

Hypnum elegans Hook. — *Isothecium* Brid. — *Hypn. planifolium* Brid. *H. elegans* Schwgr. — Wils. — C. Müll. — *H. Bosseri* Spruc. C. Müll. *Plagiothecium elegans* Schpr. Coroll. — *Hypn. elegans* Sulliv. — *Rhynchosteg. elegans* Lindb. — *Plagiothecium nanum* Jur. — *Leskea prostrata* Tayl. — *Hyp Seligeri* forma steril C. Müll var. β . *collinum* (Wils.) *Hyp. collinum* Wils. — *H. elegans* var. *collinum* Wils. var. γ . *terrestre* Lindb. — *Plagioth. Schimperii* Jur. et M. — *Rhynch. elegans* v. *terrestre* Lindb.

J. Milde.

Filices Africanæ, Revisio critica omnium hucusque cognitorum Cormophytorum Africae indigenorum Additamentis Braunianis Novisque Africanis Speciebus ex Reliquiis Mettenianis adaucta. Accedunt *Filices Deckenianæ* et *Petersianæ*. Auctore Maximiliano Kuhn. Lipsiæ. W. Engelmann. 1868.

(Fortsetzung.)

Aspidium dimidiatum Mett. Rhizoma repens, ferrugineo-paleaceum, mox subdenudatum; folia distantia membranacea opaco-viridia, supra glaberrima, infra brevissime tomentella; petiolus 1' longus, livido-fuscus, basi sparse paleaceus, lamina 1½' longa, ovata, acuminata, tri-subquadripinnatisecta, segmenta primaria manifeste petiolata, ovato-lanceolata, superiora manifeste inaequilatera; secundaria e basi inferiore (lobo tertiaro externo abortivo) dimidiata, superiore oblique truncata, trapezio-oblonga acuminata, tertiaria oblique patentia, inferiora lanceolata crenata s. serrata, superiora oblonga, obtusa, sori costae subapproximati s. medii, indusium reniforme, manifestum. Afr. occ. trop. Sierra de Crystal. (Mann.)

Aspidium fraternum Mett. Rhizoma repens elongatum cum basi petiolorum paleis sordide fuscis, lanceolatis acuminatis vestitum; folia rigide membranacea tenuia supra glabra, infra puberula et ad costas cum rachi brevissime tomentella; petiolus 8"—1½' longus, rufescens vel purpurascens, lamina ½—1' longa, cordata, basi vel deorsum bipinnatisecta; segmenta primaria infima maxima, manifeste petiolata, inaequaliter ovato-lanceolata, basi pinnatisecta, superiora oblonga acuminata, sessilia vel adnata, pinnatipartita; secundaria sessilia e basi oblique truncata, latiore oblonga acuminata, lateris inferioris adaucta, pinnatipartita; laciniae oblongae, obtusae, subintegerrimae; superiores in apicem latum crenatum, denique sinuatum confluentes; nervi translucentes, indivisi, furcati, s. trifurcati, ramis infimis raro anastomosantibus, ad marginem excurrentibus vel intra marginem desinentibus,

dorso soriferis; sori ad costam laciniarum vel lacinularum uniseriati, minuti, costulis vix approximati, indusium reniforme, minutum, contractum, persistens, glabrum. *Aspidium speciosum* Mett. olim. — *A. subquinquefidum* Hook. sp. IV. 130. var. β . — Sierra Leone (Barter). — Sierra de Crystal. (Mann.) — Ins. Fernando Po. (Vogel.) Madagascaria. (Boivin.)

Aspidium glabratum Mett. Rhizoma?, folia membranacea, tenerrima, mox glaberrima; petiolus?; rachis straminea, lamina bipinnatisecto-bipinnatipartita; segmenta primaria manifeste petiolata, ad $1\frac{1}{2}$ " longa, oblonga, acuminata, secundaria subsessilia, laxe disposita, patentissima, ad 4" longa, lanceolato-oblonga, s. oblonga, acuminata; lacinae ala $\frac{1}{3}$ " lata confluentes, oblongae s. elongatae, obtusae, lobi semi-oblongi, obliqui, nervum furcatum excipientes; sori costae laciniarum approximati; indusium reniforme minutum. *Nephrodium catopterum* β . glabrum. Hk. sp. IV. 137 pt. Ins. Fernando Po. (Mann.)

