Ex Libris Quos
INSTITUTIONI SMITHSONIANAE
Anno MCMV Donavit
John Donnell Smith
Accesio N.
FERNS:
BRITISH AND EXOTIC.

VOLUME VII.

CONTAINING

ASPIDIUM, IN CONCLUSION.
HYPODERIS.
MESOCHLÆNA.
OLEANDRA.
NEPHROLEPIS.
WOODSIA.
CYSTOPTERIS.
HEMIANTHUS.
OLFERSIA.
HYMENODIUM.
ACROSTICHUM.
POLYBOTRYA.
PLATYCERIUM.
OPHIOGLOSSUM.
BOTRYCHIUM.

BY

E. J. LOWE, ESQ., F.R.A.S., F.G.S., F.L.S., F.Z.S., M.B.M.S.,

LONDON:
GROOMBRIDGE AND SONS, 5, PATERNOSTER ROW.
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ERRATA.

Page 3, for Bathium repandum, read Bathium repandum.
Pages 24 and 30, for Guenzius, read Guenzius.
Page 46, Nephrolepis obtusifolium is evidently a mistake in Presi's
Work for N. obtusifolia.
Page 46, for N. devalliioides, read davalliioides.
Page 106, for Anapausia nicotanafoHia, read Anapausia nicotianafoHia.
FERNS;
BRITISH AND EXOTIC.

Portion of a pinna of mature frond—under side.

ASPIDIUM RECEDENS.

Lowe.

PLATE I. VOL. VII.

Lastrea recedens, Polypodium recedens,
Lastrea elegans,

J. Smith.
J. Smith.
Moore and Houlston.

Aspidium—The Shield Fern.

Recedens—Receding.

VOL. VII.
In the Section Lastrea of Authors.

This handsome rare Fern is only to be found in the best collections.

Introduced into the Royal Gardens, Kew, by Dr. Gardner, about the year 1845.

An evergreen stove species.

Native of Ceylon and the Philippine Islands.

The fronds are deltoid, glandulose, densely pubescent, tripinnate, and somewhat erect in habit; the pinnules oblong-linear and acute, the base decurrent, profoundly pinnatifid, having brief dentate segments.

Stipes scaly at the base.

Fronds lateral, being adherent to a creeping rhizoma.

Sori sub-marginal. Indusium frequently peltate.

Length from eighteen to twenty-four inches; colour pale green.

For fronds my obligations are due to Mr. Thomas Moore, of Chelsea, and to Mr. Joseph Henderson, of Wentworth.

It does not appear to be in any of the Nurserymen's Catalogues.

The illustration is from a frond sent by Mr. Moore, of Chelsea.
Portion of mature Frond—under side.

ASPIDIUM REPANDUM.

WILLDENOW. J. SMITH. PRESL. SPRENGEL.

PLATE II. VOL. VII.

*Aspidium platyphyllum,*
*Bathium repandum,*
*Sagonia platyphylla,*
" repandum,*
*Polypodium siifoium,*
*Tectaria crenata,*

*J. Smith. Metten.*
*(Not of Kunze.)*
*Fee. Presl.*
*J. Smith.*
*Willdenow.*
*Moore and Houlston.*
*Vent.*
*Cavanilles.*

Aspidium—The Shield Fern.

Repandum—Wavy leaved.

A fine species.
An evergreen stove Fern.
Native of the Malay Islands and Philippine Islands.
Sterile and fertile fronds different. The sterile frond pinnate and glabrous, the pinnae drooping, large, petiolulate, coriaceous, and oblong-acuminate in form, above twelve inches in length;
the inferior ones two-lobed, with rounded base and entire margin.

Fertile fronds contracted, semi-erect, and repand, the under side of the lower pinnae having one or two profound segments, and being crenate at the margin.

Stipes scaly at the base.

Fronds terminal, and adherent to an erect rhizoma.

Sori reniform.

Length thirty-six inches; colour brilliant shining green.

For a frond my thanks are due to Mr. Joseph Henderson, of Wentworth.

It may be procured of Mr. R. Sim, of Foot's Cray.

The illustration is from Mr. Sim's frond.
ASPIDIUM PATENS.


PLATES III AND IV. VOL VII.

Lastrea patens,  
Aspidium molle,  
Polypodium patens,  
" expansum,  
Presl. Liebmann.  
Link.  
Aiton.  
Poiré.

Aspidium—The Shield Fern.  
Patens—Spreading.

IN THE SECTION LASTREA OF AUTHORS.

A well-known Fern, easily cultivated, and very ornamental.  
An evergreen stove species.  
Native of Tropical America, Africa, and Asia—Mexico and the West Indies.  
Introduced into the Royal Gardens, Kew, in the year 1784.  
The fronds, which are broadly lanceolate in form, are pinnate; the pinnae sessile, profoundly pinnatifid, lanceolate, and having linear-oblong, sub-falcate segments, which have an acute apex, and are largest near the rachis.
ASPIDIUM PATENS.

Sori medial. Indusium glandulose, and exceedingly hairy. Fronds pubescent and glandulose beneath, terminal, and adherent to a somewhat creeping rhizoma.

Stipes scaly near the base, the scales being large.

Length from thirty-five to sixty inches; colour pale green.

Mr. Henderson has a variety (figured on plate iv) which is very distinct, and which I have figured under the name of variety Hendersoni. Cultivated in the Wentworth collection for some years, and in all probability originated there. Although very different from the normal state, still it would be difficult to draw up a description which might not apply to both forms in different states of growth. Let it suffice therefore to mention its chief differences. In the normal state the length of the frond is from two to three feet, whilst in the variety Hendersoni it attains the length of from four to five feet. In the variety the pinnæ are much narrower and longer, and terminating in a narrow attenuated apex. In both forms the two lower segments are the longest, but more decidedly so in the variety.

My thanks are due to Mr. Masters, of Canterbury, for plants of this species; and to Mr. Moore, of Chelsea, and to Mr. Henderson, of Wentworth, for fronds.

It is in the Catalogues of Messrs. Veitch, of Chelsea; Rolliison, of Tooting; Kennedy, of Covent Garden; A. Henderson, of Pine-apple Place; E. G. Henderson, of St. John’s Wood; Sim, of Foot’s Cray; Masters, of Canterbury; Booth, of Hamburg; and Cooling, of Derby.

The illustrations are from Mr. Joseph Henderson’s fronds.

Variety Hendersoni.
ASPIDIUM KAULFUSSII.

LINK. KUNZE. FEE.

PLATE V. VOL. VII.

Lastrea Kaulfussii.

Aspidium—The Shield Fern. Kaulfussii—Named after the well-known cryptogamic botanist, Kaulfuss.

In the Section Lastrea of Authors.

A pleasing Fern, only found in the larger collections. An evergreen stove species. Native of Brazil.

Fronds pubescent, lanceolate in form, and pinnate. The pinnae lanceolate, sessile, profoundly pinnatifid, and having oblong-obtuse segments. Pinnae opposite below, alternate above. Stipes slightly scaly. Fronds terminal, and being adherent to an erect rhizoma. Sori sub-marginal. Indusium exceedingly hirsute. Length from twelve to eighteen inches; colour dull green. For a frond I am indebted to Mr. Joseph Henderson, of Wentworth. It may be procured of Messrs. Rollisson, of Tooting, and Booth, of Hamburg.

The illustration is from Mr. Henderson's frond.
Portion of a pinna of mature frond—under side.

ASPIDIUM SPINESCENS.

Lowe.

PLATE VI. VOL. VII.


Aspidium—The Shield Fern. Spinescens—Terminating in a spine.

In the Section Lastrea of Authors.

An imperfectly known ornamental species.
An evergreen stove Fern.
Native of the East Indies.
Introduced nearly twenty years ago among orchids by Mr. Rucker, of Wandsworth.
The fronds, which are deltoid, are pubescent and tripinnate; the pinnules linear-lanceolate in form, and pinnatifid; base decurrent; segments somewhat dentate and ovate, and terminating in a lengthy spinous mucro.
The fronds, which are lateral, are adherent to a creeping scaly rhizoma.
Sori sub-marginal.
Stipes scaly.
Length from eighteen to twenty-four inches; colour dull green.
For a frond my thanks are due to Mr. Thomas Moore, of Chelsea.
It is in the Catalogues of Messrs. Veitch, of Chelsea; E. G. Henderson, of St. John’s Wood; and Sim, of Foot’s Cray.
The illustration is from Mr. Moore’s frond.
Pinna of mature Frond—under side.

**ASPIDIUM ÆMULUM.**

**Swartz. Sprengel.**

**PLATE VII. VOL. VII.**

*Polypodium æmulum,*  
*Nephrodium Fanisecii,*  
*Lastrea*  
“  
“ recurva,  
“ concava,  
“ dumetorum,

*Lastrea æmula,*  
*Aspidium Fanisecii,*  
“ recurvum,  
“ dilatatum var. recurvum,  
“ var.

*Lophodium Fanisecii,*  
“ recurvum,

*Aspidium—The Shield Fern. Æmulum—Rival.*

In the Section Lastrea of Authors.

Bree's Fern is one of the handsomest of British Ferns, a local species, and a hardy deciduous indigenous Fern. Native of Great Britain, Cape de Verd Isles, Madeira, and the Azores.
It is found in the counties of Cornwall, Devon, and Somerset, Sussex, Lancashire, Yorkshire, Cumberland, and Northumberland. It occurs in several places in Wales. In Scotland around Loch Lomond, in Argyleshire, Isles of Arran and Mull, Orkney, and the Hebrides. Also in Ireland.

In Yorkshire it is very abundant at Hackness, in a shady wood.

The habit of the plant is exceedingly graceful and very compact; the frond has a peculiar crispy appearance, and the colour of a very lively green.

The fronds, which are deltoid, are tripinnate; the pinnules oblong, profoundly pinnatifid, and having serrated spinous-mucronate recurved lobes; all the pinnules are curved upwards; pinnae opposite or sub-opposite.

Fronds numerous, glandulose on the under side.

Sori medial and sub-terminal, circular in form, and covering the whole under side of the frond.

Indusium jagged on the margin, and reniform.

Veins simple, forked or pinnate; venules direct.

Rachis and stipes covered with jagged scales. Stipes half the length of the frond, rigid, and brownish purple in colour. Rachis greenish.

Fronds terminal, and adherent to a tufted rhizoma.

Length of frond from twelve to twenty-four inches, and from five to eight inches in width.

Easily cultivated in a porous soil of loam and peat, and succeeds best when grown in a shady situation.

For plants of this species my obligations are due to Mr. Joseph Sidebotham, of Manchester, and to Mr. R. T. Millet, of Penzance; and for fronds to Mr. Thomas Moore, of the Botanic Gardens, Chelsea.

There is a variety, *Prolierea*, which Mr. R. Sim possesses, which bears little plants on its frond-stalks near the surface of the soil.

It may be procured of Messrs. Jackson, of Kingston; Veitch, of Chelsea; A. Henderson, of Pine-apple Place; E. G. Henderson, of St. John's Wood; Sim, of Foot's Cray; Kennedy, of Covent Garden; Stansfield, of Todmorden; and Cooling, of Derby.
Pinna of mature Fern—under side.

**ASPIDIUM HISPIDUM.**


**PLATE VIII. VOL. VII.**

*Polystichum hispidum*,  *Polypodium setosum*,  *Aspidium* "  "  "  *Lastrea hispida*,


*Aspidium*—The Shield Fern.  *Hispidum*—Bristly.

**IN THE SECTION POLYSTICHUM OF AUTHORS.**

An interesting although not well-known species.

An evergreen greenhouse Fern.

Native of New Zealand and New Holland.

Introduced into the Royal Gardens, Kew, in the year 1845, by Mr. Colenzo.

The fronds, which are exceedingly hairy and deltoid are tripinnate, the pinnules being linear-lanceolate, pinnatifid, narrow, and having narrow mucronate segments.

Sori medial.
Fronds terminal, and adherent to a creeping rhizoma. Length of frond twelve inches; colour deep green. For fronds I am indebted to Mr. Joseph Henderson, of Wentworth. It may be procured of Mr. R. Sim, of Foot's Cray. The illustration is from Mr. Sim's frond.
Pinna of mature Frond—under side.

ASPIDIUM GLANDULOSUM.

Blume. Moore, (not of Hooker and Greville.)

Plate IX. Vol. VII.

Aspidium isogramma, Kunze.
Nephrodium glandulosum, Presl.
 " multilineatum, Moore and Houlston.
 " " Moore and Houlston.
Abacopteris glandulosa, Of Gardens, (not of Wallich
Cyclodium glandulosum, or Benth.)

Aspidium—The Shield Fern. Fee.
Glandulosum—Glanded. Presl.

In the Section Nephrodium of Authors.

A distinct handsome Fern.
An evergreen stove species.
Native of India.
Fronds glabrous, pinnate; pinnae distant, ovate, lanceolate,
attenuate, shortly petiolate; base sub-cordate; margin crenate. Lower pinnae sub-opposite, upper ones alternate. Habit somewhat erect.

Sori small, reniform; indusium diminutive, being soon hidden by the sori.

Venules anastomosing, and forming lines between the primary veins, and dividing the entire surface into rectilinear parallelograms.

Fronds lateral, and adherent to a creeping rhizoma. Stipes smooth, except when young, then there are a few scattered scales on the upper side. Rachis clothed with very brief stiff hairs.

Length of frond from twenty-four to thirty-six inches, of which the lower half is naked; colour bright green.

Known best in gardens as Nephrodium multilineatum, but not Wallich's plant.

My thanks are due to Mr. Joseph Henderson, of Wentworth, for fronds of this species.

It is in the Catalogues of Messrs. Sim, of Foot's Cray; and A. Henderson, of Pine-apple Place.

The illustration is from Mr. Joseph Henderson's frond.
Pinna of mature Frond—under side.

ASPIDIUM STRIGOSUM.

Willdenow.

PLATE X. VOL. VII.

Lastrea crinita,
   "       strigosa,
Aspidium crinitum,
   "       "
   "       "
Polypodium crinitum,
Aspidium setosum,
   "       pauciflorum,
   "       nitidum,

Aspidium—Shield Fern.  Strigosum—Slender.

Moore.
Presl.  J. Smith.
Hooker and Greville.
Kunze, (not of Martens and Galleotti.)
Of Gardens.
Blume, (M.S.)
Kaulfuss.  Bory.

IN THE SECTION LASTREA OF AUTHORS.

An exceedingly handsome rare species, very elegant in the form of the fronds, and being singular from the long, black, shining scales at the base of the frond.
This Fern should be in every collection.
An evergreen stove species.
Native of Mauritius.
The fronds, which are pinnate, are glabrous on the upper surface. The pinnae are pinnatifid, ovate-lanceolate in form, attenuate, and sub-opposite. Segments rather obtuse, the lower and upper ones the longest.
Sori medial; indusium minute.
Stipes somewhat angular, and being furnished for about two inches at the base with long blackish incurved scales, and also with thinly scattered shorter scales on the rest of the stipes and rachis; these parts are also thickly covered throughout with very short pellucid glandulose hairs.
Length of frond twenty-four inches; colour pale green.
For fronds my thanks are due to Mr. Joseph Henderson, of Wentworth.
It is not in any of the Nurserymen's Catalogues.
The illustration is from Mr. Joseph Henderson's frond.
Pinna of mature Frond—under side.

**ASPIDIUM HIRTUM.**


PLATE XI. VOL. VII.

_Lastrea hirta_, Presl. _J. Smith. Moore._
_Polypodium barbatum_, Kunze.

_Aspidium—Shield-Fern._
_Hirtum—Hairy._

_In the Section Lastrea of Authors._

A pretty rare Fern, seldom to be met with in collections.
An evergreen stove species.
Native of Jamaica.
The fronds, which are bipinnate, are oblong and pinnatifid; pinnules ovate-triangular, obtuse and scarcely entire, the lowest decurrent.
Rachis and stipes very hairy. Upper surface of frond scattered over with whitish hairs.
Sori large and extending over the whole under surface of the frond.
Length of frond about nine inches, of which the lower two inches are naked.

For fronds my thanks are due to Mr. J. Smith, Curator of the Royal Gardens, Kew.

It is not in any Nurserymen's Catalogues.
The illustration is from Mr. Smith’s frond.
Pinna of mature Frond—under side.

**ASPIDIUM TRUNCATUM.**

**GAUDICHAUD.**

**PLATE XII. VOL. VII.**

*Nephrodium truncatum,*  
*Polystichum* "  

*Nephrodium*—Shield-Fern.  
*Truncatum*—Abrupt-ended.

**IN THE SECTION NEPHRODIUM OF AUTHORS.**

An evergreen greenhouse species.  
Native of the Sandwich Islands.

The fronds, which are pinnate, become narrower towards the apex; the terminal pinna being large and pinnatifid. Pinnae pinnatifid, lanceolate, having rounded segments, and petiolate except the apex of the frond. Veins pinnate, the basal pair angularly anastomosing, and conspicuous.  
Sori medial and circular.  
Length of frond twenty-four inches; colour deep green.
For fronds my thanks are due to Mr. J. Smith, of the Royal Gardens, Kew; and to Mr. Thomas Moore, of the Chelsea Botanic Gardens.

It is not in the Nurserymen's Catalogues.

The illustration is from a frond sent by Mr. Smith.
Pinna of multiple Frond—upper side.

ASPIDIUM MOLLE.—VARIETY CORYMBIFERUM.

Sim.

PLATE XIII. VOL. VII.

The normal form of the *Aspidium molle*, of Swartz, more generally known as the *Nephrodium molle*, of Brown, has been figured on Plate XXX, vol. vi, and described on page 87 of that volume. Since an account of this species has been published, Mr. R. Sim, of the Foot's Cray Nursery, has introduced to the public this most singular multiple variety. It is perhaps the most extraordinary variety known, the stem being branched, all the ends of the pinnae multiple and crisped, and the apex of the frond crowded with the many-crisped multiple portions. There is another peculiarity about it, namely, that it varies so very much in the form and multiplicity of its fronds. The habit of the plant is erect, and its height only half that of the normal form.

