

*Alate female* (Fig. 1): Total length, 11.4 mm.; forewing, 10.9 mm.; maximum head width, 3.0 mm.; maximum head length (from anterior margin of lateral lobes), 2.9 mm.; maximum thoracic width, 3.0 mm. Integument dull black, except the dark reddish-brown apical tarsal segments.

Head, excluding mandibles, very slightly longer than wide; mandibles strongly rugose; clypeus about as broad as long, triangular; frontal carinae slightly convergent anteriorly, margin of lower one-third slightly crenulate, with a few clavate setae; occiput with a pair of low, pointed tubercles immediately above posterior ocelli; a low pointed tubercle on each side above eyes, with a similar tubercle immediately behind; front distinctly convex when viewed from above; occipital emargination rather deep; cheeks very broad, almost one-third as broad as head is long.

Pronotum nearly vertical anteriorly; humeral angles projecting forward as a narrow spine when viewed from above, pronotal crest strong laterally, absent medially, carinate, the carina raised on each side of median line as a pair of low humps, entire carina slightly crenulate; mesopleura with small spine above mid coxae; epinotum narrow, with a pair of spines directed caudad, the spines about as long as distance between their bases.

Petiole short, about twice as broad as long, anterior face vertical; postpetiole not swollen dorsally, only slightly swollen laterally; petiole and postpetiole without ventral projections; gaster more elongate than in worker, about one-third longer than broad, first tergite emarginate basally, disc with very fine striae which converge medially, anterior carina of first tergite distinct as far back as spiracle; remaining tergites discally roughened, all tergites with a narrow, dull, impunctate marginal band; first ventrite dull, sparsely punctate with a few irregular striae laterally; remaining ventrites roughened discally; all ventrites with narrow, impunctate apical margins which are slightly more shiny than those of tergites.

Integument generally dull, subopaque, mesoscutum, scutellum and abdomen somewhat shinier. Punctures of front moderate in size, separated by about a puncture diameter, becoming a little finer and sparser below, somewhat less distinct on pronotal lobes; punctures of occiput coarser than those of front, separated by a puncture diameter or less; cheeks rugoso-punctate; punctures of anterior and upper faces of pronotum equal to those of occiput, sparser medially, of lateral face coarse, rather close; punctures of mesoscutum slightly elongated, separated by a puncture diameter or less, becoming sparser