

Of the two plates resting on *x*, that on the right (*rt.*) abuts on the shoulder of *r. post. Rs*, and on almost the whole of the left side of *r. post. IBr₁*. Above, it supports the right lower side of a large plate. On the left it abuts on the other of the two plates (*lt.*) It abuts, then, on five plates and is five-sided.

The fellow plate on the left (*lt.*) rests on *x* with a similarly curved lower margin, abuts on *rt.* with its side, and on two plates above with its two upper slopes. Its left side rests against a part of *l. post. Rs*, and the whole of its ensuing brachial; but the plate curves inwards, and the line of junction with those ossicles is quite straight, so it may be that the actual margins of the plate are covered by the *l. post. arm.* Therefore, though the visible portion of the plate is five-sided, the whole may perhaps have been six-sided.

Resting above *rt.* and *lt.*, in the angle between them, is an irregularly hexagonal plate, 1.5 mm. wide, and of about the same height. Its right side abuts on *r. post. IBr₂*, but a very small portion of its lower corner rests on *IBr₁*, and, if counted, would make the plate heptagonal. Above, it supports two plates, and its left side abuts on a plate which may have been hexagonal, but of which only three sides are seen.

Five more plates of the anal tube are exposed on the outer surface of the fragment associated with the cup (Plate I, figs. 1, 2.) They form part of three horizontal rows, but are irregular in size, shape, and arrangement.

On the fragment comprising the cup it is not possible to see the plates that form the inner side of the tube. The shale fragment, however, contains at least three vertical series of plates, which probably belonged to the anal tube (Plate I, fig. 5). They are much lower and thinner than the associated brachials, and do not seem so closely united at the sutures. Their joint-faces seem to be bevelled towards the lumen of the tube, and this would have given the plates increased power of motion on one another. It appears, therefore, that the tube widened out a little distally, and that its skeleton was rather loose and flexible.

The relations of the anal tube to the adjacent arms are of some importance. On the left, the tube-plates seem to bend round and inwards, so as to be quite independent of the adjoin-

LIBRARY