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## LXIX. -Some new and old Genera of S.-American Aviculariidæ

R. I. Pocock

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## LXIX.-Some new and old Genera of S.-A merican A vicularidec. By R. I. Pocock.

I mave elsewhere shown, in the works cited below, that the most satisfactory basis for a phylogenetic elassification of the spiders referred by Simon to the $A$ viculariine is furnished by the stridulating-organs, or rather hairy structures that aro found between the base of the mandible and palp or palp and first leg. By their structure, in conjunction with other fentures, the spiders in question fall into a series of natural groups*, each of which, with the exception of the last, is confined to a definite geographical area.

The following list shows the distribution of these subfamilies and the genera they contain:-

1. Ormithoctonines: Cyriopagopus, Sim. ( $=$ Omothymus, Thor.) ; Melopocus, Poc.; (Urnithoctonus, Poc.; Citharognathus, Poc. ; and Phormingochilus, Poc. ( $?=$ Lampropelma, Sim., or ILaplopelma, Sim.).
Distribution. Burma and Siam, Celebes and Inamahera.
2. Hampactumis: Marpactira, Auss.; Peerinochilus, Poc.; Ceratogyrus, Poc.; and Eucratoscelus, Poc.
Distribution. East and South Africa from Somaliland to Cape Colony.

For the characters of these genera see Proc. Zool. Soc. 1897, p. 745, and 1898, p. 500.
3. Thmigmorana: Haploclastus, Sim., and Thriymopcus, Poc.
Distribution. S. India.
For tabulation of the claracters see ' Fauna of British India,' Arachnida, p. 184 (1900).
4. Selenocosmindi: Pocilotheria, Sim.; Chilobrachys, Karsch (=Musagetes, Poc.) ; Selenocosmia, duss. ( $=$ Phlogius, Sim.); Lyrognathus, loc.; Phlogiellus, Poc.; Coremiocnenis, Sim.; Selenotypus, Poc.; and probably Orphnccus, Sim.
Distribution. Oriental Region (India to Australin).
For tabulation of chancters of these genera see Am. ©

[^0]Mag. Nat. Hist. (6) xv. pp. 169-170 (1895), and ' Fauma of British India,' Arachnida, p. 187 (1900).
5. Eumenopionines: Loxomphalic, Sim.; IIysterocrates, Sim. ( $=$ IIysterocrates + Phoncyusa, Sim. (not Phoneyusa, Karsch) + Lycotharses, 'Whor.) ; Phoneyusa, Karsch ( $=$ almost certainly P'elinobius, Karseh) ; Eumenophorus, 1'oc.; Citharischius, Poc.; Monocentropus, Poc.; Anoploscelus, Poc.
Distribution. 'Tropical Africa from Sierra Leone and the Congo in the west to Abyssinia and the Zambesi in the east.

For the synonymy and characters of these genera see Proc. Zool. Soc. 1897, pp. 758-773, and 1899, pp. 841-845; Ann. \& Mag. Nat. Hist. (6) xv. p. 167, and (7) vi. pp. 489-404.
6. Theraphosina: containing a large number of genera, principally confined to America, south of, and including, the Sonornn area, with a few outlying forms in the Mediterranean, Indian, and 'lropical African Regions.
'Ihis subfamily will probably prove to be capable of fincr subdivision. At present it contains a very heterugeneous assemblage of genera, many of which are based upon differences in the size or position of the eyes, the divisional line of bristles on the tarsi, or other unsatisfactory characters. In the following pages I havo made use of ccrtain new features, namely, the mature of the hairs clothing the surfaces lying between the palpi and the legs of the first pair which are constant in both sexes, and for the males the method of folding of the protarsus of the first leg with refercuce to the tibinal spurs.

By these characters I find that the so-called genus Lasiodora is divisible into several distinct genera, and that under Eurgpelma have been included species belonging to widely divergent gencra. The name Eurypelma was affixed by Simon in 1892 to the species erroneously described by Koch as avicularia, Limn., and aftorwards named rubropilosum by Ausserce. I am not aware whether this species is known to Simon; it is unknown to me: nor do I know that Ausserer's specimens were specifically identical with those described by Koch. Koch, however, speaks of the first leg of the male as being furnished on the tibia " mit einem dicken, hakenförmig cinwärts gekrünmiten borstigen Sporn"-a feature which is characteristic of divicularia or perhaps Acanthoscurria, but not of Eurypelna ns recognized by Aussercr in 1871 and Simon in 1892. In 1864, howover, Simon cvidently intended to restrict the name Eurypelma to a scetion
including the species subsequently referred by him to divicularia and Tapinauchenius. In view, then, of the obscurity in which Eurypelna is wrapped, I have ignored it altogethor in the following pages as a "genus ignotum," at all events for the time being.

