A single specimen from the Luculla River, Angola, obtained by Dr. W. J. Ansorge in 1910.
Closely allied to P. darlingi, Blgr.

### Pelmatochromis annectens.

Depth of body 23 to 23 times in total length, length of head 24 times. Head twice as long as broad; snout rounded, with convex upper profile, broader than long, as long as eye, which is  $3\frac{1}{2}$  times in length of head, equals interorbital width, and exceeds præorbital depth; mouth moderate, extending to between nostril and eye; teeth in 3 or 4 series, outer rather large, 50 to 66 in upper jaw; 3 or 4 series of scales on the cheek, width of scaly part less than diameter of eye. Gill-rakers short, 9 or 10 on lower part of anterior arch. Dorsal XV 9-10; spines gradually increasing in length to the last, which measures nearly ½ length of head; median soft rays produced, as long as head. Anal III 7-8; third spine a little shorter than last dorsal. Pectoral 3 length of head, not reaching vertical of origin of anal. Ventral reaching origin of anal or beyond. Caudal rounded. Caudal peduncle much deeper than long. Scales cycloid,  $28-29 \frac{2\frac{1}{2}}{10-11}$ ; lateral lines  $\frac{18-19}{9-10}$ . Dark brown, with four blackish vertical bars on the side; blackish spots may be present on the back, alternating with the bars; a black opercular spot; fins dark grey, posterior part of dorsal and anal, and greater part of caudal with numerous small dark and light spots.

Total length 85 mm.

Two specimens from the Lower Niger, presented by Mr. J. Paul Arnold (cf. his article in Wochenschr. Aq.-Terr. 1913, no. 37, p. 661, fig.).

Connects P. arnoldi, Blgr., with P. ansorgii, Blgr.

# LX.—Undescribed Species of Cicadidæ. By W. L. DISTANT.

The principal material for the present short paper is a small collection of Cicadidæ made by Mr. Horace Brown at Cue, N.W. Australia, and forwarded to me by my friend Mr. Walter W. Froggatt of the Entomological Branch of the Department of Agriculture, Sydney, N.S.W. The types of these new species are all in the British Museum.

# Pycna nigeriana, sp. n.

Head, pronotum, and mesonotum ochraceous, lateral and

posterior margins of pronotum paler. Head with two large spots to front, and a spot on each lateral margin of vertex castaneous, area of the ocelli black, with a small curved black spot on each side of same; pronotum with the fissures, a central subbasal spot, extreme basal margin, and the posterior lateral margins black; mesonotum with four obconical spots, the two central ones smallest, a central arrow-shaped spot lunately widened at base, and two transversely waved spots near posterior margin black or piceous, at anterior margin between the central and lateral spots a small ochraceous spot with black margins; abdomen above castaneous; body beneath and legs dull ochraceous, more or less greyishly pilose; tegmina brownish, opaque, the apical area more or less hyaline, a pale spot in radial area, another below it in fourth ulnar area, an irregular pale fascia crossing first, second, and third ulnar areas, pale spots on each side of the transverse veins at apices of ulnar areas, and pale and brown spots at apices of veins to apical areas; wings brownish ochraceous, darkening towards the hyaline outer margin; head (including eyes) only a little more than twothirds the width of base of mesonotum; pronotal lateral margins angularly ampliated, the angular apices only about reaching base of tegminal basal cells; costal membrane of tegmina prominently arched at base and moderately dilated, a little broader than costal area; face broad, moderately tumid, profoundly longitudinally sulcate and laterally strongly transversely striate; rostrum reaching base of abdomen; tibiæ and tarsi more or less castaneous, posterior tibiæ strongly spinose; opercula in male short, transversely oblique, well separated internally, apical margins truncately rounded, not passing base of abdomen.

Long., excl. tegm., & 25 mm.; exp. tegm. 76 mm.

Hab. N. Nigeria; Zungeru and Kano (Dr. W. B. Johnson, Brit. Mus.).

Allied to P. neavei, Dist.

# Cryptotympana exalbida.

Cryptotympana exalbida, Dist. Mon. Orient. Cicad. p. 92, t. xiii. f. 12, a, b (1891); id. Faun. Brit. Ind., Rhynch. iii. p. 86 (1906).