I am indebted to Mr. R. Sim, for a plant and fronds of this Fern, which enables me to figure it at the conclusion of the genus *Aspidium*; and while referring to this species, I take the opportunity of adding to the synonyms the following:—

*Aspidium molle*,

*Jacquin*, (not of *Link*,

*which is Aspidium patens.*

*Nephrodium molle*,

*Liebmann.*

*Vol. VII.*
Aspidium nymphale,
" adultum,
" appendiculatum, (in part,)
" canescens, (in part,)
" diversum,
" hirsutulum,
" patens,
" propinquum,
" solutum,
" subpubescens,
" tectum,

Schiede, Karwinski, and Liebmann, each found this species in various parts of Mexico.
ADDENDA TO THE GENUS ASPIDIUM.

The following additions have been made to the genus *Aspidium*, from Mr. Moore's valuable work, "Index Filicum," the part referring to this family having only recently been published.

**ASPIDIUM DECURRENS.** Page 25, vol. 6.
Not the *Aspidium decurrens* of either Smith or Presl; the former is the *Sagenia pteropus* of Moore, and the latter *S. decurrens* of Moore.

**ASPIDIUM FALCINELLUM.** Page 29, vol. 6.
Not the *Aspidium auriculatum* of Swartz, Schkuhr, Wallich, or Don; Swartz's plant is *Polystichum auriculatum* of Moore; Schkuhr's is *P. acrostichoides* of Moore; Wallich's is the *Nephrolepis tuberosa* of Moore; Don's is the *P. lentum* of Moore. The *A. auriculatum* of Holl is the *A. falcinellum* of Swartz.

**ASPIDIUM AUGESCENS.** Page 35, vol. 6.
*Aspidium serra* of Swartz is the *Lastrea serra* of Moore; *A. serra* of Schkuhr is the *Nephrodium unitum* of Moore; *A. serra* of Raddi is the *N. unitum*, var., of Moore; *A. ottonis* of Kunze is *A. augescens* of Moore.

**ASPIDIUM ACUMINATUM.** Page 37, vol. 6.
*Aspidium acuminatum* of Willdenow is not this plant, but the *Nephrolepis ensifolia* of Moore, the present plant being the *A. acuminatum* of English Gardens, (not of the Berlin Gardens,) that plant being the *Athyrium oxyphyllum* of Moore.

**ASPIDIUM FILIX-MAS.** Page 41, vol. 6.
*Aspidium affine* of Fischer and Meyer is a variety of *A. filix-mas* of Swartz, not the *A. affine* of Blume, which is *Nephrodium lineatum* of Moore, nor the *A. affine* of Wallich, which is *Polystichum aculeatum* of Moore, nor the *A. affine* of Roxburgh, which is a variety of *A. rigidum.*
ADDENDA.

_A. paleaceum_, Don, is a variety of _A. filix-mas_, but not of Swartz, which is _Lastrea paleacea_ of Moore.

_A. Wallichianum_ of Sprengel is a variety of _A. filix-mas_, but not so the _A. Wallichianum_ of Bory, which is _Oleandra nertiformis_ of Moore, nor of Kunze, which is _Polystichum setosum_ of Moore, nor of Wallich, which is _O. Wallichii_ of Moore.

Add to synonymes of _A. filix-mas_:

- _Aspidium adnatum_, Blume.
- _A. Braun._
- _caucasicum_, Martens and Galeotti.
- _crinitum_, Dietrich.
- _expansum_, Geep.
- _Midlaneum_, German Gardens.
- _nevadense_, Griffith.
- _nudus_, Kunze.
- _parallogrammum_, Wallich. M.S.
- _pinnatifidum_, Fee.
- _pseudo filix-mas_, English Gardens.
- _Smithii_, Blume.
- _uliginosum_, Blume.

Not the _A. filix-mas_ of Holl, which is _Lastrea elongata_ of Moore, nor of Pursh, which is _L. Goldiana_ of Moore.

**ASPIDIUM ACULEATUM.** Page 49, vol. 6.

_Aspidium intermedium_, not of Willdenow, which is _Lastrea spinulosa_, var. of Moore, nor of Blume, which is _L. Blumei_ of Moore, nor of Link, which is _Athyrium filix-famina_ of Moore, nor of J. Smith, which is _Sagenia coadunata_, var., of Moore.

_A. munitum_, not of Kaulfuss, which is _Polystichum falcinellum_ var. of Moore.

_A. lentum_, not of Don, which Moore gives as _P. lentum_.

_A. ocellatum_, not of Wallich, which is _P. lentum_ of Moore.

Add as synonymes:

- _Aspidium affine_, Wallich.
- _Subriosum_, Roxburgh.
- _sublobatum_, Blume.

**ASPIDIUM ACROSTICHOIDES.** Page 57, vol. 6.

_Aspidium auriculatum_, not of Swartz, Wallich, Holl, or Don. Add as synonyme:

- _Aspidium Schweinitzii_, Beck.

**ASPIDIUM CRISTATUM.** Page 59, vol. 6.

_Aspidium cristatum_, not of Ruprecht.

_A. spinulosum_, not of Swartz, Schrader, Schkuhr, Gray, or Hooker and Arnott.

Not A. rigidum, var., of A. Braun, which is Lastrea remota of Moore.
Not A. pallidum of Blume, which is L. pallida of Moore, nor of English Gardens, which is L. filix-mas of Moore.
Not A. nevadense of German Gardens, which is a variety of L. filix-mas of Moore.

ASPIDIUM PUBESCENS. Page 73, vol. 6.

Mr. Moore, in his “Index Filicum,” does not think this is the Lastrea pubescens of Swartz, but the L. quinquangularis, (Aspidium quinquangularis of Kunze.)

ASPIDIUM ELONGATUM. Page 75, vol. 6.

Not A. elongatum of Willdenow, which is Lastrea Canariense of Moore.
Not A. oligodonton of Desvaux, which is Asplenium Aitonii, var., of Moore.

ASPIDIUM DILATATUM. Page 77, vol. 6.

Not A. dilatatum of Wallich, which is Sagenia coadunata of Moore.
Not A. dilatatum of Holl, which is Lastrea cimula of Moore.
Not A. dilatatum of American authors, which is L. spinulosa, var., of Moore.
Not A. dilatatum, var. recurvum of Bree, which is L. cimula of Moore.
Not A. spinulosum of Gray, which is L. spinulosa, var., of Moore.
Not A. spinulosum, var., of Hooker and Arnott, which is L. cimula of Moore.
Not A. spinulosum, var. cristatum, Lasch., which is L. spinulosa of Moore.
Not A. spinulosum, var. Boottii, Gray, which is L. spinulosa, var., of Moore.
Not A. spinulosum, var. uliginosum, A. Braun, which is L. cristata, var., of Moore.
Add synonyme:—

Aspidium tanacetifolium, Opiz.


Not A. Goldianum of Gardens, which is Lastrea cristata of Moore.
ASPIDIUM TRIFOLIATUM. Page 85, vol. 6.

Add as synonyms:

- Aspidium trifoliatum,
- " heracleifolium,
- " multisorum,
- Polypodium trifoliatum,
- " cordifolium,
- " triphylhum,
- Tectaria trifoliata,
- Bathkinum heracleifolium,
- Nephrodium trifoliatum,
- Drynaria cordifolia,

Willdenow. Schlechtendal.
Tausch. Liebmann.
Mettenius.
Desvaux.
Poiri.
Martens and Galleotti.
Liebmann.
Cavanilles.
Poir.
Bory.
Poir.

Not the Aspidium trifoliatum of Sieber, which is Sagenia pica of Moore, nor A. trifoliatum, var., Sieber, which is S. macrophylia of Moore, nor var. of Swartz, which is S. pica of Moore, nor the A. pica of Desvaux, which is S. pica of Moore.

Add to the localities:—Hispaniola, Cuba, Barbadoes, Mexico, Guadaloupe, Guatemala, Panama, Columbia, Venezuela, Peru, Amazon, Surinam, China, Java, and the Mauritius.


Not A. mucronatum of Don, which is Lastrea Hamiltonii of Moore.

Not A. mucronatum of Lowe, which is Polystichum triangulum of Moore.

According to Mr. Moore this is not Swartz’s plant.


Not Aspidium villosum of Bory, which is Lastrea cruciata of Moore.

Not A. villosum of Heward, which is Polypodium lachnopo-
dium of Moore.

ASPIDIUM CAPENSE. Page 107, vol. 6.

Not A. Capense of Swartz, which is Amphicosmia Capensis of Moore.


Not A. spinulosum of Schkuhr, which is Lastrea dilatata of Moore.

A. canariense of A. Braun. Not A. Canariense of Willdenow, which is Cystopteris fragilis of Moore.

A. Ludovicianum of Kunze is A. Canariense of Moore.


Not of Swartz or Blume, which is Nephroodium unitum of Moore.


Not A. cicutarium of Splitgerber and Klotzsch, which is Lastrea funesta of Moore.

Not A. cicutarium of English Gardens, which is Goniocystopteris tetragona of Moore.

Not A. latifolium of Presl, which is Sagenia latifolia of Moore.

Not A. apifolium of Schkuhr, which is Sagenia apifolia of Moore.


Not of Blume, which is Sagenia pteropus of Moore, nor of Sieber, which is S. angulata of Moore.

Not the A. bifidum of Carmichael, which is Lastrea tomentosa of Moore.


Not of Mettenius, which is Nephroodium Hookeri of Moore.

Add as synonyms:

<table>
<thead>
<tr>
<th>Aspidium unitum</th>
<th>Blume. Hooker &amp; Arnott.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;lucens,&quot;</td>
<td>Bojer.</td>
</tr>
<tr>
<td>&quot;aridum,&quot;</td>
<td>Don.</td>
</tr>
<tr>
<td>&quot;callosum,&quot;</td>
<td>Blume.</td>
</tr>
<tr>
<td>&quot;contiguum,&quot;</td>
<td>Kaulfuss.</td>
</tr>
<tr>
<td>&quot;continuum,&quot;</td>
<td>Desvaux.</td>
</tr>
<tr>
<td>&quot;cucullatum,&quot;</td>
<td>Blume.</td>
</tr>
<tr>
<td>&quot;Eckloni,&quot;</td>
<td>Kunze.</td>
</tr>
<tr>
<td>&quot;goggylodus,&quot;</td>
<td>Schkuhr.</td>
</tr>
<tr>
<td>&quot;goggylodes,&quot;</td>
<td>Meyer.</td>
</tr>
<tr>
<td>&quot;lanuginosum,&quot;</td>
<td>Bory.</td>
</tr>
<tr>
<td>&quot;microcarpum,&quot;</td>
<td>Willdenow.</td>
</tr>
<tr>
<td>&quot;obtusatum,&quot;</td>
<td>Swartz.</td>
</tr>
<tr>
<td>&quot;paludosum,&quot;</td>
<td>Mettenius.</td>
</tr>
<tr>
<td>&quot;Polhillianum,&quot;</td>
<td>Presl.</td>
</tr>
<tr>
<td>&quot;propinquum,&quot;</td>
<td>Swartz.</td>
</tr>
<tr>
<td>&quot;resiniferum,&quot;</td>
<td>Kaulfuss.</td>
</tr>
<tr>
<td>&quot;serratum,&quot;</td>
<td>Swartz.</td>
</tr>
</tbody>
</table>

Not *A. Hookeri* of Sweet, which is *Fudyenia prolifera* of Moore, or of Klotzsch, which is *Cyclodium meniscoidis* of Moore. Add synonymes:—

*Aspidium puherum*, Wall.  
*Aspidium unitum*, Mettenius.


Not *A. coadunatum* of Kaulfuss, which is *Nephrodiun coadunatum* of Moore.

ASPIDIUM RECEDENS. Page 1, vol. 7.

*Aspidium recedens*, Mettenius. (Not of Sturm.)

ASPIDIUM REPANDUM. Page 3, vol. 7.

*Aspidium repandum*, (Not of J. Smith, Blume, or Presl.)  
*Aspidium platyphyllum*, Presl. (Not of Willdenow.)  
*Aspidium tectaria*, Desvaux?

ASPIDIUM PATENS. Page 5, vol. 7.

Not of Willdenow, which is *Nephrodiun molle* of Moore, nor of Kunth, which is *Lastrea Kunthii* of Moore, nor of Blume, which is *Mesochlaena Javanica* of Moore, nor of Gueinzius, which is *Goniopteris patens* of Moore, nor of Kunze, which is *Lastrea Gueinziiana* of Moore.

*A. molle*, not of Swartz, which is *Nephrodiun molle* of Moore.

ASPIDIUM KAULFUSSII. Page 7, vol. 7.

*Aspidium arboreum*, Loddiges.  
*Aspidium ripartum*, Moritz.

ASPIDIUM ÆMULUM. Page 11, vol. 7.

Not of Kunze.

*Aspidium dilatatum*, Holl. (Not of Smith or Wallich.)  
*Aspidium odoratum*, Lowe, M.S. (Not of Sprengel, Sieber, or Bory.)  
*Aspidium spinulosum*, var. Hooker and Arnott.

ASPIDIUM HISPIDUM. Page 13, vol. 7.

*Aspidium setosum*, (Not of Swartz, Wallich, Klotzsch, or Blume.)
GENUS VI.

HYPODERRIS. R. Brown.

A solitary species, native of the Island of Trinidad.
The name is from Hypo under, and Derris a skin, in allusion
to the attachment of the indusium, of which a portion is buried
under the sori.
Distinguished from the genus Woodsia, by having reticulated
venation; it does not differ in any other respect, except in habit.
Fronds stipitate, simple, entire, or trilobate.
Rhizoma creeping.
Sori circular, irregular, or uniseriál on either side of the
primary veins, and being formed at the points of confluence
of numerous veinlets.
HYPODERRIS BROWNII.

J. SMITH. EE. HOOKER AND BAUER.

PLATE XIV. VOL. VII.

Woodsia Brownii, Mettenius.

Hypoderris—Under-the-skin. Brownii—Named in honour of the late R. Brown, the eminent Botanist.

A singular, handsome, and rare Fern, but little known in cultivation in this country.
An evergreen stove species.
Native of the Island of Trinidad and Guiana.
Introduced into England about the year 1850.
The fronds, which are simple or trilobate, are oblong-acuminate in form, the lateral lobes being very small in comparison with the central one. Fronds undulated, somewhat membranous; base cordate, margin of the frond entire.
Stipes and rachis thickly scaly, the scales being diminutive and whitish.
Fronds lateral and adherent to a creeping and scaly rhizoma. Veins anastomosing and reticulated. Sori usually scattered throughout the whole under side of the frond.
Length from twelve to twenty-four inches; colour light green. The lower four to nine inches of frond naked.
For fronds my thanks are due to Sir W. J. Hooker, Director of the Royal Gardens, Kew; and to Mr. George Norman, of Hull.
It may be procured of Messrs. Veitch, Jun., of the Exotic Nursery, Chelsea.
The illustration is from Mr. Norman’s frond.
GENUS VII.

MESOCHLÆNA. R. BROWN.

Veins pinnate and costæform, the lower pair of venules anastomosing. Sori oblong-linear, medial. Indusium linear, and being attached longitudinally on the centre of the receptacle. Fronds bipinnatifid.

Fée, in his "Genres de la Famille des Polypodiæes," under the name of Stegogramme, enumerates the following:—

1. — Aspidioides, Blume.
2. — Mesochlæna, Fee.
3. — Moluccana, Fee.

Only one species is cultivated in England, namely, *Mesochlæna Javanica*. 
Mesochlæna—Middle-cloaked. From the Greek, in reference to the manner of attachment of the indusium. Javanica—Java.

The fronds are pinnate, the pinnae being pinnatifid, narrow, oblong-lanceolate, mostly opposite. Segments obtuse and slightly falcate, strongly marked underneath with the simple, free, parallel veins; the lower pair of venules anastomosing in the manner of the section *Nephrodium*.

Stipes a foot or more long, furnished on each side with short abortive pinnae, nearly to the base. Primary and secondary rachis, as well as the stipes and veins, covered thickly with short, spreading, pellucid hairs.

Sori medial, oblong-linear, and decussate; the indusium linear, and being attached longitudinally on the centre of the receptacle, and having sporangia in its axis on either side. Margin free.

Length from twenty-four to forty-eight inches.

For fronds my thanks are due to Sir W. J. Hooker, Royal Gardens, Kew; Mr. Moore, of the Chelsea Botanic Gardens; M. Schott, of the Imperial Gardens of Schonbrunn; and Mr. Joseph Henderson, of Wentworth.

It may be procured of Messrs. Rollisson, of Tooting; and Booth, of Hamburg.

The illustration is from Mr. Moore's frond.
GENUS VIII.

OLEANDRA. Cavanilles.

An extremely interesting small family, none of the species of which are found in any except the best collections.

The meaning of the name is not known.

Presl, in his "Tantamen Pteridographiae," gives the following:—

|----------------------------------|-----------------------------|

Fee in his "Genres de la Famille des Polypodiacees," enumerates.

|---------------------|----------------|

Mr. Thomas Moore, in his "Index Filicum," mentions

|-----------------------------|--------------------|

Fronds simple, entire, lanceolate, and stipitate.
Rhizoma scendent or creeping.
Sori circular, transversely uniserial, costal, or irregular.
Indusium reniform.
Habit very distinct.
Veins simple or forked.
Portion of mature frond—under side.

OLEANDRA NERIIFORMIS.


PLATE XVI. VOL. VII.

Aspidium neriiformis, subcostale, neriifolium, salacense, neriiforme, lorrfrons, pistillare, Wallichianum, Swartz.

" Oleandra hirtella, " neriifolia, " Neriiformis—Oleander-like.

O. verticillata, Swartz. Sprengel.

Swartz. Sprengel. Kunze. Bory. (not of Sprengel, Kunze, or Wallich.)


A rare handsome species, worthy of a place in every collection, easily cultivated and distinct in habit and general appearance from all other Ferns.

An evergreen stove species.

Native of the East Indies, Malayan Archipelago, Java, and Tropical America.

Introduced into the Royal Gardens, Kew, in the year 1848.
Fronds simple, lanceolate, exceedingly membranous, undulated; margin entire, round, or somewhat attenuated at the base.

The fronds, which are twelve inches in length, recline, and are verticillate or sub-verticillate, and being articulated with a frutescent scandent rhizoma.

Rhizoma covered with brown scales.

Colour of the frond vivid pale green.

Sori uniserial; costal, crowded. Indusium reniform.

Commonly known as the Oleandra hirtella.

For a plant of this species my obligations are due to M. Schott, Director of the Imperial Gardens of Schonbrunn; and for fronds to Sir W. J. Hooker, Royal Gardens, Kew; Mr. Sim, of Foot’s Cray; and to Mr. Joseph Henderson, of Wentworth.

