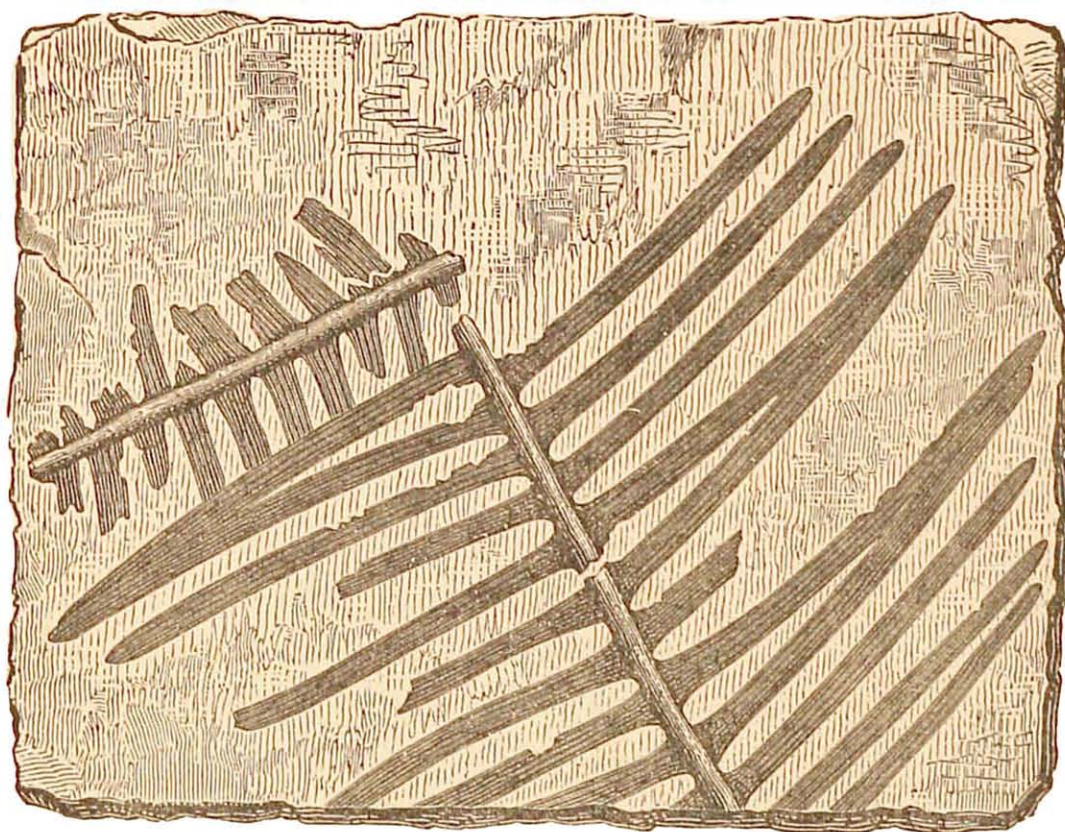


sides, its apparent ferns, that seem to be new—(fig. 144)—that are at least not figured in any of the fossil floras to which I have access, such as a well-defined *Pachypteris*,—(fig. 145),—with leaflets broader and rounder than the typical *P. lanceolata*, and a much stouter midrib; a minute *Sphenopteris* too, and what seems to be a *Phlebopteris*, somewhat resembling *P. propinqua*, but greatly more massive in its general proportions. The equisetaceæ we find represent-

Fig. 146.



PHLEBOPTERIS.

ed in the Brora deposits by *Equisetum columnare*,—a plant the broken remains of which occur in great abundance, and which, as was remarked by our President many years ago, in his paper on the Sutherlandshire Oolite, must have entered largely into the composition of the bed of lignite known as the Brora Coal. We find associated with it what seems to be the last of the Calamites,—*Calamites arenaceus*,—a name, however, which seems to have been bestowed both on