

*Descriptions of new Species of Ants (Hym., Formicidæ)
from various Localities.* By HORACE DONISTHORPE,
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Subfamily *PSEUDOMYRMINÆ* Forel.

Tribe *PSEUDOMYRMINI* Forel.

Pseudomyrma nigra, sp. n.

♂. Deep black, dull, mandibles, funiculi, neck, tarsi,
and apex of gaster brown. Whole body clothed with
longer and shorter scattered erect black hairs or bristles.

Head very broad, rounded posteriorly, narrowed an-
teriorly, finely reticulately punctured; *mandibles* massive,
with large deep scattered punctures which are oblong
near masticatory border, slightly shining; *clypeus* very
transverse and narrow, projecting in middle, suture

separating it from rest of head semicircular on each side; *eyes* very large, prominent, and kidney-shaped; *ocelli* very small, but distinct; *antennæ* thick, *scapes* reaching a little beyond centre of head, *funiculi* gradually thickened and then narrowed to apex, all the joints longer than broad. *Thorax* rather long, *pronotum* sculpture as in head, transverse, dorsal surface quite flat, strongly rounded anteriorly but with distinct but very blunt shoulders, side-margins straight, very sharply defined; *mesonotum* transverse, raised but flat, similar puncturation as in head and pronotum, anterior border semicircular, sides rounded, posterior border nearly straight; *mesoepinotal* suture wide, with longitudinal not close raised ridges; *epinotum* long, the puncturation more rugose than that of rest of thorax, *dorsum* considerably longer than declivity, with distinct side-margins, longitudinally striate, *declivity* not abrupt, transversely striate; *petiole* pedunculate, widened posteriorly, with distinct side-margins, transversely striate, armed beneath with a longitudinal ridge ending in a small pointed tooth at apex, sides very finely punctured; *postpetiole* considerably broader behind than petiole, narrowed in front, broadest just before apex, very finely longitudinally striate; *gaster* oblong-oval, sculpture as in postpetiole, broadest just before apex of first segment, somewhat smooth and shining beneath; *sting* moderate.

Long. 8.4 mm.

British Guiana: Essequibo River, Moraballi Creek.

Taken by O. W. Richards, 14. ix. 29. Oxford University Expedition. No. 2095.

This species comes nearest to *M. godmani* Forel from Panama, but is considerably larger, and its sculpture and structure is different.

Subfamily *MYRMICINÆ* Lepeletier.

Tribe *SOLENOPSIDINI* Forel.

Liomyrmex froggatti, sp. n.

♀. Shining black, femora and coxæ brown, antennæ, tibæ, tarsi, articulation of legs and wings, and apex of gaster yellow, apex of segments of gaster pale yellow. Body clothed with sparse longer and shorter outstanding yellow hairs, forming a short fringe at neck directed

backwards. Pubescence yellow, very short, sparse, and decumbent, more conspicuous on petiole and postpetiole.

Head subquadrate, posterior angles rounded, posterior border slightly sinuate, with a distinct margin before

Fig. 1.

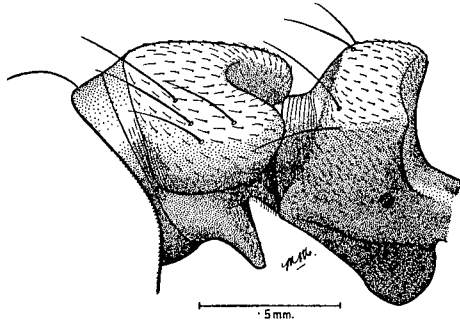
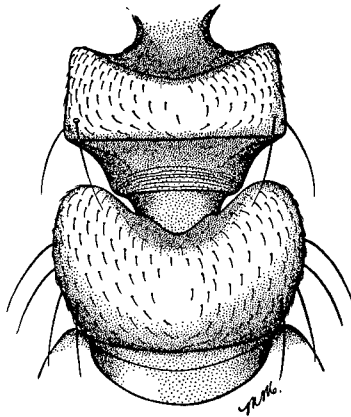


Fig. 2.



Liomyrmex froggatti, sp. n., ♀.

Fig. 1.—Petiole and postpetiole in profile.

