

constantly with eight peripheral holes, and supporting a long slender spire of four rods, and usually three transverse beams; top of the spire carrying teeth. The knobbed buttons, which have three to four holes, do not always seem to be present.

*Habitat.*—Mediterranean Sea (von Marenzeller, Heller, Græffe, Ludwig).

(Mus. Holm.) Three specimens from Lesina, kindly presented by von Marenzeller. The dorsal appendages present a great resemblance to true pedicels. The ventral pedicels form three irregular longitudinal series. In the specimens at my disposal I found, among the more typically formed tables, others which have a much larger and irregularly shaped disk, pierced with more holes and provided with a longer spire. Two of the individuals have scattered, complete or incomplete buttons, while the third is more richly provided with buttons, pierced with six or more holes, and bearing several irregularly placed knobs.

*Holothuria tubulosa*, Gmelin, 1788; Tiedemann, 1816; Sars, 1857; Selenka, 1867; Marenzeller, 1874. *Mentula marina*, Plancus, 1760. *Die Zitterblase*, Bohadsch, 1776. *Fistularia tubulosa*, Lamarck, 1816. *Holothuria columnæ*, Delle Chiaje, 1823. *Holothuria maxima*, Delle Chiaje, 1823. *Holothuria pentagnæ*, Delle Chiaje, 1823.

Dorsal surface with large papillæ; ventral surface with pedicels. The small and scattered tables have the disks spinous on the margin, and the short spire terminating in about twelve teeth. The ventral perisome contains numerous thick swollen elliptic buttons, densely covered with spines, and mostly devoid of holes, but not unfrequently with from two to fourteen very minute ones; there are also to be found buttons which are more sparingly provided with spines, or rather knobs, and smaller rounded bodies with uneven surfaces and two openings. In the dorsal perisome the buttons are densely knobbed and provided with larger holes.

*Habitat.*—Mediterranean Sea (Grube, Heller, Græffe, Sars, von Marenzeller, Selenka, Ludwig, &c.), south-west coast of France (Fischer), Portinho (Greeff), Canary Islands (Greeff).

(Mus. Holm.) Several specimens from Naples, Salerno, Bay of Muggio, and Lesina. The species is easily known by its deposits. A part of the dorsal papillæ run out from rather prominent wart-like elevations; this, however, is not equally distinct in all specimens. The supporting plates of the pedicels are never smooth, as is the case in the following species.

*Holothuria stellati*, Delle Chiaje, 1823; Semper, 1868; von Marenzeller, 1874. *Sporadipus glaber*, Grube, 1840. *Holothuria tubulosa*, var. *stellati*, Lamarck, 1840. *Sporadipus stellati*, Delle Chiaje, 1841. *Holothuria glabra*, Grube, 1864.

Dorsal surface with small papillæ; ventral surface with pedicels. Deposits like those of the preceding species, excepting that the spinous elliptical buttons are absent.