(From the MAGAZINE OF NATURAL HISTORY, New Series, 1840, p. 354.)

Descriptions of some new species of Carabideous Insects, from the collection made by C. Darwin, Esq., in the Southern parts of S. Sweeten, By G. R. Waynenger, Esq., Cornto and Assistant

Secretary to the Zoological Society. THE insects I am about to describe belong to that great group of Carabidæ to which Dejean applies the name Feroniens, and to a section of that group, the species of which are disand to a section of that group, the species of which are distheray from the body,—giving to them a superficial resemblance to the Scarifide. This constricted portion between the thorax and abdomen is formed above by a produced portion of the elgira, which become suddenly narrow in front, drical neck, which apparently serves to give greater freedom of motion to the fore part of the insect. Broscus cephalotes affords an example of this group in which Miscodera, Stomis, Cnemacanthus' of Gray (which is the Promecoderus of Desean), and Baripus, may also be included. These insects are most of them remarkable for the convex form of the thorax and eletra, the want of produced posterior angles to the latter, which is usually almost destitute of posterior forces, and dilated lateral margins—the dorsal channel moreover is generally very indistinct. In these respects the present group

of insects affords a strong contrast to the more typical Forses, if we may repart the species belonging to the genera. Peresticious and Omaseus as such. In addition to the several genera (allied as it appears to me to Horseau) already mentioned, we are indebted to Mr. Curris tie for the knowledge of three others possessing the same essential characters. I allude to the genera Odentoverka, Curris in Curris in the Curris

The genus Adontoscelis, Curtis, is founded upon an insect brought by Capt. King from Valparaiso,—an insect his I have observed in many of our collections. In the "Histoire Naturelle des Insectes" by MM. Audouin and Brallè's, ascond species of the same genus is described and figured as an

Consecution gibbons of Gray appears to me the same as the Pennanderous Possitioneries of Designs, which is from Yan Dieman's Land, and parhaps some other parts of Australasia, and set from Africa as has been stated. The general Consecutional of Guelrian all Builb being synonymous with Mr. Curtis' grous Collessorskis, the species of which are from South America, must not be confunded with Consecutions of Gray.

* Tome iv. bis 2nd part, page 376, plate 15, fig. 4.

illustration of Mr. Gray's genus Cuemacouthus, whilst in the same work will be found a true species of Cnemacanthus described and figured under the name Promecoderus Lottini. M. Guerin-Méneville, in the 'Magasin de Zoologie,'s also figures and describes certain species of Odontoscelis under the name of Cnemacanthus, but this author perceives that the species of Cnemacanthus of the French authors differ in certain respects from the type of the genus figured in Griffiths' prolonged externally; he states however that a small species which is found in Peru has not this external prolongation of the tibia, "et vient par conséquent se ranger exactement à côté du type de M. Gray. Nous ne pensons pas que cette légère différence soit suffisante pour motiver l'établissement d'un nouveau genre ; nous nous en servirons nour diviser les Cnémacanthes en deux sections, ainsi qu'il suit." The author then proposes to distinguish those species which have the anterior tibie produced externally, by the name of Cnemalobus, retaining Cnemacanthus for Mr. Gray's species, and

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Australia and South America; it is highly desirable therefore
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¹ Id. page 450, plate 18, fig. 4.

³ Année 1838, liv. 2, pp. 9—13, plates 226 and 227.

⁴ This author places his germs Prosecoderss (which, as before stated, is synonymous with Coeracontelus of Gray) in his section *Harpalinas.

Genus.—Opontoscells, Curtis. Cnemacanthus, Audouin and Brullé. Cnemacanthus (sub-genus Cnemalobus) Guerin-Ménoville.

Sp. 1. Odon. Tentyrioides, Curtis, Linn. Trans. vol. xviii. part 2, page 187, plate 15, fig. D.

Cerescenthus elecures (7), Brullé, Hist. Nat. des Insectes, tome iv. (bis), 2de livraisco, page 377.

Two specimens agreeing in all respects (excepting in having a blueish tint on the under side of the body and lego) with Mr. Curtis's description, are in the collection of Mr. Darwin; they are from Valparaiso, the same locality as that given by Mr. Curtis.

Cocossomthus cyuneus, Brullé, as above, page 376

Much larger than the last and of a blue colour: its length is 10 lines (French measure), whilst Odon. Tentyrioïdes is about 8 lines. Inhabits Chili.

Sp. 3. Odon. Desmarestii.

Sp. 2. Odon, cuaneus

Chemaconthus (Cuemalobus) Denmarestii, Guerin-Méneville, Magasin de Zoelogie, Année 1838, livraisca 2me, page 9, plate 226 of class ix.

A very large species, from 26 to 30 'millemètree' in length. It is black above, tinted with green on the margins of the thorax and elytra. Inhabits Cordova.

These are all the species of Odontoxocilis which I can find described; in the collection of Mr. Darwin there are four others, the characters of which I shall proceed to point out.

Sp. 4. Odon. Darwinii. Suppl. Plate xix. fig. 1.