Several other genera of the group are minkown to me, c. g. Planadecta, Rhechostica, Grammostola, and Agathostala. The latter, however, is certainly nearly allied to Homaomma, Auss. (nec Homcommat, Sim.) ; and both Homoomma, Sim., and Grammostola, Sim., are possibly identical with the genus I have described as Citharoscelus (Ann. \& Mag. Nat. Hist. (7) iii. p. 347, 1890). It is hoped that the types of these genera will be re-examined with reference to the hairy clothing of the base of the legs and palpi, so that they may be established on a securer basis.

## Part I.-The Genera of the Section "I'hernphosea?" of Simon.

Simon's table of the genera of this section is satisfactory only so far as the male characters are concerned. He admits five genera: Acanthoscurria, Theraphosia*, Sericopelma, Xenesthis, and Lasiodora. In my opinion the differences between Theraphosia and Sericopelma are only of specific importance, whereas the species assigned to Lasiodora represent four distinct genera. To these I have to add the new genus Lupalestrus, which is, however, merely includod here on account of the scopulation of the femur of the fourth leg. It differs from all the known South-dmerican genera in the form of its posterior legs. Until the male comes to hand there is no prospect of locating the genus more accurately.

The males alone may be classified mainly by the structure of the first legs as follows:-

```
a. Tibia of cirst leg
Mhcraphusiu.
b. 'libia of tirst lerr with ono or two spurs.
    a'. 'libia of first leg. with one spur on tho imuer
    side; n spur on tibia of palp ............... Acanthoseurria.
    b'. Tibia of tirat leg with two spurs, a larger
        inferior and a emaller superior; no spur on
        tibia of paly.
        n'. Protarsus of tirst le% closing on the outer
                side of the lower epur.
            a}\mp@subsup{a}{}{2}\mathrm{ . A stridulating-organ betwecu the basu of
                the palpus and lirst leg ................ Ihormictupus.
            b}\mp@subsup{}{}{3}\mathrm{ . No stridulating-organ in this pusition. . . . Mcyaphobcma.
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[^1]The females may be analyzed as follows:-
a. Fourth leg much thicker and stronger thnn tirst, the tibia as thick ns the fenur; the tibia and protarsus strongly hirsute, the latter conrex above at the base
b. Fourth leg not thicker than first, the tibin much
thinner than the fenur; protarsus slender, cylindrical.
$\boldsymbol{a}^{\text {L }}$ A stridulnting-organ, consisting of clavate plumose bristles, between the brsal sefmeuts of the palpus and of the first leo.
$a^{2}$. A cluster of stridulating-bristles upon the trochanters of the palpus and first lef. $a^{3}$. No stridulating-bristles upon the cose of $b^{2}$. Stridulnting-bristles upon the coxe of tie.
palp nud first leg ........................
$b^{2}$. The stridulating-organ consisting of a cluster
of clavate bristles nbove the suture of the comn of the first lerg and of spincs upon the ndjacent area on the coms of the palyus, none upon the trochanters ............... Insiodora.
b. No stridulating-bristles present between the bases of the first leir and palpus.
$a^{4}$. 1'rotarsus of fourth leg scopulate to base .. Nemesthis.
$L^{4}$. Protarsus of fourth legro scopulate nt its distal end.
$n^{3}$. Fenur of third leg enormously swollen;

Gemis Acanthoscurmia, Ausserer, emend.
Acanthoscurria, Auss. Verh. z.-b. Wien, xxi. p. 205 (1871); Simon, Hist. Nint. Araipn i. p. 157 (1892).
Acanthopalpus, Aluss. Verh. z.-b. Wieu, xxi. p. 207 (1871).
Cullyntropus, Auss. Verh. z.-b. Wien, xxv. p. 181 (1875).
In this genus there is a stridulating-organ consisting of
many, sonctimes clavate, sometimes attonuate, stout plumose bristles upon the posterior sido of the trochanter of the palp, and a corresponding cluster of plumose, mostly attenuate spines, internixed with one or two simple spines, on the anterior surface of the trochanter of the first leg.

