mented longitudinal suture; mesopleura separated from the pteropleura by the membranous mesopleural suture; meso-, ptero-, and metapleura united ventrally, with only a slight indication of a pigmented suture that extends dorsally from the mesocoxal cavity. Sternopleura much broader than long, pleurotrochantines broader than long.

Wings reduced to oval pads. All legs stout and long, of about equal size; femora with long, strong setae on dorsal surface and apically on sides; sides and ventral surface of femora with very short, fine setae. Tibiae with dense, fine setae that are longer and less recumbent on the outer side than on the inner; no long, erect setae intermingled.

Abdomen of female sacciform (male unknown); membranous portion clothed with dense, very long, strong setae above and with extremely fine, short, dense setae below; apex with a terminal cone and two ventral, oval sclerotized plates.

Remarks.—The reduced wings and general structure of the thorax in Joblingia recall the situation found in some of the species of the genus Aspidoptera (phyllostomatis, clovisi, minuta); however, we feel that the similarity of thoracic structure is the result of a convergent development correlated with an independent reduction of wings and that Joblingia is actually more closely related to the generalized Trichobius species, as indicated by head structure. In all of the species of Aspidoptera, the head is at least somewhat flattened and divided into distinct, plate-like, sclerotized subregions and fits rather closely to the thorax; the palps have a tendency toward a vertical position (approaching the generalized Streblinae); the theca is broad; and the legs are relatively short.

The Streblidae seem to be actively speciating and undergoing numerous adaptations to their parasitic mode of life. As a result, the genera are sometimes difficult to define. For example, within the genus *Trichobius*, the head structure and the co-adaptation of the head and thorax range from the generalized type of the *major-corynorhini-hirsutulus* section to the specialized development of *perspicillatus*; in *perspicillatus* this structure approaches the condition found in the generalized Streblinae.

## Joblingia schmidti sp. nov. Figures 25–27.

Type from Chocoyos, Chimaltenango, Guatemala. Female. Collected February 6, 1934, by F. J. W. Schmidt. Host: Myotis nigricans nigricans Wied.

Description.—For the greater part of their extent, the laterovertices are separated from the somewhat elevated occipital region only by a vague, non-membranous, transverse groove, which intergrades, on each side, into a membranous strip that is a dorsal continuation of the membranous area that separates the laterovertex from the gena; along the midline, the latero-vertices are



FIG. 27. Joblingia schmidti gen. et sp. nov. Dorsal view of head and thorax, showing chaetotaxy.

separated from each other (as are the occipital subregions to a lesser extent) by a non-membranous longitudinal groove. Eyes eight- or nine-faceted, the facets indistinct. Genae and postgenae with dense, rather long setae. Theca as in figure 26, c.

Transverse mesonotal suture broadly interrupted at middle, not united with the median suture. Prescutum anteriorly with long, rather uniform setae (those of the antero-medial area shorter) that become longer posteriorly and on the scutum. Wings with six

longitudinal veins; crossveins apparently variable in number and position, not identical in both wings of the type.

Long setae of dorsum of abdomen shorter laterally and anteriorly, absent in a longitudinal area along the median line on apical two-thirds; short setae of ventral surface of abdomen very fine and nearly transparent. First sternite small, well sclerotized, concealed in the membranous fold between the thorax and the second sternite; second sternite concave on each side of the median setose area to accommodate the hind coxae. Ventral plates at apex of abdomen feebly sclerotized.

Measurements.—Length of body (head included) 5 mm.; length of wings 1.2 mm.; length of hind legs (femur and tibia) 4.1 mm.

Remarks.—The setae are of a rather light honey-yellow color, with the exception of the long, dorsal, abdominal setae, which have a reddish tinge; the short, ventral, abdominal setae are so fine and transparent as to be almost invisible for the greater part of their length, except under unusually favorable lighting.

This species is named in honor of the collector, Franklin J. W. Schmidt, who obtained many interesting ectoparasites of mammals on the Guatemala expedition.

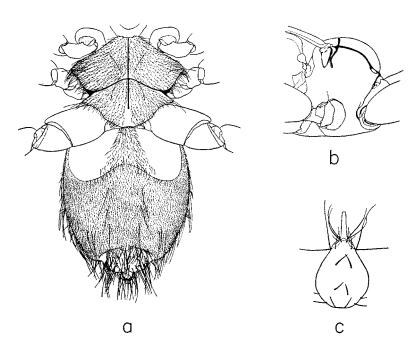


Fig. 26. Joblingia schmidti gen. et sp. nov.: a, under side of thorax and abdomen, chaetotaxy of legs omitted; b, lateral view of thorax, chaetotaxy omitted; c, labium.

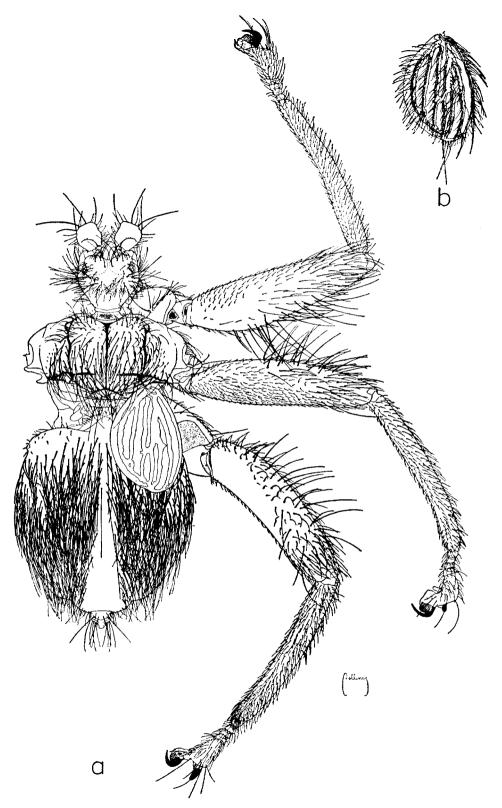


Fig. 25. Joblingia schmidti gen. et sp. nov.: a, dorsal view; b, right wing, showing chaetotaxy.