

length beyond the antennal peduncle, a few hairs are present on their upper surface; the ophthalmic scales are of small size and obscurely bidentate. The antennal acicle extends to the middle of the last joint of the peduncle, its surface is pubescent, and it is armed with two spines on the outer border and one or two on the inner; the external prolongation of the second joint is short and its apex bidentate; the flagellum is nearly as long as the body and but slightly ciliated.

The chelipedes are similar in appearance and subequal in size, with their terminal joints slightly pubescent. The merus has a circular red patch of large size on both its inner and outer surfaces towards the distal end, the external surface is also slightly tuberculate, and the inner and distal margin inferiorly bears a few spinules; the carpus is of small size, not equalling the dactylus in length, its upper surface, which is somewhat narrow, is covered with scattered spiniform tubercles; the upper surface of the propodus is armed in a similar way, many of the tubercles having corneous tips, and a specially prominent row is found on the inner margin; the fingers are more than half the total length of the propodus, and armed in the same manner as the last joint, their opposed edges are provided with small, regular, pearly teeth. The ambulatory limbs are moderately pubescent, and the anterior borders of the carpal and propodal joints are slightly spiny; the dactyli are slightly more than one and a half times the length of the propodi, and both their surfaces and margins are clothed with long stiff hairs, the terminal horny claws also are well developed. The penultimate pair of legs are moderately pubescent, but the last pair are almost smooth. The merus of the external maxillipedes possesses a few minute spinules on the internal border.

The penultimate abdominal segment is traversed by a deep transverse impression, and a faint longitudinal groove is also present, the ultimate segment is four-lobed, two of the lobes being produced.

The above description is taken from an adult male which gives the following measurements:—Length of body 43 mm., of carapace 16 mm., of chelipede 30 mm., of third right leg 42 mm., of ocular peduncle 10 mm.

This species is distinguished by the remarkable development of the ocular peduncles.

*Habitat*.—Station 122, off Pernambuco; depth, 350 fathoms; bottom, red mud. Two specimens (one of which is immature), in shells of *Cassidaria* (*Sconsia*) *striata*, Lam.

*Paguristes hians*, n. sp. (Pl. VIII. fig. 4).

*Characters*.—The anterior portion of the carapace is ovate, and slightly tuberculate towards the margins and anterior border, the projections on the frontal margin are subacute and but slightly prominent, the two lateral being more strongly marked than the median; the posterior portion is membranous and shows very slight traces of calcification towards its centre.