

behind, in front very densely and finely punctate or granular, sides also with numerous small rounded foveolæ; sides of clypeus and inner borders of frontal carinæ with a few large piligerous foveolæ. Thorax, petiole and legs more finely, gaster more coarsely and transversely shagreened, also with small transverse foveolæ bearing the pubescence and large piligerous foveolæ across the middle and along the posterior border of each segment.

Hairs and pubescence yellow, the former long, sparse and erect, confined to the mandibles, clypeus, dorsal surface of head, thorax, border of petiole, gula and both dorsal and ventral surfaces of the gaster. Pubescence sparse, especially on the gaster, but very distinct on the posterior portions of the head, thoracic dorsum, scapes and legs. Middle and hind tibiæ with rows of stiff, graduated bristles on their flexor surfaces. There are a few short hairs at the tips of the antennal scapes and at the femoro-tibial articulations.

Head and antennal scapes black; mandibles, clypeus, cheeks and antennal funiculi often tinged with red. Thorax and legs brownish red or chestnut; gaster black, with dull brown posterior segmental margins; base of first segment or the whole of the first and second segments red like the thorax.

*Worker minor.* Length, 7-8.5 mm.

Head longer than broad, not contracted but rounded behind the eyes, with rather straight, subparallel sides. Clypeus and antennal scapes much like those of the worker major, the scapes reaching nearly half their length beyond the posterior corners of the head. Thorax about as broad as the head, base of the epinotum somewhat longer than the declivity. Petiole subcuneate, with more convex posterior surface and blunter border than in the worker major.

Sculpture, pilosity and color much as in the worker major, but gaster not red at the base.

*Female.* Length, 14-16 mm.

Head similar to that of the worker major but proportionally longer and narrower behind, with more nearly parallel sides. Thorax about as broad as the head. Epinotum with short, convex base and much longer, steep and slightly concave declivity. Petiole rather high, thick below, compressed anteroposteriorly above, with sharp border. Wings long (16-17 mm.).

Differs from the worker major in sculpture to the extent of having the thorax, gaster, legs and lower lateral borders of the head shining.

Pilosity, pubescence and color much as in the worker major, but the mesonotum, scutellum and metanotum black and the pronotum, pleuræ, tibiæ and femora sometimes infuscated. Gaster frequently red at the base. In some specimens, the whole of the thorax and the legs are very dark brown or black. Wings suffused with brown; veins and stigma light brown.

*Male.* Length, 8-11 mm.

Head somewhat longer than broad, with large, convex eyes, broader and rounded postocular region and concave cheeks. Clypeus carinate, with broadly rounded anterior border. Mandibles edentate. Antennal scapes slender, terete, not flattened at the base. Thorax robust; epinotum like that of the female. Petiole very low and thick, its upper border transverse, blunt, sometimes with a broad but shallow excision.