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THREE NEW SPECIES OF PINNIXA FROM THE GULF OF CALIFORNIA

BY

STEVE A. GLASSELL

Research Associate in Crustacea, San Diego Society of Natural History

The crabs here described were collected at the upper end of the Gulf of California, near the village of San Felipe, in Lower California, Mexico, by the author. Fuller descriptions and plates of the following species will appear in a forthcoming partial revision of the genus *Pinnixa* by the writer.

FAMILY PINNOTHERIDAE

Pinnixa abbotti, sp. nov.

Type.—Female, San Diego Society of Natural History, Cat. No. 208; San Felipe, Lower California, June 10, 1933. Allied to *P. floridana*.¹ Carapace a little wider than twice the length. Antero-lateral margin rounded, marked with a distinct punctate ridge, extending from the cervical groove and meeting the concave postero-lateral margin at an acute angle. Entire carapace coarsely punctate; pubescent near outer angles; a transverse groove between gastro-cardiac regions; a median sulcus. Front truncate, slightly concave, entire. Mesogastric region depressed. Chelipeds weak, hairy, pubescent; carpus punctate; chela tapering distally; inside of hand smooth; fingers feebly denticulate, nearly horizontal, not gaping, tips hooked. Length of carapace 2.95, width 6.5 mm.

Pinnixa fusca, sp. nov.

Type.—Female, San Diego Society of Natural History, Cat. No. 209; San Felipe, Lower California, May 29, 1934. Allied to *P. longipes*.² Carapace slightly

¹ Bull. 97, U. S. Nat. Mus., 1918, pl. 30, figs. 4-7.

² Proc. Calif. Acad. Sci., ser. 2, vol. 4, 1894, p. 573, pl. 20, figs. 19-20.

more than three times the length, and rounding down to margins, smooth; regions poorly defined. Front truncate, slightly convex, not extending beyond carapace; posterior margin concave. Chelipeds equal; upper distal end of merus extends over carpus; carpus and hands smooth; hands rounded, tapering distally; fingers slightly gaping, one large central tooth; pollex slightly deflexed, tip hooked. First and second ambulatory legs, slight, third and fourth, heavy; fourth reaches nearly to middle of propodus of third; dactyls of first and second legs long and slim, curved, third and fourth, long and heavy, curved at tip, upper crest of tip of third dactyl, tri-dentate, fourth smooth. Abdomen covers sternum. Length of carapace 3.7, width 11.5 mm.

***Pinnixa felipensis*, sp. nov.**

Type.—Female, San Diego Society of Natural History, Cat. No. 210; San Felipe, Lower California, June 1, 1934. Carapace slightly more than $2\frac{1}{2}$ times the length, and rounding down to margins in front, smooth, depressed in central portions; regions defined; an unbroken, straight, transverse cardiac ridge, extending across the carapace; front very broadly triangular, concave toward orbits; posterior margin straight. Chelipeds unequal, dissimilar; merus long, increasing in breadth with length, carpus narrow, long, overhanging the manus, smooth; hands crested, wide, smooth; pollex of larger hand, short, horizontal, thick; of smaller hand, longer, lighter and pointed; fingers, greatly curved, gaping, a tuft of dense pubescence in the gape. First and second ambulatory legs, slight, dactyls long, tapering, bi-curved; dactyls of third and fourth legs, long, lanceolate, straight; dactyl of fourth leg reaches carpus of third leg. Abdomen nearly covers sternum. Length of carapace 3.2, width 8.3 mm.