

having a nearly uniform layer of innumerable minute, perforated plates, over which are scattered numerous round granules. Deposits of the sole like those in the dorsal surface, though less in quantity.

*Habitat.*—Banks of Newfoundland, George's Bank (Ayres).

According to Ayres the plates of the dorsal surface bear a strong resemblance to those in *Stercoderma unisemita*, being oval, smooth and usually pierced with four holes.

*Psolus ornatus* (*Lissothuria*), Verrill, 1867–1871.

Body elongated, depressed, with the flat lower surface broad. Anal region not very prominent. Pedicels numerous, forming six to eight rows in each longitudinal series. The soft dorsal perisome filled with minute grains, and fewer, somewhat larger, perforated ones. Round the naked part of the body below the tentacles, a ring of calcareous plates with pointed ends.

*Habitat.*—Panama (Verrill).

The species is unsatisfactorily known, and needs re-examination.

2. *Dorsal integument supported by large scales.*

*Psolus phantapus* (*Holothuria*), Strussenfeldt, 1765; Jæger, 1833. *Ascidia rustica*, Pennant, 1777. *Cuvieria phantapus*, Fleming, 1828; Düben and Koren, 1844. *Psolus lævigatus*, Ayres, 1854.

Body subcylindrical, *Ascidia*-shaped, with each extremity turned up; anal region elongatedly conical, caudiform. Sole rectangular. The lateral series of pedicels composed of two to three rows; the odd ambulacrum, at least in its middle, with only a simple row. The thick leathery dorsal integument with large granulated scales imbricating upon one another. The sole strengthened by reticulate cups and spheres.

*Habitat.*—West coast of Scandinavia from the Sound to Finmark (O. F. Müller, Danielssen and Koren, Lütken, Möbius and Bütschli, Sars, Düben and Koren, Möbius, &c.); Spitzbergen (Ljungman), Arctic Sea north from Norway (Hoffmann), Greenland (Lütken, Fabricius, Duncan and Sladen, &c.), White Sea (Jarzynsky), Iceland (Lütken), British Islands (Hodge, Dalyell, Lütken, M'Intosh, Forbes, Leslie and Herdman, Norman); east coast of North America, Banks of Newfoundland and Cape Cod (Ayres), Grand Manan (Stimpson), Chelsea Beach, Mass., Mount Desert, Eastport, Maine, Massachusetts (Verrill).

(Mus. Holm.) A great number of specimens from different localities of Scandinavia.

*Psolus complanatus*, Semper, 1868.

Body very much depressed. The lateral series of pedicels composed of four to six rows; the odd series, on the contrary, made up of two to three rows. The number of