Fig. 2.—Ditto from above.

neck, very finely punctured, the punctures being very small and shallow; *mandibles* long, external border curved, masticatory border armed with teeth, the apical two being the longest, evenly punctured; *clypeus* flat,

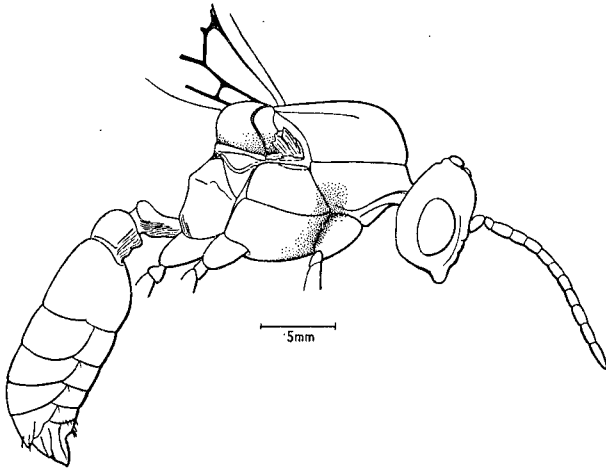
anterior border straight; *frontal area* indistinct; *frontal carinæ* wide apart, anterior angles rounded, sides straight, divergent posteriorly, *frontal furrow* indistinct, terminating in an oblong shallow fovea in centre of front; *antennal foveæ* large and deep; *eyes* large, circular, not very prominent, situated a little in front of middle of sides of head; *ocelli* moderate; *antennæ* 11-jointed, *scape* short, thickened to apex, not reaching halfway to posterior angles of head, *funiculus* gradually thickened to apex, first joint triangular, longer than broad, broader than the next four or five joints, longer than the following two taken together, joints 2-7 transverse, last joint pointed at apex, about as long as the two preceding taken together. *Thorax* long, rather flat above, puncturation very fine, similar to that of head in pronotum and mesonotum, that of præscutellum, scutellum, and epinotum being closer and stronger; *pronotum* narrow, projecting over neck, rounded anteriorly, divided from mesonotum by a deep suture and encircling the same at sides in front; *mesonotum* longer than broad; *scutellum* not very convex, *metanotum* narrow; *metanoto-epinotal suture* deep; *epinotum* convex, sides rounded and narrowed to base, *declivity* concave and transversely striate, sides of declivity margined and very bluntly tuberculate at apex; *episternite* and *sternite* of *metathorax* longitudinally striate; *petiole* very transverse, narrow, and flat above, sides straight, anterior border evenly and slightly excised, posterior border rounded, *peduncle* short, anterior face of petiole concave, smooth and shining, underside of petiole consisting of a narrow long ridge ending in a blunt round point anteriorly, posterior portion of petiole behind and below dorsal surface just before junction with postpetiole narrow, round, and finely transversely striate; *postpetiole*, dorsal surface flat, very deeply excised anteriorly, forming two bluntly pointed lobes, rounded at sides and posteriorly, junction with gaster behind and below dorsal surface very finely punctured and transversely striate, underside armed with a rather long sharp tooth pointing downwards; *gaster* long, cylindrical, very slightly narrowed to apex, apex of last segment pointed; *sting* not visible. *Legs* moderate, *femora* compressed, anterior pair concave on inner surface. *Wings* yellow, one *discoidal cell*, one *cubital* and

long closed *radial cell* present; *pterostigma* and *veins* brown.

Long. 9·2 mm.

♂. Black, shining, whole body very finely coriaceously punctured and with very small scattered punctures; mandibles, tibiae, tarsi, first joint and end of last joint of funiculus and genitalia yellowish. *Head* without eyes, not as long as broad, posterior border and *cheeks* rounded, inserted on a short neck at the centre of the *gula*; *mandibles* small, masticatory border armed with three small teeth; *clypeus* convex in centre, which is round,

Fig. 3.



Liomyrmex froggatti, sp. n., ♂.

and surrounded by an impressed line; *frontal area* narrow, triangular and margined; *frontal furrow* fine, shallow, reaching median ocellus; *eyes* large, prominent, situated on sides of head; *ocelli* placed on posterior border of head; *antennæ* 12-jointed, scape and first joint of funiculus glabrous and shining, rest of antennæ pubescent, *scape* very short, but longer than broad, *funiculus* with very small round first joint, shorter and narrower than scape and rest of antennæ, rest of joints of funiculus longer than broad and of equal breadth,

last joint as long as the two preceding joints taken together, pointed at apex. *Thorax*: *pronotum* narrow, transverse, posterior border round, encircling the mesonotum at sides in front; *mesonotum* high, arched, convex, flatter on dorsum, no *mayrian furrows* present, *parapsidal furrows* very faint, a double impressed line occurs on anterior portion of mesonotum, and a fine narrow carina on posterior half; *præscutellum* more distinctly and closely punctured; *scutellum* high, rounded, very convex; *epinotum* with abrupt declivity longer than the dorsal surface, and with similar very blunt tubercles or points as in ♀ at apex; *petiole* pedunculate, *node* with two round blunt projections on upper surface; *postpetiole* transverse, considerably broader than petiole, sides and anterior border rounded, posterior border almost straight, armed beneath with a blunt short tooth; *gaster* elongate, truncate at base, rounded and narrowed to apex, *pygidium* pointed; *genitalia* elongate, *stipes* long, narrow, angled on external border, sinuate interiorly, *sagittæ* long, compressed. *Wings* as in ♀, but shorter.