My knowledge of this species was confined to eight female specimens derived from Sikhim and Nilgiri Hills. Mr. E. E. Green has now presented us with a male specimen from Ceylon, which enables the characters of that sex to be described.

Q. Opercula ochraceous, a little longer than broad, centrally moderately overlapping, their apices extending to posterior margin of the second abdominal segment, outer

margins nearly straight, apices narrowed and obtusely rounded, inner margins oblique.

Long., excl. tegm., 38 mm.; exp. tegm. 106 mm.

Hab. Ceylon; Oduchuddan (Green).

# Abricta noctua, sp. n.

Body above black, palely pilose; ocelli red; a large spot occupying each lateral area of the pronotum dull dark ochraceous; the margins of two central anterior spots and the whole of two elongate spots-one of which occupies each lateral marginal area—to the mesonotum castaneous; abdomen somewhat longly palely pilose; face black, the transverse ridges more or less castaneous; sternum thickly palely pilose; legs ochraceous, more or less streaked with black; abdomen black, strongly palely pilose on each lateral area, an ochraceous spot on each side of apical segment; tegmina and wings hyaline; tegmina with the venation mostly black, the costal membrane ochraceous, the upper apical cell and the bases of the second, third, and fourth apical cells piceous or black; wings with the venation ochraceous, the margins of the abdominal area brownish ochraceous; head (including eyes) about as broad as base of mesonotum, head with front subprominent, in breadth about equal to length of lateral margins of vertex, vertex longer than front; face convexly prominent, central longitudinal sulcation narrow, transverse striations distinct; rostrum about reaching posterior coxæ; opercula transverse, apically rounded, not meeting internally nor passing base of abdomen; tegmina with transverse vein at base of second apical area oblique.

Long., excl. tegm., 3 22 mm.; exp. tegm. 58 mm.

Hab. N.W. Australia, Cue (H. W. Brown, type in Brit. Mus.).

# Parnkalla magna, sp. n.

Head black, palely pilose; pronotum and mesonotum dark castaneous, palely pilose; a central longitudinal line and extreme posterior margin to pronotum narrowly pale dull ochraceous, subposterior margin black; mesonotum with two small, somewhat obscure, dark obconical spots at anterior margin; abdomen dark castaneous, palely pilose, posterior segmental margins dull ochraceous; sternum thickly, longly, palely pilose; an ochraceous line between face and eyes; legs dull ochraceous; tegmina and wings hyaline; tegmina with the veins mostly piceous, costal membrane and post-costal area piceous, inwardly ochraceous, a black fascia crossing bases of first, second, third, and fourth apical areas; wings with the veins paler than those of tegmina; vertex with two distinct longitudinal ridges between the ocelli, head

as long as pronotum, including eyes about as wide as base of mesonotum; face prominent, lateral transverse striations distinct, not centrally longitudinally or very obsoletely sulcate; anterior femora strongly spined beneath; tegmina long and slender, more than three times longer than broad; opercula small and transverse, centrally meeting.

Long., excl. tegm., 3 14 mm.; exp. tegm. 45 mm.

Hab. N.W. Australia; Cue (H. W. Brown, type Brit. Mus.).

# Diemeniana richesi, sp. n.

Body above black, palely pilose; lateral margins of vertex, sulcation between the ocelli, two discal, longitudinal, angulated spots to mesonotum, basal area of cruciform elevation, and posterior segmental margins olivaceous brown; body beneath and legs dull dark ochraceous; face (excluding margins), head between face and eyes, longitudinal streaks to coxe and femora, apex of rostrum, annulations to tibie, basal margins of opercula, base of abdomen, and a central, longitudinal, macular fascia to same black; tegmina pale, shining, bronzy brown with scattered small testaceous mottlings, venation more or less brownish ochraceous, costal membrane dark testaceous, a black spot with testaceous margins in the fourth ulnar area, and a large black spot crossing bases of first, second, and third apical areas; wings hyaline with testaceous and ochraceous mottlings; head (including eyes) a little narrower than base of mesonotum, strongly sulcated between the ocelli; pronotum centrally longitudinally sulcated; tympana entirely exposed; opercula in male transverse, nearly reaching base of first abdominal segment, posterior margins rounded; rostrum reaching the intermediate coxæ; tegmina almost half as broad as long, basal cell about twice as long as broad.