The discovery of these organs enables the females of this genus to be classificd. Previously the genus wns recognizable mainly from the characters of the male sex.

I have added the name Callyntropus to the synonymy of Acanthoscurria on the supposition that the former is based upon specimens in Kcyserling's collection which Ausserer determined as Callyntropus converus, C. Koch, convexus bcing cited as the typical species of Callyntropus. There is, however, no evidence beyond Aussercr's opinion, of which the value is more than doubtful, that this specimen is cospecific with Eurypelma convexa, C. Koch. Nevertheless, I presume that the genus must rest upon the species rcpresented by the specimens examined and diagnosed by Ausserer. As I have already pointed out (Aun. \& Mag. Nat. Hist. (6) xv. p. 226, 1895), the division of the tarsal scopula in Callyntropus is nothing but a sign of immaturity.

> Genus Lasiodors, Koch, emend.
> (= Lasiodora, Koch, Ausscrer, and Siwon in part.)

This genus, as recognized by Ausserer and Simon, I find to be capable of severance into four distinct genera : Lasiodora (sensu stricto, type L. Klugii), Pamphobeteus, nov. (type L. nigricolor, Auss.), Megaphobema, nov. (type L. robustum, Auss.), and Phormictopus, nov. (type L. cancerides, Latr., $=$ Erichsonii, Koch).

Out of the crowd of species'referred by Koch to Lasiodora, Simon has selected L. K'lugii as the type. Sipecimens of this species in the British Museum from Brazil (Iguarassu, São Paulo, \&c.) and from Recife and Cabo in the Argentine have plumose stridulating-bristles upon the cosa of the palp and of the first leg as in Citharoscelus.

The stridulating-organ consists of a cluster of a dozen or more stont, mostly acuminate, plumose spines above the suture on the coxa of the first leg, and of some spinules rising from amongst plumose hairs upon the posterior side of the coxa of the palp. 'The cosa, trochanter, and fernur of palp are scopulate behind, those of the first leg scopulate in front; the femur of the sccond leg is also scopulate in front, those of the third and fourth scopulate behind.
The protarsus of the first leg in the male closes against
the apex of the lower spur on the tibia, without touching the upper spur.

The different distribution of $L$. Klugii as compared with the other species hitherto referred to Lasiodora is to be borne in mind.

## Genus Phormictopus, nov.

Resembling Acanthoscurria in the presence, position, and structure of its stridulating-bristles upon the trochanter of the palp and first leg; but with an additional cluster of clavate plumose bristles above the suture on the coxa of the first leg and in a corresponding position upon the posterior side of the coxa of the palp; also like that genus in the hairiness of the summit of the rostrum, and other structural characters, except that in the male there are two normal tibial spurs on the first leg and no spurs on the tibia of the palp.

The two species I refer to this genus were included by Aussercr in Lasiodora of Koch, and both fall into that genus as diagnosed by Simon; but they differ from all the other species in having the stridulating-bristles on the trochanter of the palp and first leg. They further differ from Lasiodora (sensu stricto), and from that section that I call Pamphobeteus, in that the protarsus of the first leg in the male closes on the outer side of the lower tibial spur-a feature in which they agree with the one known species of Megaphobema.

The type of this genus is the species represented in tho British Nuscum by specimens from Haiti, identified as Mygale cancerides, Latreille *, which I believe to be tho oldest name for the spider called Eurypelna Erichsonii by Koch.

Lasiodora cauta, Auss., also falls into this genus.

## Genus Pamphoneteus, nov.

Differing from Lasioclora, as typified by L. Klugii, in haviug no stridulating-bristles on the anterior side of the coxa of the first leg and on the posterior side of the coxa of the palp and no scopula on the inner side of the femur of the first leg.

Protarsus of first leg in male closing between the tibial spurs, thus coming into contact with the inner side of the lower spur and the outer side of the upper spur. Femur of third leg not thickened ; patella + tibia of fourth only slighthly longer than of first, which, at least in the female, falls short

[^2]of the fourth by only about the length of the tarsus of the latter.
'T'ype Pamphobeleus nigricolor, Auss. (sub Lasiodora). Mab. Colombia, Ecundor, and Bolivia.

## Genus Megarhorfma, nov.

Differing from Pamphobeteus in that the protarsus of the first leg in the male closes on the outer side of the lower tibial spur without coming into contact with the upper spur. Moreover, in both sexes the femur of the third leg is much swollen and the third and fourth legs are longer and stronger as compared with the first and second, the patella + tibia of fourth being much longer than of first, and the lattor falls short of the length of the fourth by the tarsus and ncarly half the protarsus in the female.