Long. 3.6 mm.

New Guinea.

Described from a winged female and a male, taken by J. L. Froggatt in New Guinea.

Type and allotype in B.M. Coll.

The female comes nearest to *L. carinata* Stitz, but is somewhat smaller, and the construction of the petiole and postpetiole is different.

The male of this genus was unknown hitherto.

The following species of *Liomyrmex* have now been described:—

1. *L. cæcus* Smith (sub. *Myrmica*), ♀, Journ. Proc. Linn. Soc. Lond., Zool. iv. Suppl. p. 108 (1860).
New Guinea: Dory.
 2. *L. carinata* Stitz, ♀, Ber. Naturf. Freunde, Berlin, p. 366, figs. 13, 14 (1911). Dutch New Guinea.
 3. *L. aurianus* Emery, ♀, Ann. Mus. Stor. Nat. Genova, xxvii. p. 504 (1889). Berman: Malacca. ♀ and ergatogyne, Forel, Zool. Jahrb. Syst. xxxvi. p. 26 (1913). Malacca.
- L. buttelli* Forel, ♀ (sub *Promyrma*), Rev. Suisse, Zool. xx. p. 764 (1912) = *L. aurianus* Emery.

4. *L. gestroi* Emery (sub *Laparomyrmex*), ♀, Ann. Mus. Stor. Nat. Genova, xxv. p. 461 (1887). New Guinea.
5. *L. tagalanus* Menozzi, ♀, Phil. Journ. Sci. xxviii. p. 445 (1925). Philippines.
6. *L. froggatti* Donisthorpe, ♂ & ♀. New Guinea.

Stitz's *L. carinata* was evidently a female by the size, 10.1 mm., and description; but he gave the sign "♀" at the head of his description and "♂" for the locality. Emery gives it as a worker, as he does for Forel's female of *Promyrma buttelli* and also for his own female of *Laparomyrmex gestroi*! [Gen. Ins. 174 B, p. 191 (1922)].

Tribe LEPTOTHORACINI Emery.

Leptothorax wollastoni, sp. n.

♀. Lighter or darker brown, head and gaster darker, tarsi tibiæ, base, and apex of femora, articulations of legs, scapes, and apex of funiculi lighter, shining, pubescence yellow, decumbent, very short, sparse and scattered, blunt hairs or bristles, pale yellow, very sparse, very irregularly situated, probably rubbed.

Head subrectangular, longer than broad, slightly narrower posteriorly, posterior angles rounded, mostly smooth and very shining, but with some very small, faint, and shallow punctures; *mandibles* finely striate and punctate; *clypeus* very finely and sparingly longitudinally striate; *frontal carinæ*, *cheeks*, and borders of *antennal foveæ* very finely striate; *eyes* situated about the middle of sides of head; *antennæ* long, *scapes* scarcely reaching posterior angles of head, *club* not as long as rest of *funiculus*. *Thorax* slender, a little longer than head, finely punctured, not as shining as head, *sternite* of *meso-* and *metathorax* somewhat coriaceous punctured; *mesoepinotal suture* very slight and indistinct; *epinotum* armed with very small short teeth, not as long as the space between them; *petiole* finely punctured, *peduncle* not long, *node* rounded and bluntly pointed; *postpetiole* finely but slightly more distinctly punctured than petiole, quadrate, convex above, sides straight, rounded anteriorly and posteriorly, considerably broader than node of petiole; *gaster* short, truncate anteriorly, sides and apex rounded. *Femora* spindle-shaped.

Long. 2.6 mm.

Described from two workers taken by Wollaston in Madeira (B.M. 1858-21).

Type in B.M. Coll.

One specimen is labelled, in Kirby's handwriting, "subterranea ♂ minor??"; he evidently thought it was an *Aphænogaster*, the colour being similar to that of dark specimens of *Aphænogaster* (*Attomyrma*) *subterranea* Latr. This species comes in the Palæarctic group *rottenbergi* Emery; and in Santschi's table for this group—"5. *Epinotum inerme*, tout au plus une très petite dent bien plus courte que l'intervalle de leur base." Its sculpture, practically nil, is totally different to any other species in the group.

