

Figs. 2, 3. Vertical sections of agatised Petioles, composing the false bark on the trunk of *Cycadites microphyllus*, and of embryo Buds. In the bud, Fig. 2. *d.* the division between the two woody circles is not distinct. In Fig. 3. *d.* it is very obvious; but the intermediate circle of cellular tissue is represented only by a fine line. See V. I. p. 498, Note. and p. 500, Note. (Original.)

In the sections of Pl. 61, Figs. 2, 3, and Pl. 62, the following letters are used to indicate the same parts. *a*, cotton, or down; *b*, integument of petioles or scales; *c*, bundles of vessels; *d*, woody circles; *e*, imperfect woody circles; *f*, cellular tissue; *g*, embryo bud; *h*, gum vessels.*

PLATE 62. V. I. p. 498, Note.

Fig. 1. Longitudinal section of a Petiole of *Zamia spiralis* magnified two times. It exhibits four bundles of vessels passing longitudinally through the cellular tissue, which is interspersed with gum vessels. V. I. p. 499. (Original.)

A. Transverse section of Fig. 1. magnified, and showing the irregular disposition of the bundles of vessels. (Original.)

c'. Magnified view of one of the bundles of vessels at A, *c*. (Original.)

B. *c''*. Magnified transverse section of a bundle of vessels in the petiole of *Zamia horrida*. (Original.)

Fig. 2. Longitudinal section of a portion of an agatised petiole of *Cycadites microphyllus*, from Portland, magnified four times. The down or cotton at *a*, is

* These very beautiful and instructive sections were presented to me by Mr. Witham, being portions of a trunk which I had placed at his disposition.