

gaster, the lower pleuræ, the petiole, legs and funiculi dark brown. The clypeus, mandibles and scapes are black.

#### 8. *C. maculatus maccooki* Forel

*C. sylvaticus* stirps *maccooki* FOREL, Bull. Soc. Vaud. Sci. Nat., (2) XVI, P. 81, p. 69, ♂ ♀ ♂, 1879; *Ibid.*, (2) XX, P. 91, p. 347, 1884.

*C. maccooki* DALLA TORRE, Catalog. Hymen., VII, p. 241, 1893.

*C. maculatus* subsp. *maccooki* EMERY, Zool. Jahrb. Abth. f. Syst., VII, p. 672, Taf. XXII, Fig. 29, ♂, 1893.

*Worker major.* Length, 10–13 mm.; head, 3.2 x 3 mm.; scape, 2.7 mm.; hind tibia, 3.6 mm.

In structure closely resembling *C. vicinus*, but the antennal scapes are more thickened at their tips, and their bases are not only flattened but dilated to form a small but distinct, rounded lobe on the outer side. Mandibles 5- to 6-toothed. Base and declivity of epinotum subequal. Middle and hind tibiæ elliptical in cross-section, not sulcate.

Sculpture of body as in the var. *nitidiventris*, the sides of the head covered with punctures or small foveolæ as in that form.

Pilosity as in *vicinus*, but pubescence much less developed, being as short and inconspicuous as in *nitidiventris*. There are no hairs on the cheeks. Middle and hind tibiæ with bristly flexor surfaces.

Head, cheeks, clypeus, mandibles and antennæ deep reddish brown or ferruginous; front and vertex black, mouthparts yellowish. Thorax, legs, petiole and gaster sordid light brown or brownish yellow, the gaster usually more or less dark brown at the tip and often transversely banded with fuscous on the more anterior segments, rarely black throughout.

*Worker minor.* Length, 6–8 mm.

Resembling the worker major in sculpture, pilosity and color, but the head is more shining. The lobular dilation at the base of the antennal scape is small but perceptible.

*Female.* Length, 12–14 mm.

Resembling the female of *nitidiventris* in sculpture and pilosity; color like that of the major worker, but the mesonotum, scutellum and metanotum are dark brown, the pronotum more or less infuscated. In some specimens the whole gaster is brownish yellow and lighter than the pleuræ and legs; in others it is dark brown at the tip and obscurely transversely banded with brown more anteriorly. Wings suffused with brownish yellow; veins yellow, stigma brownish.

*Male.* Length, 9 mm.

Very similar to the male of *vicinus* and its varieties. The antennal scapes are flattened, dilated and lobulate at the base.

The types of this subspecies came from the Island of Guadalupe, about 200 miles off the west coast of Lower California. I have seen numerous