Type Megaphobema robustum (Auss.) (sub Lasiodora).
Hab. Llanos, Sta. Fé de Bogotí.
Genus Xenesthis, Simon.
Nenesthu, Simon, Act. Soc. Lidn. Bord. 1892, p. 332; Hist. Nat. Araign. i. p. 100 (1892).
As in Pamphobeteuis and Megaphobema, this genus has no stridulating-organs at the base of the palpus and first leg. The protarsus of the first leg in the male passes when closed between the two tibial spurs as in Pamphobeteus, and, as in the two genera just mentioned, the femur of the fourth leg is covered with a scopula on its imuer side. Distinctive of the genus is the scopulation of the protarsus of third and fourth legs right up to the base.

Type Xenesthis immanis, Auss. (=colombiana, Simon).
Genus Eupalastrus, nov.
Differing from the rest of the genera of this scction in the form of the fourth leg, which is considerably longer than the first and thicker, the tibia being as thick as the femur, only a little more than twice as long as thick, and, like the protarsus, studded with stiff erect bristles; the protarsus is convexly elevated at the base, as high as wide, and about three times as long as high.

T'ibix and protarsi of first and sccond legs spined apically beneath, the tibia with one submedian spine on the inner side; tibliz and protarsi of third and fourth with many spines; protarsus of third with its distal half scopulate, of fourth scopulate only on the distal fifth of its length. First leg
with the anterior side of its coxn thickly clothed with sete, that of the trochanter and femur scantily scopulate; trochanter of palpus lightly scopulate behind. Thoracic fovea transverse, as wide as the ocular tubercle, which is ouc-fourth wider than long; eyes of anterior line moderately procurved, the posterior cdge of the laterals about on a level with the centre of the medians, which are in front of the middle of the ocular area, rather larger in area than the laterals, and less than a dinueter apart in a dried specimen, Labium and adjacent area of maxille thickly cuspulate. Sternum with marginal sigilla.

Type Eupalestrus pugilator, sp. n.
Eupalastrus pugilator, sp. n.
if (dry, somewhat faded).-Dorsal integument covered with mousc-brown hairs, darker beneath, a narrow rim of pale hairs at the distal end of the leg-segments.

Carapace about one-fourth longer than wide, moderately elevated in front; a little longer than patella + tibia of fourth or of first leg, the width equal to those of the second leg, the length equal to protarsus + tarsus of fourth; length from fovea to anterior border equal to protarsus of fourth.

Measurements in millimetres.-Total length 50 ; length of carapace 22 , width 17.5 ; length of first leg 52 , scoond 46 , third 44 , fourth 58 ; patella + tibia of first 19.5 , of fourth 22 ; width of tibia of fourth 5 , length $12 \cdot 5$; height of protrisus 4-2, length 14.

Loc.? Very likely S. America.

## Part II.-The Genera of the Section Avicularica.

The S.-American genera referable to Simon's Aviculariexe * may be tabulated thus:-
a. A stridulating-organ of clarate bristles differeatinted from the oral fringe on tho anterior side of the cosa of the palp; posterior side of cosa of palp at its distal end and of trochanter and bise of fenur scopulate; anterior side of coma of first leo thickly Lairy, of trochanter scopulate; two tibial spurs in male .............................. Psalmapacus, l'oc.
b. No stridulator on anterior side of coxa of palp.
a'. Posterior side of trochanter nad of coxa of palp at its distal end and anterior side of trochanter of first lefr scopulate. Male unbnown; eyes os in Tapinauchenius........... . Ephebopus $\dagger$.

- To this section nay also bo referred the West-African Eenera Scodra, Becher (=Stromatopelna, Korsch, and Myaruchue, Thor.), and Heteroscodra, Poc.
$\dagger$ Sjn. Santaremia, F. Cambr, On a visit to the British Museum


# $b^{1}$. Posterior side of coxs of palp naked throughout the middle of its leagth; nnterior side of trochauter of palp with ragged, not erect and stiff, hairs; anterior side of cora of first leg thickly clothed with erect bristly haire. <br> $a^{2}$. Male with two tibinl spurs ; poaterior sternal sigilla conspicuous, remote from the margin; anterinr median ejes lring far in adrance of the middle of the ocular aren, owing to the weak procurvaturo of the nnterior line .... <br> $\iota^{2}$. Male with onc tibial spur ou first len; posterior sternal sigilla inconapicuous, submarciman. <br> $a^{3}$. Fyes as in Tapinauchenius, no tibial spur on second leg in male Tnpinauchenius. <br> . Eycs of anterior line strongly procursed, the medians lying in the midule of the neular area. <br> $a^{4}$. No tibial spur on second lerg in male; fourth leg longer than first ........... Avicularia. <br> $b^{2}$. A tibial spur on second leg in male; fourth leg shorter than first........... . Irilopelma. 