This is the first record of a *Leptothorax* for Madeira (although there are several specimens of *S. unifasciata* in the general collection at the B.M., taken at Madeira by Wollaston); but Wheeler lists seven species and four vars. for the Canary Islands. For Madeira Wheeler gives fifteen forms of ants, only three of which are endemic.

Santschi, F., Rev. Suisse, Zool. xvii. p. 460 (1909).

Wheeler, W. M., Proc. Amer. Acad. Arts. Sci. lxii. pp. 91-8, 109-11 (1927).

Tribe DACETINI Forel.

Orectognathus versicolor, sp. n.

♂. Head, antennæ, and gaster reddish yellow, front and vertex of head and middle of gaster brownish, thorax, petiole, and postpetiole brown, apex of spines on thorax reddish yellow, mandibles and legs yellow, teeth and inner margins of mandibles reddish, eyes black. Whole body more or less shining.

Head triangular, posterior border deeply excised, forming two long bluntly pointed lobes on each side; *clypeus* slightly concave, anterior margin straight, finely and closely punctured; *frontal area* distinct, impressed, smooth and shining; *frontal carinæ* divergent, raised, with a sharply pointed tooth on each side in middle; *frontal furrow* short, narrow, ending in a long shallow oblong pit or fovea; *vertex* of head raised, upper surface of lobes slightly concave; vertex of head and lobes furnished with more or less longitudinal raised ridges,

enclosing shallow circular pits; *mandibles* parallel, sinuate on inner margin before teeth and at base, armed with three strongly curved teeth at apex, the one above being the longest, the inner one the shortest; *antennæ*: *scape* long but not reaching posterior border of lobes, *funiculus* with short first joint broader than second, second joint longest, long and narrow, third not as long as half the second, increasing in width to apex, last joint long, thickened in middle, pointed at apex. *Thorax* very finely rugosely punctured, armed with six spines, two at sides of pronotum, projecting outwards and slightly curved forwards, a shorter blunter pair on mesonotum projecting upwards, and a long narrow divergent pair on epinotum slightly projecting upwards, dorsal surface of *pronotum* flat; *meso-epinotal* suture deeply impressed; dorsal surface of *epinotum* convex, twice as long as declivity, which is abrupt; *petiole* with long *peduncle*, finely rugosely punctured, with shining small circular spots, *node* and *postpetiole* less finely punctured, the latter rounded, broader than node of petiole; *gaster* short-oval, smooth and shining; *sting* moderate.

Long. 4.3 mm. with mandibles; mandibles .7 mm.

Described from a worker taken by R. E. Turner in S.E. Queensland, Tambourine Mts., 18-25. v. 1935.

Type in B.M. Coll.

This distinct species does not agree with the descriptions of any of the known species.

Subfamily *FORMICINÆ* Lepeletier.

Tribe CAMPONOTINI Forel.

✓ *Camponotus (Colobopsis) newzealandicus*, sp. n.

♀. Brown, shining, anterior portion of head reddish yellow, scapes of antennæ and legs dirty yellow, margins of scutellum, insertions of wings, and posterior borders of segments of gaster very narrowly, apex of second segment broadly, yellow.

Head cylindrical, slightly longer than broad, apex circular, abruptly truncate, almost completely margined, including the mandibles in the circle and cutting off part of the clypeus, which is continued on dorsal surface of head, the margins crenulate especially at sides and

upper border. The truncate part of head, including mandibles, the cheeks, the rest of clypeus and front of dorsal surface of head strongly and coarsely punctured, posterior portion of head very finely coriaceously punctured and with small, shallow, rather close punctures; *frontal area* indistinct; *frontal furrow* narrow and shallow, reaching small fovea in front of median ocellus; *eyes* large, situated at back of head; *antennæ* inserted at centre of frontal carinæ, *scape* reaching beyond posterior angles of head by about quarter of its length, all the joints of *funiculus* longer than broad, gradually thickened to apex. *Thorax* with similar puncturation to posterior portion of head; *pronotum* transverse, narrow, *promesonotal suture* round, deep; *mesonotum* convex, longer than broad, very narrowly margined anteriorly; *scutellum* transverse, convex; *epinotum* convex, narrowed to base, no angle between dorsal surface and declivity; *scale of petiole* thick, transverse, not high, rounded above; *gaster* longer than broad, slightly longer than thorax, base and sides evenly rounded, *pygidium* bluntly pointed. *Wings* wanting. *Legs* moderate, *femora* compressed.

Long. 5·8 mm.

New Zealand (ex Coll. Cameron).

Type in B.M. Coll.

This is the first species of *Colobopsis* to be described from New Zealand.