

PLATE XXXVI.

Figs. 1-8. *Leptoclinum speciosum*, n. sp.

Fig. 9. *Leptoclinum speciosum*, var. *asperum*, nov.

<i>bl.</i> Bladder cell.	<i>m.b.</i> Muscle band in mantle.	<i>t.m.</i> Test matrix.
<i>br.</i> Branchial aperture.	<i>r.</i> Rectum.	<i>t.v.</i> Spermatic vesicles.
<i>cl.</i> Cloacal aperture.	<i>sp.</i> Calcareous spicule in test.	<i>v.</i> Vessel in test.
<i>en.</i> Endostyle.	<i>st.</i> Stomach.	<i>v.d.</i> Vas deferens.
<i>l.v.</i> Fine longitudinal vessels of bran- chial sac.	<i>t.k.</i> Terminal bulb on vessel in test.	

Fig. 1. Large colony of *Leptoclinum speciosum*; natural size.

Fig. 2. Part of the upper surface of *Leptoclinum speciosum*; slightly enlarged.

Fig. 3. Vertical section through a thickened part of a colony of *Leptoclinum speciosum*, showing Ascidiozooids; magnified (S., 1 inch, reduced).

Fig. 4. Part of a section through the middle of the test of *Leptoclinum speciosum*; highly magnified (S., $\frac{1}{4}$ inch).

Fig. 5. Surface view of part of ectoderm of *Leptoclinum speciosum*; highly magnified (S., $\frac{1}{4}$ inch, enlarged).

Fig. 6. Part of the mantle of *Leptoclinum speciosum*; highly magnified (S., $\frac{1}{4}$ inch).

Fig. 7. Section through the testis and vas deferens of *Leptoclinum speciosum*; highly magnified (S., $\frac{1}{4}$ inch).

Fig. 8. Part of a vertical section through the colony of *Leptoclinum speciosum*, showing structure of the Ascidiozooids, &c.; magnified (S., 1 inch).

Fig. 9. Four colonies of *Leptoclinum speciosum*, var. *asperum*; natural size.