thus, as found in E. profundum, E. Minganensis and A. Atlanticus (Pal. Foss., vol. i, p. 354, 1865), says:
"The following are some additional details of the structure of this remarkable genus: The general form, as exhibited by the three species at present known, is that of an elongated hollow cone, or, rather, a hollow cylinder with one end narrowed to a point, the smaller extremity being closed and more or less curved; the larger end open. They thus resemble certain large species of Zaphrentis or Cyathophyllum, and, in fact, from their form and septate structure, were at first thought to be corals. Some of the individuals appear to have obtained a length of two or three feet, with a diameter of three or four inches.
"All of the species are transversely and more or less deeply marked by irregular annulations. The structure consists of an inner thin wal! or endotheca, lining the great central cavity, an outer wall or epitheca, forming the rough external surface, and between these a system of radiating septa. The onter wall in two of the species, A. profundus and A. Minganensis, is perforated with mumerous small irregular apertures leading directly into the locnli or empty spaces between the septa. In the third species, A. Atlanticus, it (the onter wall) appers to have a


Fig. 6.


Fic. 7.


Fia. 8.

Fig. 6. Ethmophyllum Miuganensis (after Billings).
F1i. 7. Ethmophyllum Minganensis (enlargement of sarface).
Fig. 8. Ethmophyllum Minganensis (spicula, enlarged to 50 diameters).
compact, smooth surface, with only a few perforations. The immer wall is very thin, with numerous pores leading from the loculi into the great central cavity. The septa consist of thin, flat plates, arranged longitudinally exactly as in the genus Zaphentis. They extend from the onter to the inner wall and are perforated with numerons small circular pores, so that the interseptal loculi all communicate with each other as well as with the central cavity and the exterior. The loculi are sub-