It may be procured of Messrs. Veitch, of Chelsea; Sim, of Foot’s Cray; Rollisson, of Tooting; A. Henderson, of Pine-apple Place; E. G. Henderson, of St. John’s Wood; and Booth, of Hamburg.

The illustration is from Sir William Hooker’s frond.
Portion of mature Frond—under side.

OLEANDRA NODOSA.


PLATE XVII. VOL. VII.

Aspidium nodosum, Willdenow. Sprengel.
articulatum, Schkuhr. Plumier.
(Not of Kunze or Blume.)

Oleandra—...........?

Nodosa—Knotty.

A handsome free-growing Fern, only to be met with in good collections.
An evergreen stove species.
Native of the East Indies, West Indian Islands, Jamaica, and Tropical America.
Introduced into the Royal Gardens, Kew, in 1848.
The fronds, which are lanceolate-acuminate, are simple, entire on the margin, and attenuated at the base.
Veins forked; venules parallel, direct, free, and having their apices slightly thickened and gently curved.
Stipes and rachis ebeneeous; the rachis covered beneath with brownish cordate scales.
Rhizoma scaly and creeping.
Sori circular, uniserial, and irregularly scattered.

The fronds articulated with the stipes, and at some distance from the rhizoma.

Length of frond twelve to fourteen inches; colour brilliant green.

Mr. Sim, in his new Catalogue, enumerates four species:—

Articulata. Presl.

As some doubt yet hangs over these species, it has been thought the wiser plan to figure the two species according to Smith, leaving the further discussion and enumeration to the Appendix, in order that the Author may have an opportunity of seeing the living plants.

For fronds of this Fern my thanks are due to Mr. J. Smith, of the Royal Gardens, Kew, and to Mr. Joseph Henderson, of Wentworth.

It is in the Catalogues of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; A. Henderson, of Pine-apple Place; and Booth, of Hamburg.

The illustration is from Mr. Smith's frond.
GENUS IX.

NEPHROLEPIS. Schott.

An interesting genus. The name derived from the Greek, nephros, a kidney, and lepis, a scale, in reference to the covering of the spore-cases.

Fronds pinnate, linear, or narrow-elongate; pinnæ numerous, upper side of the base auriculated, sessile, and articulated to the rachis. The pinnæ very soon fall from the rachis, frequently leaving a more or less leafless stem.

Veins forked. Venules free and clavate, the basal exterior one being fertile.

Sori terminal, circular, sub-marginal, transverse, and uniserial. Indusium reniform or sub-reniform.

The fronds vary in length from twelve to seventy inches.

Rhizoma brief, erect, forming lengthy slender stolones, which bear fasciculate crowns at intervals, or elongately creeping; sometimes bearing tubers.

There are no British examples.

Mr. Moore, in his "Index Filicum," gives the following:

- Platyotis. Kunze.
- Hirsutula. Presl.
- Splendens. Presl.
- Trichomanoides. J. Smith.
- Biserrata. Schott.
- Punctulata. Presl.
- Biaurita. Presl.
- Repens. Brackenridge.
- Sesquipedalis. Presl.
- Exaltata. Schott.
- Pectinata. Schott.
- Davallioides. Kunze.

Mr. J. Smith, in his "Catalogue of Ferns cultivated in British Gardens," gives the following:

| Sesquipedalis, Presl | Mauritianum. Moore. |
| Davallioides. Kunze | |
Pectinata. Schott.  
Undulata. J. Smith.  
Tuberosa. Presl.  
Exaltata. Schott.  

Ensifolia. Presl.  
Hirsutula. Presl.  
Devalliioides. J. Smith.

Kunze, in his "Index Filicum," enumerates—

Cordifolia. Presl.  
Exaltata. Schott.  
Hirsutula. Presl.  
Neglecta. Kunze.  
Pectinata. Schott.  

Sesquipedalis. Presl.  
Tuberosa. Presl.  
Undulata. J. Smith.  
Zollingeriana. De Vriese.

Presl, in his "Tentamen Pteridographiae," gives—

Gaimardiana. Presl.  
Punctulata. Presl.  
Subcordata. Presl.  
Splendens. Presl.  
Ensifolia. Presl.  
Biserrata. Schott.  
Bidentata. Presl.  
Acuminata. Presl.  
Acuta. Presl.  
Hirsutula. Presl.  
Pilosa. Presl.  
Acutangula. Presl.

Paraenesis. Presl.  
Gibbosa. Presl.  
Sieberi. Presl.  
Cultrifolia. Presl.  
Sesquipedalis. Presl.  
Wallichiana. Presl.  
Cordifolia. Presl.  
Tuberosa. Presl.  
Exaltata. Schott.  
Imbricata. Presl.  
Pectinata. Schott.  
Obtusifolium. Presl.

The present genus appears very distinct from all others; the long wiry rhizoma is a marked character, and from the rapidity with which the rhizoma grows, and the great number produced, this genus is perhaps more readily propagated than any other. It is easily cultivated, and when grown in wide shallow pans, a fine specimen may be speedily procured.

The species Davallioides is the most magnificent in the genus, and calls forth universal admiration; Undulata is a pretty Fern when successfully grown, whilst the well-known Exaltata and Pectinata are both worth careful cultivation as exhibition plants.

To grow these Ferns successfully, drain well, give abundance of pot-room, and a rich compost.
Nephrolepis pectinata.

Moore and Houlston.

Plate XVIII. Vol. VII.

Nephrolepis Schkuhrri, Fee.
Aspidium pectinatum, Willdenow. Speengel.
" trapezoides, Schkuhr. (Not of Swartz.)
" Schkuhrri, Link.
Nephroodium Schkuhrri, Link.
" pectinatum, Link.


An elegant slender Fern, easily propagated, and when successfully grown making a magnificent exhibition plant; very easily cultivated.

An evergreen stove species.
Native of Brazil and the West Indies.

Introduced into the Royal Gardens, Kew, in the year 1841, having been received from the Royal Gardens, Berlin. It appears to have been known in some English Gardens, however, as early as 1820.

Fronds glabrous; pinnate, shape narrow linear-lanceolate; pinnae alternate and crowded. There are from one hundred to one hundred and thirty pairs of pinnae on each frond.
Nephelepis pectinata.

Oblong, imbricate; apex rounded; upper base auriculate, lower base truncate; coarsely dentate on the margin.

Veins forked; venules direct and free.

Sori circular, transversely uniserial, and attached to the apices of the venules; usually about six pairs on each pinna.

Fronds terminal and adherent, forming a fascicle on a thin wiry creeping rhizoma.

The rachis is fluted above, below it is entirely hid, owing to the basal portion of each pinna wrapping quite over it, and this gives the frond a singular and interesting appearance when viewed from beneath.

Length of frond from twelve to thirty-four inches, width of frond about equal throughout its length, except near the apex; average width from an inch to an inch and a quarter. Colour a yellowish green.

The different species of Nephelepis are very readily propagated by divisions of the wiry rhizoma; indeed a well-established plant in a half-peck flower-pan will yield hundreds of plants in a few months. By pegging down each rhizoma a plant of almost any size may be obtained.

For a plant of this Fern my thanks are due to Mr. William Ingram, of Belvoir Castle, and for fronds to M. Schott, of the Imperial Gardens of Schonbrünn, near Vienna.

It is in all the Nurserymen's Catalogues.

The illustration is from a plant in my own collection.
Nephrolepis exaltata.


Plate XIX. Vol. VII.

Polypodium exaltatum, Linnaeus. Plumier.
" vivulare, Vahl.
Aspidium exaltatum, Swartz. Schkuhr? Raddi?
" " Kauffuss. Sprengel.
" " eminens, Wickstr.
" ensifolium, Blume. (Not Swartz.)
" flagelliferum, Wallich.
" sublanosum, Wallich, in part.
" commutata, Humboldt and Bonpland.
Nephrolepis—Kidney-scaled. Schott.

Exaltata—Lofty.

A well-known, commonly-cultivated, ornamental Fern. An evergreen stave species. Native of Jamaica, New Holland, Sandwich Islands, West Indies, South America, and Central America.

Introduced by Mr. Anderson into the Royal Gardens, Kew, in the year 1793.

Fronds glabrous, pinnate, linear-lanceolate, elongate, and slender. The pinnae sub-cordate and oblong-acute; the base on the upper side auriculate; margin serrate.
Rachis and stipes covered with narrow scales of a brown colour.

Sori circular, transversely uniserial, about twenty pairs on each pinna. Indusium reniform.

Veins forked; venules direct and free.

There are about a hundred and twenty pairs of pinnae on each frond.

Fronds terminal, and adherent in a fascicle to a creeping wiry rhizoma.

Length of frond from thirty-five to sixty inches, width from two to three inches; colour pale green.

For plants of this Fern my thanks are due to Mr. Pass, gardener to Mr. Brocklehurst, of The Fence, Macclesfield; to Mr. E. Cooling, Nurseryman, Derby; to Mr. Clarke, of the Royal Gardens, Glasgow; and to Mr. Lamb, gardener to Mr. F. Wright, of Osmaston Manor, near Ashbourne; and for fronds to M. Schott, of the Imperial Gardens of Schonbrunn, near Vienna.

It is in all the Nurserymen's Catalogues.

The illustration is from a plant in my own collection.
Nephrolepis undulata.


Plate XX. Vol. VII.


A more dwarf species than the two preceding ones, and exceedingly handsome, especially when in fructification. It is not common in ordinary collections.

Native of West Africa—Sierra Leone.

Introduced by the Right Honourable the Earl of Derby into the Royal Gardens, Kew, in the year 1844.

Fronds glabrous and narrow-lanceolate in form; pinnate, the pinnae being cordato-oblong-acuminate and sub-imbricate; margin crenate.

Sori circular and transversely uniserial.

Veins forked; venules direct and free.

Fronds terminal and adherent, forming a small fascicle on a wiry creeping rhizoma.

Tuberous rooted. Tubers are formed beneath the soil from which issue plants the following spring.

Length of frond twelve to twenty-two inches; colour pale green.

Vol. VII.
Mr. Henderson, of Wentworth, kindly forwarded a plant and fronds of this species, and Mr. Smith, of Kew, Mr. Norman, of Hull, and M. Schott, of Vienna, other fronds.

It is in the Catalogues of Messrs. Sim, of Foot’s Cray; A. Henderson, of Pine-apple Place; and Cooling, of Derby.

The illustration is from a plant in my own collection.
Nephrolepis hirsutula.


PLATE XXI. VOL. VII.

Nephrolepis hirsutulum, Lepidonevrum hirsutulum, Aspidium hirsutulum,
" diversifolium, " exaltatum,
" pilosum, " tomentosum,
Polypodium hirsutulum,
Nephrodium hirsutulum,

Liebmann.
Fee.
Swartz. Schkuhr.
(Not of Wallich or Hamilton.)
Wallich?
Sprengel. Wallich, in part.
(Not of Swartz, Schkuhr, or Raddi.)
Langsdorff and Fischer.
Willdenow?
Forster.
Presl.


An interesting somewhat uncommon species.
An evergreen stove Fern.
Native of the East Indies, Java, Malacca, Mexico, and the Islands of the Pacific Ocean.
Introduced into England in 1823.
Fronds lanceolate in form, and pinnate; pinnae oblong-acuminate and truncate, base in some degree auriculate; margin crenulate and serrate.
Veins forked; venules direct and free.
Sori circular, transversely uniserial, and situated near the margin of the frond.

Fronds in some degree erect in habit; terminal, and adherent in a fascicle to a slender creeping rhizoma.

Length of frond from twenty-five to thirty-five inches; length of pinnae from three to four inches. Colour dark green.

Fronds covered with small ferrugineous fimbriate hair-like scales.

Mr. Henderson, of Wentworth, forwarded to me a plant and fronds of this Fern.

It is in the Catalogues of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; and A. Henderson, of Pine-apple Place.

The illustration is from a frond sent by Mr. Henderson, of Wentworth.
Pinna of fertile Frond—under side.

NEPHROLEPIS ENSIFOLIA.

Presl. J. Smith.

PLATE XXII. VOL. VII.

Aspidium ensifolium,
" acuminatum,
" acutum,
" longifolium,
" punctulatum,
" rufescens,
" multifidum,
Nephrodium platyotis,
Lepidoneuron rufescens,
" acuminatum,
" punctulatum,
" longifolium,

Swartz. Schkuhr. (Not of Blume.)
Willdenow. (Not of Gardens.)
Swartz. Sprengel.
Pohl? (Not of Desvaux.)
Swartz. (Not of Sieber.)
Schrader, a variety.
(Not of Blume or Kauffuss.)
Mettenius, a variety.
Kunze. Moore and Houlston.
Fee.
Fee.
Fee.

Nephrolepis—Kidney-scaled.  Ensifolia—Sword-leaved.

A strong-growing and by no means common species; best known as the Nephrolepis platyotis.

An evergreen stove Fern.

Native of the East Indies, Java, and Tropical America.
Fronds pinnate; lanceolate in shape; pinnae acuminate and truncate; base auriculate, margin crenately-serrate.
Veins forked; venules direct and free.
Sori uniserial and rounded-reniform.
Nephrolepis ensifolia.

Fronds terminal, and adherent in a fascicle to an exceedingly slender creeping rhizoma.
Rachis and stipes covered with woolly scales.
Fronds reclining.
Length of frond from thirty-six to forty-eight inches; length of pinnæ from four to five inches. Colour bright green.

For a plant and fronds of *N. platyotis* my thanks are due to Mr. Henderson, of Wentworth.

It is in the Catalogues of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; Booth, of Hamburg; and Cooling, of Derby.

The illustration is from a frond sent by Mr. Henderson, of Wentworth.
Pinna of fertile Frond—under side.

NEPHROLEPIS DAVALLIOIDES.


PLATES XXIII AND XXIV. VOL. VII.

Ophioglossum acuminatum, Houttuyn.


A most magnificent species, and worthy of being in every collection. A good specimen is a very handsome exhibition plant. An evergreen stove Fern.

Native of the Malayan Archipelago, East Indies, and Java.

Introduced into England in the year 1852, by Messrs. Rollisson, Nurserymen, Tooting.

Fronds glabrous and pinnate; the lower portion of pinnae barren, lanceolate-acuminate in form, the edge obtusely serrate; the upper portion fertile, considerably narrower, and much elongated; profoundly crenato-lobate, the lobes being rounded and having a single sorus at the apex.

The barren pinnae are about five inches long and three-quarters of an inch wide, whilst the fertile ones are ten inches long and not half an inch wide.

Rachis covered with small narrow scales, fluted above, rounded beneath; green above, and brownish beneath, especially near the base. Veins forked; venules direct and free.
Pinnæ, lower portion opposite or sub-opposite, upper portion mostly alternate. There are about sixty pairs of pinnæ on each frond.

Fronds pendant and very graceful. Pinnæ rather distant and horizontal.

Sori circular; about forty pairs on each pinna.

Indusium reniform, and situated immediately within the margin of the lobe.

Rhizoma wiry, creeping, and scaly, to which the fronds are adherent in fascicles.

Length of frond from thirty-five to fifty-five inches; colour bright green.

There is a very beautiful variety of this species, having its divisions deeply cut into lobes, as Mr. Sim remarks, much in the same way as the elegant varieties of Polypodium vulgare, (that is, cambricum and semilacerum.)

There are very few monstrosities, as they are termed, amongst the exotic Ferns, but as there is an increasing desire to cultivate our foreign species, no doubt ere long many interesting varieties will be added to our collections.

For a plant my thanks are due to Mr. Parker, of Holloway; and for fronds to Mr. Henderson, of Wentworth, and to Mr. Ingram, of the Royal Gardens, Windsor.

It is in the Catalogues of Messrs. Veitch, of Chelsea; Rollisson, of Tooting; Sim, of Foot’s Cray; Jackson, of Kingston; Booth, of Hamburg; E. G. Henderson, of St. John’s Wood; and Cooling, of Derby.

The variety is in Mr. Sim’s Catalogue.

The illustration is from my own plant.

Pinna of barren Frond—upper side.
Portion of mature Frond—under side.

Nephrolepis Tuberosa.


Plate xxv. Vol. VII.

Nephrodium edule, Don.
" " tuberosum, Link.
" " auriculatum, Martens and Galleotti.
" " bulbosum,
" " imbricatum,
" " obtusifolium,
" " paricense,
" " sublanosum,
" " tayovanum,
Nephrolepis occidentalis, Kunze. Liebmann.


Another handsome Fern bearing tubers on the roots, similar to Nephrolepis undulata, but the fronds do not die down in winter as with that species.

An evergreen stowe Fern.
Native of the East Indies, Jamaica, and China.

Vol. VII.
Nephrolepis tuberosa.

Introduced into the Royal Gardens, Kew, in the year 1841, having been received from the Berlin Royal Gardens.

The fronds, which are pinnate, are slender, and of a narrow linear-lanceolate form. Pinnae cordate-auriculate, oblong, and sub-imbricate; apex rounded; margin in some degree serrate.
Veins forked; venules direct and free.
Sori transversely uniserial, and circular. Indusium reniform.
Rachis and stipes covered with narrow hair-like scales.
Fronds terminal, forming a fascicle on a slender creeping rhizoma.

Length of frond from eighteen to twenty-four inches; colour deep green.

Mr. Henderson, of Wentworth, has sent a plant and fronds of this species, and M. Schott, of Vienna, other fronds.

It is in the Catalogues of Messrs. Sim, of Foot's Cray; Veitch, of Chelsea; Booth, of Hamburg; Kennedy, of Covent Garden; Masters, of Canterbury; Young, of Taunton; Stansfield, of Todmorden; and Cooling, of Derby.

The illustration is from Mr. Henderson's frond.
AVOODSIA.

GENUS X.

WOODSIA. Robert Brown.

A small interesting family, chiefly confined to cold climates, growing in crevices of rocks. Dwarf Ferns.

England boasts of two species, the Woodsia hyperborea and W. ilvensis, and they rank among her rarest indigenous plants.

The name is in honour of J. Woods, an eminent British Botanist.

Kunze, in his “Index Filicum,” enumerates—

Woodsia glabella, Brown.
  " hyperborea, Brown.
  " ilvensis, Brown.
Physematium incisum, Kunze.
  " molle, Kaulfuss.
  " obtusum, Kunze.

