

backward till it meets the cruralium. This ridge gives off two lateral branches from its middle portion, equally raised but narrower and pointing toward the ends of the transverse axis. These ridges form the inner boundaries of four deep muscular pits of nearly equal size. The posterior pits with a very slight additional extension backward would leave the cruralium as a narrow platform supported by the wider portion of the median ridge. The two anterior pits are a little nearer together and each shows three distinct muscular impressions separated by two very narrow and slightly raised ridges. The middle scar of each three is the largest, is subtriangular, and has its apex pointing a little inside of the well marked dental sockets; the outer pair are a little smaller, of nearly the same shape and with apex pointing very nearly toward the small, narrow cardinal process; the outer impression of the three is a little smaller still and rather rounded in outline. The pedicle valve bears a wide spondylium well raised from the valve and supported by a fine and narrow median septum which is continued anteriorly to the middle of the valve. The arrangement of the genital and pallial sinuses is shown in plate 5, figures 10, 14. The muscular areas on the spondylium are not distinctly separated but one can distinguish three tracts, a central and two outer of nearly the same area, the boundaries of which are not sharply limited. The delthyrium is bordered by a narrow raised ridge which is continued around the cruralium of the brachial valve. At the apex this well rounded border meets a straight raised ridge tangent to the curve, and just anterior to the ends of this ridge, and outside of the curved border, are two short, narrow, depressed pits usually worn off in most of the valves found.

LAMELLIBRANCHIATA

Genus *MODIOLOPSIS* Hall

Modiolopsis subquadrilateralis sp. nov.

Plate 4, figures 8, 9

Description. Shell small, from anterior to posterior extremity nearly gmm. Rather elongate ovate with anterior margin truncate, the straight portion of this margin making an angle of about 125° with the anterior third of the dorsal margin which is also straight;