Odon. Intus, suprà lavris, mitidè viridis; pedibus corpereque subtits violacro-nigris; antennis, mandibalis, palpis, tanisque piece colore obscuré tiactis.

This species is from 10½ to 11½ lines in length, and from

4½ to 4½ lines in width. The upper parts of head, thorax, and abdomes are of a brilliant blue-green colour, the under parts are black, and the legs, antennes, mandibles and palightar parts plately a slight blueish that is observable in certain lights on the under parts of the body, and on the under aids of the prothorax three is a faint green has: a few long

bairs spring from the sides of the thorax and elytra, and also from the fore part of the head and above the eves. The thorax is rather narrower than the elytra; its upper surface is convex, the sides are rounded, and so are the posterior angles, the hinder margin is slightly indented in the middle and near the posterior angles: the breadth of the thorax is about one third greater than its length; the dorsal channel is very indistinct, and there is a faint, posterior, transverse depression; along the outer margins are seven or eight large punctures. The scutellum is large and almost semicircular. elytra are very convex and almost smooth; their length is less than one third greater than their breadth; on each elytrow is a row of punctures, which commences at the shoulder, and ends nearly at the apex of the eletres; excepting near the shoulder (where the punctures are close to the outer mar-gin) this row runs parallel with and at a short distance from the outer margin of the electron, and on the margin itself a second row of punctures is observable; these are rather widely separated, and each puncture gives root to a long hair; a few punctures, also giving root to long hairs, are also observable on the shoulder, and again towards the apex of the elytra; these are situated above the first-described row .-There are no strie on the elutra. On each of the abdominal segments is a transverse row of punctures, each having a hair like those on the outer margins of the eletra. The legs are rather densely clothed with short bristly hairs, especially on the tibie of the posterior and middle pair : on the outer margin of the anterior tibia there are no hairs; these tibia are much dilated at the apex, and the outer portion is produced and pointed; in the male it terminates nearly in a line with the apex of the basal joint of the tarsus, whilst in the female, where it is larger, it terminates opposite (or nearly so) to the observable on the under side of all the femora. Length of thorax in the female very nearly 3 lines; width of ditto 44 lines : length of elutra 64 lines : width of ditto 44 lines in the female.

the female.

This species was obtained by Mr. Darwin at Bahia Blanca,
North Patagonia.

orth Patagonia. Sp. 5. Odon. Curtisii.

Odss. latissimus, suprà lavis, nigre; subtis violacco-niger; antennis, mandibilis, palpis, pedibisaque picco-nigris; thence clytrique apad marginen subunstillor educaritius, illo subtiridi, his colore parpurascente. This species is about equal in size to the last; and, like

that, has a row of widely separated punctures near the lateral

margins of the thorax; the punctures on the sides of the elytra, segments of the abdomen and femora, are the same; it differs however in being rather shorter, broader, rather less convex, and in having the upper parts of the body black and almost destitute of gloss. The thorax is rather convex, much broader than long, and could in width to the elstra, or very nearly so: the sides and posterior angles are rounded, and the dorsal channel very indistinct; behind is a slight transverse indentation on either side, and extending nearly to the mesial line. Elstra rather convex, about one fourth longer than broad; smooth. Legs pitch-coloured; antenna, palpi, and tarzi pitchy red. In one female there is a transverse row of punctures on the apical portion of the last segment of the observable. A very indistinct greenish tint is observable near the margins of the thorax and outer margin of the elytra, and there is a faint blue tint on the under parts of the insect.-Total length, 11 lines; length of thorax 3 lines; width of ditto 44 lines; length of elutra 61 lines; width of ditto 42 lines. The specimens described are females.

Brought from Port Desire, Patagonia, by Mr. Darwin.

Sp. 6. Odon. striatus.

Odon, mediocritèr latus, niger, subtùs levitèr caruleo-viridi tinctus; elytris distincte striatis; striis hand punctatis, interspatiis rankulum convexis; elytris ad marginem externum aliquantò violaceis.

Much less than either of the preceding, but larger than Zabrus obesus. General colour black, the under parts of the body (especially the thorax) tinted with greenish; sides of clutra and thorax tinted with purple or greenish. Thorax convex, about equal in width to the elutra, broader than long; the sides and posterior angles much rounded, the anterior portion emarginated; dorsal channel indistinct; posterior transverse depression scarcely visible. Elytra convex, their breadth about equal to two thirds of their length; distinctly striated, the strie impunctate, and the interspaces convex. On the lateral margins of the thorax are six or seven large punctures, and close to the outer margin of the elytra is a longitudinal series of punctures; besides these there are two or three larger punctures near the apex of the elutra: a few large nunctures are observable on the under side of the prothorax, and on each of the abdominal segments is a transverse row of punctures; these punctures however are not found on and near the mesial line; at the anex of the last segment there are from two to four punctures, on either side,

and placed in a line; numerous hairs, springing from the

6 NEW SPECIES OF CARABIDEOUS INSECTS.
punctures, are observable on the sides of the thorax and elytra. Length, 8½ lines; width, 3½ lines.