## Genus Pachistopelma, nov.

Resembling Avicularia in the presence of a single spinous spur on the tibia of the first leg in the male, the marginal position of the sternal sigilla, absence of spines, development of scopula on legs, \&c., but differing in having the eyes of the anterior line only a little procurved, the centres of the medians lying in front of the middle of the ocular area, the anterior edge of the medians being well in advance of tho posterior cdge of the laterals. As in Avicularia and Tapinauchenius, the posterior side of the coxa of the palp is naked throughout the middle of its length, the trochanter is clothed with long, soft, flexible hairs, and the anterior side of the cosa and trochanter of the first leg with simplo slender hairs, intermised just below the suture on the former segment with some delicate pin-like hairs.

Type Pachistopelna rufonigrum, sp. n.

## Pachistopelma rufonigrum, sp. n.

¢.-Body and limbs clothed with short pale brown hairs ; sete on the limbs shorter than is usually the case and brownish; the femora, patellæ, and tibix indistinctly adorned with whitish bands, which are most conspicuous on tho patcllw, protarsi ornamented with a median brown stripe

[^3]which proximally ends in a spot upon the posterior side of the segment. Abdomen covered with shortish rusty-red setæ. Inferior surface of trunk and coxæ black.

Carapace long, distinctly longer than brond, its width just exceeding patella and tibia of scoond leg, its length considerably exceeding patella and tibir of first, the distance between the fovea and the anterior border exceeding the length of the fourth protarsus. Ocular tubercle moderately high, wider than long; anterior row of cyes slightly procurved, tho anterior edge of the laterals being only very slightly in front of that of the medians, which are considerably larger; spaco between the latter about equal to a diameter, and a little greater than between median and lateral. The two laterals on each side subequal in size, space between them less than their long diameter. Legs 1 and 4, 3, 2; femora and patella of first and fourth equal in length.
$\delta^{8 .}$-Considerably smaller than female, with longer legs and relatively wider carapace, the width just exceeding patella and tibia of third leg and considerably longer than protarsus of fourth, tho length equal to patella and tibia of second $\operatorname{leg}$; length from the fovea to the anterior border equal to the protarsus of the first.

Spur on tibia of first leg a simple, short, blunt, spinulose process. Palpal organ very much like that of Avicularia avicularia, but the prosimal half of the filiform portion less strongly curved, the whole terminal portion when seen from above presenting a slight and very open sigmoid curvature. Legs 4 and $1,2,3$; patella and tibia of fourth slightly longer than of first.

Measurements in millimetres. - 9 . 'Total length 42, carapace 17, width of latter $14 \cdot 8$; length of first leg $49 \cdot 5$, of second $45 \cdot 5$, of third 42 , of fourth $49 \cdot 5$; patella + tibia of first $15 \cdot 5$, of fourth 15.5 .

ठ. Total length 28.5, carapace 13, width of latter 11.8 ; length of first $\operatorname{leg} 45$, of second 415 , of third 38 , of fourth 48 ; patella + tibia of first 14, of fourth 14-7.

Loc. Brazil; Iguarassu (G. A, Ramage).
Eight specimens of this species arc in the British Muscum collection, two adult males and six females, varyiug from 15 up to about 40 millim. In young specimens the abdomen has a sharply-defined, median, black line and four large yellow spots on each side.

## Genus Iridopelis, inv.

Differs from Avicularia in having a spur on the tibia of
tho second leg similar to, but smailor than, that on the first leg. Moreover, the fourth leg is shorter than the first.

I'ype Iridopelma hirsutum, sp. n.

> Iridopelna hirsutum, sp. n.
f.-Carapace and limbs clothed with a short coating of groyish or yellowish-green hairs, the long seta on the limbs also greyish green, no red hairs on the tarsi; the middle of the upper surface of the abdomen with a wide dark stripe extending from its base to the anus, with a band of long yellowish hairs on cach side of it, with large ill-defined fuscous spots externally to the hairs; lower surface of abdomen, cosæ, and sternum black.

