

of the face, very thinly clothed with hair. Thorax reddish-yellow; pectus black; pile of the same colour, not abundant, on the posterior part of the mesonotum more or less intermixed with black; just in front of the scutellum, in the middle, a short row of small black bristles. Scutellum a little lighter than the thorax, subtranslucent; pile chiefly black; margin without bristles. Abdomen large, broad, yellow and red; the posterior part of the second, third, and fourth segments more or less black, the black greatest in extent on the third segment; anterior angles of the segments with some yellowish pile, but the dorsum is almost wholly clothed with very short recumbent black bristly hairs. Venter black posteriorly and in the middle in front. Legs almost uniformly yellowish-red, the coxæ black. Wings hyaline, brownish-yellow along the costa and at the base; the cross-veins of the middle clouded with black.

Length 16-19 millim.

Hab. UNITED STATES, Arizona².—MEXICO^{1 2}, Temax in Northern Yucatan (*Gaumer*), Atoyac in Vera Cruz (*Schumann*).

Six specimens, including both sexes.

This species is mentioned in my Synopsis (p. 146) as perhaps being the same as *V. (Temnocera) megacephala*, Loew, but I am fully satisfied that this cannot be the case. Apart from the size and other striking differences, the species has neither of the characters of *Temnocera*. In the two northern specimens, which are also somewhat larger, the mesonotum shows indications of brown stripes, wholly wanting in the others. The species is remarkable for the very large tabanoid head of the male, its very small antennæ, and large size.

3. *Volucella isabellina*.

Volucella isabellina, Willist. Synopsis N.-Am. Syrphidæ, p. 140¹.

Hab. UNITED STATES, Arizona¹.—MEXICO, Northern Sonora (*Morrison*).

A single specimen from Sonora agrees well with the description, but is somewhat smaller than the size there given.

4. *Volucella quadrata*, sp. n., ♀. (Tab. I. figg. 12, ♀; 12 *a*, head; 12 *b*, antenna.)

Allied to *V. decora*, *V. castanea*, *V. lata*, &c. Head light yellow, a brown band at the upper part of the front, and a similarly coloured stripe on the cheeks; front broad. Face in profile gently receding, forming a long, moderate convexity, not tuberculate or concave, produced downward but little. Pile of the front blackish, that of the face light yellow, short. Proboscis black, short. Antennæ very small, red; third joint gently widened at the base, and briefly emarginate before the tip; arista thinly plumose. Mesonotum dark brown, with two faint pollinose stripes in front; the lateral margins, and a large quadrate spot behind, light yellow; pile moderately abundant, yellow. Pleuræ black, a large light yellow spot on the mesopleuræ, covered with dense yellow pile. Scutellum translucent reddish-yellow, without bristles. Abdomen yellow and red, with the posterior part of the segments black; covered with short recumbent black hair. Legs brown or blackish-brown, the knees and the base of tibiæ somewhat lighter. Wings nearly as in *V. esuriens*; a dark brown subquadrate spot at the middle in front, hyaline beyond, and brownish on the basal part.

Length 14 millim.

Hab. MEXICO, Chilpancingo in Guerrero (*H. H. Smith*).

One specimen.