

upward to a width at the top of 40 mm.

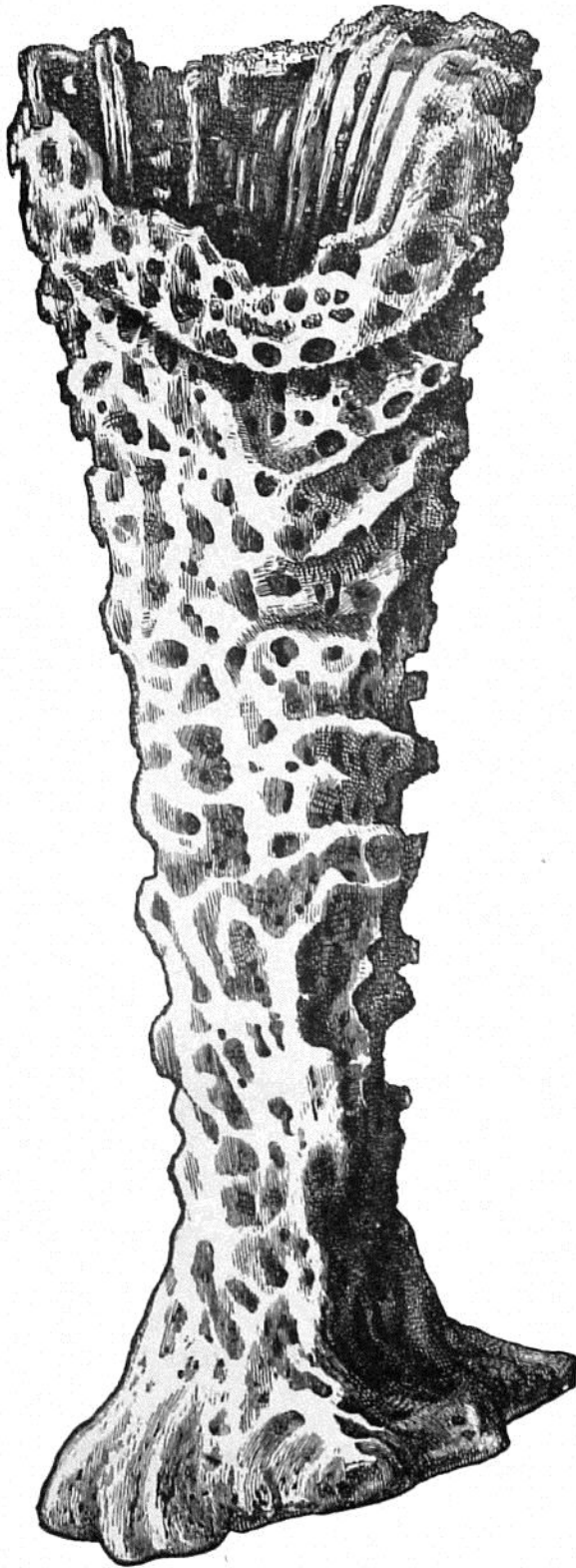


FIG. 106. — *Lefroyella** *decora*, WYVILLE THOMSON. Natural size. (No. 56.)

A deep cavity passes from the upper open end down to the stem-like constriction. The outer surface of the sponge is raised into spiral ridges somewhat as in *Euplectella*, and under the ridges are irregularly spiral lines of large holes. The interior of the cup presents a very remarkable character, which reminds one at once of many of the chalk ventriculites. The inner layer is deeply fluted, thrown into a series of alternating vertical grooves and ridges, so that the outline of the cavity in a transverse section is deeply sinuous. The substance of the sponge throughout is composed of a close anastomosing net-work of siliceous fibres; toward the outside the net-work much resembles that of *Aphrocallistes*, while on the inner wall the structure is trellis-like, and the form of the meshes square and more regular. The spaces of the net-work are crowded with small regular hexactinel-

* I have associated with this species the name of our kind friend His Excellency Major-general Lefroy, C.B., F.R.S., Governor of Bermudas.