Presl, in his “Tentamen Pteridographiae,” gives—

Physematium molle, Kaulfuss.
  " Perrinianum, Presl.
  " incisum, Presl.
Polypodium hyperboreum, Swartz.
  " ilvense, Swartz.

Fee, in his “Genres de la Famille des Polypodiacees,” enumerates—

Woodsia ilvensis, Brown.
  " hyperborea, Brown.
  " glabella, Brown.
  " mollis, J. Smith.
  " elongata, Hooker.
  " Guatemalensis, Hooker.
  " Peruviana, Hooker.
  " Cumingiana, Fee.
WOODSIA.

Woodsia Perriniana, *Hooker.*
“ incisa, *Gillies.*

Sir W. J. Hooker, in his "Species Filicum," enumerates—
Woodsia mollis, *J. Smith.* Mexico.
" elongata, *Hooker.* Northern India.
" incisa, *Gillies.* Argentine Republic.

Sori globose, and covered with a soft membranaceous indusium, more or less globose, covering the entire sorus, and eventually opening at the top.
Fronds membranaceous, small, pinnate, bipinnate, or subtripinnate.
Rhizoma tufted.
Veins simple, forked, or pinnate, from a central costa; venules free.
Portion of mature frond—under side.

WOODSIA MOLLIS.

J. SMITH. HOOKER. LIEBMANN. FEE.

PLATE XXVI. VOL. VII.

Aspidium bulbosum,
PRESL. SCHOTT.
Woodsia Mexicana,
LINK. (Not of Gardens.)
Brown. Wallich.


A species that flourishes well in English Gardens.
A deciduous hardy Fern.
Native of Mexico—in the temperate regions.
Introduced into the Royal Gardens, Kew, in 1841, having been received from the Royal Gardens of Berlin.
The fronds, which are lanceolate, are bipinnate and hairy; pinnae oblong-lanceolate and somewhat blunt; pinnules oblong and sessile; apex rounded, margin crenate.
Sori sub-terminal.
Indusium cup-shaped, hairy, and fringed on the margin.
Fronds terminal, and adherent to a somewhat tufted rhizoma.
Length of frond from twelve to eighteen inches; colour light green.

Mr. Joseph Henderson, of Wentworth, was good enough to send a plant of this species, and Mr. G. Norman, of Hull, fronds.

The illustration is from a plant in my own collection.
A Plant, natural size, procured by Mr. Sidebotham.

WOODSIA HYPERBOREA.

Macreight. Sowerby.

PLATE XXVII. VOL. VII.

Woodsia alpina,
" " ilvensis, var..
Polypodium ilcense,
" Arvonicum,
" marante,
" fontanum,
" hyperborearum,
" 
Acerostichum hyperborearum,
" ilvensis,
" alpinum,
Ceterach alpinum,

Deakin. Moore.
Babington.
Withering. Hull.
J. Smith. Hull.
Hoffmann.
Linneus.
Swartz. Presl.
Willdenow. Schkuhr.
Liljeblad.
Hudson. Dickson.
Bolton.
Lamarck. De Candolle.

The Round-leaved Woodsia is a very rare indigenous species, growing in crevices of rocks.

A deciduous half-hardy Fern in cultivation.

Found only on Snowdon, Crieff, Ben Lawers, Clova Mountains, Mountains of Perthshire, Ben Chonzie, Craig Challiach, Maeldun Crosk, Glen Fiadh, and on Moffat Hills.

It is a native of Wales, Scotland, Norway, Sweden, Russia, Lapland, Switzerland, Hungary, Germany, France, Spain, Siberia, Kalu, (in the Punjab,) Himalaya, Mountains of Massachusetts at Saskatchewan, Rocky Mountains, Great Bear Lake, and Davis' Straits.

Introduced into the Royal Gardens, Kew, in the year 1793.

Fronds membranaceous, narrow-lanceolate, pinnate, and slightly scaly beneath; pinnæ triangular and pinnatifid; base in a slight degree cordate, with rounded-obtuse segments; pinnæ usually alternate. Sori circular, medial, and eventually confluent.

Indusium deeply laciniated, and ending in capillary-articulated segments.

Stipes articulated near the centre.

Fronds adherent to a somewhat tufted rhizoma.

Length of frond from two to six inches; colour dull green. Stipes and rachis slightly hairy. Stipes pale reddish brown in colour.

Pinnæ below distant, above crowded.

Veins branched, terminating within the margin in a slightly thickened apex.

To cultivate Woodsia ilvensis and W. hyperborea, it is requisite to give them a damp cool atmosphere, such as a cold frame with a north aspect; drain the pots well and do not over-pot. Small pieces of freestone round the plants is an advantage. Although the plants delight in a damp atmosphere improper drainage and sunshine are alikedestructive to them.

For plants my thanks are due to Mr. G. Norman, of Hull, and Mr. Sim, of Foot's Cray; and for fronds to Professor Balfour, of Edinburgh, and to Mr. Joseph Sidebotham, of Manchester.

The illustration is from Professor Balfour's fronds.
Welsh plant, natural size, found by Mr. Sidebotham.

WOODSIA ILVENSIS.


PLATE XXVII. VOL. VII.

Woodsia vestita,
" Raiana,
" rufidula, 
Acrostichum ilvense,
" marante, 
Polypodium maranta, 
" arvonicum, 
" ilvense, 
" "
" "
Aspidium distans, 
" rufidulum, 
" "

VOL. VII.

The Oblong Woodsia is a beautiful dwarf indigenous species, growing in crevices of rocks, and very rare in Great Britain. A deciduous half-hardy species under cultivation.

Introduced into the Royal Gardens, Kew, in the year 1791. Found only on Glyder Fawr, North Wales, Falconclints, in Teesdale, Moffat, and on the Clava Mountains, Stirling, Ben Lawers, Forres, Dumfries, Pebbles, and Selkirk; Westmorland, Bowness, in Cumberland, and on Snowdon.

Abroad it is found in Iceland, Greenland, Lapland, Sweden, Norway, Russia, Spain, Italy, Siberia, Altai Mountains and Lake Baikal, Germany, Kamtschatka, Saskatchewan, Rocky Mountains, Canada, and the United States.

The fronds, which are lanceolate, are pinnate and hairy, more especially beneath; pinnae oblong and profoundly pinnatifid, with oblong-obtuse, sometimes crenated lobes.

Sori circular and sub-terminal.
Indusium deeply laciniate and ending in jointed hairs.
Stipes articulated considerably above the rhizoma; stipes and rachis chaffy. Rhizoma in some degree tufted.
Length of frond from three to six inches; colour pale whitish green.
Stipes pale reddish brown, from one to two inches long.
Pinnae sometimes opposite, and sometimes alternate.
Lobes more numerous than in Woodsia hyperborea.
Veins branched.

W. ilvensis is broader than W. hyperborea, and the pinnae more oblong; it can also be recognised by its under surface being very scaly.

For plants my thanks are due to Mr. Backhouse, of York, and to Mr. Pearson, of Chilwell; and for fronds to Mr. Joseph Sidebotham, of Manchester, and to Professor Balfour, of Edinburgh.

The illustration is from Professor Balfour's fronds.
Portion of mature Frond—under side.

WOODSIA OBTUSA.


PLATE XXIX. VOL. VII.

Polypodium obtusum, " Perriniana,
Woodsia Perriniana,
Aspidium obtusum, " "
Physæmatium obtusum, " Perrinanum,
Cystopteris obtusa, " albescens,
Alsophila Perriniana,

Swartz. Schkuhr.
Schkuhr.
Hooker and Greville. Fee.
Willdenow. Schkuhr.
Webb and Mohr. (Not of Kunze.)
Kunze? Hooker.
Kunze. Presl.
Presl.
Link.
Sprengel.


A pretty hardy species, distinct and well-defined in its characters.
A deciduous Fern.
Native of the United States, Pennsylvania, Virginia, Kentucky, and the Rocky Mountains.
 Cultivated in the Royal Gardens, Kew, in 1836.
The fronds, which are lanceolate, are sub-tripinnate, clothed beneath with glandulous hairs; the pinnæ are triangularly elongate; the pinnules oblong, rounded at the apex, and crenate on the margin.

Sori terminal.

Indusium profoundly laciniated.

Fronds terminal, and adherent to a somewhat tufted rhizoma. Length of frond twelve inches; colour yellowish green.

Mr. Henderson, of Wentworth, has been kind enough to send me a plant, and Mr. G. Norman, of Hull, fronds.

The illustration is from a plant in my own collection.
GENUS XI.

CYSTOPTERIS. Bernhardi.

An interesting, dwarf, elegant, small tribe, with membranaceous-herbaceous fronds.
The sori medial and covered by an indusium, which is attached by its broad base.
The veins are simple, forked, or pinnate, from a central costa; the venules being free.
Fronds much divided.
Rhizoma tufted, decumbent, or creeping.
This small genus is a native of the temperate or cold climates, the fronds dying down in winter.

England boasts of possessing nearly the whole of the species, namely:—*Cystopteris fragilis, angustifolia, (var. of fragilis,)*
*regia, montana, Dickieana, and dentata, (var. of fragilis,)*
The name is derived from the Greek, and signifies a Bladder Fern, in allusion to the inflated indusia.
The fronds vary from three to eighteen inches in length.
Mr. Moore, in “The Genera and Species of Cultivated Ferns,” enumerates—

Fragilis. Bernhardi.  
Dentata. Hooker.  
Dickieana. Sim.  
Bulbifera. Bernhardi.  

Alpina. Desvaux.  
Tenuis. Schott.  
Montana. Link.  

Also, in his “Index Filicum,”—

Fragilis. Bernhardi.  
Regia. Desvaux.  
Bulbifera. Bernhardi.  

Douglasii. Hooker.  
Tenuis. Desvaux.  
Montana. Bernhardi.  

Mr. Moore considers alpina and regia as forms of the same Fern, and fragilis, angustata, dentata, and Dickieana, as all forms of fragilis.
In the present work *angustata* and *dentata* are included as varieties of *fragilis*, whilst *Dickieana* is kept distinct.

Mr. Smith, in his "Catalogue of the Ferns Cultivated at Kew," gives the following:

<table>
<thead>
<tr>
<th>Name</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenuis. Schott.</td>
<td></td>
</tr>
<tr>
<td>Bulbifera. Bernhardi.</td>
<td></td>
</tr>
<tr>
<td>Fragilis. Bernhardi.</td>
<td></td>
</tr>
</tbody>
</table>

Kunze, in his "Index Filicum," enumerates

<table>
<thead>
<tr>
<th>Name</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulbifera. Bernhardi.</td>
<td></td>
</tr>
<tr>
<td>Fragilis. Bernhardi.</td>
<td></td>
</tr>
<tr>
<td>Montana. Link.</td>
<td></td>
</tr>
</tbody>
</table>

Presl, in his "Tentamen Pteridographiae," describes

<table>
<thead>
<tr>
<th>Name</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obtusa. Presl.?</td>
<td></td>
</tr>
<tr>
<td>Obovata. Presl.?</td>
<td></td>
</tr>
<tr>
<td>Atomaria. Presl.</td>
<td></td>
</tr>
<tr>
<td>Emarginulata. Presl.</td>
<td></td>
</tr>
<tr>
<td>Atrovirescens. Presl.</td>
<td></td>
</tr>
<tr>
<td>Fumarioides. Schott.</td>
<td></td>
</tr>
<tr>
<td>Bulbifera. Bernhardi.</td>
<td></td>
</tr>
<tr>
<td>Odorata. Presl.?</td>
<td></td>
</tr>
<tr>
<td>Brasiliana. Presl.</td>
<td></td>
</tr>
<tr>
<td>Gigantea. Presl.?</td>
<td></td>
</tr>
<tr>
<td>Aspidioides. Presl.</td>
<td></td>
</tr>
</tbody>
</table>

? Not species of *Woodsia*.

Hooker in his "Species Filicum," describes

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fragilis, Bernhardi.</td>
<td>England</td>
</tr>
<tr>
<td>Alpina, Desvaux.</td>
<td>England</td>
</tr>
<tr>
<td>Tasmanica, Hooker.</td>
<td>Van Dieman's Land</td>
</tr>
<tr>
<td>Bulbifera, Bernhardi.</td>
<td>North America</td>
</tr>
<tr>
<td>Montana, Link.</td>
<td>England</td>
</tr>
<tr>
<td>Crenata, Fries.</td>
<td>Sweden</td>
</tr>
<tr>
<td>Douglassii, Hooker.</td>
<td>Sandwich Islands</td>
</tr>
<tr>
<td>Albescens, Link.</td>
<td>Iceland</td>
</tr>
<tr>
<td>Squamata, Decaisne.</td>
<td>Cashmere</td>
</tr>
</tbody>
</table>
Of the species enumerated by Sir W. Hooker, *crenata, Douglasii, alboescent, squamata*, and *Tasmania*, are not yet cultivated in England.

Sir W. Hooker remarks on the doubtful species—

Cystopteris obtusa, *Presl*, is Woodsia obtusa, *Hooker*.

" obovata, *Presl*, is Asplenium obovatum, *Viviani*.


" emarginata, *Presl*, name only known.


" atrovirescens, *Presl*, name only known.

" vestita, *Presl*, is Woodsia incisa, *Gillies*.

" odorata, *Presl*, is a Lastrea.

" Brasiliana, *Presl*, name only known.

" gigantea, *Presl*, is Diacalpe aspidioides, *Blume*.

" comosa, *Presl*, is Alsophila comosa, *Hooker*.

" aspidioides, *Presl*, name only known.
Part of mature frond—under side.

**CYSTOPTERIS REGIA.**


**PLATE XXX. VOL. VII.**

Polypodium regium,
" polymorphum,
" alpinum,
" album,
" crispum,

Cystea regia,
" incisa,
" alpina,

Aspidium regium,
" trifidum,
" alpinum,
" taggetense,

Cystopteris alpina,
" " " var. regia,

Cyathea incisa,
" regia,
" alpina,

Athryum alpinum,
" regium,

Cystopteris regia,

---

Polypodium—male fern.  Cystopteris—Bladder Fern.


Regia—Royal.
The Royal or Alpine Bladder Fern is a very handsome dwarf indigenous species.

A deciduous hardy Fern, growing on walls.

Only found at Low Leyton, in Essex.

Native of Switzerland—on the Alps, in the Pyrenees—on Mount Taygetos and Mount Taurus.

Introduced into the Royal Gardens, Kew, in 1793.

The fronds, which are herbaceous, are lanceolate, sub-tribi-pinnate, smooth, and erect; pinnae ovate and unequal; pinnules ovate and profoundly pinnatifid, with linear-oblong lobes.

Veins branching.

Stipes one-third the length of the frond. Rachis winged above.

Fructification covering the back of the frond.

Sori numerous, small, circular, medial, and indusiate.

Rhizoma brief, spreading, tufted, and perennial.

Length of frond from three to eight inches; colour pale green.

For plants and fronds my thanks are due to Mr. Joseph Sidebotham, of Manchester.

The illustration is from Mr. Sidebotham’s fronds.
Portion of mature Frond—under side.

CYSTOPTERIS FRAGILIS.


PLATES XXXI AND XXXII. VOL. VII.

Aspidium fragile,
   " "
   " trifidum,
   " fragile, var.,
   " rheiicum,
   " dentatum,
   " Pontederæ,
Cystopteris orientalis,
   " rheiicæ,
   " atomaria,
   " dentata, var.,
   " fragilis, var.,
   " angustata,
   " nigrescens,
   " dentata,
   " leptophylla,
   " retusa,
   " fumaroidæs,
   " Pontederæ,
   " Chilensis,
Athyrium fragile,
   " fumaroidæs,
   " dentatum,
Cycathea fragilis,
   " angustata,
   " cynapisfolia,
   " anthriscifolia,
   " fragilis, var.,
   " fragilis, var. angustata,
   " regia,
   " dentata,
Cystea fragilis,
   " regia,
   " angustata,
   " dentata,
Cystopteris fragilis,
   " fragilis, var. rheiicæ,
   " dentata,

Cystopteris—Bladder Fern. Fragilis—Brittle.

The Brittle Bladder Fern, as it is commonly called, is an abundant species in Great Britain, and well worthy of cultivation.
An indigenous species, deciduous and hardy. It is to be met with in a vast number of places in Great Britain.

A native of England, Scotland, Ireland, Hebrides, throughout the whole of Europe, India, Persia, Armenia, Siberia, China, California, Mexico, Guatemala, Columbia, Venezuela, West Indies, New Granada, Chili, Port Famine, North Atlantic Islands, Abyssinia, and Tasmania.

It grows in the fissures of rocks and masonry.

Introduced into the Royal Gardens, Kew, in 1793.

Fronds herbaceous, smooth, sub-bipinnate, (occasionally tri-pinnate,) and oblong-lanceolate in form; pinnae ovate-lanceolate; pinnules ovate near the base, oblong near the apex, and toothed.

Veins flexuose and branched. Fructification covering the under side of the frond.

Sori numerous and nearly circular. Rhizoma perennial, short, tufted, and decumbent.

Stipes slender, brown, and slightly scaly near the base.

Length of frond from three to eighteen inches; colour dull green.

Amongst the varieties Mr. Moore gives—

1.—Frāgilis, var. dentata. Figured here as a distinct species.

2.—Frāgilis, var. angustata. This is much attenuated and lengthened at the apex; it is large in growth, having long narrow teeth on the lobes.

3.—Frāgilis, var. Dickieana. Small, from four to five inches in length; fronds narrow and bipinnate; pinnules blunt.

4.—Frāgilis, var. obtusa. Lanceolate; pinnules brief and blunt, deeply pinnatifid. Length of frond from eight to twelve inches.

5.—Frāgilis, var. decurrens. Discovered in Fife, by Mr. A. Tait. More acute than C. Dickieana.

6.—Frāgilis, var. interrupta. Fronds narrow and very dissimilar.

The wood-cut illustration is a very distinct variety found at Moffat, by Professor Balfour.

This Fern is subject to the ravages of a parasitical bright yellow fungus, the Uredo filicum; all damaged fronds from this cause should be cut away, as it spreads rapidly over the fronds.
For plants my thanks are due to Messrs. Veitch, of Chelsea; Rollisson, of Tooting; Mr. Joseph Sidebotham, of Manchester; Mr. Clapton, of Scarbro'; and M. Schott, of Vienna.

