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Figs. 1-9. *Thenea wyvillii*,

- Figure 1. Sponge; nat. size.
- „ 2. The "pileus," seen from above, showing the characters of the oscule;
nat. size.
- „ 3-8. Spicules—
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| <p>Fig. 3. Promonæne, or plagiomonæne;
× 22.</p> <p>„ 4. Dichotriæne; × 22.</p> <p>„ 5. Somal anatriæne; × 180.</p> | | <p>Fig. 6. Cladal end of radical anatriæne;
× 180.</p> <p>„ 7. Metaster × 360.</p> <p>„ 8. Plesiaster; × 49.</p> |
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- „ 9. Transverse section through a part of the sponge, showing the ectosome and characters of the choanosome; × 49.

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Figs. 10-20. *Thenea delicata*,

- „ 10. Sponge; nat. size.
- „ 11, 12. Spicules.
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| <p>Fig. 11. Radical oxytylote; × 32.</p> | | <p>Fig. 12. Tylole end of the preceding;
× 180.</p> |
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- „ 13. Median vertical section through the sponge; nat. size.
- „ 14-16. Vertical sections taken successively nearer the edge; nat. size.
- „ 17. Section through the choanosome, showing the flagellated chambers;
× 180.
- „ 18. Section through the wall of the cloaca near the margin of the oscule, to indicate the position of the tissue which is shown on a larger scale in the succeeding figure.
- „ 19. Section of a part of the wall of the cloaca, containing reserve cells (thesocytes); × 360.
- „ 20. Section through two flagellated chambers, one of them in a state of contraction, showing fine filaments proceeding from the choanocytes into the surrounding tissue; × 360.

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Figs. 21, 22. *Thenea grayi*,

- „ 21. Vertical median section through the sponge; × 2.
- „ 22. Sponge; nat. size.