the tentacles are thrown more strongly upwarl, so as to be nearly parallel with the axis of the proboscis, or, in the systolic act, they are, as well as the disk, strongly curved downwards, and form a deep bell-shaped cavity about the proboseis. The proportions of the disk are like those of an old-lishioned bull's-eye watel-ghas, thickest in the centre, and thiming out to an elge. The centre is occupied by a four-sided digestive cavity (Fi.!. 12, $h^{4}$ ), fiom which a simple, trumpet-shaped quadrate proboseis ( $p$ ) hangs down, to a depth which, in full extension, equals the semidiameter of the disk. The liour corners of the proboseis correspond to the four comers of the digestive ravity. From the digestive eavity ( $h^{4}$ ) four radiating eamals ( $f^{1}$ ) extend from its four comers to near the edge of the disk. where they comect with a circular canal ( $f^{\prime}$ ) which passes through the whole cireuit of the margin. Within these camals a constantly cireulating current is kept up by means of large vibratile eilia ( $f$ figs, 20 and $21, f, f$ ). Of the sisteen tentacles, there is one oplusite the termination of each radiating canal, and three, arranged at equal distames, in every quater segment between the eamals.

Seen from above, every tentacle seems to taper gratually from the base to the apex (Fï, थO), hut, upon looking deeper: its actinal end appears enlarged into a broad swelling ( $\because^{\prime}$ ), which, however, when observel more closely and from below (Fiig. 21, ï $^{\prime}$ ), proves to be a two-told lobe of the elge ( 4 ) of the disk, embacing the base of the tentacle. The outer wall (Fig. 12. $\mu^{1}$ ) of every tentacle is comtinuous with the outer wall of the disk ( 1 ), ant the inner wall ( $b^{1}$ ) of the same is a prolongation of the midalle wall (h) of the disk. The hase of each tentacle has a broad and rounded prolongation (Figk. 12 and 20, ;), which projects toward the eentre of the disk, and aeross the actinal side of the cireular canal. The eight eyes (Fi\%. 1O, ") are aflixed to the actinal side of the base of the eight tentacles which stame one on each side of the ralliating camals. bach eye is a globular benly (F\%\%, 21, a), containing, at its centre amother grobular booly ( $a^{\prime}$ ) about one yuarter its diameter, and possessing highly refiacting properties. The eye stands out fiom the surface, and, in profile (fig. isn. ") is a very conspicuous object. The tramserse veil (Fiy. 12, r), which borders the margin of the disk. is about one eighth the diameter of the latter, more or less waty at the elge, and very tramsparent and thin. The prohoscital actinostome (Fi!, 12, $p$ ) is doublewallerl. as in other Ityrdroids; the outer wall $(\rho)$ is thin and continuous with the imnermost or lining wall ( $y^{2}$, and Figk: 20 and $21,!/, \ell^{1}$ ) of the disk, and the imer wall $(p)$ is very thick and continuous with the middle wall in which the radiating and cireular canals are hollowed out ( $F$ Fi!ks. 20 and $21, f, f^{1}$ ). The arrangement of the lasso-cells on the tentacles is peeuliar; in a view from the abatinal side (Fig. 20), we see a single row along the midille, and a double row on each elge; whereas, on the actinal side (Fig. 21) there is no central row. Fach lasso-cell is