The illustrations are from Mr. Joseph Sidebotham’s fronds.

Portion of a frond of variety of C. fragilis, gathered at Moffat, by Professor Balfour.
Portion of fertile Frond—under side.

CYSTOPTERIS DICKIEANA.

SIM. NEWMAN.

PLATE XXXII. VOL. VII.

*Cystopteris fragilis var. Dickieana, Moore. J. Smith.*
*Cystopteris dentata var. Dickieana, Babington. Sowerby.*

*Cystopteris—Bladder Fern. Dickieana—Named after Dr. Dickie.

A very handsome indigenous dwarf species, easily cultivated, and making a charming specimen.

A deciduous hardy Fern.

Discovered by Dr. Dickie on dripping rocks in a cave at Cove, near Aberdeen, and since then at Dunkeld, by Dr. Balfour.

It has not been found in any other country.

Authorities feel inclined to place the *Cystopteris Dickieana* as a form of *C. fragilis*. In the present work, however, I have preferred figuring it as a distinct species. On page 79 in giving a list of Mr. Moore’s varieties, in mentioning *Var. dentata*, it is stated as being figured as a distinct species, this notification was intended to apply to *C. Dickieana*. *C. dentata*, may, however, be another form of the *C. Dickieana*.

Fronds bipinnate, and ovate-lanceolate in form, the pinnæ being rather ovate and overlapping each other, and deflexed.
Pinnules obtuse, oblong-ovate, approximate, and pinnatifid.
Rachis winged.
Stipes near the base scaly.
Terminal, and adherent to a tufted rhizoma.
Sori situated near the margin.
Length of frond from four to six inches; colour brilliant green.
Veins forked.

For plants my thanks are due to Mr. Veitch, of the Exotic Nursery, Chelsea, and to Mr. Joseph Henderson, of Wentworth; and for fronds to Mr. Joseph Sidebotham, of Manchester.
It may be procured of any Nurseryman.
The illustration is from a plant in my own collection.
Pinna of fertile Frond—under side.

CYSTOPTERIS MONTANA.

LINK. LINDLEY AND MOORE. NEWMAN. J. SMITH.
BERNHARDI. HOOKER AND ARNOTT. DEAKIN. BABINGTON.
SOWERBY. KUNZE.

PLATE XXXIV. VOL. VII.

Aspidium montanum, Swartz. Schkuhr.
" " Wilddenow.
Cystopteris allioni, Newman.
" myrrhisfolium, Newman.
" myrrhisfolium, Villars.
Athyrium montanum, Roehling.
Cyathea montana, Smith. Roth.

Cystopteris—Bladder Fern. Montana—Mountain.

The Mountain Bladder Fern is a very rare indigenous species, very distinct from all others, and having very elegant fronds.

A deciduous hardy Fern.

Discovered in 1836 on Ben Lawers, in Perthshire, by Mr. W. Wilson. Found also on the mountains between Glen
Lochey and Glen Dochart, Perthshire, and in Glen Isla, Clova, Forfarshire, and on Belvinnes, Banffshire.

Native of Scotland, Kamtschatka, Rocky Mountains of North-west America, in the extreme North of Europe, Spain, Italy, Hungary, Lapland, Norway, and on the Alps.

Fronds triangular and tripinnate; pinnae spreading, the pinnules being oblong-obtuse; segments blunt and inciso-dentate.

Fronds lateral or terminal, and adherent to a long slender creeping rhizoma.

Stipes half the length of the frond, and frequently more; slightly scaly.

Sori minute, circular, and becoming confluent.

Length of frond from four to twelve inches; colour a lively green.

To grow this Fern successfully plant it in a shallow pan, with a mixture of peat, sphagnum, and sand, giving it an open medium for its roots, a moist shady place to grow in, and water freely. In a wild state it grows on ledges of dripping rocks, amongst sphagnum.

For plants my obligations are due to Mr. Atkins, of Painswick; Messrs. Rolliison, of Tooting; and Messrs. Backhouse, of York; and for fronds to Professor Balfour, of Edinburgh.

It may be procured of Messrs. Kennedy, of Covent Garden; Veitch, of Chelsea; Sim, of Foot's Cray; A. Henderson, of Pine-apple Place; and Stansfield, of Todmorden.

The illustration is from Professor Balfour's frond.
Pinna of barren frond—under side.

CYSTOPTERIS TENUIS.


*Aspidium tenue,*
"atomarium,
*Nephrodium tenue,
Cystopteris fragilis, var.,
Swartz. Schkuhr. Willdenow.
Muhlenberg. Willdenow.
Michaux.
Hooker.


It would be difficult to find a Fern more appropriately named than this species, the fronds are so slender and fragile that they can scarcely bear their own weight, although the substance of the frond is remarkably thin. Some authorities consider it a variety of *Cystopteris fragilis*, but I think there can hardly be a doubt as to the two being perfectly distinct species.

A half-hardy deciduous Fern.

Native of North America.

The fronds are sub-tripinnate, and oblong-lanceolate in form; pinnules oblong and rather ovate, the one next the rachis being largest; profoundly pinnatifid, with blunt dentate segments.
Fronds lateral or terminal, and adherent to a creeping rhizoma.
Sori circular, medial, and minute.
Veins forked, simple, and free.
Fronds slender and glabrous.
Length twelve inches; colour a bluish green.
For plants my thanks are due to Mr. Joseph Henderson, of Wentworth, and to Mr. R. Sim, of Foot's Cray.
It may be procured from Messrs. Sim, of Foot's Cray; A. Henderson, of Pine-apple Place; E. G. Henderson, of St. John's Wood; Kennedy, of Covent Garden; and Cooling, of Derby.
The illustration is from a plant in my own collection.

Cystopteris bulbifera should be in every hardy collection, flourishing without any care and attention, and rapidly spreading itself both by its bulbs and seeds. It is really a very pretty Fern, and one that eventually will be naturalized and found wild throughout England.

A hardy deciduous species.
Native of North America—United States, Canada, Kentucky, and Virginia.

Introduced into the Royal Gardens, Kew, by Mr. Tradescant, in 1648.

The fronds, which are bipinnate, are of a lanceolate-elongate form, the pinnæ being lanceolate, and the pinnules ovate-oblong, profoundly pinnatifid, and having dentate segments. The fronds bear a number of bulbs on their under surface, which are easily detached, and speedily make plants.
Fronds terminal, being adherent to a tufted rhizoma.
Sori circular, minute, and medial.
Veins forked.
Length of frond from twelve to twenty inches; colour pale green, frequently brownish.
Stipes and rachis reddish.
For plants my thanks are due to Sir Oswald Mosley, Bart.,
of Rolleston Hall, and to Mr. J. Pearson, of Chilwell.
It may be procured of any Nurseryman.
The illustration is from a plant in my own collection.
**CONTINUATION OF POLYPODIÆ FROM VOL. II.**

---

**GENUS X.**

**HEMIONITIS. LINNÆUS.**

The fronds of this small dwarf genus are simple, and are either cordate, palmate, or pinnate. Veins reticulated and wholly covered by sporangia, being, in fact, reticulated sori.

Mr. Smith, in his "Catalogue of the Ferns of Kew," gives the following:

- Hemionitis palmata, Linnaeus.
- Hemionitis cordata, Roxburgh.
- Hemionitis pedata, Swartz.
- Hemionitis sagittata, Fee.

Feé, in his "Genres de la Famille des Polypodiacées," gives:

- Hemionitis palmata, Willdenow.
- Hemionitis cordata, Roxburgh.
- Hemionitis sagittata, Fee.

Presl, in his "Tentamen Pteridographiae," enumerates:

<table>
<thead>
<tr>
<th>Hemionitis cordata, Roxburgh.</th>
<th>Hemionitis coriacea, Presl.</th>
</tr>
</thead>
</table>

We have no British representative.
HEMIONITIS PALMATA.

**Gymnogramma palmata,**

**Hemionitis aurea-hirsuta,**


An extremely beautiful Fern when well grown, and requiring to be cultivated in a very moist atmosphere.

An evergreen stove species.

Native of the West Indies, Brazil, and Mexico.
Fronds palmate or ivy-leaf-shaped, from two to three inches wide, simple, with five oblong segments, lobed bluntly or crenulate. Terminal, being hirsute both above and below. The habit of the sterile fronds is horizontal, whilst that of the fertile ones is erect. The fronds are viviparous, bearing many young plants on their upper surface.

Rhizoma fasciculate.
Sori linear and reticulated, eventually becoming confluent.
Veins reticulated.
Length of frond from six to ten inches.
Rachis and stipes covered with red hairs.

For a plant my thanks are due to Mr. Dryden, gardener to Mr. Evans, of Allestre Hall, near Derby.

It is in the Catalogues of Messrs. Rollisson, of Tooting; Jackson, of Kingston; Veitch, of Chelsea; E. G. Henderson, of St. John's Wood; Sim, of Foot's Cray; A. Henderson, of Pine-apple Place; Stansfield, of Todmorden; Booth, of Hamburg; and Cooling, of Derby.

The illustrations are from a plant in my own collection.
Hemionitis sagittata,  
" cordifolia,

Hemionitis—Derived from hemionos, a mule.  
Cordata—Heart-shaped.

A very handsome species, and more easily grown than the Hemionitis palmata.  
An evergreen stove Fern.  
Native of the East Indies.  
The fronds, which are simple and two inches wide, are cordate or heart-shaped.  
Rachis and stipes black, and covered with pinkish white hairs.  Stem brief.  
The veins reticulated, immersed in the frond, and indistinct.  
The fronds are hirsute both above and below; the colour rich dark green above, pale green beneath.  Thick, smooth, and shining.  
Length of frond usually from six to ten inches.

OLFERSIA CERVINA.


PLATES XXXIX AND XL. VOL. VII.

"  " linearifolium,  Presl. Sprengel.
"  " sorbifolium,  Of English & Berlin Gardens.
Olfersia corcovadensis,  Raddi. Hooker. Link.
Polybotrya Raddiana,  Of Continental Gardens.
" cervina,  Kaufuss. Swartz.
"  "  Hooker and Greville.
Osmunda cervina,  Linnæus.

Olfersia—Named after Olfers, a German Botanist.  Cervina—Stag-horned.

An interesting and very distinct handsome Fern.
An evergreen stove species.
Native of the West Indies, Mexico, and Tropical America.
Introduced into the Royal Gardens, Kew, in 1841, having been received from the Messrs. Loddiges.
Fertile and sterile fronds dissimilar. Sterile fronds glabrous, pinnate, with oblong-acuminate pinnae; superior base rounded,
and inferior one truncate. Habit weeping. Fertile fronds bi-pinnate, the pinnae being linear and entirely sporangiferous; stipes covered with scales. Habit erect. The fronds terminal, and adherent to a creeping rhizoma, which is scaly.

Length of frond from twenty-four to thirty-six inches; colour bright green.

Sori amorphous, densely covering the fertile fronds.

Veins forked, internal, and combined by a transverse continuous marginal vein.

To Mr. Sim my thanks are due for a plant of this species, and to Mr. G. Norman, of Hull, for fronds.

It is in the Catalogues of Messrs. Rollisson, of Tooting; Sim, of Foot's Cray; Veitch, of Chelsea; Jackson, of Kingston; A. Henderson, of St. John's Wood; and Stansfield, of Todmorden.

The illustrations are from Mr. Norman's fronds.
HYMENODIUM CRINITUM.


PLATE XI. VOL. VII.

Acrostichum crinitum, Offersia crinita, Dicyoglossum


" " " Schott.

" " " Presl.

Hymenodium—Like skin. Crinitum—Hairy.

A very singular-looking and very dissimilar Fern, distinct from all others, and perhaps the most extraordinary Fern in cultivation.

An evergreen stove species.

Native of the West Indies, Jamaica, and Mexico. Liebmann says that he procured it in Mexico from Hacienda de Zacuapan, (the Farm of Zacuapan,) where it grew in cracks of rocks.

The fronds, which are very thick and simple, are terminal, oval-elliptical in form, the fertile fronds being shorter than the sterile ones, coriaceous, and somewhat contracted. The edge
of the frond surrounded with black hairs, and the upper surface of the frond covered with them.

The sori occupies the whole of the under side of the frond except the margin.

Rhizoma cespitose, thick, and decumbent, and densely scaly.
Rachis and stipes densely covered with black hair-like scales, half an inch in length. Stipes from six to nine inches in length.

Veins uniform, reticulated, areoles large, elongated, and somewhat hexagonal in form.

Length of frond from fifteen to twenty inches; width from six to twelve inches. Colour dull green. Stem very stout and short.

For fronds of this Fern I am indebted to Sir W. J. Hooker, Director of the Royal Gardens, Kew, and to Mr. G. Norman, of Hull.

It may be procured from Messrs. Rollisson, of Tooting; Sim, of Foot’s Cray; Jackson, of Kingston; Veitch, of Chelsea; E. G. Henderson, of St. John’s Wood; A. Henderson, of Pine-apple Place; and Booth, of Hamburg.

The illustration is from Sir W. J. Hooker’s frond.
GENUS XIII.

ACROSTICHUM. LINNÆUS.

Sori amorphous, universal on the under side of the fertile frond. Venation uniform, reticulated in the normal form, and having elongated areoles. Only one species is at present in cultivation in this country.

The section Pocilopteris differs in having the venation pinnate and the venules arcuately or angularly anastomosing. Fronds pinnate.

The section Gymnopteris differs in the pinnate veins having the venules compoundly anastomosing. Fronds simple, lobed, or pinnate.

The section Polybotrya has the veins pinnate and the venules simple, free, and external. Fronds bi-tripinnate.

The section Elaphoglossum has simple fronds. The veins simple or forked, and internal; the venules parallel, their apices being free and clavate, terminating within a thickened margin.

The section Lomariopsis has the veins uniform, simple, or forked. Fronds pinnate.

There are no British representatives.

Mr. Moore, in his "Genera and Species of Cultivated Ferns," gives—

Elaphoglossum conforme, Schott.
" crassinerve, Kunze.
" callæfolium, J. Smith.
" longifolium, J. Smith.
" scolopendrifolium, J. Smith.
" villosum, J. Smith.
" Dombeyanum, Fee.

Polybotrya cylindrica, Kaufuss.
Acrostichum aureum, Linnaeus.
ACROSTICHUM.

Cyrtogonium flagelliferum, J. Smith.
“ repandum, J. Houlston.
“ crispatum, J. Houlston.
Gymnopteris nicotianæfolia, Presl.
“ decurrens, J. Smith.

Also in his "Index Filicum"—

Elaphoglossum laminarioides. Elaphoglossum crispatum.
acrocarpon. ciliatum.
actinotrichum. perelegans.
affine. cochlearæfolium.
adenolepis. pilosum.
conforme. marginatum.
wæmulum. crassinerve.
callæfolium. consobrinum.
affine. blepharodes.
alatum. Cumingii.
alismæfolium. curvans.
Schiedei. cuspidatum.
alpestre. decoratum.
andicola. decurrens.
angulatum. didynamum.
aphlebium. dimorphum.
apodum. dissimile.
attenuatum. lepidotum.
Aubertii. durum.
auricomum. ellipticum.
Banksianum. elongatum.
horridulum. erinaceum.
Bellermannianum. erythrolepis.
viscosum. falcatum.
Boryanum. Feei.
brachyneuron. ferrugineum.
brevipes. Lindeni.
Calaguala. scolopendrisfolium.
callolepis. simplex.
calophyllum. frigidum.
cardiophyllum. vestitum.
caudatum. Funckii.
hybridum. Gardnerianum.
<table>
<thead>
<tr>
<th>Elaphoglossum squamatum.</th>
<th>Elophoglossum splendens.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gayanum.</td>
<td>micradenium.</td>
</tr>
<tr>
<td>minutum.</td>
<td>microlepis.</td>
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<tr>
<td>glaucum.</td>
<td>Moritzianum.</td>
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<td>gorgoneum.</td>
<td>stigmatolepis.</td>
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<tr>
<td>gratum.</td>
<td>tectum.</td>
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<tr>
<td>Hartwegii.</td>
<td>notatum.</td>
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<tr>
<td>Herminieri.</td>
<td>Orbignyanum.</td>
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<tr>
<td>heterolepis.</td>
<td>ovatum.</td>
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<tr>
<td>heteromorphum.</td>
<td>pachydermum.</td>
</tr>
<tr>
<td>squamosum.</td>
<td>petiolosum.</td>
</tr>
<tr>
<td>Ruizianum.</td>
<td>Webbii.</td>
</tr>
<tr>
<td>stipatatum.</td>
<td>piloselloides.</td>
</tr>
<tr>
<td>stelligerum.</td>
<td>lepidotum.</td>
</tr>
<tr>
<td>hystrix.</td>
<td>platyneuron.</td>
</tr>
<tr>
<td>impressum.</td>
<td>Plumieri.</td>
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<td>cognatum.</td>
<td>undulatum.</td>
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<td>Jamesoni.</td>
<td>Pfeppigianum.</td>
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<td>Junghuhnnianum.</td>
<td>rabdolepis.</td>
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<tr>
<td>Karstenianum.</td>
<td>ramosissimum.</td>
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<tr>
<td>laminaroides.</td>
<td>Roeslili.</td>
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<td>Langsdorfi.</td>
<td>scalpellum.</td>
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<td>Sieberi.</td>
<td>scandens.</td>
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<td>laurifolium.</td>
<td>Schomburgkii.</td>
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<td>Lechlerianum.</td>
<td>sessile.</td>
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<td>Lepervanchii.</td>
<td>setosum.</td>
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<td>leptophyllum.</td>
<td>spathulatum.</td>
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<tr>
<td>lineare.</td>
<td>squamipes.</td>
</tr>
<tr>
<td>lingua.</td>
<td>squarrosum.</td>
</tr>
<tr>
<td>linquaeforme.</td>
<td>strictum.</td>
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<tr>
<td>llloense.</td>
<td>venustum.</td>
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<tr>
<td>lonchophyllum.</td>
<td>villosum.</td>
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<tr>
<td>obductum.</td>
<td>succisefolium.</td>
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<td>stigmatolepis.</td>
<td>tambillense.</td>
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<td>macropodium.</td>
<td>tragaefolium.</td>
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<td>Martinicense.</td>
<td>hybridum.</td>
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<tr>
<td>Mathewsi.</td>
<td>Wageneri.</td>
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<tr>
<td>melanolepis.</td>
<td>Acrostichum aureum.</td>
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<tr>
<td>melanopus.</td>
<td>bicolor.</td>
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<tr>
<td>meridense.</td>
<td>contractum.</td>
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<tr>
<td>Acrostichum daneæfolium</td>
<td>Pœcilopteris punctulata</td>
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<td>------------------------</td>
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<tr>
<td>Acrostichum fraxinifolium</td>
<td>Pœcilopteris contaminans</td>
</tr>
<tr>
<td>Polybotrya appendiculata</td>
<td>Pœcilopteris costata</td>
</tr>
<tr>
<td>Polybotrya fraxinifolium</td>
<td>Pœcilopteris crispatula</td>
</tr>
<tr>
<td>Polybotrya pteroides</td>
<td>Pœcilopteris heteroclita</td>
</tr>
<tr>
<td>PolybotryaHamiltoniana</td>
<td>Finlaysoniana</td>
</tr>
<tr>
<td>Polybotrya Plumieri</td>
<td>lonchophora</td>
</tr>
<tr>
<td>Polybotrya Polybotrya</td>
<td>ludens</td>
</tr>
<tr>
<td>Polybotrya Polybotrya</td>
<td>repanda</td>
</tr>
<tr>
<td>Polybotrya Poecilopteris</td>
<td>Hookeriana</td>
</tr>
<tr>
<td>Gynnopteris Zollingeri.</td>
<td>Presliana</td>
</tr>
<tr>
<td>Gynnopteris taccaefolia.</td>
<td>Quoyana</td>
</tr>
<tr>
<td>Gynnopteris decurrens</td>
<td>serratifolia</td>
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<tr>
<td>Gynnopteris quercifolia.</td>
<td>suberena</td>
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<tr>
<td>Gynnopteris obtusifolia.</td>
<td>terminans</td>
</tr>
<tr>
<td>Gynnopteris normalis</td>
<td>virens</td>
</tr>
<tr>
<td>Gynnopteris lanceolata</td>
<td>Anapausia acuminata</td>
</tr>
<tr>
<td>Gynnopteris axillaris</td>
<td>aliens</td>
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<tr>
<td>Lomariopsis spondiæfolia.</td>
<td>bicuspis</td>
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<tr>
<td>Lomariopsis buxifolia</td>
<td>Heudelotii</td>
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<tr>
<td>Lomariopsis erythrolepis.</td>
<td>dentata</td>
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<td>Lomariopsis phlebodes</td>
<td>nicotanæfolia</td>
</tr>
<tr>
<td>Lomariopsis Boryana</td>
<td>semipinnatifida</td>
</tr>
<tr>
<td>Lomariopsis sorbifolia</td>
<td>vespertilio</td>
</tr>
<tr>
<td>Lomariopsis variabilis</td>
<td></td>
</tr>
</tbody>
</table>