Carapace a little longer than wide, its width distinctly less than the patella and tibia of the second leg, which also just exceed its length, convex from side to side, the cephalic region scarcely at all elevated; ocular tubercle moderately high, oval, wider than long; anterior median eyes separated by a space which is greater than a diameter and greater than the space between them and the laterals, which they noticeably exceed in size ; the two lateral cycs on each side about equal, space between them perhaps a little less than their long diameter. Legs 1, 4, 2, 3; patella and tibia of fourth less than of first, and only a shade greater than of second.

ס.-Much smaller than female. Carapace longer than wide, its width distinctly less than patclla and tibia of third leg and than protarsus of first or fouth, just equal to tibia of fourth; length almost equal to protarsus of first, less than patella and tibia of third ; length from fovea to anterior edge a little greater than patella of first, and exceeding half the length of the first protarsus. Palpal organ with the filiform piece curved through about one-third of a circle, the spex flexed slightly outwards.

Legs long and slender, 1,4,2,3; patella and tibia of fourth equal to patella and tibia of second.

Measurements in millimetres.- $\$$. Total length 50 , curapace 18, width of latter 17 ; length of first $\operatorname{leg} 65$, of second 66 , third 52 , fourth 62.5 ; patcllat + tibia of first $20 \cdot 5$, of fourth $19 \cdot 5$. $\delta^{7}$. Total length 27, carapace 11; first leg 55, second 49 , third $40 \cdot 2$, fourth 49 ; patella + tibia of first $10 \cdot 3$; of fourth 1 i . 8 .

Loc. Brazil (D. Wilson-Barker); Pernanbuco (typo) (II. N. Ridley) ; Iguarassu (G. A. Ramage).

It appears to me that Mygale detrita of C. Koch (Dic Arachn, ix. $\mu .85$ ) may belong to this genus. It is certainly,
however, I should say, specifically distinct from hirsutum, on account of the greater length of its posterior legs and difference of colour. Morcover, no mention is made in the diagnosis of the tibial process of the second leg.

## Part III.-Genera dismendered from Eurypelina. Genus Citharachnthus, nov.

Resembling Lyroscelus, F . Cambr., in possessing a system of stout plumose stridulating-bristles upon the trochanter of the palp and first leg; but differing in the presence of a sccond organ upon the cosa of these appendages, the organ consisting of a large number of short, stout, almost conical spines, terminating in a long, filiform, frequently fractured extremity, and rising in the midst of a thick cluster of simple hairs. These spines nccur both above and below the suture on the coxa of the first leg, and near the upper margin of the posterior side of the cosa of the palp.
'Type Citharacanthus longipes, F. Cambr. (sub Eurypelma).

Citharacanthus longipes (F. Cambr.).
Eurypelma lougipes, F. Cambridge, Biol. Centr,-Amer., Arnneidea, ii.

The type of this species is an adult male taken at Chicoyoito in Guatemala. An adult female from the same locality presents the same structural features. The specimen from Cubilquitz, doublfully referred to this specics, belongs to the genus Brachypelna.

Genus Pteminopelana, nov.
Rescmbling Brachypelma in having the posterior side of the trochanter of the palp and the anterior side of that of the first leg scopulate with finer or coarser delicately plumose hairs, but without scopula of similar hairs upon the anterior inner side of the femur of the first leg, and the inner side of the coxa of the first leg clothed with simple hairs with slender not spiniform bases. Protarsus of first leg closing outside the lower tibial spur.

T'ype P'erinopelma vitiosum, Keys. (sub Eurypelma).
Distribution. Southern part of North America (Monte Video, Uruguay, \&c.).

## Geaus Dugesiella, nov.

A scopula of very delicately, almost invisibly, plumose
hairs upon the posterior side of the trochanter of the palp (a few also on the base of its femur), also upon the inner side of the femur of the first leg as in Brachypelma, but on the nutcrior side of the trochanter of the first leg the plumose scopula present in that genus is almost entirely replaced by basally stout and apically filiform spincs; hairs on the anterior side of the cosa almost wholly converted into similar spines both nbove and below the suture. Also on the posterior side of the cosa of the palp there are similar spines intermixed with the hairs both above and below the naked area, while near the middle of the base of this area there is a small cluster of spincs.

