the stem of another form, for which I propose the name *Hyocrinus Bethellianus*, of which we afterward got one or two complete specimens and several fragmentary portions, again associated with *Bathycrinus*, at Station CXLVII., lat. 46° 16′ S., long. 48° 27′ E., about 87 miles to the westward of Hog Island, one of the Crozet group. For the sake of convenience, I will give a preliminary sketch of these two new crinoidal forms together.

I described and figured in " The Depths of the Sea" (p. 452), under the name of *Bathycrinus gracilis,* a delicate little crinoid which we dredged from a depth of 2475 fathoms to the south of Cape Clear. I believe, from the structure of the stem and calyx, and from the somewhat peculiar sculpture common to both, that the first of the two forms which I have now to describe must be referred to the same genus.

In *Bathycrinus Aldrichianus* (Fig. 23), the stem in full-grown specimens is 200 to 250 mm. in length, and about 2 mm. in diameter across the enlarged articulating end of one of the joints. The largest joints of the stem have a length of about 4 mm., and they rapidly shorten toward the base of the cup. They are dice-box-shaped, and have the ends beveled off on different sides alternately, for the accommodation of masses of muscle. Toward the base of the stem a few strong jointed branches come off and form a sort of imperfect root of attachment. The cup consists of a series of basals, which are soldered together into a very small ring scarcely to be distinguished from an upper stem-joint. Alternating with these are five large triangular first radials; these are often free, but in old examples they also are frequently anchylosed into a funnel-shaped piece. The second radials are articulated to the first by a true joint with strong bands of contractile fibre; they are broad and flat, with an elevated central ridge, which is continued down upon the first radials, though in these it is not so marked; and lateral wing-like extensions, which curve up at the edges and are thus slightly hollowed out. In the third