

The available Canadian material is sterile. It is in complete agreement with the detailed description given by Zeiller. On the rachis and even on the finer pinnules and veins, the "petites ponctuations éparses" mentioned by Zeiller are clearly to be seen on the specimen (see text fig. 4) and can even be recognised in the photograph if a hand lens is used.

As Dawson's name was given six years earlier than Stur's the plant should rightly go by the specific name *splendens* though it might very well be held that the species was not "recognisably illustrated" in 1871, and that, therefore, Stur's is the description to take priority. This point, which will affect a form important in the Canadian Coal Measures, I must leave to those most able to determine. There being, however, no doubt about the identity of the actual type specimen, and apparently none about it being the same thing as *Oligocarpia Brongniarti* Stur, I call the Canadian specimen *Oligocarpia splendens*.

Genus PECOPTERIS, *Brongniart*.

1822. *Filicites* section *Pecopteris*, Brongniart, *Class Végét. Foss.*, p. 233.
1828. *Pecopteris*, Brongniart, *Prodrome*, p. 54.

The "genus" *Pecopteris* is another compound group of frond impressions resembling fern foliage, many of which were probably Pteridosperms. Species comprised in this genus by some writers are given independent generic names by others. The main characters of the form-genus are:—the fronds are tripinnate or quadripinnate, the lamina short, the pinnules distinct or confluent with rather parallel edges and attached by their whole base. The midrib is well marked, the lateral veins coming off nearly at right angles, simple, or forked.

PECOPTERIS MILTONI, *Artis*, sp.

Plate VII, figure 14–17, text figs. 5 and 6.

1825. *Filicites Miltoni*, *Artis*, *Antediluv. Phytology*, p. 14, pl. XIV (from 1838 edition).
1828. *Pecopteris Miltoni*, Brongniart, *Prodrome*, p. 58.
1831. *Pecopteris Miltoni*, Brongniart, *Hist. Végét. Foss.*, p. 333, pl. CXIV.¹
1868. *Sphenopteris pilosa*, Dawson, *Acadian Geol.*, ed. 2, p. 552, fig. 192F.
1871. *Callipteris pilosa*, Dawson, *Foss. Pl. Devon. Upp. Silur. Canada*, *Geol. Surv. Rep.*, p. 51, pl. XVI, fig. 189.
1871. *Pecopteris (Cyathites?) densifolia*, Dawson (*non* Goeppert), *Foss. Pl. Devon. Upp. Silur. Canada*, *Geol. Surv. Rep.*, p. 56, pl. XVII, figs. 195, 196.
1885. *Hawlea Miltoni*, Stur, *Carbon-Fl. Schatzlarer Schichten*, p. 108, pl. LIX, figs. 1–4, pl. LX.

¹See Note p. 15