

On the morning of the 4th of March we sounded in lat. $21^{\circ} 38' N.$, long. $44^{\circ} 39' W.$, in 1900 fathoms, with No. 1 line, the "Hydra" and 3 cwt., the slip water-bottle, and a thermometer. The bottom was gray ooze, as on the day before, and the bottom temperature $1^{\circ} \cdot 9 C.$ The dredge was put over at 8 A.M. It was intended to attach a "Hydra" tube with disengaging weight a little below the bottom of the dredge: the weight slipped, however, close to the surface, and the dredge was lowered in the ordinary way with 1 cwt. 500 fathoms in advance. The dredge came up about four o'clock with a small quantity of ooze containing some red clay, a large proportion of calcareous débris, and many foraminifera, chiefly *Orbulina* and *Pulvinulina*.

Warped in the hempen tangles there was a fine specimen of a handsome decapod crustacean, having all the principal characters of the family Astacidæ, but different from the typical decapods in the total absence of eye-stalks and eyes. Dr. von Willemoes-Suhm gave this interesting deep-sea form such a preliminary examination as was possible in the absence of books of reference. I abstract from his notes. *Willemoesia** *leptodactyla*, n.g. and sp. The single specimen procured (Fig. 42), which is a male, is 120 mm. in total length and 33 mm. in width across the base of the cephalo-thorax, which is 60 mm. in length. Three rows of spines, one in the middle line and one on each side, run along the cephalo-thorax, which is divided by a transverse sulcus into an anterior and a posterior part, the former occupied by a central gastric and lateral hepatic regions, and the latter by a central cardiac and lateral branchial regions.

* In my first notice of its capture, in a letter published in *Nature* in May, 1873, this crustacean was described by Dr. von Willemoes-Suhm under the name of *Deidamia leptodactyla*. In *Nature* of the 19th of October, 1873, Mr. Grote, one of the curators of the museum in Buffalo, U. S., pointed out that *Deidamia* was already occupied by a genus of Sphingidæ, and proposed for the crustacean the generic name *Willemoesia*, which is accordingly adopted.