In one of Mr. Darwin's specimens the strike of the elgtra are rather less distinct than in two others from which the above description is drawn up, and the interstices are flat on the fore portion of the elgtra; —it is moreover of a smaller size, being only 7½ lines in length.

size, being only 7½ lines in length.

Mr. Darwin found this species on a sandy plain at Bahia Blanca, N. Patagonia.

Sp. 7. Odon. subitriatus.

Odos. ster. cersore breviusculo. convexo: elviris substriatis, striis indis-

tinctis, interspectiis lesiter convexis.

Thouse rather narrower than the elgen, convex; the sides counded, posterior angles also rounded, but very slightly prominent; dorsal channel indistinct; excret valy rates of engals to more than two thirds of the length; faintly striated, the interspaces slightly concave. Colour dail black; under the parts with a black into. The posterior of the sides of the results of the contraction of the sides of the contract of the sides of the sides

ceding, it is proportionately shower than Odion. Tentypicales, there is less space between the thorax and adolemen, and it is moreover distinguished by its striated elgtra. Odion. Tentypicaldes is smooth, or very nearly so; Odion, untertaints is rather delicately striated, and Odion, strictures is distinctly striated. Odion. advirtaints is also intermediate in from between the other two species mentioned, being shorter and rather which it is moreover differs in belief marrower.

Genus.— Cardiophthalmus, Curtis. Closely allied, as it appears to me, to Odontoscelis, is the

genus above named,— a genus (with to long a name) extra blished by Mr. Curtis, upon an insect brought from Pert Famine by Capt. King.; I had long since determined to found a genus upon two species of Carabides forming part of a collection placed in my hands for description by Mr. Darwin; I but upon studying Mr. Curtis's namer. I found that they nossessed all the essential characters of his gonns Cardionhthal. mus. The chief differences between the insects of this genus and those of Odontoscelia, consist in the central tooth of the mentum being hifid: the less and autenne much longer: the at their apex, and the proportionately narrower thorax, combined with the short, ovate and convex form of the body --The anterior tibie are somewhat suddenly dilated at the anex (in the two species before me), and the external portion is slightly produced. The anterior femora in the species described by Mr. Curtis, is furnished with three or four small angular projections on the under side and near the base. I find the same character in one of the specimens before me, but in two other specimens (one of which is decidedly the same species as the first) there is merely a slight unevenness on that part of the fewur, - possible therefore it may be a is no difference—they are all slender, and destitute of velvetlike pads or membranous appendages beneath.

Sp. 1. Card. Clicinoides, Curtis, Linn. Trans. xviii. part 2 page 185, plate xv. fig. C.

Sp. 2. Card. longitarsis. Suppl. Plate xix. fig. 2.

Cord. altilib nierz. checuri viridi tinetus: themen, elvtrisque convenis:

clytris lavrissimė stratas. Thorax clytris angustior, lateribus retundatis sie et marginibus, at leviter, posticė aliquantė atternatus; sulco dorsali obscurissimo et post hune nota transversa insculptus. Elytra ad marginem externum seriatim action de la company assertas and company alitimis altimismos externum seriatim

spaces between the strice of the clutra a few widely separated

punctures are observable, but these are confined to the anical portion of the elytra; moreover, with a tolerably strong lens some indistinct punctures may be perceived in the striw; a series of rather widely separated punctures runs along the outer margins of the clytra, and on the apical portion are many subconfluent nunctures. On the under side of each of the femora is a row of punctures; the terminal segment of the abdomen is margined with punctures, and there are two punctures on each of the abdominal segments, one on either side of and at some little distance from, the mesial line. The posterior, tarvi are considerably longer than the tibia; each of the tibia is furnished at the apex with two very long spines. The antenna are slender, and, if extended backwards, would

reach beyond the hinder margin of the thorax.

This species is considerably larger than the Card. Clivinoides; it is of a broader form, and its legs and antenna are longer, as well as the spines with which the former are fur-

Sp. 2. Card. Stenkensii.

Cord. nitidé violaceo-niger; thorace convexo, attenuato, et posticé transversim insculpto; corpore brevi, valdé convexo; elytris lavissime striatis, striis vix apparenter punctatis; interspatiis aliquanto convexis.

This species is much smaller than the last, and may moreover he distinguished from that and Mr. Curtis's species by the very convex, short, and almost rounded form of the body : its legs are shorter than in Card. longitarsis, and the posterior tars and tibie are equal in length. The therax is short, convex, attenuated behind, and has the sides and posterior angles rounded; the dorsal channel is very indistinct; and there is a transverse depression near the posterior margin; the elstra are very convex, ovate, faintly striated, and the interstices are slightly convex : the strice are indistinctly punctured, excepting on the spical portion of the elutra. where the punctures are distinct: some punctures are observ-able on the outer margin of each elytron and on the posterior margin of the anical segment of the abdomen; there are also two punctures on each of the other segments of the abdomen. as in Card, longitarsis,

Total length, 81 lines; length of thorax 21 lines; width of ditto, 24 lines; length of elytra, 5 lines; width of ditto, 34

I have named this species in honour of the author of 'Il-lustrations of British Entomology,' to whom I am indebted for much information and kindness.