The spines on the coxae suggest those of Citharacanthus, but in the latter they are considerably stouter and do not replace the normal clothing of slender hairs below the suture. Moreover, there is in Citharacanthus no scopula on the inner side of the femur of the first leg, and there are long delicatoly plumoso spincs rising amongst the scopular hairs on the trochanter of the palp, and large plumose spines on that of the first leg.
'l'ype Dugesiella crinita, sp. n.

## Dugesiella crinita, spl. n.

ס.-Colour: carapace, legs, and mandibles covered with olive-black hairs; abdomen more intensely black; lega abovo and below, sternum, and abdomen thickly hirsute with long foxy-red bristles.

Carapace nearly as wide as long, a little shorter than protarsus of fourth, and about as long as tibia and half the patellan of this log, as long as fenur of fourth or of first and as patolla + tibia of palp; cephalic area moderately high.

Eyes of anterior line subequal; mediaus rather more than a diameter apart, rather less from the interals.

Legs 4, 1, 2,3 , fourth exceeding the first by about half its tarsus; protarsus of first and sccond scopulate to base, without basal spines on first, and with one basal spine on second; tibia of first not incrassate, with one external basal spine and two atrong apical spincs above the spur; upper spur cylindrical, obtuse, with a short straight spine below it; lower spur only lightly curved and armed with a short blunt spine; protarsus stronglj arcuate. Tibise of second, third, and fourth lege with only a few inferior spincs; inner side of femur of first and of tourth and postcrior side of trochanter of palp subscopulate with sinple hairs.

Palp long, reaching nearly to end of tibia of first leg, its
tibia armed with one internal spine; palpal organ serrate aloug the convex side of the base of the spine as in Eurypelina serratum, but the spine is much thimer than in that species, though otherwise similar.
\$.-Like the male in colour, but more hirsute.
Carapace as long as patella + tibia of first or fourth leg (protarsus of fourth scarcely exceeding cephalic area in length), and as protarsus and half the tarsus of the fourth, and scarcely shorter than tibia and protarsus of second or third. A second specimen, perhaps not quite adult, has relatively longer legs, the patella and tibia of first and fourth being considerably longer than the carapace, the cephalic area of which is also much shorter than the fourth protarsus.

Measurements in millimelres.- ${ }^{\circ}$ (type). 'Total length 27; length of carapace 13 , width 12 ; length of cephalic area $8 \cdot 5$, of first $\operatorname{leg} 47$, second $\operatorname{leg} 45.5$, third $\operatorname{leg} 42$, tourth $\log 51$; patclla + tibia of first and of fourth 16, protarsus of fourth $1+5$.
i. Total length 42 ; length of carapace 18 , width 16 length of cephalic area 12 , of first leg 46.5 , second 44 , third 41, fourth 52 ; patella + tibia of first and fourth 18, protarsus of fourth 13.

Loc. Mexico; Guanajuato (A. Dugès).

## Genus Aphonoprima, nov.

Anterior side of coxa of first log thickly clothed with hairs, most of which have stout spiniform bases and slender filifornı extremities; anterior side of trochanter with clothing of simple hairs, with at most one or two spiniform setre; no plumose scopula on the inside of the femur and no plumose scopula on posterior side of trochanter of palp, merely simple hairs, and no spines or spiniform seta on the posterior side of the cosa of the palp.

- Type Aphonopelma Sieemanni, F. Cambr. (sub Eurypelma).

Distribution. Southern States of North America and Dlexico.

1 also refer to this genus species from California and Texas as well as Liurypelma rusticum.

## Genus Plesiorthans, nov.

Resembling Ilomacommu in that the base of the protarsus of the first leg in the male passes between the two tibial spurs, but differing in having the protarsi of first and second legs scopulate to base, of third more than half covered below, and of Hourth with nearly half of it covered. l'alpal bulb without
basal prominence, and with spine slender and apically pointed. Cosa of first leg clothed in front with simple slender bristles intermixed with erect pin-like hairs, of trochanter covered with slender ragged bristles; coxa of palp naked throughout its median length behind, the trochanter without scopula.

T'ype Plesiopelma nyodes, sp. n.

## Plesiopelma myodes, $\mathrm{sp} . \mathrm{n}$.

ס.-Prevailing colour black, hairy clothing olive-brown with silky-golden lustre, legs indistinetly banded longitudinally above.