Long., excl. tegm., 3 18 mm.; exp. tegm. 41 mm.

Hab. Australia, Southern N.S.W., Coomu (Dr. Riches, type Brit. Mus.).

The only other at present known species of this genus is

from Tasmania.

## PARAGUDANGA, gen. nov.

Head (including eyes) about as wide as base of mesonotum, the front broad, depressed, broader than long, almost continuous with lateral margins of vertex, about as long as vertex, pronotum about as long as head, its lateral margins nearly straight but rounded anteriorly, its posterior angles moderately ampliated, mesonotum (including cruciform elevation) as long as head and pronotum together; abdo-

men in male longer than space between apex of head and base of cruciform elevation; tympana entirely exposed; opercula in male short, transverse, widely separated, not extending beyond basal segment of abdomen; rostrum reaching the intermediate coxæ; tegmina semiopaque, three times longer than greatest breadth, costal margin neither arched nor gibbous, basal cell about twice as long as broad, apical areas eight; wings with six apical areas; anterior femora not prominently spined beneath.

Allied to Gudanga, Dist., but with the head (including eyes) not narrower than base of mesonotum, mesonotum (including cruciform elevation) as long as head and pronotum together, rostrum only reaching intermediate coxe, tegmina

three times longer than broad, &c.

# Paragudanga browni, sp. n.

Head, pronotum, and mesonotum black; pronotum with narrow anterior and posterior margins, a narrow central longitudinal line, and two central spots near base olivaceous brown; mesonotum with the margins of two central obconical spots and the basal cruciform elevation olivaceous brown; abdomen above testaceous, the base, a central longitudinal fascia, and the lateral margins (narrowly) black; sternum black, palely pilose; lateral and apical margins of face, discal suffusions, and coxæ ochraceous; abdomen beneath ochraceous, a central longitudinal fascia and the lateral margins (narrowly) black; legs black, streaked with ochraceous; tegmina pale fuscous brown, the veins and costal membrane ochraceous, the veins margined with dark fuscous brown; wings sanguineous, nearly apical third and posterior margin pale fuscous brown; vertex distinctly sulcated between the ocelli; face broadly, centrally, longitudinally sulcate, the margins of the sulcation sinuous; opercula broader than long, their apices roundly truncate; other structural characters as in generic diagnosis.

Long., excl. tegm., 3 20 mm.; exp. tegm. 41 mm. Hab. N.W. Australia, Cue (H. W. Brown, type Brit. Mus.).

# Melampsalta cuensis, sp. n.

Body and legs virescent; ocelli red; eyes castaneous; tegmina and wings hyaline, the venation virescent, extreme bases of both tegmina and wings ochraceous; vertex longer than front, longitudinally incised between the ocelli; face moderately globose, central longitudinal sulcation narrow, the transverse striations not strongly pronounced; rostrum reaching the intermediate coxæ; tegmina nearly three times

Ann. & Mag. N. Hist. Ser. 8. Vol. xii.

as long as broad, upper vein to lower ulnar area and lower vein to radial area fused for about a space equal to two-thirds the length of basal cell.

Long., excl. tegm., 2 18 mm.; exp. tegm. 50 mm.

Hab. N.W. Australia, Cue (H. W. Brown, type in Brit. Mus.).

Melampsalta sancta, sp. n.

Head black, margins and centre of front, a lateral spot to vertex, and a spot between the ocelli ochraceous; pronotum brownish ochraceous, fissures black, a central longitudinal fascia and the posterior margin ochraceous; mesonotum brownish ochraceous, with six black spots, the two central obconical and fused, on each side of these a small triangular spot and a long fasciate spot near each lateral margin, a small round black spot in front of each anterior angle of the cruciform elevation; abdomen above black, the posterior margins of the segments broadly ochraceous; body beneath and legs ochraceous, central area of face and the ridges, cheeks, and a longitudinal line to femora black; vertex longer than front, sulcate between ocelli; face longitudinally sulcate for two-thirds its length, transverse ridges fine but distinct; rostrum reaching the intermediate coxæ; tegmina and wings hyaline, venation ochraceous or black, extreme bases of both ochraceous; tegmina about two and a half times as long as broad, upper vein to lower ulnar area and lower vein to radial area fused for a space about half the length of basal cell.

