

*Cristellaria gemmata* has been observed in sands dredged at three Pacific Stations, namely:—off Kandavu, Fiji Islands, 210 fathoms; off Raine Island, Torres Strait, 155 fathoms; and off the Philippines, 95 fathoms.

*Cristellaria aculeata*, d'Orbigny (Pl. LXXI. figs. 4, 5).

"*Lituus innominatus*," Soldani, 1789, Testaceographia, vol. i., pt. 1, p. 64, pl. lvii. figs. T. t.

*Cristellaria aculeata*, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 292, No. 14.

" " Jones and Parker, 1860, Quart. Journ. Geol. Soc., vol. xvi. p. 303, No. 43.

The figure in the Testaceographia to which d'Orbigny assigned the name *Cristellaria aculeata*, is wanting in those details which under ordinary circumstances are necessary for the identification of a species. It is, however, quite evident that it is intended to represent a Cristellarian shell, the surface of which is beset with small spines, and the peripheral edge with a certain number of larger ones; indeed, there can be little doubt that the specimen from which the drawing was made was very similar to those of which figures are given herewith. The sutural lines are not represented in Soldani's illustration, but in the recent specimens they are marked by rows of rounded beads or tubercles.

*Cristellaria aculeata* has only been obtained in the living condition from two neighbouring Stations in the Danish West Indies:—off Culebra Island, 390 fathoms, and off Sombrero Island, 450 fathoms.

The habitat given by Soldani is the Subapennine formation of the vicinity of Sienna, to which d'Orbigny adds that of Coroncina. Parker and Jones report its occurrence in a Tertiary clay from near Malaga.

*Cristellaria costata*, Fichtel and Moll, sp. (Pl. LXXI. figs. 8, 9).

*Nautilus costatus*, Fichtel and Moll, 1803, Test. Micr., p. 47, pl. iv. figs. g.h.i.

*Spintherules costatus*, Montfort, 1808, Conchyl. Systém., p. 222, genre 56<sup>e</sup>.

*Lenticulina costata*, DeFrance, 1824, Dict. Sci. Nat., vol. xxxii. p. 182.—Blainville, 1825, Man. de Malacol., p. 390.

*Robulina costata*, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 289, No. 13.

" *ariminensis*, d'Orbigny, 1846, For. Foss. Vien., p. 95, pl. iv. figs. 8, 9.

*Cristellaria costata*, Parker and Jones, 1860, Ann. and Mag. Nat. Hist., ser. 3, vol. v. p. 113, No. 19.

This is a handsome and interesting species, readily distinguished by its surface-ornament of stout concentric costæ, but liable to considerable variation as to its minor characters. Fichtel and Moll's original drawings represent a shell with limbate sutures in addition to the costæ, exactly as shown in fig. 9, but the periphery is more or less carinate. A thicker non-carinate specimen, of which the septa are scarcely visible