary and labial nalisi, and by the presence of a scutellum.

1. (21.) H. parallela, Bab. (Pl. 1, fig. 3.) Oblonga, antice obtusa, postice acuminata, lateribus parallelis,

supra rufa, thorace antice et postice elytrisque (apice marginibusque exceptis) fuscis; corpore subtus, antennis, pedibusque fusco-rufis. (L. c. 2; lat. 2 lin.) Head short, transverse, rounded in front, with two longitudinal algibly impressed fovem between the eyes. Thorax transverse,

slightly impressed force between the eyes. Therex transverse, about, breadly companies in front; be emplex sears; harmled about, breadly companies in front; be emplex sears; harmled, about in the middle over the scartillur; disk smooth, with a transverse two of possersers in front, and a minute one bleadly and a similar one bleadly and a similar one bleadly asteries and posterier margins fanceus. Scottlium multi, tringeslar, transverse, faccous. Eptra of the sum within a the threat, about, the sides parallel for three fourths of their length, then disk constrainty purctices; with unce cutart ow of more regular punctures upon each; fiscous, with the exception of the spex and everyal surgices, which are refusion. Body beauth, leg and and and everyal surgices, which are refusion. Body beauth, leg and and and everyal surgices, which are refusion. Body beauth, leg and and and everyal surgices, which are refusion. Body beauth, leg and and and everyal surgices, which are refusion. Body beauth, leg and and and everyal surgices, which are refusion. Body beauth, leg and and

ntennæ, dull rufous. Hab. Rio de Janeiro.

Anodochellus, Bab.+

Corpus ovatum, depressum. Caput fronte antice carina trans
• [It appears to me that the tarni of this genus are 6-jointed, a minute nodese

It appears to me that the tarsi of this geaus are 5-jointed, a minute nodes
joint being placed at the base of the long terminal joint.—J. O. W.]
 Derivatio nominis, a non, shor dens, gates marge.
 The Commilete Work of Charles Danvin Online.

Mr. C. C. Babington's Descriptions versali semicirculari terminată, oculis parum prominulis,

Antennæ breves, 11-articulatæ, infra oculos insertæ; articulis 2 primis crassioribus, elongatis; 3tio elongato, attenuato, obconico; 4to brevi, transverso; 5to-10mo crassiusculis, moniliformibus, terminali longissimo, acuminato. Palpi mazillares externi articulis 2 primis brevibus transversis; 3tio longiori, obconico, ultimo maximo, elongato, fusiformi, oblique truncato: p. m interni 2-articulati, articulis elongatis attenuatis, 1mo evlindrico, 2do subulato. Mentum lobo intermedio nullo, lobis lateralibus rotundatis, Palvi labiales articulis 1, 2 et 3 brevibus transversis, 4to maximo, ventricoso, oblique truncato vel emarginato. Scutellum inconspicuum. Tarsi omnes 5-articulati, unguiculis 2 æqualibus, [Pl. I. fig. 4 e, mandible; 4 b, maxilla; 4 c, labium.]

Differs from Hydroporus by the structure of its maxillary and labial pulpi, and by the want of a tooth in the centre of its mentum. 1, (22.) A. maculatus, Bab. (Pl. 1, fig. 4.)

Late ovatus, flavus, elytris fuscis, maculis 2 transversis apiceque flavis, grosse punctato-striatis, costatis; subtus fuscus, grosse punctatus, antennis pedibusque flavis. (L. c. 2; lat.

3 lin.) Broadly ovate, vellow, flat above. Head smooth, broad, rounded in front. Thorax smooth, broadly emarginate in front; the angles acute; sides rounded, particularly towards the front, sinuated behind with a transverse impression; disk transversely elevated, and a large tubercular elevation on each side behind. Scutellum wanting. Elytra broad, flat, with numerous lines of very coarse

punctures; the suture slightly elevated, and an elevated costa on the disk, in continuity with the tubercle on the thorax; fuscous, with the external margin, two transverse patches, and the apex, vellow. Body beneath fuscous, very coarsely punctured, gibbous, Legs and antennæ vellow.

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Дезморасивіа, Вар.*

Corpus subglobosum. Caput fronte antice carina semicirculari articulatae, infra oculos insertæ, articulis 3 basalibus elongatis, 1mo obconico, 2do elliptico crassissimo, 3tio attenuato clavato, 4to minimo transverso, 5to paululum quarto majori

* Derivatio nominia, durpie; catena, waxve crassus, anper apez.

of Dytiscida Darwiniana. 17
transverso, 6to—10mo transversis quinto majoribus, ultimo
subulato 2 praeedentium longitudieme subequante. Palpi
ssazillares extersi articulis 1, 2 et 3 breviusculis, transversis,
obconicis; 140 maximo, clongato, ventricoso, apice attenuato 1

p. ss. istersi subulati attenuati, articulo primo elongato subcylindrico, 2do dimidio breviori. Matusu lobo intermedio dentiforni minuto acuto, lobis lateralibus subzoutis. Palpi labiales articulis 1, 2 et 3, brevibus transversis, 4 to maximo ovato obtuso. Scutellam inconspicuum. Pedes abbreviati, tavis patrici fastriinlatis.

ovato obtuso. Scatellum inconspicuum. Pedes abbreviati, tarsis posticis 4-articulatis.

[Pl. 1, δg a, mandible; $\delta \delta$, maxilla; δc , labium; δd , antenna; δc , feee g; δf , hind leg.]

Closely allied in appearance to Hygrotus, Steph., but distinguished by the structure of its antenna and palpi.

(23.) D. nitida, Bab. (Pl. 1, fig. 5.)
 Rotundato-ovata, fusco-flava, elytris obscurioribus, antennis pedibusque flavis. (L. c. 3; lat. 1 lin.)

pennasque navis. (L. C. 2; nat. 3 nn.)

Between orbicular and ovate, dusky yellow, convex above, smooth and shining. Head smooth. Thorax transverse, short, broadly emarginate in front; sides rounded, hinder margin sinuated, disk panetured. Seatellum wanting. Elytra cordate, pointed,

unsk punctured. Body beneath dusky yellow, the breast darker. Legs and antennae yellow. Hab. Rio de Janeiro.