Long., excl. tegm., 2 16 mm.; exp. tegm. 45 mm. Hab. N.W. Australia, Cue (H. W. Brown, type in Brit.

Mus.).

Kobonga froggatti, sp. n.

Head black, ocelli red, base of front with three small ochraceous spots, vertex with a small ochraceous spot between the ocelli; pronotum castaneous, the anterior margin (narrowly), the posterior margin (broadly), and a central narrow longitudinal fascia bright ochraceous, the lateral margins, subanterior and subposterior margins, and margins of the central pale fascia black; mesonotum castaneous, four obconical spots (the two central shortest and the lateral spots very long), and the area of the basal cruciform elevation black; metasternal margins ochraceous; abdomen above black, posterior segmental margins ochraceous; body beneath black, broad lateral margins to face, coxæ and trochanters (more or less), femora beneath, two longitudinal fasciæ, and margins of anal appendage ochraceous; tegmina and wings hyaline, tegmina with the venation and costal membrane

castaneous, postcostal margin, apical and inner margins narrowly fuscous, bases of first, second, and third apical areas infuscated; wings with narrow fuscous margins as in tegmina, the venation pale castaneous; ulnar areas to tegmina about half as long again as apical areas; rostrum reaching the intermediate coxæ; face broad, narrowly centrally sulcated, the transverse ridges acute; anterior femora strongly spined beneath.

Long., excl. tegm., 2 31 mm.; exp. tegm. 86 mm.

Hab. N.W. Australia, Cue (H. W. Brown, type in Brit. Mus.).

LXI.—Four new Species of Apidæ (Hymenoptera), with Notes on other Species. By Geoffrey Meade-Waldo, M.A.

(Published by permission of the Trustees of the British Museum.)

In the following paper four new species of Apidæ (subfam. Megachilinæ) are described. The most interesting addition is *Thaumatosoma turneri*, which brings the number of species in this curious genus up to three, all described from the male sex. Three species of *Megachile* are also described from Tropical Africa. A number of notes on various species and points in synonymy which have arisen at various times are published now for the first time.

All types are in the British Museum, except where stated

to the contrary.

# THAUMATOSOMA, F. Sm.

# Thaumatosoma turneri, sp. n.

J. Niger, punctatus; antennis infra mandibulisque flavis; capite, thorace pedibusque plerumque albido-pilosis, abdominis segmentis 1-3 fasciis apicalibus interruptis albidis; abdominis segmentis 4-6 plerumque ferrugineis, segmento sexto apice dentibus parvis instructo; alis hyalinis.

Long. 7 mm.

3. Black; antennæ beneath (except the spatulate thirteenth joint) and mandibles yellowish; anterior legs on the inner side, tergites 4 and 5 apically, both tergite and sternite 6 wholly red ferruginous. Face and clypeus covered with a long and dense, postorbits with a sparser, whitish pile; anterior margin of prothorax with two small spots of pale pubescence; pleura and surface of truncation of median segment somewhat densely clothed with pale pubescence. Abdomen

35\*



Distant, William Lucas. 1913. "Undescribed species of Cicadidae." *The Annals and magazine of natural history; zoology, botany, and geology* 12, 485–491.

View This Item Online: <a href="https://www.biodiversitylibrary.org/item/71910">https://www.biodiversitylibrary.org/item/71910</a>

Permalink: <a href="https://www.biodiversitylibrary.org/partpdf/60626">https://www.biodiversitylibrary.org/partpdf/60626</a>

#### **Holding Institution**

University of Toronto - Gerstein Science Information Centre

#### Sponsored by

University of Toronto

#### **Copyright & Reuse**

Copyright Status: NOT\_IN\_COPYRIGHT

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <a href="https://www.biodiversitylibrary.org">https://www.biodiversitylibrary.org</a>.