

somewhat reddish; second joint on the upper part, close to the end, with a rather long bristle; third joint ovate, a little shorter than the second; arista tapering towards the end. Proboscis shining black, with a brownish-yellow, hairy tip; palpi pale rufous, filiform, with black pubescence. Thorax with cinereous tomentum, which on the front side is clearer and shows some traces of blackish stripes; scutellum brownish-yellow; the thorax bears a black pile and many bristles, these latter on the sides of the thorax and at the hind margin of the scutellum being longer and stouter. Abdomen convex, yellow, somewhat transparent, with a short black pile, which, however, does not obscure the ground-colour; first segment at the base, under the scutellum, black; upon the following segments a faint dorsal rufous stripe; fourth segment shining black, with a narrow dorsal stripe and the extremity rufous; at the hind margin of the first three segments are the following macrochaetae—on the first segment one on each side, on the second four at the dorsal part and two on each side, on the third a contiguous row; the fourth segment is on its whole surface, with the exception of the front border, densely beset with macrochaetae; venter also with macrochaetae in the middle. Legs black, with black pile; tibiae piceous, the hind pair somewhat reddish; coxae with many bristles; foot-claws black, the pulvilli pale yellow, in the male elongated and surrounded by black hairs; in the female the front tarsi a little dilated. Tegulae and base of the wings brownish-yellow, the wings for the rest greyish; small cross-vein placed on the middle of the discal cell; apical and posterior cross-veins oblique and curved.

*Hab.* MEXICO, Ciudad in Durango 8100 feet (*Forrer*).

A male and four female specimens.

### 3. *Echinomyia analis*. (Tab. II. fig. 12 *a*, head in profile.)

*Tachina analis*, Fabr. Syst. Antl. p. 311. 11; Wiedem. Aussereur. zweifl. Ins. ii. p. 288. 13<sup>1</sup>.

*Echinomyia analis*, Schin. Reise d. Novara, Zool. iii., Dipt. p. 331. 171<sup>2</sup>.

*Hab.* MEXICO, Presidio (*Forrer*); NICARAGUA, Chontales (*Janson*); COSTA RICA, Volcan de Irazu 6000 to 7000 feet (*Rogers*).—SOUTH AMERICA<sup>2</sup>, Brazil<sup>1</sup>.

Four male and three female specimens.

### 4. *Echinomyia nigro-calyptrata*, sp. n., ♂.

Black; head yellowish; basal joints of the antennae rufous; palpi ochraceous; front portion of the thorax with some grey tomentum and black stripes; tegulae blackish; wings dark grey.

Length 14 millim.

Head sericeous, pale yellow; front partly cinereous; frontal band rufous, black behind, bordered with yellowish hairs; frontal bristles descending in a curved row, to the number of three, beneath the root of the antennae; cheeks without bristles; vibrissae accompanied by some shorter bristles; beard and pilosity of the occiput yellowish. Basal joints of the antennae rufous; second joint on the upper part with short bristles; third joint black, shorter than the second, very convex on the front side. Proboscis shining black; palpi ochraceous, thickened towards the end, with short black hairs. Thorax and scutellum black, with a slight bluish tinge; thoracic dorsum before the transverse suture with some grey tomentum and several black stripes; pleurae cinereous, with yellowish pile. Abdomen unicolorous black, with black hairs; macrochaetae rather strong—two, dorsal, on the hind margin of the second segment, a row on the hind margin of the third segment, and several, irregularly placed, on the fourth segment. Legs black, outside of the front femora greyish; the legs with many bristles, those of the front femora and tibiae regularly ranged, those of the outside of the middle tibiae long and robust; foot-claws and pulvilli long; the claws black with a somewhat rufous base, the pulvilli reddish-yellow. Tegulae blackish. Wings dark grey; small cross-vein on the middle of the discal cell; apical and posterior cross-veins oblique and curved.

*Hab.* MEXICO, Medellin near Vera Cruz (*H. H. Smith*).

A single male specimen, captured in January 1888.

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