Mr. Smith, in his "Catalogue of the Ferns Cultivated at Kew," enumerates—

<table>
<thead>
<tr>
<th>Pœcilopteris flagellifera, J. Sm.</th>
<th>Elaphoglossum conforme, Schott.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gymnnopteris quercifolia, Bernh.</td>
<td>longifolium, J. Smith.</td>
</tr>
<tr>
<td>nicotianæfolia, Presl.</td>
<td>latifolium, J. Smith.</td>
</tr>
<tr>
<td>aliena, Presl.</td>
<td>scolopendrifolium, J. Sm.</td>
</tr>
<tr>
<td>Polybotrya osmundacea, Hum.</td>
<td>muscosum, J. Smith.</td>
</tr>
<tr>
<td>and Bonpland.</td>
<td>lepidotum, J. Smith.</td>
</tr>
<tr>
<td>acuminata, Link.</td>
<td>rubiginosum, J. Smith.</td>
</tr>
<tr>
<td>incisa, Link.</td>
<td>brachyneuron, J. Smith.</td>
</tr>
<tr>
<td>Lomariopsis sorbifolia, Fee.</td>
<td>apodum, Schott.</td>
</tr>
</tbody>
</table>
Kunze, in his "Index Filicum," enumerates—

Acrostichum alatum, Fee.  Acrostichum lingua, Raddi.
  apodum, Kaulfuss.  inæquale, Willdenow.
  aureum, Linnaeus.  juglandifolium, Kaulfuss.
  citrifolium, Linnaeus.  longifolium, Jacquin.
  crassinerve, Kunze.  melanopus, Kunze.
  crinitum, Linnaeus.  microlepis, Kunze.
  flagelliferum, Wallich.  nicotianæfolium, Swartz.
  piloselloides, Presl.  scolopendrifoliun, Raddi.
  Schiedei, Kunze.  simplex, Swartz.
  sorbifolium, Linnaeus.  villosum, Smith.
  staphyleum, Link.  viscosum, Swartz.
  glandulosum, Carmichael.

Presl, in his "Tentamen Pteridographiae," mentions under

Polybotrya ten species.  Acrostichum ten species.
Olfersia sixty-eight species.  Pecilopteris five species.
Aconiopteris one species.  Gymnopteris ten species.
Campium five species.
ACROSTICUM AUREUM.

(Not of Bory or Cavanilles.)

**PLATE XLII. VOL. VII.**

<table>
<thead>
<tr>
<th>Acrostichum fraxinifolium</th>
<th>R. Brown. (Not of Presl.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot; emarginatum,</td>
<td>Hamilton. Roxburgh.</td>
</tr>
<tr>
<td>&quot; formosum,</td>
<td>Presl. Sprengel.</td>
</tr>
<tr>
<td>&quot; crassifolium,</td>
<td>Wallich. Presl.</td>
</tr>
<tr>
<td>&quot; obliquum,</td>
<td>(Not of Gaudichaud.)</td>
</tr>
<tr>
<td>&quot; speciosum,</td>
<td>Presl.</td>
</tr>
<tr>
<td>&quot;</td>
<td>Bojer. Willdenow. Sprengel.</td>
</tr>
<tr>
<td>&quot;</td>
<td>Desvaux. Presl, in part.</td>
</tr>
<tr>
<td>&quot;</td>
<td>Blume. Kunze.</td>
</tr>
</tbody>
</table>

VOL. VII.
Acrostichum marginatum, Schkuhr. Meyer.  
(Not of Wallich or Linnaeus.)
Guinetius.
Kaulfuss. Kunze.
Presl. (Not of Kunze.)
Presl.
Willdenow. Desvaux.
Presl. (Not of Wallich.)
Presl.

Chrysodium aureum, Fee. Mettenius.
" vulgare, Fee. Mettenius.  
" hirsutum, Fee.
" sculpturatum, Fee.
" Urvillean, Fee.
" inaequale, Fee.
" Cayennensis, Fee.
" speciosum, Fee.

**Acrostichum**—From the Greek, *akros*—high, *stichos*—order.  
**Aureum**—Golden.

A **handsome** species, growing in very damp places, and by no means common in cultivation.  
An evergreen stove species.  
Raised from spores in the Royal Gardens, Kew, in 1838.  
Mr. Moore mentions the following varieties:—*Minus, rigens, hirsutum, marginatum, sculpturatum, Urvillean, inaequale, and speciosum.*  
The normal form is found in the West Indies, Cuba, Jamaica, Martinique, Guadaloupe, Florida, Mexico, Guatemala, Panama, Venezuela, Philippine and the Islands of Tongataboo, Feejee, Society, Galapagos, and New Holland.  
**Variety minus.**—A native of Java, Ceylon, India, Philippines, Sunderbund, Bourbon, Brazil, the Island of Sidheé, and Neilgherries.  
**Variety rigens.**—Native of Bourbon, Mauritius, Madagascar, Natal, Fernando Po, and Marianne Isles.  
**Variety hirsutum.**—Native of Brazil, Guiana, Guatemala, St. Domingo, Jamaica, and the Cape of Good Hope.  
**Variety marginatum.**—Native of Brazil, Venezuela, and Essequibo.
Variety *Urvillei.*—Native of Moluccas, Guinea, Tahiti, New Holland, the Friendly Isles, North Caledonia, and Port Essington.

Variety *inaequale.*—India, Java, Philippines, Penang, Singapore, Marianne Island, Panama, Mexico, Guinea, Surinam, and Cayenne.

Variety *speciosum.*—India, Ceylon, Java, Philippines, and New Holland.

This very handsome Fern has its fronds glabrous, the sterile ones pinnate, the pinnae being lanceolate-acuminate and somewhat membranous; the basal ones petiolate, with a wedge-shaped base; the upper ones adnate at their inferior base, and decurrent. Habit reclining.

The fertile fronds contracted, pinnate, the whole under side of the frond being soriferous, except occasionally that two or three of the lower pairs of pinnae will be sterile.

Sori amorphous.

Veins reticulated, and forming elongated areoles.

Rhizoma erect and caudiciform.

Length of frond from seventy to one hundred and twenty inches; colour light green.

As this Fern grows in morasses and water-courses, it is necessary to supply it with abundance of water, placing the pot in a pan of water, and potting with a mixture of turfy loam and sand, and growing it in stove heat: by this means a magnificent plant may be obtained.

For a plant of this species I am indebted to M. Schott, Director of the Imperial Gardens of Schonbrunn, Vienna; and for fronds to the same gentleman, Mr. G. Norman, of Hull, and Sir W. J. Hooker, Director of the Royal Botanic Gardens, Kew.

It may be procured of Messrs. Sim, of Foot's Cray; E. G. Henderson, of Wentworth; and Booth, of Hamburg.

The illustrations are from fronds sent me by Mr. Smith, Curator of the Royal Gardens, Kew.
Portion of a pinna of barren Frond—under side.

ACROSTICHIUM FLAGELLLIFERUM.


PLATE XLIII. VOL. VII.

Poecilopteris flagellifera, 
" heteroclita, 
Cyrtogonium flagelliferum, 
" 
Heteronevron heteroclitum, 
Acrostichum heteroclitum, 

J. Smith. 
Moore. Presl. 
J. Smith. 
Moore and Houlston. 
Fee. 
Presl.

Acrostichum—From the Greek, akros—high, and stichos—order. 
Flagelliferum—Rod-bearing.

IN THE SECTION Poecilopteris OF AUTHORS.

A free-growing species, somewhat difficult to manage successfully.
An evergreen stove Fern.
Native of the East Indies.
Introduced into the Royal Gardens, Kew, in 1828, having been received from Dr. Wallich.
The fronds are prolific. Sterile frond glabrous, pinnate, the pinnae being petiolate, ovate or oblong-acuminate, undulated,
and glabrous; the terminal pinnae at least twelve inches in length, becoming narrower towards the apex, near which it is proliferous. Fertile frond contracted and pinnate; pinnae oblong-acuminate and petiolate, the terminal one narrow and elongated.

Lateral, and adherent to a creeping rhizoma.

Sori amorphous.

Veins pinnate, the venules being arcuately anastomosing.

Length of sterile frond from eighteen to thirty inches, of fertile frond from twelve to eighteen inches; colour a dull heavy green.

For a plant of this Fern my thanks are due to Mr. Stewart, late gardener at Sudbury Park; and for fronds to M. Schott, of the Imperial Gardens, Schonbrunn; Mr. Gray, of St. Thomas', Exeter; and to Mr. G. Norman, of Hull.

It may be procured of Messrs. Sim, of Foot's Cray; E. G. Henderson, of Wentworth; Booth, of Hamburg; and Cooling, of Derby.

The illustration is from a frond sent by Mr. Gray, of St. Thomas', Exeter. The following engraving is diminished from a fertile frond, sent by M. Schott.
ACROSTICUM CONFORME.


PLATE XLIV. VOL. VII.

Elaphoglossum conforme,  
Acrostichum ænumulm,

" angustatum,
" "
" conforme var. angustum,
" glandulceum,
" "
" latifolium,
" "
Olfersia conformis,
" angustata,

Blume. (Not of Kaulfuss  
or Moritz.)
Schrader. Schkuhr.
Schlechtendal, a variety.
Kunze, a variety.
Carmichael. Kunze.
Hooker and Greville, a variety.
Swartz, in part.
(Not of Sieber.)
Desvaux.
Presl.
Presl.

Acrostichum—From the Greek, akros—high, and stichos—order.  
Conforme—Conformed.

In the Section Elaphoglossum of Authors.
A handsome dwarf species, with very thick shining fronds. An evergreen stove Fern.

Native of Jamaica, Java, South Africa, and the Cape of Good Hope.

Introduced into the Royal Gardens, Kew, in 1841, by Mr. D. Cameron.

Fronds erect; the sterile ones glabrous, coriaceous, simple, and oblong-acuminate in form, the base being attenuated. Fertile fronds small, and ovate or oblong-acuminate in form.

Rhizoma scaly and creeping.

Sori amorphous, densely covering the under side of the frond.

Veins forked and free.

Length of sterile frond from six to twelve inches, of fertile frond from six to ten inches; colour a rich dark shining green.

Articulated near the rachis.

For a plant of this Fern my thanks are due to Mr. J. Henderson, of Wentworth; and for fronds to Mr. G. Norman, of Hull.

It may be procured of Messrs. Veitch, of Chelsea; Rollisson, of Tooting; Sim, of Foot's Cray; A. Henderson, of Pine-apple Place; Booth, of Hamburg; and Cooling, of Derby.

The illustrations are from fronds sent by Mr. Joseph Henderson, of Wentworth.
ACROSTICHUM SCOLORPENDRIFOLIUM.

RADDI. KUNZE. LINK. FEE.

PLATE XLV. VOL. VII.

_Elaphoglossum scolopendrifolium_,
_Acrostichum fimbriatum_,
_Olfersia scolopendrifolia_,

J. SMITH. MOORE.
BERLIN GARDENS.
PRESL.

_Acrostichum—From the Greek, akros—high, and stichos—order._
_Scolopendrifolium—Scolopendrium-leaved._

IN THE SECTION ELAPHOGLOSSUM OF AUTHORS.

A HANDSOME dwarf species.
An evergreen stove Fern.
Native of Brazil.

Introduced into the Royal Gardens, Kew, in the year 1841, having been received from the Messrs. Loddiges.

Fronds simple. Sterile frond oblong-lanceolate and acuminate, the stipes being one-third of the length of the frond, and undulated; the stipes, rachis, and margin of the frond covered with long cordate scales of a brown colour. Fertile frond much smaller, oblong-lanceolate, and acuminate, the stipes
being two-thirds of the length of the frond. Fertile fronds erect in habit. Articulated near the base of the stipes.

Rhizoma short, creeping, and scaly.

Sori amorphous, the under side being densely covered with it.

Veins forked, the apices free and clavate.

Length of frond, sterile twelve to fifteen inches, fertile twelve inches; colour pale green.

My thanks are due to Messrs. Rollisson, of Tooting, for a plant of this Fern, and to Mr. J. Henderson, of Wentworth, for fronds.

It may be procured of Messrs. Rollisson, of Tooting; Sim, of Foot's Cray; Jackson, of Kingston; and A. Henderson, of Pine-apple Place.

The illustrations are from fronds forwarded by Mr. Joseph Henderson, of Wentworth.
ACROSTICHUM CRISPATULUM.

Wallich. (Not of Fee.)

PLATE XLVI. VOL. VII.

_Cyrtogonium crispatulum_, Moore and Houlston.

_Acrostichum_—From the Greek, _akros_—high, and _stichos_—order. _Crispatulum_—Curled.

IN THE SECTION _Pœciliopteris_ OF AUTHORS.

An exceedingly handsome uncommon species.
An evergreen stove Fern.
Native of the East Indies and the Island of Ceylon.
The fronds, which are somewhat erect, are pinnate, lanceolate-acuminate in form, the _pinnae_ being petiolate, undulated, glabrous, and linear-acuminate in form, the margin crenate, with a row of spinulose teeth. The fertile _pinnae_ narrow.
Stipes scaly.
Lateral, and adherent to a creeping scaly _rhizoma_.
Sori amorphous.
Veins pinnate and arcuately anastomosing.
Length of sterile frond from eighteen to twenty-four inches, of fertile frond twelve inches; colour deep green.
My thanks are due to Mr. Joseph Henderson, of Wentworth, for a plant and fronds of this species.
It is in the Catalogues of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; and E. G. Henderson, of St. John's Wood.
The illustration is from a frond forwarded by Mr. Joseph Henderson, of Wentworth.
ACROSTICHUM FRIGIDUM.

LINDEN.

PLATE XLVII. VOL. VII.

_Acrostichum rubiginosum, f_  
  "  _Schiedei, f_  
  "  _brachyneuron,_  
_Elaphoglossum frigidum,_  
  "  _viscosum,_  
  "  _rubiginosum, f_  
  "  _brachyneuron,_  

_Fee._  
_Kunze._  
_Fee._  
_J. Smith. Moore._  
_Of Gardens. (Not of Schott._)  
_J. Smith._  
_J. Smith._

_Acrostichum—From the Greek, akros—high, and stichos—order._  
_Frigidum—Frigid._

_IN THE SECTION ELAPHOGLOSSUM OF AUTHORS._

An exceedingly interesting species, and when well grown a compact handsome Fern: more generally known in gardens as the _Elaphoglossum viscosum._ The habit of the plant is good, the strap-shaped fronds being crowded, weeping, and graceful. An evergreen stove Fern. 
_Native of Tropical America._
The frond, which is simple, is lanceolate-acuminate in form, rich green in colour, but rendered somewhat glaucous by the great number of stellate whitish scales which cover the whole upper surface of the frond; beneath these scales are brownish red.

Veins internal, indistinct, and forked.

Stipes and rachis scaly; midrib flat above, rounded and prominent on under side of frond.

Sori amorphous, and covering the whole of the under side of the frond. Fertile frond contracted. Sometimes the lower portion of a frond will be fertile, whilst near the apex it is barren and broad.

Length of frond about fifteen inches, of which the lower three inches is the stipes.

For a plant my thanks are due to Messrs. Booth, of Hamburg; and for fronds to Mr. G. Norman, of Hull, and Mr. Joseph Henderson, of Wentworth.

Included in the Catalogues of Messrs. Veitch, of Chelsea; Rollisson, of Tooting; Jackson, of Kingston; Sim, of Foot’s Cray; and Booth, of Hamburg.

The illustrations are from a plant in my own collection.
ACROSTICHUM SQUAMOSUM.

Schkuhr. Swartz. (Not of Presl or Sprengel.)

