

neck retracted, about 0·4 mm. long by 0·07 to 0·09 in diameter, cylindrical and of uniform diameter throughout, quadrangular at the orifice when the neck is retracted. Supported on a long peduncle. Surface of peduncle and lower part of cells very finely wrinkled.

Habitat.—Off Bahia, 10 to 20 fathoms, mud. On *Amathia brasiliensis* and *Amathia distans*.

Family III. CYLINDRÆCIDÆ.

Cylindræciidæ, Hincks, Brit. Mar. Polyz., p. 534.

Vesiculariadæ (pars), Bk., Alder, Hincks.

Vesiculariæ (pars), Smitt.

Character.—Zoœcia not deciduous, arising from, and apparently continuous with, the stolon or segment from which they spring. Walls earthy or argillaceous.

The Family here contains the following:—

1. *Cylindræcium*, Hincks.

(1) *Cylindræcium papuense* (Pl. VIII. fig. 2).

1. *Cylindræcium*, Hincks.

Farrella (pars), Bk.

Avenella, Hincks, Gosse (*nec* Dalyell).

Cylindræcium, Hincks, Brit. Mar. Polyz., p. 535.

Vesicularia (subg. *Avenella*, pars), Smitt.

Character.—Zoœcia uniformly cylindrical or slightly ventricose below, sometimes dilated at the base. Stolon slender, creeping, with occasional enlargements. Zoœcia wide apart or sometimes crowded.

(1) *Cylindræcium papuense*, n. sp. (Pl. VIII. fig. 2).

Character.—Zoarium a creeping adherent stolon with occasional bulbous thickenings. Zoœcia cylindrical, of uniform diameter and not dilated at the base, 1·3 mm. long by 0·1 to 0·11 mm. in diameter, springing either singly and widely apart from the stolon, or four or five together from a bulbous thickening.

Habitat.—Station 188, lat. 9° 59' S., long. 139° 42' E., 28 fathoms, green mud. Parasitic on *Amathia semispiralis*, Kirchenp.