

7. *Hexapyle polyacantha*, n. sp.

Cortical shell circular, thorny, with a circle of numerous conical radial spines in the periphery; its diameter nearly three times as great as that of the medullary shell. Three half-girdles half as broad as the three kidney-shaped gates on each side of the discoidal shell.

Dimensions.—Diameter of the cortical shell 0·11, of the medullary shell 0·04; breadth of the gates 0·04, of the bridges between them 0·02.

Habitat.—Pacific, central area, Station 271, depth 2425 fathoms.

Genus 250. *Pylodiscus*,¹ n. gen.

Definition.—Pylodiscida with *Triopyle*-shaped medullary shell, surrounded by three distal arm-chambers. Notches between the three arms closed by lattice-work and by an equatorial girdle.

The genus *Pylodiscus* differs from *Hexapyle* in the development of two convex plates of lattice-work, which close the six open gates and transform the disk into a biconvex fenestrated lens. *Pylodiscus* simulates therefore the characteristic form of *Triodiscus*; but whilst in the latter we find only three arm-joints and three simple gates, their number is doubled in the former.

1. *Pylodiscus triangularis*, n. sp. (Pl. 48, fig. 17).

Cortical shell triangular, with rounded corners, three times as broad as the triangular, *Triopyle*-shaped medullary shell. Three arms about as broad as the three egg-shaped gates between them. (Differs from *Hexapyle triangula* only by the delicate network of both triangular convex covering plates, which close the open gates.) Six larger and many smaller spines on the margin of the disk.

Dimensions.—Diameter of the disk 0·15, of the gates 0·05.

Habitat.—Pacific, central area, Station 270, depth 2925 fathoms.

2. *Pylodiscus sexangularis*, n. sp.

Cortical shell hexangular, equilateral, four times as broad as the circular, *Triopyle*-shaped medullary shell. Surface spiny. Three arms nearly of the same form and size as the three triangular gates between them. (Similar to *Hexapyle sexangularis*, but differing in the irregular loose network closing the gates.)

Dimensions.—Diameter of the disk 0·18, of the gates 0·06.

Habitat.—North Pacific, south of Japan, Station 237, surface.

¹ *Pylodiscus* = Disk with gates; πύλη, διάκος.