PLATE XLVIII. VOL. VII.

Elaphoglossum squamosum, Moire.
" muscosum, J. Smith.
Acrostichum muscosum, Swartz. Willdenow.
" " " Kaulfuss. Fee.
" vestitum, Hooker and Greville.
Olferia muscosa, (Not of Schlechtendal
or Liebmnn.)

Acrostichum—From the Greek, akros—high, and stichos—order.
Squamosum—Scaly.

In the Section Elaphoglossum of Authors.

A remarkable-looking Fern.
An evergreen stove plant.
Native of Madeira and Tropical America.
Fronds simple. Barren frond elliptical, attenuated downwards
into a short stipes and upwards into a somewhat obtuse apex.
Fronds scarcely an inch wide; stipes an inch in length. Thickly covered both above and below with variously-shaped, ciliated, closely adpressed scales, which are brownish or fulvous in the centre, with white ciliate.

The fertile frond much narrower, on a long stipes about equal in length with the frond; the width of the fertile frond half an inch. Apex obtuse, and, as in the barren frond, densely covered with scales. The midrib and margin of both fronds are more thickly covered with scales of a larger size.

Rhizoma creeping.
Sori amorphous, and covering the whole under side of the frond.
Length of barren frond five to six inches, of fertile frond from four to five inches; colour pale green.
For fronds and much information my thanks are due to Mr. Joseph Henderson, of Wentworth.
This plant must not be confounded with the following:—Acrostichum squamipes of Hooker, which is the Elaphoglossum squamipes of Moore; the A. squamatum of Swartz, which is the E. squamatum of Moore; the A. squamosum of Cavanilles, which is the E. squamatum of Moore; the A. squamosum of Presl, which is the E. lepidotum of Moore; the A. squarrosum of Kaulfuss, which is the E. squarrosum of Moore; or the A. vestitum of Schlechtendal or Liebmann, which is the A. fulvum of Martens and Galleotti.
It may be procured of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; and E. G. Henderson, of St. John's Wood.
The illustrations are from fronds forwarded by Mr. Henderson, of Wentworth.
Portion of mature Frond—under side.

ACROSTICHUM QUERCIFOLIUM.


PLATE XLIX. VOL. VII.

Gymnopteris quercifolia, Bernhardi. Presl.
Osmunda trifida, Sim's Catalogue.
Ophioglossum ceilanicum, Jacquin.
Dendroglossa quercifolia, Houttuyn.

Acrostichum—From the Greek, akros—high, and stickos—order.
Quercifolium—Oak-leaved.

IN THE SECTION GYMNOPTERIS OF AUTHORS.

An uncommon and singular dwarf species, having short-stalked, nearly prostrate, oak-leaf-shaped, inch wide, barren fronds; rather hirsute, with short brown hairs.

An evergreen stove Fern.

Native of the Island of Ceylon.

Fronds ternate and lateral. The fertile fronds very much contracted, linear, sub-repand, halbert-shaped, erect, and on lengthy footstalks.

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Veins pinnate; venules compoundly anastomosing.
Rhizoma creeping slowly.
Sori amorphous, copious, and covering the whole under side of the frond.
Length of frond from three to six inches; the fertile frond being nearly twice the length of the sterile one.
For a plant my thanks are due to Mr. R. Sim, of Foot's Cray; and for fronds both to Sir W. J. Hooker, of the Royal Gardens, Kew, and to Mr. R. Sim.
It may be procured of Mr. R. Sim, of Foot's Cray.
The illustration is from a plant in my own collection.
Portion of mature Fronl—under side.

**ACROSTICHUM NICOTIANÆFOLIUM.**


**PLATE 1. VOL. VII.**

*Gymnopteris nicotianæfolia,*  
*Anapausia nicotianæfolia,*  
*Chrysodimum nicotianæfolium,*  
*Presl. J. Smith. Fee.*  
*Moore and Houlston. Schott.*  
*Moore.*  
*Mettenius.*

*Acrostichum—From the Greek, akros—high, and stichos—order.*  
*Nicotianæfolium—Tobacco-leaved.*

**IN THE SECTION GYMNOPTERIS OF AUTHORS.**

A pretty and by no means common Fern.  
An evergreen stove species.  
Native of the West Indies, Jamaica, Cuba, Trinidad, Guiana, and Para.  
Introduced into the Royal Gardens, Kew, in the year 1843, having been received from Mr. N. Wilson.  
Barren and fertile fronds different.
Sterile frond glabrous, pinnate, and shining; the pinnae being oblong-acuminate, undulated, large, and somewhat membranous; the basal ones petiolate, and roundish at the base, the upper pinnae adnate-decurrent. Fertile frond pinnate or bipinnate below; the pinnae oblong-ovate; the basal ones petiolate and the upper ones adnate.

Stipes covered with narrow scales, scaly near the base.

Fronds lateral, and adherent to a creeping rhizoma. Fertile fronds erect in habit.

Sori amorphous.

Veins pinnate; venules compoundly anastomosing.

Length of frond from twelve to thirty inches; colour bright green.

For a frond my thanks are due to M. Schott, Director of the Imperial Gardens of Schonbrunn, near Vienna.

It is in the Catalogues of Messrs. Sim, of Foot's Cray; A. Henderson, of Pine-apple Place; E. G. Henderson, of Wentworth; and Booth, of Hamburg.

The illustration is from M. Schott’s frond.
Portion of mature frond—under side.

ACROSTICHUM LONGIFOLIUM.

JACQUIN. PLUMIER. SPRENGEL. (Not of Burmann.)
KUNZE.

PLATE LI. VOL. VII.

Elaphoglossum longifolium, J. Smith.
" crassinerve, Moore.
Olfersia longifolia, Moore. Presl.
Acrostichum latifolium, Swartz, in part.
Aconiopteris longifolia, (Not of Sieber.) Fee.

Acrostichum—From the Greek, akros—high, and stichos—order.
Longifolium—Long-leaved.

In the Section Elaphoglossum of Authors.

An interesting dwarf species, more generally known in gardens as Elaphoglossum latifolium.
An evergreen stove Fern.
Native of the West Indies and Tropical America.
Introduced into the Royal Gardens, Kew, in 1841, having been received from Mr. D. Cameron.
Fronds simple and glabrous. Sterile fronds coriaceous, lan-
ceolate-acuminate in form, slightly undulated, having the base attenuated, and bright green in colour. Fertile fronds erect, also lanceolate-acuminate, attenuated at the base, smaller than the barren frond, and somewhat narrower.

Both fronds articulated immediately above the base of the stipes. Fronds lateral.

Rhizoma creeping and scaly.

Sori amorphous, densely covering the whole under surface, except the midrib, the contrast between the black sori and the green midrib being very conspicuous.

Veins forked and free, internal and indistinct.

Length of frond from twelve to eighteen inches.

Rachis and stipes, as well as the frond itself, scattered over with large brown scales.

For a plant my thanks are due to Mr. P. Clarke, Director of the Royal Botanic Gardens, Glasgow.

It may be procured of Messrs. Sim, of Foot’s Cray; Rol-lisson, of Tooting; and Jackson, of Kingston.

The illustration is from a plant in my own collection.
Portion of mature Frond, upper side, with young plant growing upon it.

ACROSTICHUM AURITUM.

Swartz. (Not of Poiret.)

PLATES LII AND LIII. VOL. VII.

Acrostichum floridum, Poirot.
Stenosemia aurita, Presl. J. Smith. Fee.
" " Moore. Rumphius.
Polybotrya aurita. Blume.

Acrostichum—From the Greek, akros—high, and stichos—order.
Auritum—Ear-leaved.

IN THE SECTION STENOSEMIA OF AUTHORS.

An exceedingly pretty dwarf Fern, and scarcely yet known in ordinary collections.
An evergreen stove species.
Native of Java.
Fronds ternately-pinnate; the pinnae being laciniately-lobed and bulbiferous, giving the plant a very interesting appearance; short-stalked, prostrate in habit, and three inches in width. Fertile segments linear, rachiferous, convolute, and nearly wholly sporangiferous; long-stalked, erect in habit, and much contracted.
Veins pinnate; the lower venules transversely anastomosing, and forming elongated costal areoles, the superior venules being free.

Fronds erect; vernation fasciculate.
Length of frond from five to ten inches.
The fertile fronds all rise from a crown, giving the plant a very pretty appearance.
Sori confluent, covering the whole of the frond.
For fronds my thanks are due to Mr. J. Smith, Curator of the Royal Gardens, Kew.
It may be procured of Messrs. Veitch, of Chelsea; Sim, of Foot’s Cray; and Booth, of Hamburg.
The illustrations are from Mr. Smith’s fronds.
ACROSTICHUM VILLOSUM.


PLATE LIV. VOL. VII.

Olfersia villosa. Presl.

Acrostichum—from the Greek, akros—high, and stichos—order. Villosum—Shaggy.

In the section Elaphoglossum of Authors.

A pretty dwarf Fern.
An evergreen stove species.
Native of Jamaica.
Introduced into the Royal Gardens, Kew, in the year 1843, having been received from Mr. N. Wilson.
Sterile fronds simple, oblong-lanceolate, acuminate, undulated, hirsute, and pale green in colour. Fertile fronds oblong-lanceolate and acuminate.
Both fronds articulated near the base of the stipes, and lateral. Rhizoma creeping and scaly.
Length of sterile frond ten inches, fertile eight inches.

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Sori amorphous, and densely covering the under side of the frond.
Veins forked and free.
For a plant of this Fern I am indebted to Mr. Joseph Henderson, of Wentworth.
This plant may be procured of Messrs. Sim, of Foot's Cray.
The illustrations are from a plant in my own collection.
ACROSTICHIUM BREVIPES.

Kunze. Fee.

PLATE LV. VOL. VII.


Acrostichum—From the Greek, akros—high, and stichos—order. Brevipes—Short-footed.

In the Section Elaphoglossum of Authors.

An ornamental Fern, known better in gardens, perhaps, as Elaphoglossum callaefolium. An evergreen stove species. Native of Java and Brazil.
Introduced into the Royal Gardens, Kew, in the year 1841, having been received from the Royal Gardens of Berlin.

Fronds simple and glabrous. Fertile frond erect in habit, ovate-elliptical, and acuminate. Sterile frond ovate or oblóng-acuminate, coriaceous, undulated, and roundish at the base.

Stipes and rachis dark purple in colour beneath, green above. Fronds articulated near the rhizoma.

Rhizoma scaly and creeping.

Length of fertile frond twelve inches, of sterile frond twelve to eighteen inches. Colour a deep shining green.

Sori amorphous, and densely covering the under side of the frond.

Veins forked and free.

For a plant my thanks are due to Messrs. A. Henderson, of Pine-apple Place Nursery.

It may be procured of Messrs. Veitch, of Chelsea; Rollisson, of Tooting; A. Henderson, of Pine-apple Place; E. G. Henderson, of Wentworth; Jackson, of Kingston; Sim, of Foot's Cray; Booth, of Hamburg; and Cooling, of Derby.

The illustration is from a plant in my own collection.
Portion of barren Frond—under side.

ACROSTICHUM CUSPIDATUM.

WILLDENOW. Fee.

PLATE LVI. VOL. VII.

Elaphoglossum cuspidatum,
Olfersia cuspidata,

Acrostichum—From the Greek, akros—high, and stichos—order.
Cuspidatum—Pointed.

IN THE SECTION ELAPHOGLOSSUM.

A handsome, dwarf, rare species, well worthy of cultivation. An evergreen stove Fern.
Native of Caraccas.
The fronds are linear-oblong, elongate, pointed, covered with whitish scales above, and with reddish scales beneath.
Stipes scaly, from two to six inches in length.
The frond narrowing to the base and to the apex.
The scales of two sorts, some membranaceous, closely adpressed, and with sub-rotund white fine hairs; the others for the most part red. Costa black.
Fructification amorphous and distinct, covering the whole under side, except the midrib, where there are red scales. Veins forked and free.

Sterile and fertile fronds different. In the example figured the sterile frond was eight inches in length, of which the stipes was two inches, broadest in the middle, where six-tenths of an inch wide, pointed at the apex, the scales on the upper surface being mostly stellate. The fertile frond eight inches and a half in length, of which the stipes was five inches and a half; width four-tenths of an inch. Apex rounded.

I am indebted to Mr. Henderson, of Wentworth, for fronds of this species.

It is in no Nurseryman's Catalogue.

The illustrations are from Mr. Henderson's fronds.
ACROSTICHIUM CRASSINERVE.

KUNZE. FEE.

PLATE LVII. VOL. VII.

Elaphoglossum crassinerve, Moore.
Acrostichum conforme, Raddi. (Not of Blume or Swartz.)
“ simplex, Sprengel. (Not of Swartz or Presl.)

Acrostichum—From the Greek, akros—high, and stichos—order.
Crassineve—Thick-nerved.

IN THE SECTION ELAPHOGLOSSUM OF AUTHORS.

A Fern of somewhat the character of Acrostichum conforme, yet more gigantic in size, and thicker in substance.

An evergreen stove species.

Native of the West Indies.

Fertile and sterile fronds different. The sterile fronds glabrous, simple, oblong-ovate, or lengthy lance-shaped in form; apex bluntly acuminated; attenuated at the base, thick, coriaceous,
and undulated. The fertile fronds also oblong-ovate in form, simple, base attenuated, and shorter and narrower than the sterile fronds.

Both fertile and sterile fronds are articulated near the base of the stipes, and are lateral.

Rhizoma short, scaly, and creeping.

Length of fertile frond from ten to twelve inches, of sterile frond from fourteen to eighteen inches; colour deep shining green. Coriaceous.

Stipes and rachis smooth and stout.

Sori amorphous, covering the whole under side of the frond.

Veins internal and forked; the apices free and clavate.

Margin of the frond thickened.

For fronds my thanks are due to Mr. T. Moore, of the Botanic Gardens, Chelsea; to Mr. J. Smith, of the Royal Gardens, Kew; and to Mr. Clarke, of the Royal Botanic Gardens, Glasgow.

It may be procured of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; and Kennedy, of Covent Garden.

The illustration is from Mr. Smith's frond.
Portion of mature Frond—upper side.

ACROSTICHUM GARDNERIANUM.

Kunze. Fee.

PLATE LVIII. VOL. VII.

*Elaphoglossum Gardnerianum*, Moore.

*Acrostichum*—From the Greek, *akros*—high, and *stichos*—order. *Gardnerianum*—Named after Mr. Gardner.

**In the Section Elaphoglossum of Authors.**

A very pretty and scarcely-known species.
An evergreen stove Fern.
Native of Tropical America.
Fronds simple; sterile and fertile different, the sterile being of a lengthy oblong, and having a pointed apex, and the fertile ones being linear and lengthy.
Veins internal and forked.
Substance of the frond thick.
Sori amorphous, and covering the whole under side.
Length about seven inches, of which the basal two inches is naked.
Acrostichum Gardnerianum.

For fronds my thanks are tendered to Mr. Joseph Henderson, of Wentworth.

It is in no English Fern Catalogues.
The illustrations are from Mr. Henderson's fronds.
ACROSTICHIUM LAURIFOLIUM.


PLATE LIX.—A. VOL. VII.

Olfersia laurifolia, Presl.
Acrostichum lingua, Kunze.
Elaphoglossum laurifolium, Moore.?

Acrostichum—From the Greek, akros—high, and stichos—order. Laurifolium—Laurel-leaved.

In the Section Elaphoglossum of Authors.

A very pretty dwarf species, almost unknown in cultivation. Mr. Moore seems inclined, from seeing the fronds here figured, to consider it as the Elaphoglossum stigmatolepis. An evergreen stove Fern. Native of Brazil.

The fronds, which are oblong-obtuse, are glabrous on both sides, the sterile ones being widest in the middle, pointed at apex, very narrow at the base, and coriaceous. The fertile fronds contracted to only half the width of the sterile ones,
very short, and having a long naked footstalk; apex pointed, but not narrowing materially at the base.

Rachis and stipes covered with very broad pale red scales. Fronds scaly beneath.

Veins forked and internal.

Sori amorphous, and covering the whole under side of the frond, except the midrib; colour reddish brown.

Length of fertile frond four inches and a half, of which the lower two inches and a half is naked; length of sterile frond six inches, the lower two inches being naked.

Stipes channeled, and somewhat four-sided.

My thanks are tendered to Mr. Joseph Henderson, of Wentworth, for fronds of this Fern.

It cannot be procured of any of our Nurserymen.

The illustration is from Mr. Henderson’s fronds.
ACROSTICHUM MELANOPUS.

Kunze.

PLATE LIX.—B. VOL. VII.

Elaphoglossum melanopus. Moore.

Acrostichum—From the Greek, akros—high, and stichos—order. Melanopus—.........?

In the Section Elaphoglossum of Authors.

The frond elliptical-oblong, with an acuminate apex; the margin fusco-paleaceous; base of frond a rounded cuneate form. Rachis and stipes covered thickly with long blackish scales. Stipes short. Outline of frond occasionally irregular and undulated. Veins forked. Length from four to five inches, of which the lower inch or inch and a half is naked. Fertile frond only half the size, elliptical-oblong, shorter and narrower. Stipes longer. Rhizoma scaly, short, and creeping. Fronds coriaceous; costa covered with stout rufous scales. For fronds my thanks are due to Mr. Sim, of Foot’s Cray, and to Messrs. Booth, of Hamburg. This Fern may be procured of Mr. Sim, of Foot’s Cray, and also of Messrs. Booth, of Hamburg. The wood-cut illustration is from a frond forwarded by Mr. R. Sim.
Pinna of barren Frond—upper side.

ACROSTICHUM ALIENUM.

SWARTZ. PLUMIER. WILLENOW. SPRENGEL. DESVAUX. KAULFUSS.

PLATE IX. VOL. VII.

Gyminopteris aliena, Presl. Hooker and Bauer.
" " Portoricense, J. Smith. Fee.
Anapausia aliena, Fee.
" cladorrhizans, var., Moore.
" portoricensis, Presl.
Acrostichum caudatum, Cavanilles, ? Swartz.
" portoricense, (Not of Hooker.)
" umbrosum, Liebmann.
" bruneum, Sprengel. Desvaux.
" cladorrhizans, Liebmann.
Paeilopteris brunnea, Sprengel. Desvaux.

VOL. VII.
Acrostichum—From the Greek, *akros*—high, and *stichos*—order.
*Alienum*—Different.

