

THE PAN-PACIFIC ENTOMOLOGIST



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A NEW SPECIES OF ASTATA FROM SOUTHERN ARIZONA

(Hymenoptera: Sphecidae)

F. D. PARKER

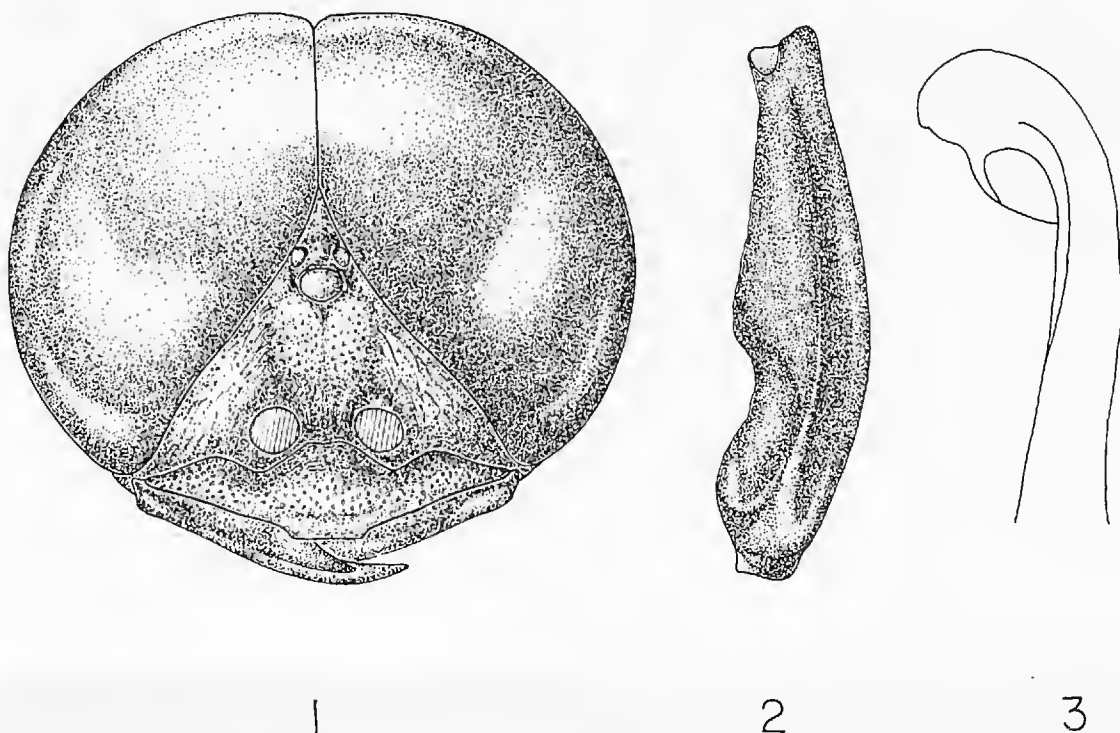
University of California, Davis

Since my previous studies on *Astata* (Parker, 1962. Ann. Ent. Soc. Amer. 55(6):643-659) a new species has been collected in southern Arizona. In order to make information on the genus more complete, the following description is published at this time.

***Astata femorata* Parker, new species**

(Figs. 1-3)

Male.—Black; posteriorly on tergite I, all of tergite II, basally on tergite III, red; wings hyaline. Pubescence silvery-white, that of sternites III-V light tan, medial, brush-like, recumbent, and projecting posteriorly. Punctuation on head, pleura reticulate, becoming faintly striate posteriorly on pleura; scutum entirely pitted; scutellum pitted except for shiny summit, postscutellum shagreened; dorsal propodeal surface moderately, evenly reticulate, reticules radiating laterally from median carina; sides of propodeum heavily reticulate dorsally, fading to striae ventrally; tergites finely punctate, that of sternites coarse; mesosternum shiny, evenly punctured. Flagellomeres IV-VIII with double tyloides, the anterior one larger; intercellular area swollen; tangential line between compound eyes equal to length of flagellomeres V-VII taken together; median clypeal lobe truncate (Fig. 1),



EXPLANATION OF FIGURES

Figs. 1-3, *Astata femorata* Parker: 1, head. 2, hind femur. 3, apical portion of aedeagus (lateral view).

slightly produced, apically as wide as length of fourth segment of maxillary palpus; midcoxa with a small tubercle on ventral surface; ventral margin of hind femur deeply incised (Fig. 2), depressed basally, width of incised area slightly longer than the length of second hind tarsal segment; sternite II sharply humped medially; sternites III-VI slightly depressed medially; aedeagus figured (Fig. 3). Body length 8.7 mm, wing length 6.2 mm.

Female.—unknown.

Holotype male:—PEÑA BLANCA, SANTA CRUZ COUNTY, ARIZONA, VIII-17-61, Werner, Nutting. Type deposited in collection of the California Academy of Sciences.

In my key to the North America species this runs to *A. bakeri* Parker. It is easily distinguished from *bakeri* by its larger compound eyes and incised hind femora. In all probability it is a Mexican species which only occasionally enters the United States.

TWO NEW SPECIES OF CHYPHOTES FROM SOUTHWESTERN UNITED STATES¹

(Hymenoptera: Mutillidae)

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The two species described below have come to my attention while working over the mutillid collections of the University of Arizona.

Chyphotes minimus Mickel, new species

Male.—Body pale testaceous, antennae and legs stramineous, ocellar area infuscated; third abdominal tergum castaneous, darker than remainder of abdomen; head almost impunctate, with a few, small, scattered punctures; mandibles slender, dorsal carina weakly developed, not wider medially than elsewhere; clypeus convex, distal margin lying above dorsal edge of mandibles; front with a deep pit anterior to anterior ocellus, a faint depressed line extending from pit to antennal tubercles; ocellar area distinctly elevated; head triangular behind eyes; pronotum dull, with scattered, setigerous punctures, except a broad posterior margin glabrous, impunctate; sides of pronotum faintly rugoso-reticulate; propleura dull, with a cluster of setigerous punctures at ventro-lateral angle adjacent to coxae; mesonotum dull, faintly granulate, with scattered setigerous punctures; scutellum faintly rugoso-punctate, punctures setigerous; mesopleura weakly rugoso-reticulate, with a

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