

2. *Adeonella*, n. gen.

- (1) *Adeonella polymorpha*, n. sp. (Pl. XXI. figs. 1a, 2a, and 3).
- (2) *Adeonella platalea*, n. sp. (Pl. XXI. fig. 4).
- (3) *Adeonella intricaria*, n. sp. (Pl. XXI. fig. 2).
- (4) *Adeonella atlantica*, n. sp. (Pl. XX. fig. 7).
- (5) *Adeonella regularis*, n. sp. (Pl. XX. fig. 2).
- (6) *Adeonella distoma*, Busk.
- (7) *Adeonella distoma*, var. *imperforata*?
- (8) *Adeonella pectinata*, n. sp. (woodcut).

1. *Adeona*, Lamouroux.

*Adeona*, Lamx.; Lamk.; Kirch.; Auctt.

*Dictyopora*, Macgilliv., Nat. Hist. Vict., Dec. v. p. 37.

*Character*.—Zoarium erect, foliaceous, expanded, flabellate or lobate, fenestrate or entire, usually supported on a flexible or subflexible, chitino-calcareous, usually jointed stem, composed of radical tubes encrusted with calcareous matter, and attached by spreading radical fibres. If without a stem, generally attached to a flexible support.

1. *Adeona appendiculata*, n. sp. (Pl. XXXIII. fig. 6, woodcuts 47 and 48).

*Character*.—Zoarium light buff in colour; in the form of a simple flat circular or subcordiform expansion about 3" in diameter, supported on a solid calcareous stem (probably continued into an articulated peduncle). Fenestræ circular, nearly as wide as the interspaces. Zoœcial cells oval, convex in front, with a large deep frontal fossa surrounded with a thick, rounded, smooth border; in the fossa a large circular pore at the lower part, and a very large avicularium with a spear-shaped mandible pointing upwards and rising to the side of the orifice. Orifice irregularly elliptical, usually rendered oblique by the presence of the avicularium. A single or double row of punctures round the border of the cell, and a few sparsely distributed on the front. Oœcial cells larger, orifice semicircular with a straight lower border. Avicularian cells of two kinds, one marginal around the fenestræ, with long curved pointed mandible, and another of minute size interspaced among the zoœcia with miniature mandibles, like those on the zoœcial cells. Opercula of the zoœcial cells inapparent; of the oœcial, very indistinct.

*Habitat*.—Station 163A, off Twofold Bay, 150 fathoms, green mud.

The only other species, and with which the present can, from its habit, be confounded, is the *Adeona grisea* of Mr. Macgillivray, which may or may not be the same as the *Adeona grisea* of Lamouroux and Kirchenpauer, though the latter at any rate may be doubtful. Mr. Macgillivray's figure (*loc. cit.*, Dec. vii. pl. lxvi. fig. 1), in the general habit bears