

greatly helped the revision of the diagnoses. I am further specially indebted to Professor H. C. Bumpus for the loan of the holotype of *Cyathocrinus nucleus*.

The contractions and symbols used in this paper are those adopted in Part III.—The Echinoderma—of "A Treatise on Zoology", edited by E. Ray Lankester (London, 1900; see p. 143). The terminology of the type-material follows the recent revision by C. Schuchert & S. S. Buckman (see *Science* [n s], XXI, p. 899; 9 June, 1905; Ann. Mag. Nat. Hist. [7], XVI, p. 102; July, 1905; and Introduction to 'Catalogue of the type and figured specimens of fossils ' *Bull. U. S. National Mus.*, LIII, Pt I; Sept. 1905). References to previous literature are confined to passages of systematic importance, and, for the sake of brevity, the plate and figure numbers are usually omitted.

SWEDISH SPECIES.

Botryocrinus ramosissimus.

Botryocrinus ramosissimus, Angelin, 1878, 'Iconogr. Crin. Suec.' p. 24.

Botryocrinus corallum, Angelin, 1878, op. cit. p. 24.

Botryocrinus ramosissimus, Bather, 1893, 'Crin. Gotland'. *Svensk Vet.-Akad. Handl.*, XXV, No. 2, p. 117.

Dorsal cup a wide cone, with straight sides, except for a slight projection of RR towards the facet. Height of cup (11. mm.), 100; width at base, 56; width at summit, 139. IBB and BB wider than high. RR not higher than wide. Arm-facet .63 of R. x supports 3 or more tube-plates. Proximal columnal obscurely pentagonal.

Lower Ludlovian, Lindström's bed *f*, Gotland.

Cotypes of *B. ramosissimus* and *B. corallum* in Riksmuseum, Stockholm. As lectotype of *B. ramosissimus*, should be taken the specimen lettered *b* (Crin. Gotland, p. 117).

Botryocrinus cucurbitaceus.

Sicyocrinus cucurbitaceus, Angelin, 1878, 'Iconogr. Crin. Suec.' p. 23, 24.

Botryocrinus cucurbitaceus, Bather, 1893, 'Crin. Gotland', *Svensk. Vet.-Akad. Handl.* XXV, No. 2, p. 120. Et locc. ibi cit.

Dorsal cup a wide cone, with straight sides except for a very slight projection of RR towards the facet. Height of cup (5. 9