

Nephrodium (Eunephrodium) pennigerum, Hook.

Nephrodium (Eunephrodium) pennigerum, Hook., Sp. Fil., iv. p. 82; Hook. and Bak., Synopsis Fil., p. 292; Baker in Journ. Linn. Soc. Lond., xv. p. 107.

ARROU.—Tropical Asia from the Himalayas, southward through the Archipelago, and also in Tropical Africa.

Polypodium (Dictyopteris) difforme, Blume.

Polypodium (Dictyopteris) difforme, Blume; Hook. and Bak., Synopsis Fil., p. 318; Baker in Journ. Linn. Soc. Lond., xv. p. 108.

ARROU.—Apparently restricted to the Archipelago and Polynesia.

Polypodium (Niphobolus) macropodum, Baker.

Polypodium (Niphobolus) macropodum, Baker in Journ. Linn. Soc. Lond., xv. p. 108.

Rhizome woody, short-creeping, a line thick, clothed with minute, adpressed, deltoid, black scales with brown border. Phyllopede 3–4 lines, clothed with scales, just like the rhizome. Proper stipes bordered very nearly to the base. Fronds all alike (barren and fertile), ligulate, very thick and rigid in texture, 4–8 inches long, $\frac{1}{2}$ to $\frac{3}{4}$ broad, the fertile portion contracted, the point acute, the base narrowed very gradually, the upper surface naked, the lower clothed with thin cottony tomentum, like that of *Polypodium adnascens*. Veins entirely hidden. Sori like those of *Polypodium adnascens*, occupying continuously the contracted upper half of the fronds, minute and immersed in the pale brown tomentum, 6–8 in an erecto-patent row between midrib and edge, and each showing distinctly on the upper side of the frond.

ARROU.—Differs from *Niphobolus adnascens*, var. *varius*, by its much thicker and more rigid texture, long phyllopede, and almost obsolete stipes.

Polypodium (Niphobolus) pachydermum, Baker.

Polypodium (Niphobolus) pachydermum, Baker in Journ. Linn. Soc. Lond., xv. p. 108.

Rhizome wide-creeping, 1 line thick, woody, flexuose, clothed with minute adpressed, lanceolate, black scales, with a brown border. Phyllopede very short. Stipes naked, $\frac{1}{2}$ to 1 inch. Fronds dimorphic; the barren ones oblanceolate-oblong, obtuse, 1–2 inches long, cuneate at the base, $\frac{1}{2}$ to $\frac{3}{4}$ inch broad; the fertile ones ligulate, 3–4 inches long. Veins quite immersed. Texture very thick and rigid, the upper surface naked; the lower with only a coating of minute stellate scales, visible under a lens, with a distinct bare space round each. Sori occupying the upper half or two-thirds of the fertile fronds, superficial, $\frac{1}{2}$ line broad, 6–8 in an erecto-patent row between the midrib and edge.

KI.—Nearest typical *Niphobolus adnascens*, but much thicker and more rigid in texture, with superficial sori as large as in *Polypodium lingua*, and only spaced lepidote scales.