Carapace low, longer than wide, as long as patella and tibia of second leg, a little shorter than those of fourth, considerably shorter than those of first, slightly longer than protarsus and tarsus of first, than protarsus and half the tarsus of the fourth, and than patella, tibia, and tarsus of the palp; length from foven equal to tibia of fourth or of first.

Eyes of anterior line large, laterals larger than medians; medians considerably less than a diameter from each other and from the laterals.

Legs 4, 1, 2, 3, fourth a little more than three times as long as the carapace, not so thick as the first; tibia of first armed with two internal and about four inferior spines, its protarsus scopulate to base, but not spinous proximally ; protarsus of second with about three strong spines at base of scopula; protnrsus of third with more than its lower half, of fourth with its lower half scopulate. Upper tibial spur of first leg short, cylindrical, with long inferior spinc, lower spur stout, not strongly arcuate, with short apical spinc; protarsus not arched, with external basal nodule. 'Libia of palp with one inner spine; palpal organ with spine stout at base, filiform at apex, with a slight spiral curvature and two strong keels. Basal segment of palp and first leg clothed with simple hairs.

Measurements in millimetres.-Total length 26 ; length of carapace 13 , width 11 ; length from fovea 8 ; length of tirst leg 39 , second 36 , third 32 , fourth 41 ; patella + tibia of first 15 , of fourth $18 \cdot 5$; protarsus of fourth $9 \cdot 5$.
Loc. Uruguny.
Genus Acenthorelam, nov.
Resembling Metriopelma, but with the auterior side of the trochanter and femur of the first leg and the posterior side of the trochanter of the palp covered with a scopula of relatively stout delicately plumose bristles.

Type Acentropelma spinulosum, F. Cambr. (sub Metriopelma).

In Metriopelma, at lenst in the species that I refer to Breyeri and tetricum, there is no scopula, mercly normal hairs on the surfaces above mentioned.

To the synonymy of Metriopelma tetricum, Sim., must be added Miaschistopus rapidus, Poc., based upon specimens in the British Muscum from Kcyserling's collection labelled W. Africa. The error of locality misled mo into describing the specimens as the representatives of a new genus and species.

IXX.-Description of Two neso Species of Bracon from Bengal. By Col. C. T. Binairam, F Z.S., F.E.S.
Mry friend Mr. L. de Nicéville, Government Entomologist, Indian Museum, Calcuttn, has kindly entrusted to me for identification two species of Bracon bred from the larveo of Scirpophaga aurifua, Zeller, a moth belonging to the fanily Crambida, extremely destructive to the sugar-cane plantations in Bengal. So far as a carcful examination of the material in the collections of the British Museum and of the very scattered literature on the subject have ennbled me to judge, both the species sent have not been previously described. I have ventured to name one after Mr. de Nicéville.

Bracon Nicévillii, sp. n.
i. Fulvous yellow, the tips of the mandibles, the antenne, a broad band across the vertex of the head, the fifth and base of the sixth abdominal segnent above, and the sheath of the ovipositor black, the ovipositor itself ycllow, the posterior tibia and tarsi fuscous: wings hyaline yellow, the apex of both and inferior margin of hind wing infuscated; the front wing with two fuscous clouds, one in front of the basal nervure, passing from the costal margin of the wing through the discoidal cells, the other covering the apical half of the stigna and passing through the second cubital cell; base of stigma yellow; a clear hyaline spot in the first cubital cell. Head and thorax smooth and shining; legs covered with a short pubescence; a triangular impressed mark on the faco above the clypeus slightly raised in the middle, with a small pit at each angle connected by furrows; a deep, short, impressed line vertically from between the base of the antennex to the pit at the apex of the triangle; the thorax


[^0]:    - It is a matter of no great moment whether we term these groups subfamilies with the termination -inc or sections with the termination -cec. The main point to be borno in mind is that they are natural and not artificial assemblages like the "Selenocosmier," "Chotopelmater," Sc. of Simon, IIfst. Nat. Araign. i. (1892).

[^1]:    - I hero ndopt Dahl's mame instend of "Theraphosn," Walck., the destiny of which has yet to be setiled.

[^2]:    - Mygale cancerides, Latreille (Gen. Crust. et Ius. i. p. 83, 1808), was originally recorded from St. Domin!o (Haiti).

    Aun, \& May. N. Mist. Scr, 7. Vol, viii,

[^3]:    some years ogo Mons. Simon reconnized the identity between the types of Smutaremia and Ephelophs. The latter was referred by Simon to his fection "Selenocoswie.,"

