

2. *Amphipyloium spinosissimum*, n. sp.

Inner cortical shell lentelliptical, one and a third times as long as broad, with thorny surface and four kidney-shaped gates. Transverse girdle of the outer cortical shell very spiny, with two semi-lunar wings, with convex thorny lateral crests; each wing one and a half times as broad as the transverse girdle of the inner cortical shell, and one and a half times as long as its lateral girdle.

*Dimensions*.—Length of the lentelliptical medullary shell 0.05, breadth 0.03; length of the inner cortical shell 0.016, breadth 0.12; length of each lateral wing of the outer cortical shell 0.24, breadth 0.18.

*Habitat*.—Western Tropical Pacific, Station 225, depth 4475 fathoms.

3. *Amphipyloium tetraceros*, n. sp.

Inner cortical shell hexagonal, one and a half times as long as broad, with smooth surface and four transverse elliptical gates. Transverse girdle of the outer cortical shell smooth, with rectilinear smooth lateral crests, which are prolonged at both ends into strong conical spines (therefore four spines in the lateral plane); each wing of the same breadth as the transverse girdle of the inner cortical shell, and twice as long as its lateral girdle.

*Dimensions*.—Length of the hexagonal medullary shell 0.03, breadth 0.02; length of the inner cortical shell 0.12, breadth 0.08; length of each lateral wing of the outer cortical shell 0.24, breadth 0.08.

*Habitat*.—Northern Pacific, Station 253, depth 3125 fathoms.

4. *Amphipyloium octoceros*, n. sp.

Inner cortical shell quadrangular, one and a third times as long as broad, with thorny surface and four kidney-shaped gates. Transverse girdle of the outer cortical shell thorny, constricted at the equator, with concave thorny lateral crests, and with eight strong radial spines, opposite in pairs and lying in two crossed diagonal planes; each wing narrower than the transverse girdle of the inner cortical shell and twice as long as its lateral girdle.

*Dimensions*.—Length of the subspherical medullary shell 0.04, breadth 0.035; length of the inner cortical shell 0.14, breadth 0.11; length of each lateral wing of the outer cortical shell 0.26, breadth 0.09.

*Habitat*.—Southern Pacific, Station 295, depth 1500 fathoms.

Genus 287. *Tetrapyloium*,<sup>1</sup> Haeckel, 1881, Prodrömus, p. 464.

*Definition*.—Pylonia with trizonal lentelliptical medullary shell, surrounded by a double latticed cortical shell; inner cortical shell *Pylonium*-shaped, with three perfect crossed girdles; outer cortical shell represented by two crossed girdles, one (smaller) transverse and one (larger) lateral girdle.

<sup>1</sup> *Tetrapyloium* = Building with four gates; τέτρα, πυλώνιον.