

下达到 $1/3$ 的小羽片的寬度。孢子囊羣长圓形或綫形,由 14—20 个孢子囊組成,近边缘生,只有一条很狹的不育的边缘,平坦或稍反轉。

产于云南东南部(大围山区)。生林下沟中,海拔 1100 米。常見。

13. 强壮观音座莲

Angiopteris robusta Ching, sp. nov.

植株高大,高 2 米以上。叶为二回羽状;叶柄粗逾 3 厘米;羽片长圓形,长约 60 厘米,中部寬約 20 厘米,羽柄长约 4.5 厘米,粗壮;小羽片約 14 对,互生,相距 3 厘米,基部的开展,长约 8.5 厘米,中部的长约 12 厘米,頂部的斜升,具短柄,长 13—15 厘米,寬 2.2—2.6 厘米,披針形,向頂端漸尖,基部近圓形或近截形,頂生小羽片分离,与其下面的小羽片同形,具长约 2 厘米的小羽柄,叶緣全緣,干时平伏或稍内捲,向頂部漸尖头具有規則的鈍鋸齿。叶脉下面明显,上面不明显,距离不到 1 毫米,一般为分叉,向頂端稍向上弯,倒行假脉长与孢子囊相等。叶厚紙質,上面綠色,下面淡綠色,沿中肋疎被棕色鱗片。叶軸直径約 2.3 厘米,光滑,干时暗褐色,羽軸光滑,干时呈褐色,基部粗 5 毫米,向上变細,到頂部粗約 1 毫米。孢子囊羣綫形,彼此不密接,长 2—3 毫米,距叶緣約 1.5 毫米,由 22—30 个孢子囊組成。

特产于广西(百色,塘里乡,六敢村)。生沟边密林下,海拔 250 米。

嫩叶用水泡过可食。

14. 定心散观音座莲

Angiopteris officinalis Ching, sp. nov.

植株矮小細瘦,高約 70 厘米。柄长约 30 厘米,粗約 1 厘米,叶片长约 40 厘米,二回羽状,由 3—4 枚羽片組成;羽片互生,闊倒披針形,长 40 厘米,中部以上寬約 12 厘米,向下部逐漸变狹,基部寬約 3.5—4 厘米,柄长 1 厘米,羽軸向頂端有狭翅;小羽片約 25 对,互生,开展,几无柄,向上部斜向上,相距約 1.5 厘米,基部的最小,长仅 1.7—2 厘米,长卵形,短漸尖头,中部的长 4 厘米,近尾状漸尖头,頂部的长 9 厘米,寬 1.5 厘米,披針形,长漸尖头,基部近圓形,上側斜截,下側圓形,頂端一对近对生,边缘有三角形鈍鋸齿。叶脉几开展,纤细,分叉的和单一的互間,向頂部弯弓,上下两面明显,倒行假脉明显,长超过向中肋二分之一处。叶为薄草質,干后淡棕綠色,下面无鱗片。孢子囊羣极小,长不及 1 毫米,长圓形,彼此远离,距平伏的叶边約 2.5 毫米。

产浙江南部(平阳,南雁蕩山)。特产。

本种为一矮小而特出之种,为本属在华东地区最北的分布界限,药用。土名“定心散”。

forest in ravine, alt. 400 m, V, 28, 1928.

13. **Angiopteris robusta** Ching, sp. nov.

Planta ad 2 m vel ultra alta, stipite ultra 3 cm crasso, fusco-brunneo, glabro; lamina ampla, bipinnata; pinnis oblongis, ultra 60 cm longis, 20 cm medio latis, obliquis, alternis, petiolo 4.5 cm longo, supra geniculum 5 mm crasso, robusto, fusco-stramineo, glabro, non marginato suffultis, rachillis ad apicem non alatis; pinnulis 14-18-jugis, alternis, 3 cm inter se remotis, basalibus ca. 8.5 cm longis, 2.5 cm latis, acuminatis, basi rotundatis, breviter petiolulatis, patentibus, sequentibus majoribus, supremis 13-15 cm longis, 2.2-2.6 cm latis, gradatim acuminatis (pinna terminali aequali), margine integris, cartilagineo-incrassatis, in sicco leviter revolutis, apice minute et remote serrulatis; venulis subpatentibus, plerisque furcatis, infra prominulis, supra notatis, ad marginem parum curvatis, apice incrassatis, striis recurrentibus distinctis vix ultra soros progredientibus; textura folii crasso-chartacea, supra atro-viridi, infra pallidiore, ad costas paleis parvis, rufis filiformibus, adpressis sparse vestita; soris linearibus, 2-3 mm longis, contiguis, e basi usque ad apicem pinnularum extensis, ca. 1.5 mm e margine remotis, sporangiis 22-30.

Kwangsi occid., Pe-seh, Tang-li-shiang, Red River basin, Kwangsi Vegetation Survey No. 3481, IX, 8, 1953, under dense forest. Unfolding leaves used as a vegetable.

14. **Angiopteris officinalis** Ching, sp. nov.

Planta parva, ad 80 cm alta, stipite ca. 30-40 cm longo, basi 6 mm crasso, pallide stramineo, nudo; lamina 30-40 cm longa et lata, bipinnata; pinnis (praeter terminalem) 2-jugis, alternis, 4 cm inter se separatis, breviter petiolatis (petiolo 1-2 cm longo), ascendentibus, oblanceolatis, 20-40 cm longis, ca. 12 cm supra medium latis, deorsum gradatim decrescentibus, basi 4-6 cm latis, pinnatis; rachillis tenuibus, 1.5-2 mm crassis, stramineis, glabris, marginatis, ad apicem alatis; pinnulis 14-20-jugis, alternis, sessilibus, 1.8 cm a se remotis, basalibus valde reductis, ca. 2 cm longis, 6 mm latis, acuminatis, patentibus, sequentibus sensim majoribus, mediis 4-5 cm longis, 1 cm latis, oblongo-lanceolatis, parum obliquis, apice subcaudatis et leviter falcato-incurvatis, basi subrotundatis, supremis et terminali maximis, 9 cm longis, 1.3 cm medio latis, lanceolatis, gradatim acuminatis, basin versus leviter vel vix angustatis, obliquo-rotundatis, rectis, obliquis, marginibus ubique crenato-serratis; venulis patentibus, furcatis aut simplicibus, laxis, apicem versus leviter incurvatis, utrinque praesertim subtus prominentibus, striis recurrentibus usque ad medium semifacierum pinnularum progredientibus; textura folii tenuiter herbacea, supra obscure et infra brunnescente viridi, utraque glaberrima; soris parvis, ellipticis 1 mm longis, a se magis separatis, e margine plano steriliusque magis remotis, sporangiis 6-10.

Chekiang, Pin-yang Hsien, Yi-tang Shan, leg. K. K. Tsoong No. 1882.

17. **Angiopteris rahaoensis** Ching, sp. nov.

Stipite.....; lamina ampla, bipinnata, rachide fuscente brunnea, 5 mm crassa, glabra; pinnis alternis, angulo antico ca. 85° a rachide patentibus, oblongis, 50 cm vel ultra longis, 20 cm medio latis, basin versus parum angustatis, petiolo 1.5 cm longo, incrassato, fusco-brunneo suffultis; rachillis gracilibus, ca. 2 mm crassis, stramineis, ad apicem anguste alatis, pinnulis praeter terminalem 21-jugis, alternis, patentibus, 2 cm inter se remotis, basalibus parum abbreviatis, ceteris fere aequalibus, mediis 10-11 cm longis, 1.5 basi latis, ad medium