

Two New Species of Lampyrids (Col. Lampyr)

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Luciola magambae sp. nov.

Type collected by E. Haaf, November 1959, at Magamba, Usambara, East Africa, and in the collection of the Museum G. Frey, Tutzing bei München, Germany.

Dimensions, 7.13 mm. long (pronotum plus elytra) by 2.55 mm. broad. Pronotum 1.28 mm. long by 1.99 mm. broad. Transverse, decidedly angulate apically; sides sinuate. Anterior angles obtusely rounded; posterior angles acute and somewhat salient laterally. Surface very coarsely punctate. Ground color opaque pale orange, lateral and forward borders transparent yellow, the former narrowly explanate. A median black discal vitta beginning at the anterior edge and ending about basal fifth; widened subcircularly in the forward half, and the dark color apparently extending laterad along the anterior margin owing to the large eyes being visible through the transparent border. A median longitudinal sulcus in the black spot. Villosity short, yellow. Scutellum opaque yellow, narrowly rounded apically.

Elytra 5.88 mm. long by 1.28 mm. wide; widest at midlength. Coarsely rugose-punctate in confused lines. Villosity brown, not dense. Entirely black by general illumination; actual ground color translucent dark brown; no pale borders or vittae. Three conspicuous raised costae, the outer and inner ones short, the intermediate reaching to about apical fourth. Sutural bead thickened, particularly in the posterior half. Epipleura apparently short.

Frons black, deeply concave; interocular margins slightly divergent. 1.45 mm. across eyes, 0.38 mm. between them above the constriction at the antennal sockets – eyes very large, and head about one-half exposed. Antennae rather short, 2.2 mm. long, black, with rather dense and long villosity; second article as long as third and twice as thick.

Pro- and mesosterna yellow; meta sternum infusate, sides yellow.

First four ventral segments black, fifth and sixth pale yellowish white (luminous); sixth semi-elliptical with small terminal point. Pygidium not visible but the entire dorsal surface of the body appears to be black.

Femora dark yellow; tibiae infusate; tarsi nearly black. Claws very small.

No corresponding female known.

Photinus lucidotoides n. sp.

This species has a remarkable combination of characters – a head characteristic of *Photinus*, bearing long, compressed, serrate antennae like those of *Lucidota* s. l., large eyes, and an unusual structure of the last abdominal segment. It was collected at Bugaba, Panamá, by Champion.

Length 9.75 mm., greatest breadth 4.0 mm. at about apical 3d, but only 3.3 mm. broad at the basal 4th of the elytra. The elytra are a uniform yellow, semitranslucent, densely punctate, with a rather dense yellow villo-sity; three costae are marked by more erect hairiness, the intermediate costa reaching apical 3d, the others shorter. The pronotum is parabolic in outline, the borders opaque yellow; a fairly large median light reddish brown spot is divided by a sulcus and extends laterad parallel to the base, the suboval interstices being pink; angles rather less than 90°, and the base a nearly smooth curve. Scutellum narrowly triangular in apical $\frac{2}{3}$, dark reddish brown. Frons brown, vertex black; eyes large for a *Photinus* of this size.

The antennae are 6.4 mm. long, broad, compressed, black, tapering, and noticeably serrate on the lower edge. Prosternum yellow, mesosternum reddish brown, metasternum dark brown. Ventral segments 2 to 5 dark brown, 6 and 7 entirely luminous as in the male *Photinus* but pink instead of yellow. (This pink coloration of the luminous segments has been noted in other Photinini.) Segment 8 is small, largely retracted under the 7th. The 9th or genital segment is quite unusual, being long, with a median ridge from which the sides slope dorsad; apex rounded. A cross-section at midlength would apparently be widely V-shaped, with the sides curved. Pygidium dark, semicircular, with two slight nicks in the periphery, and extending beyond the 9th ventral segment. Legs dark yellowish brown; claws small and simple.

No species with this combination of characters is described by Gorham from Champion's collecting, and it appears not to have been described elsewhere. The type in the Museum G. Frey, Tutzing bei München, Germany.

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