to them in position in the four other rays. But in each ray those plates now seem to me to be the upper and lower half of a compound radial (Rs and Ri). This view is based on facts which were not fully apparent before the specimen itself was cleaned and examined. First, the upper plates are quite as wide as the lower at the line of junction. Secondly, the union of the two plates along the suture just mentioned seems to be closer than the union along the suture immediately succeeding. In these respects the right-hand of Mr. Billings' two drawings of the erown and my own previous analysis convey a false impression. Thirdly, the upward tapering of the plates here regarded as IBr<sub>1</sub>, is in most rays more rapid than that affecting the plates regarded as Rs and R<sub>2</sub>.

If, then, the present interpretation be correct, the two proximal elements of r. post. ray are, as in so many allied genera, the Radial proper (derived from Rs) and the Radianal (derived from Ri). The peculiarity of the interpretation lies in the riew that all the other radials are horizontally bisected.

The interpretation of the radials here adopted has an important bearing on crinoid morphology. In 1900 ("Treatise on Zoology," III, Echinoderma, p. 112) I quoted Ottawacrinus as a Dicyclic genus in which some of the radials had been shifted so as to lie almost vertically above the basals; and I continued: "The suggestion then is that the inferradials and basals of Monoeyelica represent basals and infrabasals respectively of Dicyclica. If then the Rs and the Ri fuse, a truly monocyclic type is produced with one circlet of BB and one of RR. One obvious objection to this theory is the presence in many Dicyclica of a plate (the radianal, RA), which is now generally regarded as a slightly modified inferradial." In putting forward that hypothesis as a possibility, I had in mind evidence other than Ottawacrinus, long since submitted to me by a foreign colleague, but not yet published by him. Now, so far as Ottawacrinus is concerned, it not merely ceases to be evidence for the hypothesis, but becomes the strongest evidence against it. If it be the case that inferradials coexist in this genus with basals and infrabasals, it is obvious that they cannot be homologous with basals.

It has been suggested to me that Ottawacrinus may have some eonnexion with the Flexibilia Impinnata. The somewhat close lateral abutment of the proximal brachials as well as of the