

1. *Pylospira tetrapyle*, n. sp.

Cortical shell with thorny surface, five times as long as the lentelliptical medullary shell. Perimeter of the lateral plane elliptical, one and a half times as long as broad. Four internal gates (as in *Tetrapyle*, between the complete lateral wings of the transverse girdle) kidney-shaped. One principal wing of the lateral girdle turns around the other in one and a half to two simple spiral turns.

*Dimensions*.—Length of the cortical shell 0·21, breadth 0·15; length of the medullary shell 0·04, breadth 0·03.

*Habitat*.—Pacific, central area, Station 268, depth 2900 fathoms.

2. *Pylospira octopyle*, n. sp. (Pl. 49, fig. 4).

Cortical shell with thorny surface, three times as long as the lentelliptical medullary shell. Perimeter of the lateral plane elliptical or nearly hexagonal, with four rounded corners (on the poles of two crossed diagonal axes), one and a third times as long as broad. Eight internal egg-shaped gates (as in *Octopyle*), between the complete lateral wings of the transverse girdle, and two axial beams in the principal axis). One single wing of the lateral girdle turns around the other in two to three simple spiral turns.

*Dimensions*.—Length of the cortical shell 0·18, breadth 0·14; length of the medullary shell 0·06, breadth 0·035.

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

Subgenus 2. *Pylospironium*, Haeckel.

*Definition*.—Spiral convolutions or turns of the cortical shell double; both wings of the lateral girdle turning around the sagittal axis.

3. *Pylospira cymbium*, n. sp.

Cortical shell with smooth surface, seven times as long as the lentelliptical medullary shell. Perimeter of the lateral plane elliptical, one and a third times as long as broad. Four internal kidney-shaped gates between the complete lateral wings of the transverse girdle (as in *Tetrapyle*). Both principal wings of the lateral girdle turn round one another in two to two and a half double spiral turns.

*Dimensions*.—Length of the cortical shell 0·22, breadth 0·17; length of the medullary shell 0·03, breadth 0·025.

*Habitat*.—Indian Ocean, Madagascar, Rabbe, surface.