

rufous at the base, the extreme tip white, the rest black ; the distal half of the third joint, instead of having the usual lamelliform shape, shows its vane-like, feathery structure more distinctly here than in the other species, and is somewhat curled up at the end. Thorax black, moderately shining, with microscopic punctures and pile ; the following design on the mesonotum is formed by golden-yellow hairs—a border along the anterior end, from one humerus to the other, with a slight interruption in the middle ; a longitudinal line starts from that interruption and does not reach beyond the middle of the thorax ; a line on each side, along the mesothoracic suture, not reaching the central longitudinal line ; and a short oblique line in each of the hind corners. The convex portion of the metanotum has a transverse golden fringe ; a similar, but paler and less dense, fringe along the mesopleural suture ; the hairs on the sternum silvery. Abdomen comparatively short and broad, rather convex ; black, subopaque, its surface microscopically shagreened ; pubescence short, rather dense, in a certain light golden ; a narrow yellowish-brown border on each side, of equal breadth, reaching from the second segment to the end of the fifth ; a narrow, transverse, pale yellow, pellucid spot on the incisure between the first and second segments, encroaching on both (this spot has a fringe of golden hairs upon it, and on the ventral side occupies the greater part of both segments). Legs brownish-black ; tarsi yellowish, the tips brown. Wings infuscated along the costa, the brown being bounded by the fifth vein before the discal cell, and by the third vein beyond it ; the apical portion and the posterior margin greyish, but the anal cell, the anterior portion of the auxiliary and spurious cells, and the alula are hyaline ; venation normal.

A single specimen ; sex doubtful.

This species differs from its congeners by its stouter appearance ; the thorax is shorter and broader ; the scutellum shorter and much less triangular ; the abdomen broad in the middle, attenuated at both ends, convex, comparatively short ; the antennal lamella shows its feathery structure more distinctly here than in the other species ; the eyes are densely pubescent. At the same time the whole organization is that of a *Hermetia* : the structure of the head, the frontal bump, the facial, beak-like elongation, and the coloration of the front belong to that genus. The coloration of the eyes is very like that of the typical *H. illucens*.

#### 4. *Hermetia relictæ*, sp. n., ♀ .

Black, with a slight greenish metallic reflection ; abdomen with segments 3-5, and the posterior margin of the second, ferruginous-red, the latter with two reddish-yellow pellucid spots on black ground ; wings uniformly brown ; antennæ black, the extreme tip of the style white ; tibiæ and tarsi yellowish-white.

Length about 15 millim.

*Hab.* PANAMA, Bugaba 800 to 1500 feet (*Champion*).

Head black, with a strong bluish-green metallic reflection ; the bump below the ocelli pure black ; the convex middle portion of the face, between the base of the