

with moderately thick walls; it has been broken off at the bottom, so that the nature of the base cannot be determined. Height 72 mm.; greatest breadth across the mouth about 50 mm.; thickness of walls about 6 mm., thinning towards the lip. *Colour* in spirit pale yellow. *Texture* soft and very fragile. *Surface* (the specimen is so much washed that it is difficult to determine the true nature of the surface, but it seems to have been fairly smooth both inside and out). *Dermal membrane*; for the most part washed off; thin and transparent. *Oscula* small, scattered over the inside of the cup (? only). *Pores*?

*Skeleton*.—A very loose, slightly fibrous reticulation of rather slender stylole spicules, with bicapitate cylindricals (tylota) rather sparingly arranged at the surface, in irregular tufts or scattered.

*Spicules*.—(a) *Megasclera*; (1) slightly curved or straight, slender, smooth styli (Pl. XXIX. fig. 2), sharply and rather suddenly pointed at the apex; size about 0.54 by 0.015 mm.; (2) slender, smooth, straight tylota (Pl. XXIX. fig. 2a), much smaller than the styli, with well-developed oval heads often somewhat pointed at the ends, and (?) with slight traces of minute spination. Size about 0.28 by 0.0063 mm. (b) *Microsclera*; very abundant, long, hair-like raphides, very slender, and scattered through the tissues like hair in plaster; occurring both separately and in loose bundles; size about 0.35 by 0.002 mm.

Had not this species differed somewhat in spiculation, as well as in external form, from those previously described, we should scarcely have ventured to describe it as new; unfortunately there is only a single specimen in the collection; as regards spiculation the most characteristic feature is the form of the bicapitate cylindricals (tylota) (Pl. XXIX. fig. 2a); the raphides are remarkably large, though not coming up to those of *Tedania massa*.

*Locality*.—Off the south-west coast of Patagonia. One specimen.

*Tedania actiniiformis*, Ridley and Dendy (Pl. XI. figs. 2, 2a; Pl. XXIX. figs. 1, 1a).

1886. *Tedania actiniiformis*, Ridley and Dendy, Ann. and Mag. Nat. Hist., ser. 5, vol. xviii. p. 336.

Sponge (Pl. XI. fig. 2) sessile, cylindrical, shape like that of a sea-anemone (whence the specific name) attached by a narrowed base to a fragment of stone; abruptly and flatly truncated above so as to give rise to a broad oval plateau which bears four or five small oscular tubes. On the side of the sponge at a distance of about 2 mm. below the top is a circular zone of pores, about 2 mm. in breadth, running round the sponge (*vide* fig.). Height of sponge 18 mm.; greatest diameter at top 29 mm., at base 18 mm. *Colour* in spirit greyish-brown. *Texture* soft and spongy (the specimen is in bad condition). *Surface* rather uneven. *Dermal membrane* thin and transparent. *Oscula*