Aspidium lanigerum Herb. Hafn. Rhizoma repens elongatum paleis membranaceis, ovato-lanceolatis, pallide sordide rufescentibus denique deciduis squamosum; folia membranacea supra opaco-viridia, in nervis parce setulosa, infra pallidiora densius hirsutula; petiolus $4\frac{1}{2}$ " longus sordide subrufescentestramineus basi paleis paucis obsitus; superne cum rachi ejusque ramificationibus dense pilis articulatis pallide rufescentibus tomentellus; lamina 6" longa, deltoidea bipinnatisecta, basi subtripinnatisecta; segmenta primaria oblique suberectopatentia, infima petiolata, inaequaliter ovata, acuminata, superiora basi attenuata, adnata, ovato-lanceolata, pinnatipartita, secundaria lateris inferioris adaucta, sed sensim decrescentia vel oblonga, lacinaeve superiorum oblique patentem, ala angustissima confluentes, e basi inaequali cuneata, superiore latiore magis truncata oblonga vel subovato-oblonga, obtusa; nervi pauci, furcati, subimmersi, supra prominuli sori costulae laciniarum vel segmentorum secundi ordinis approximati; indusium amplum planum membranaceum, rufescens, glabrum. Congo. (Smith.)

Aspidium Nigritianum Mett. Rhizoma? folia tenuiter chartacea, supra in rachi costisque breviter ac dense ferrugineotomentella, infra glaberrima, petiolus unacum rachi stramineus, nitidus, lamina 2' longa, deltoideo-ovata, subtripinnatisecta, ex axillis segmentorum superiorum prolifera; segmenta primaria subopposita, patentissima, oblonga, acuminata, secundaria pleraque decurrenti-adnata, infima petiolulata adnata ovata s. oblongo-lanceolata, ultima oblonga obtusa, leviter crenata s. subpinnatifida; nervi furcati s. indivisi, fertiles

abbreviati, sori margini approximati. *Nephrodium catopterum* γ. minus Hk. sp. IV. 137 pt. — Ins. principis. (Barter.)

Aspidium pinnatifido-serratum Mett. Rhizoma? Folia membranacea, supra siccitate opaca fusco-viridia, infra pilis glandulosis viscidula et ad costas paleis rufescentibus, lanceolato-subulatis squamosa; petiolus 10'' longus, lamina 1½' longa, ovata, acuta, pinnatisecto-pinnatipartita, pinnatifida, segmenta primaria 6—7'' longa, inferiora petiolata, lacinae numerosae, patentissimae, 1½—2'' longae, integrae, mediae adnatae, pinnatifidae; nervi laxi indivisi, furcati s. loborum trifurcati s. subbipinnati, sori distantes; indusium minutum. — Angola, Golungo Alto. (Welw.)

Aspidium securidiforme Mett. Rhizoma? Folia membranacea, opaco-viridia, glaberrima; petiolus elongatus, denique purpurascens racheos brevissimae tomentellae; lamina deltoidea s. quinquangulari-cordata, ternata s. quinato-pinnatisecta; brachia lateralia terminali breviora; segmenta numerosa approximata, sessilia patentia, 1—2'' longa, e basi inferiore cuneata, superiore truncata, rotundata s. auriculata, trapezio-oblonga, breviter acuta s. obtusa, integerrima, sinuata, rarius inferiora pinnatisecta; nervi manifesti; sori costae approximati, utrinque ad costam uniseriati, rarius pluriseriati; indusium minutum, glabrum, fugax. — *Aspidium subquinquefidum* γ. securidiforme Hk. sp. IV. 130. — Sierra Leone. — Ins. Fernando Po. (Barter.) — Reg. aequator. Afr. occ. (Curror.)

