two axes perpendicular one to another; central chamber *Larnacilla*-shaped (with enclosed medullary shell).

The genus *Staurotholus* differs from *Tholostaurus* in the possession of a medullary shell in the central chamber, and may be derived from this genus by its production. But it may also be derived from *Amphitholus* by apposition of two secondary opposite cupolas between the two primary cupolas. The symmetrical position of an increasing number of radial spines in the different species is remarkable (resembling *Tholostaurus* as well as *Amphitholus*).

## Subgenus 1. *Staurotholissa*, Haeckel.

*Definition.*—Surface of the shell smooth or rough, without radial spines.

### 1. *Staurotholus quadratus*, n. sp.

Surface of the cortical shell smooth. All four cupolas nearly of the same size and form; therefore principal and lateral axes equal. Pores regular, circular, with hexagonal frames, twice as broad as the bars; eight to ten on the basal semicircle of one cupola. Medullary shell square.

*Dimensions.*—Diameter of the cortical shell 0·15; pores 0·01, bars 0·005.

*Habitat.*—South Atlantic, Station 323, depth 1900 fathoms.

### 2. *Staurotholus cruciatus*, n. sp.

Surface of the cortical shell rough. The two principal cupolas somewhat larger than the two lateral cupolas; therefore the longitudinal axis longer than the transverse. Pores irregular, roundish, twice to three times as broad as the bars; twelve to sixteen in the semicircle of one cupola.

*Dimensions.*—Major axis of the shell 0·16, minor 0·13; pores 0·005 to 0·009, bars 0·003

*Habitat.*—Pacific, central area, Station 266, depth 2750 fathoms.

## Subgenus 2. *Staurotholura*, Haeckel.

*Definition.*—Surface of the shell with radial spines.

### 3. *Staurotholus tetrastylus*, n. sp. (Pl. 10, fig. 8).

The two principal cupolas smaller than the two lateral cupolas. Pores subregular, circular, three times as broad as the bars; six to eight in the semicircle of one cupola. Medullary shell elliptical. On the surface four long cylindrical radial spines; two in the principal and two in the lateral axis.

*Dimensions.*—Major axis of the cortical shell 0·15, minor 0·12; pores 0·012, bars 0·004.

*Habitat.*—South Pacific, Station 166, surface.