,, 8.

main, or body cavity; mouth sphincter (du) just outside which is the inner perihæmal canal; spinous papillæ of the mouth (d); second mouth tentacle (r''), above which is the first; mouth frame cut through (f); lower arm canal (t); an arm bone (w').

- Fig. 3. Ophiura elaps (?), Ltk., β, ξ. [Exp. U. S. str. "Blake."] Vertical cross-cut beside an arm showing the whole of a spermatic bursa (Bu), with the fold of its membrane (Bu') which runs upward over the arm; genital lobes (δ) hanging in the bursa; the same cut through (δ'); inner perihæmal canal (fc); position of the outer and inner genital openings (no, no, with arrows); parts of side arm plates cut through (i); adductor muscle (rm) between the genital plate (o) and the radial shield (l); outer blood ring (lb); folds of the digestive cavity (St).
 - ,, 4. Ophiocamax, sp. nov., ♀, ફ⁴. [Exp. U. S. str. "Blake."] Vertical cross-cut of the upper portion of an ovarial bursa (Bu) whose wall is plated with lime scales. Above is an embryo (δ'), cut through and lying in a pocket (ovarial tube?) whose wall also has minute lime scales. The bursa clings closely to the wall of the digestive cavity (St); section of head of genital plate (O.)
 - 5. Amphiura incana, Lym., β, Ψ. Vertical cross-cut through a portion of the disk, cutting off one arm, and passing beside another; spermatic bursa (δ); convoluted genital lobes (δ,'δ',δ'); arm (am); Polian vesicle (po); an arm bone from the outer side (w'); the wrinkled digestive cavity (St), with its (epithelial?) wall.
 - " 6. Ophiopholis aculeata, Gray, 5. Disk seen diagonally from below, with two arms and one interbrachial space cut away to show the typical Ophiuran digestive cavity, a bag (St) attached to the disk-roof by slender threads (Sm), many of which are made fast to the radial shields (l).
 - 7. Ophiacantha vivipara, Ljn., $\frac{5}{1}$. View from within of a vertical cross-cut through two arms (Am) close to the edge of the disk, showing the marginal portions of the digestive cavity (St, St) almost filled by a thick, wrinkled (epithelial?) layer. Of the bursae, two $(\delta\delta)$ appear as simple folds or cracks, while the third (δ') has little lobes, doubtless ovarial tubes, connected with it.
 - 2, §. Vertical cross-cut at a right angle to the arm, a little inside the edge of the disk seen from within, showing a section of one arm with its brachial space and a portion of an interbrachial