

Eyes glabrous.

Abdomen with a double spot of a lighter colour on dark ground on the second segment.

Segments 3-5 of the abdomen red 4. *relicta*, sp. n.

Segments 3-5 of the abdomen not red.

Front femora and tibiæ red 5. *coarctata*, Macq.

Front femora and tibiæ black 6. *illucens*, Linn.

Abdomen without the double spot of a lighter colour on the second segment.

Wings unicolorous, yellowish 7. *formica*, sp. n.

Wings darker at the apex 8. *ptero-causta*, sp. n.

1. *Hermetia aurata*.

Hermetia aurata, Bellardi, Saggio &c. i. p. 27, t. 1. f. 8¹.

Hermetia chrysopila, Loew, Centur. x. p. 11.

Hab. NORTH AMERICA, Texas.—MEXICO, Northern Sonora (*Morrison*), Morelia (*de Saussure*¹).

In the single specimen from Sonora the first two abdominal segments show only traces of golden pile; on the second segment a narrow cross-band of such pile becomes visible near the anterior margin in an oblique light only; the third segment has a similar cross-band, and its posterior portion is densely clothed with golden pile, but the interval is black. Instead of "abdomen præter segmentorum singulorum angulos *posticos*," I would read "*anticos*" in Loew's description: with this alteration I have but little hesitation in referring our specimen to *H. chrysopila* (= *H. aurata*, Bell.). Both Bellardi and Loew have omitted to mention that the eyes of this species are densely hairy: revived on wet sand they showed, on bluish-green ground, two deeply indented zigzag purplish lines running from top to bottom, and between the two a stripe of the same colour, expanded in the middle, and bearing an eye-like blue spot on the expansion. The types in Prof. Bellardi's collection are larger, and have more golden pile on the second segment; nevertheless I believe them to be the same species.

2. *Hermetia comstocki*. (Tab. I. fig. 3.)

Hermetia comstocki, Willist. Canad. Entom. 1885, p. 125.

Eyes pubescent; wings brown, with a longitudinal hyaline cuneiform stripe, which begins in the third posterior cell, and runs towards the anal angle, where it becomes much broader; thorax and abdomen aureo-tomentose.

Length 10-14 millim.

Hab. NORTH AMERICA, Arizona (*Comstock*).—MEXICO, Northern Sonora (*Morrison*).

Face, front, and vertex brownish-red, with brownish spots, sometimes altogether brown, with some reddish spots; face of a purer yellow in the middle; a narrow border of yellowish-silvery hairs along the eyes; ocellar tubercle brown; occiput black; first two joints of the antennæ, and a portion of the third, yellowish-red, the rest black.