

one pore; the major spine somewhat longer than the diameter of the shell, the minor scarcely one-third or one-half as long.

*Dimensions*.—Diameter of the sphere 0·14, pores 0·006, bars 0·002; length of the major spine 0·16 to 0·18, of the minor 0·05 to 0·07, basal breadth 0·02.

*Habitat*.—Indian Ocean, Zanzibar, 2200 fathoms, Pullen.

#### 4. *Xiphostylus gallus*, n. sp.

Pores regular, circular, five times as broad as the bars. Twelve to sixteen pores on the half equator. Surface smooth. Polar spines very unequal; the major conical spine one and a half to three times as long as the diameter of the sphere; the minor pommel-shaped, scarcely one-third as long (length of both spines very variable).

*Dimensions*.—Diameter of the sphere 0·13, pores 0·01, bars 0·002; length of the major spine 0·2 to 0·4, of the minor 0·05 to 0·08.

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

#### 5. *Xiphostylus alauda*, n. sp. (Pl. 14, fig. 15).

*Lithomespilus alauda*, Haeckel, 1881, Prodröm. et Atlas, *loc. cit.*

Pores subregular, circular, three to four times as broad as the bars; fifteen to eighteen on the half equator. Surface a little rough. Polar spines irregularly conical or pyramidal, scarcely as long as the radius of the sphere; one spine simple, the other composed of a bunch of four or five spines united at the base.

*Dimensions*.—Diameter of the sphere 0·11, pores 0·01, bars 0·003; length of the polar spines 0·03 to 0·05, basal breadth 0·02.

*Habitat*.—Pacific, central area, Station 272, depth 2600 fathoms.

#### 6. *Xiphostylus anhinga*, Haeckel.

*Rhabdolithis pipa*, Bury, 1862, Polycystins of Barbados, pl. iii. fig. 4.

Pores subregular, circular, about the same breadth as the bars; eight to ten on the half equator. Surface smooth or a little rough. Polar spines cylindrical, very irregularly curved like S or contorted, the major three to six times as long as the diameter of the sphere, the minor scarcely one-fourth as long as the former, at the end truncated.

*Dimensions*.—Diameter of the sphere 0·07, pores and bars 0·005; length of the major polar spine 0·2 to 0·4, of the minor 0·06 to 0·09, basal breadth 0·01.

*Habitat*.—Fossil in the Barbados rocks.

### Subgenus 2. *Xiphostyletta*, Haeckel.

*Definition*.—Pores of the spherical shell regular, of nearly equal size and form; surface thorny or spiny (other than the two large polar spines).