In the Section Gymnopteris of Authors.

A very distinct Fern.
An evergreen stove species.
Native of South America, West Indies, Cuba, Jamaica, Martinique, Trinidad, Portorico, Guadaloupe, Columbia, New Granada, Equador, Panama, Mexico, and Guatemala.
The fronds are pinnate, the pinnae being broad, lanceolate-elongate, and pinnatifid, the upper ones confluent; the segments ovate and obtuse-denticulate; fertile pinnae contracted, acuminate, and repand. Lower ones pinnatifid, upper ones confluent.
Stipes glabrous.
Fronds arising from a somewhat creeping rhizoma.
Veins costaeform; venules compound anastomosing.
Sori amorphous.
Length of frond from twelve to twenty-four inches.
For a frond my thanks are due to Mr. R. Sim, of Foot's Cray.
It can be procured of Mr. Sim, of Foot's Cray.
The illustration is from Mr. Sim's frond.
GENUS XIV.

POLYBOTRYA. HUMBOLDT.

A small genus of tropical Ferns, having bi-tripinnate fronds of from two to three feet high. Veins pinnate; venules free. Fertile segments convolute, pinnatifid, or spicæform, wholly sporangiferous. There is no British representative. Mr. Smith, in his "Catalogue of Ferns cultivated in the Kew Gardens," enumerates—

1.—P. osmundacea, Humboldt & Bonpland. Tropical America.
2.—P. acuminata, Link. Brazil.
3.—P. incisa, Link. Brazil.
Pinna of barren Frond—upper side.

POLYBOTRYA OSMUNDACEA.


PLATE LXI. VOL. VII.

Polybotrya cylindrica, Kaulfuss. Sprengel.
Schott.

Polybotrya—From the Greek, polys—many, and botrys—a raceme.

A very handsome Fern.
An evergreen stove species, with a scandent habit, climbing more than twenty feet up trunks of trees.
Native of Brazil, St. Catharine Island, Jamaica, and South America.
Introduced into the Royal Gardens, Kew, in 1843, having been received from Mr. N. Wilson.
Barren and fertile fronds different; the sterile ones, rising from a dark, scaly, stout, creeping stem, being erect and short-stalked. Fronds spreading, and four to six inches wide, a lengthy triangular form; edge toothed; glabrous, deep green, and having much the appearance of a Polystichum.
Sterile frond bi-tripinnate; pinnules oblong-acuminate; base of a rounded cuneate form and bluntly lobed. Fertile one contracted, also bi-tripinnate, and erect in habit.

Stipes scaly.
Sori amorphous.
Veins pinnate; venules external, free, and simple.
Rhizoma creeping.
Fronds lateral, and adherent to a coarse, scaly, creeping rhizoma.

Length of frond from twenty-four to thirty inches.
For fronds my thanks are due to Mr. Smith, Curator of the Royal Gardens, Kew.
It may be procured of Messrs. Veitch, of Chelsea; Sim, of Foot's Cray; and A. Henderson, of Pine-apple Place.
The illustration is from Mr. Smith's frond.
GENUS XV.

PLATYCELIUM. Desvaux.

A small singular family of epiphytal Ferns, the name being derived from the Greek, platys—broad, and keras—a horn, on account of the fertile fronds resembling the broad horns of the elk.

The fronds are simple, forked, coriaceous, thick, and spongy, the sterile ones sessile, permanent, and successively imbricated. The whole surface of the frond covered with a stellate pubescence.

Veins repeatedly forked and distantly anastomosing; venules internal, compoundly reticulated, with free veinlets terminating in the areoles.

Length of fronds from one to three feet.

There is no British representative.

Mr. Moore, in his "Index Filicum," enumerates—

| P. stemmaria | P. biforme |
| P. alcicorne | P. grande |

Dr. Hooker describes five species, namely:

P. stemmaria, Desvaux. Western Africa.
P. grande, Cunningham. New Holland, Singapore, and Luzon?
P. biforme, Blume. Malay Islands.
P. Wallichii, Hooker. Moulmein.
PLATYCEMIUM STEMMARIA.

Desvaux. Kunze. Presl. (Not of Schott.)

PLATE LXII. VOL. VII.

Acrostichum stemmaria, Beauvais. Palis. (Not of Commerson.)
" ethiopicum, Beauvais. Palis.
" alcicorn, Swartz. Palis. Schkuhr.
Neroplatyceris ethiopicus, Plukenet. Fer.

Platycerium—From the Greek, platys—broad, and keras—a horn.
Stemmaria—Stemmaria.

An interesting species, less known than *P. alcicorne* in collections, yet nevertheless a very curious and handsome Fern
An evergreen stove species.
Native of Western Africa.
Introduced into the Royal Gardens, Kew, in 1848.
Sterile and fertile fronds different. Sterile frond sessile, elongated, and ascending; upper portion scarcely lobed, reniform, permanent, elevated, spongy, and depressed. Fertile frond simple, horizontal, thick and coriaceous, divided, and widening upwards. Articulated with the rhizoma.
Veins repeatedly forked, and distantly anastomosing; venules internal and compoundly reticulated.
Sori occupying the lobes.
For plants and fronds my thanks are due to Mr. Joseph Henderson, of Wentworth, and to Messrs. Rollisson, of Tooting.
It may be procured of Messrs. Sim, of Foot's Cray; Rollisson, of Tooting; Veitch, of Chelsea; E. G. Henderson, of St. John's Wood; A. Henderson, of Pine-apple Place; Jackson, of Kingston; and Kennedy, of Covent Garden.
The illustration is from a frond forwarded by Mr. Henderson, of Wentworth.
PLATYCERIUM ALCICORNE.

GAUDICHAUD. KUNZE. J. SMITH. DESVAUX. SWARTZ.
MOORE. LINK. BLUME.

PLATE LXIII. VOL. VII.

Acrostichum alcicorne,
   " "
   " bifurcatum,
   " stemmaria,
Neuroplatyceros alcicornis,
Platycerium angustatum,

VOL. VII. SWARTZ, in part. TURPIN.
Sprengel. Willem.
Kaulfuss. (Not of Schkuhr.)
Cavanilles. (Not of Swartz.)
Commerson. Schott.
(Not of Bauvais.)

Fee.
Desvaux.

Y
Platycerium—From the Greek, platys—broad, and keros—a horn.

Alcicorne—Elk’s-horn.

An extremely interesting Fern, one of a singular genus of epiphytal plants, growing on the branches of trees; very easily cultivated, and making a handsome specimen when well grown.

An evergreen warm greenhouse species.

Native of New South Wales, New Holland, Java, Asia, East Indies, Australia, Malay Archipelago, Madagascar, and Peru.

Introduced into the Royal Gardens, Kew, in 1808, having been received from Mr. Caley, and now generally distributed throughout private collections.

Fertile and sterile fronds different. Sterile frond sessile and nearly circular; upper portion sub-lobate, permanent, elevated, spongy, and depressed. Fertile frond simple, divided, nearly horizontal, thick, coriaceous, widening upwards, and articulated on a short slightly-creeping rhizoma. Under surface of fronds white, and upper surface throughout covered with a dense stellate pubescence.

Veins repeatedly forked and distantly anastomosing; venules internal and compoundly reticulated, having free veinlets terminating in the areoles.

Sori amorphous in patches, formed in the lobes or at the extremities of the frond.

For a plant my thanks are due to Mrs. Empson, of Goole Hall.

It may be procured of any Nurseryman.

The coloured illustration, and an engraving from a photograph, shewing the habit of the Fern, are from a plant in my own collection.
PLATYCERIUM GRANDE.


PLATE LXIV. VOL. VII.

Acrostichum grande,  
Nevroplatyceros grandis,  

A. Cunningham.  
Fee.

Platycerium—From the Greek, platys—broad, and koras—a horn.  
Grande—Grand.

As its name implies, a grand species, only to be found in the best collections. Easily cultivated, and indeed requiring no care if grown in a proper stove house.  
An evergreen stove Fern.  
Native of the East Indies, Singapore, Luzon,? Malayan Islands, and New Holland.
Introduced into the Royal Gardens, Kew, by Mr. Bidwill, in the year 1842.

An epiphytal Fern, having fertile and sterile fronds different. The sterile frond sessile, nearly round, and ascending, the upper portion being divided into a number of broad blunt segments, permanent, spongy in texture, and depressed.

Fertile fronds simple, two or three times divided, horizontal, and pendulous at the apex, thick and coriaceous, widening upwards, and being articulated on a brief rhizoma.

Veins repeatedly forked and distantly anastomosing; venules internal, compoundly reticulated, and having free veinlets terminating in the areoles.

Sori near the sinus of the first division, and forming a large triangular patch.

The fronds entirely covered with a stellate pubescence, giving the Fern a glaucous, or rather woolly appearance.

Length of sterile frond twenty-four to thirty inches, of fertile frond from thirty to thirty-six inches.

For plants of this Fern I am indebted to Messrs. Rollisson, of Tooting, and to Mr. J. Henderson, of Wentworth; and for fronds to the same gentlemen.

It may be procured of any of the principal Nurserymen.

The illustration is from a frond sent by Messrs. Rollisson, of Tooting; and the wood engraving, shewing the habit of the plant, is from a photograph of a plant in my own collection.
OPHIOGLOSSACEÆ.

A singular class of Ferns, having sub-globose sporangia, which are sessile, unilocular, and opening by a vertical or transverse slit, and being bivalved. Fronds solitary, bearing a fertile and sterile branch on the same stem. There are two divisions, namely, Ophioglossum and Botrychium.
GENUS I.

OPHIOGLOSSUM. LINNÆUS.

A small family of herbaceous Ferns, having the sterile and fertile branches distinct, yet on the same stem.

Veins reticulated.

The name derived from the Greek, ophios—a serpent, and glossa—a tongue; hence the name Adder's-tongue.

There are two British species,—*Ophioglossum vulgatum* and *O. Lusitanicum*.

Kunze, in his "Index Filicum," enumerates—


Sprengel, in his "Systema Vegetabilium," gives—

O. vulgatum, *Linnaeus*.
— petiolatum, *Hooker*, India.
— reticulatum, *Linnaeus*.
— bulbosum, *Michaux*.
— Lusitanicum, *Linnaeus*.
— gramineum, *Willdenow*.

— pedunculosum, *Desvaux*, Java.

— Bergianum, *Schlechtendal*.
— palmatum, *Linnaeus*.
— Lusitanicum, *Linnaeus*.
— gramineum, *Willdenow*.

The Common Adder’s-tongue is a native of Great Britain, being found in tolerable abundance in many localities. In Nottinghamshire it is very abundant in fields at Highfield House, Stanton-on-the-Wolds, and at Clifton, growing on moist loamy ground, on meadow land, and on higher and drier ground, where there is very strong loam or clay. Mr. Moore remarks that it is less common in Wales, Scotland, and Ireland. It is found in Orkney, Shetland, throughout Europe—from Russia to Tuscany; in Siberia and North America.

The fertile and sterile fronds different, but upon the same
OPHIOGLOSSUM VULGATUM.

stem. Sterile branch sessile, entire, ovate-elongate, smooth, and pale yellowish green in colour. Fertile branch erect, a simple spike on an elongate foot-stalk proceeding from the inner base of the sterile branch.

Veins anastomosing, and without a mid-vein.

Rhizoma a corm-like crown.

Roots thick, brittle, and spreading horizontally.

Stipes erect, smooth, cylindrical, succulent, and hollow.

Length of frond from three to twelve inches.

There is a dwarf variety, which was found in Orkney by Mr. Syme, known as variety Minor, the barren branches being narrow and oval. The plant also is much later in the year in coming to maturity.

For plants my thanks are due to Mr. Gray, of St. Thomas', Exeter; to Mr. Joseph Sidebotham, of Manchester; and to Mr. Clarke, gardener to Mr. Wilkinson Dent, of Flass House, Crosby Ravensworth, Westmorland.

It may be procured from Mr. Sim, of Foot's Cray.

The illustration is from Mr. Clarke's plant.
A very interesting pigmy Fern from Guernsey, having been discovered in the year 1854 growing in sandy loam near Petit Bot Bay, by Mr. G. Wolsey, and since found in other places in that island.

This species may be called a winter Fern, the fronds coming up in winter, and arriving at maturity about the middle of January.

An indigenous Fern, with annual fronds.

Found in Portugal, Spain, France, Italy, Sicily, Greece, the Mediterranean Islands, Tangiers, Algiers, the Canaries, the Islands of Madeira, Teneriffe, Azores, and Guernsey.

The fronds are thick, fleshy, and pale green in colour. Sterile and fertile branches on the same stem; the sterile branch linear to linear-lanceolate in shape, tapering below to where it joins the fertile branch; fertile branch longer, erect, being a linear-oblong spike on a long stalk, and apiculate.
Veins anastomosing, and without any mid-vein.
Roots thick, fleshy, brittle, and spreading.
Rhizoma a corm-like crown.
Stipes erect, smooth, succulent, and cylindrical.
This Fern, known as the Dwarf Adder’s-tongue, has usually solitary fronds, or occasionally two or three from the same crown.
Length of frond from less than an inch to an inch and a half.
For plants my thanks are due to Mr. James, of Vauvert.
It may be procured of Mr. Sim, of Foot’s Cray.
The illustrations are from plants in my own collection.
GENUS II.

BOTRYCHIUM. Swartz.

A small family of dwarf Ferns, only one species of which, *Botrychium lunaria*, is a native of Great Britain.

Fronds herbaceous; fertile and sterile branches distinct, yet on the same stem.

Veins repeatedly branched from a central costa; venules free.

The name derived from the Greek—*botrys*, signifying a bunch or cluster.

Sprengel enumerates—

| B. lunaria, Swartz, Europe. | B. dissectum, Sprengel, North America. |
| — Matricariae, Sprengel, Europe. | — cicutarium, Swartz, Hispaniola. |
| — Fumariæ, Sprengel, Carolina. | |
| — ternatum, Swartz, Japan. | |

Kunze gives—

| — dissectum, Muhlenberg. | — obliquum, Muhlenberg, N. America. |
The Common Moonwort is a deciduous indigenous species, widely diffused through England, Scotland, Ireland, and Wales, but very local. I have seen it more abundant in Westmorland than in any other county, although it is tolerably abundant at Clifton, in Nottinghamshire.

Found in Orkney, Shetland, Lapland, Iceland, North Cape, Sicily, Spain, Russia, Siberia, Newfoundland, Greenland, Bear Lake, Rocky Mountains, Behring's Bay, Ural Mountains, Altai
BOTRYCHIUM LUNARIA.

Mountains, Kamtschatka, Lake Baikal, Tasmania, the Island of Fuegia, Australian Alps, etc.

A difficult plant to cultivate. Found in dry, open, elevated pastures and waste lands; requiring to be kept cool and moist by a thick low vegetation, which invariably surrounds this species. Hence the difficulty of imitating its natural growth.

Fronds herbaceous, the sterile and fertile branches being distinct.

Fronds solitary; the sterile branch pinnate; pinnae lunate or fan-shaped, from four to seven pairs; margin somewhat crenate, occasionally partially fertile. The fertile branch pinnate or bipinnate, the contracted rachisiform divisions fleshy.

Roots stout, fleshy, and brittle. Stipes erect and smooth, bearing a two-branched frond, the one sterile and the other fertile.

Veins of the barren frond repeatedly forked, radiating from the base, and terminating within the margin.

Fructification sessile, erect, in two rows along each segment. Spore-cases smooth and spherical, bursting transversely; when mature, golden brown in colour.

The plant perennial, but the fronds annual.

There are two distinct varieties.

The variety Rutaceum has a broader barren branch, which is triangular in form and twice divided.

The variety Moorei, (Plate LXVI.—B,) named after Mr. Thomas Moore, an indefatigable and well-known cryptogamic botanist, is similar in its fronds to the normal form, with the exception of its edge being deeply incised, giving the frond a very handsome appearance. This variety has been found in some abundance near Crosby Ravensworth, Westmorland, by Mr. Clarke, gardener to Mr. Wilkinson Dent.

Length of frond from eight to ten inches; colour a light yellowish green.

The normal form may be procured of any Nurseryman.

The illustrations are from fronds forwarded by Mr. Clarke.
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CONTRIBUTORS TO VOL. VII.

The Author begs to express his thanks to the following individuals, who have kindly supplied him with plants and fronds for illustration:

Mr. Atkins, Painswick.
Professor Balfour, Edinburgh.
Mr. Backhouse, York.
Messrs. Booth and Sons, Hamburg.
Mr. Clapton, Scarborough.
Mr. Clarke, Royal Botanic Gardens, Glasgow.
Mr. E. Cooling, Mile Ash Nursery, Derby.
Mrs. Delves, Tunbridge Wells.
Mr. Dryden, Allestre Hall, Derby.
Mrs. Empson, Goole Hall.
Mr. J. Henderson, Wentworth.
Dr. J. D. Hooker, F.R.S., Royal Gardens, Kew.
Sir W. J. Hooker, F.R.S., Royal Gardens, Kew.
Mr. Ingram, Belvoir Castle.
Mr. Ingram, Royal Gardens, Windsor.
Mr. Masters, Canterbury.

Mr. Lamb, Osmaston Manor, near Ashbourn.
Mr. R. T. Millett, Penzance.
Mr. Thomas Moore, F.L.S., Botanic Gardens, Chelsea.
Sir Oswald Mosley, Bart., Rolleston Hall.
Mr. G. Norman, Hull.
Messrs. Parker, Holloway.
Mr. Pass, Gardener to Mr. Brocklehurst, The Fence, Macclesfield.
Messrs. Pearson, Chilwell, Notts.
Messrs. Rollison, Tooting.
M. Schott, Imperial Gardens, Schönbrunn.
Mr. J. Sidebotham, Manchester.
Mr. Sim, Foot's Cray, Kent.
Mr. J. Smith, Royal Gardens, Kew.
Mr. Stewart, late Gardener, Sudbury.
Messrs. Veitch, Jun., Chelsea.
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[Those Ferns having an authority attached, are the respective names adopted in this Work, of which a description, together with a coloured illustration, and one or more woodcuts are given. Names not having an authority attached, are those adopted by other authors, and are therefore to be found under other names; or they are species not yet introduced into this country in a living state. It sometimes happens, and indeed not unfrequently, that the same name is used by different authors for different species: this will at once be seen by referring to each page given in the index.]

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