- c $d \in h$ i k cells laid open, and exposing their numerous transverse partitions; f g mouths of cells not opened by the section; f transverse partition of k; l common bottom of i and k; m bottom of h and c, and perhaps of others. 5 diameters.
- Fig. 15, 15a. Seriatopora subulata.
- Fig. 15. Tip of a branch. a b c d e f g h i the cells; f and i the quadruple aperture of the cell; k the projection of the central column, from which four partitions radiate to the walls of the cell. 40 diameters.
- Fig. 15°. Longitudinal section of a cell of fig. 15, one inch from the top of the branch. a mouth and b bottom of the cell; c axial column; d e the four cavities around the column; f y transverse partition; h i solid part of the coral; j bottom of the uppermost cell. 40 diameters.

TABLE XVI.

HYDRACTINIA POLYCLINA Ag.

- [Figs. 1, 1a, 1b, 1c, 1d, 1c, 2, 2a, 2b, 2c, 2c, 4a, 4b, are drawn from nature by A. Sonrel; the others by 11. J. Clark.]
- Fig. 1. A female hydromedusarium. A B C F fertile individuals; D E G H I sterile individuals; K basal or stolonic layer; e medusa; h head of fertile individuals; p proboscis; s spiny, horn-like processes from the base. 25 diameters.
- Figs. 1a, 1b, 1c, 1d, 1c, different attitudes of the proboscis and tentacles which the sterile heads assume. m the mouth or actinostome; t the tentacles. 100 diameters.
- Fig. 1r. Profile of a sterile female strongly contracted.

 m mouth; t tentacles. 60 diameters.
- Fig. 15. A fertile female hydra without any medusæ. tentacles. 100 dinmeters.
- Fig. 2. A male hydromedusarium. A B C K the fertile individuals; D E F G II I sterile individuals; letters as in fig. 1. 25 diameters.
- Fig. 2a. A fertile male with the proboscis expanded and the mouth (m) wide open. t the globular tentacles. 100 diameters.
- Fig. 2b. The same as fig. 2a with the mouth (m) shut.
- Fig. 2°. A sterile male strongly contracted, so that the tops of the tentacles are globular, and in two rows (t t). 100 diameters.
- Fig. 24. The tentacles more strongly contracted than in fig. 2°; the proboscis reverted and the mouth wide open. 125 diameters.
- Fig. 2°. The same as fig. 2b, but the proboscis (p) more enlarged.

- Fig. 2f. A globular tentacle of a fertile male. a outer and b inner wall; d prolongation of the digestive eavity. 500 diameters.
- Fig. 28. A sterile male strongly contracted. p proboscis; t tentacles. 60 diameters.
- Fig. 2h. The probose of a sterile male. a outer and b inner wall; d digestive cavity; m mouth. 300 diameters.
- Fig. 3. A fertile female crowded with medusæ. a outer and b inner wall; a outer and b inner wall of the medusa; c peduncle of the medusa; d digestive cavity; d digestive cavity of the probose of the medusa; c eggs; p probose of the medusa; t tentacles; A a medusa foreshortened. 300 diameters.
- Fig. 3a. View from the actinal end of a medusa of fig. 3. at outer and bt inner wall; v yolk sae; y yolk; p Purkinjean vesicle; w Wagnerian vesicle; vt Valentinian vesicle; A one of the eggs in a superficial view. 500 diameters.
- Fig. 4. A fertile male crowded with medusæ, which are discharging their spermatic particles. a partially empty and b entirely empty medusæ; h the head. 125 diameters.
- Fig. 4. Actinal end of a fertile male hydra. a to i different stages of development of the medusæ; m the open mouth. 100 diameters.
- Fig. 4b. Similar to fig. 4a, but younger. h the head.
 Fig. 5. A young sterile male and a portion of the retiform stolon. a outer wall of the stolon; at outer wall of the hydra; b network formed by the interior wall; c digestive cavity; d inner wall; c and f horn-like spines; p proboscis; t tentacles. 300 diams.
- Fig. 5a. A portion of the edge of a stolonic base to show a budding of a new channel (f); c outer wall; a b line of the section from which fig. 50 was taken; d cells of the outer wall; e chymiferous canal; f young canal budding; g granular contents of e. 400 diameters.
- Fig. 5b. A very young male hydra budding from the base. a outer and b inner wall of the stolon; at outer and b' inner wall of the hydra; c digestive cavity. 400 diameters.
- Fig. 5°. A section through a b, fig. 5°. a a outer wall; b cells in a a ; c chymiforous canal of the inner wall (d).
- Fig. 6. One of the horn-like spines of fig. 5, to show that it is covered by the retiform stolen. a interstices of the net-work: b b' the canals; c the spinules of the spine; d outer wall. 300 diameters.
- Fig. 7. A very young male medusa bud. a outer