

side, separated by a rather deep notch or sinuosity from the lateral corner of the sclerite. Antennal scapes slender at the base, neither flattened nor dilated, enlarged towards the tip. Thorax long and slender, low in profile and regularly arched above; epinotum sloping, its base nearly twice as long as the declivity. Petiole rather high and narrow, with feebly convex anterior and posterior surfaces and blunt border. Legs long; middle and hind tibiae somewhat flattened, triangular in cross-section, grooved on their anterior surfaces.

Shining throughout, head more opaque behind; mandibles coarsely striatopunctate; head densely shagreened and covered with sparse punctures or foveolae, which are large and elongate on the cheeks, clypeus and front, small and round on the sides. Thorax and gaster very finely and superficially shagreened.

Pilosity yellow, resembling that of *vicinus* but more abundant; mandibles, clypeus, cheeks and sides of head with short, erect hairs; antennal scapes with numerous short, stiff hairs arising from coarse punctures; hairs on the clypeal border short and inconspicuous. Legs with very short, scattered and oblique hairs; flexor surfaces of middle and hind tibiae without rows of bristles. Pubescence very feebly developed, especially on the thorax and gaster, where it is very short and scattered, somewhat longer and more conspicuous on the posterior portion of the head.

Mandibles and head dark reddish brown or black, clypeus and front usually paler. Antennal scapes dark brown, yellow at the extreme base; funiculi yellow, first joint brown. Thorax clay yellow, sometimes brownish on the pro- and mesonotum. Petiole and legs yellow, tarsi and tibiae sometimes brownish or reddish. Gaster dark brown, posterior borders of segments and base of first segment clay-yellow.

Worker minor. Length, 8-10 mm.

Head much as in *vicinus*, longer than broad, with parallel sides and rounded posterior border. Clypeus like that of the worker major. Antennae long and slender. Thorax narrow. Petiole very blunt, almost conical. Legs long and slender.

In sculpture and pilosity very similar to the worker major, even to the foveolae on the head and the short, erect hairs on the antennal scapes and sides and front of head. Color also similar, but the head is pale brown, the clypeus, cheeks and front yellow and the yellow at the base of the gaster is more extensive, sometimes embracing the whole of the first and much of the second segment.

Female. Length, 14 mm.

Resembling the worker major in sculpture, pilosity and color. Base of epinotum much longer in proportion to the declivity than in *vicinus*. Petiole broader, with more acute border. Wings long (13 mm.), strongly suffused with yellow; veins and stigma brownish yellow.

Described from numerous workers taken by Mr. C. R. Biederman from two large colonies nesting under stones at Palmerlee, Arizona, (5000 and 6000 ft.) and a single female taken by Dr. H. Skinner in the Huachuca Mts. of the same territory.⁵

⁵ I have taken this species in Hunter's Canyon in the same mountains.