

*Telson* shaped like that of *Atyloides australis*, but not longer than the peduncle of the third uropods.

*Length*.—The specimen, in the position figured, exclusive of the antennæ, measured something less than one-fifth of an inch.

*Locality*.—From the screw of the Challenger on December 18, 1873, a date which corresponds with Station 142, off Cape Agulhas; lat.  $35^{\circ} 4' S.$ , long.  $18^{\circ} 37' E.$

*Remark*.—The specific name refers to the great likeness between this species and *Atyloides australis*.

*Atyloides serraticauda*, n. sp. (Pl. LXXVIII.).

*Rostrum* minute; first and second segments of the pleon with the postero-lateral angles forming a minute tooth; the second having about the middle of the so-called epimera or immovable side-plates a row of eight spines, the largest lowest, with an anterior row of four; third segment of the pleon having the postero-lateral angle toothed, with a rather larger tooth on the hind margin immediately above that at the angle; the lower margin having in its anterior half several submarginal spines singly and in groups. Surface hairy.

*Eyes* large, reniform, retaining colour in spirits, situated near the lateral lobes of the head, and with only a narrow space between them at the top of it.

*Upper Antennæ*.—First joint more than twice as long as broad, longer than the second and third together, its upper margin longer than the lower; second joint twice the length of the third joint, which is small, not twice as long as broad; flagellum with sixty-two joints remaining in the specimen examined, about five times as long as the peduncle; the accessory flagellum rudimentary, consisting of one conical joint, about half the length of the first joint of the primary flagellum, tipped with two or three small setæ, and having a small hair on the margin.

*Lower Antennæ*.—First three joints short, the first very little expanded, the gland-cone decurrent, and, like the first and third joints, with short setæ at the apex; the fourth joint equal in length to the preceding three united, a little shorter than the fifth, its upper margin produced in a small rounded projection; the fifth joint having like the fourth several groups of stiff setæ on the under or inner side; the flagellum of thirty-four joints, of which the first equals between three and four of those which follow it.

*Upper Lip*.—The outer plate rather narrowly rounded at the distal end, the central part of this margin closely set with microscopic teeth or spinules.

*Mandibles*.—Cutting plate with seven or eight teeth; secondary plate on left mandible widened distally, cut into five teeth; on the right mandible slight in structure,