

It should be noted that the holotype is a young specimen, and that, according to Hall, it, or at least the figures of it, "do not fairly represent the species." Therefore the specimens on which Hall based his diagnosis and description should be more important than the specimen figured. Unfortunately they are not to be found in the American Museum of Natural History, and I have had to rely on Hall's description and on the little holotype which Professor H. C. Bumpus most kindly entrusted to me for examination. Its chief measurements are: Height of cup to top of RR, 3.6 mm.; width at base, 1.7 mm.; width at summit, 5 mm.

Neither the description nor the figures of Hall indicate distinctly that this species is a *Botryocrinus*; indeed he himself says that it is "a true *Cyathocrinus* in structure". Hall, however, as has been previously pointed out (Wachsmuth & Springer, 'Revision' I, p. 82; Bather, 'Brit. Foss. Crin. VIII, *Cyathocrinus*', *Ann. Mag. Nat. Hist.* (6), IX, p. 206; 1892), "extended the diagnosis of *Cyathocrinus* to include forms with a small quadrangular radianal". Such a plate is shown in Hall's fig. 7, but in the actual specimen it is so obscure that one looks for confirmatory evidence. If such a plate were present the posterior and right posterior basals would be heptagonal. Now Hall says of this species "subradial plates [i. e. basals] wider than high, three of them pentagonal [err. pro 'hexagonal'] and two heptagonal." Therefore there was a small quadrangular radianal. That the species is not a *Homocrinus* follows from the shape of anal α , which has a broadly excavate upper surface. The shape of the cup markedly resembles that of the Gotland species of *Botryocrinus*, and the geological age harmonises. There is therefore no reason to doubt the correctness of this reference.

Botryocrinus Polyxo.

Cyathocrinus Polyxo, Hall, 1863, *Trans. Albany Inst.* IV, p. 199. (Date of vol. 1864; author's edition issued 2 May, 1863.)

Homocrinus polyxo, Wachsmuth & Springer, 1886, 'Revision of Palaeocrinoidea', III, p. 220, *Proc. Acad. Nat. Sci. Philadelphia*, 1886, p. 144.

Botryocrinus polyxo, Bather, 1893, 'Crin. Gotland', *Svensk. Vet.-Akad. Handl.* XXV, No. 2, p. 105.

Botryocrinus polyxo, Weller, 1900, *Chicago Nat. Hist. Survey, Bulletin* IV, Part I, p. 66. Et locc. ibi citt.