Aspidium speciosum Mett. Rhizoma repens subelongatum; folia membranacea supra sparse, infra densius ac brevissime pilis articulatis pubescentia; petiolus 1¼' longus, basi tomentellus paleisque flaccidis, fuscis laxe obsitus, rufescens; rachis superne tomentella; lamina 1¼' longa, deltoidea, quinquangulari-ovata, basi quadripinnatisecta, segmenta primaria manifeste petiolata, infima maxima, opposita, inaequaliter ovata acuminata; superiora et secundaria inaequaliter oblonga acuminata vel lanceolata sessilia vel decurrentia, secundaria basalia lateris inferioris segmentorum infimorum adaucta, ovata, manifeste petiolata, superiorum plerumque abbreviata, lateris superioris adaucta, ultima oblique patentia, basi inferiore cuneata, decurrenti-adnata, superiore oblique truncata auriculata, trapezio-ovato-oblonga, obtusa, latere inferiore incisa, superiore pinnatifida, nervis furcatis vel pinnatis; sori dorsales; costulae laciniarum ultimarum vel margini approximati, mediocres; indusium manifestum, persistens, rufescens, glabrum. Ins. Nossi-beh. (Boivin.) Madagascaria. (Limminghe.)

Polypodium Boivini Mett. Rhizoma abbreviatum, paleis minutis rufulis squamosum; folia densa, coriacea, glabra,

brevipetiolata, $1\frac{1}{2}$ " longa, $1\frac{1}{2}$ — 2 " lata, linearia, fere ad costam pinnatipartita; lacinae oblique patentēs, oblongae s. ovatae, rotundato-obtusae, nervum furcatum excipientes, superiores soriferae, sori in basi interna laciniarum superiorum sub apice ramuli antici inserti. Madagasc. (Boivin.)

Polypodium Pappi Mett. Rhizoma repens, crassitiem pennae anserinae adaequans, paleis 2 " longis, membranaceis ferrugineo-fuscis, ovatis, acuminatis squamosum, denique denudatum viride; folia herbacea firma glaberrima; petiolus 1 — 3 " longus, lamina $1'$ longa, $2\frac{1}{4}$ " lata, lanceolata, utrinque inaequaliter acuminata, integerrima, maculae manifestae, costales amplae appendice dichotoma, externae 2 — 4 seriatae, sori plerumque in angulo externo macularum costalium; rarius et secundus in arcu macularum para costalium, superficiales, paraphyses nullae. Cap. b. sp. — Natalia.

Polypodium Pervillei Mett. Rhizoma elongatum, tenerum, paleis rigidulis fuscis oblongo-lanceolatis squamosum, folia 2 — 3 " distantia, 6 — 8 " longa, sub apice 1 " lata, spathulata, subcoriacea glaberrima, basi attenuata, subpetiolata, obtusa; nervi immersi, indivisi, superiores soriferi; sori terminales, pauci sub apice laminae; sporangia inermia; paraphyses nullae. Ins. Sechellae. (Pervillé.)

Polypodium pygmaeum Buchinger herb. Rhizoma abbreviatum caespitosum; folia densa membranacea, glabra 6 — 8 " longa, spathulata obtusa basi attenuata, subpetiolata integerrima, costa flexuosa; nervi indivisi, angulo acuto ascendentes, apice leviter incrassato sorum vix superantes; sori utrinque ad apicem costulae 1 — 2 , elliptici, rotundati, costulae approximati; paraphyses nullae; sporangia inermia. Ins. Borbonia.

Polypodium Schimperianum Mett. Rhizoma repens elongatum, paleis membranaceis, pallide rufescentibus 2 — $2\frac{1}{2}$ " longis, ovato-lanceolatis acuminatis subintegerrimis vel integerrimis, imbricatis, subpatientibus vestitum; folia coriacea, firma, supra sparse, infra densissime pilis stellatis candidis denique rufescentibus tomentosa, supra denique glabra, sessilia, 2 — 5 " longa, 3 — 5 " lata, spathulato-lanceolata, obtusa vel acuminata, costa supra manifesta, infra tomento obtecta; costulae immersae; maculae immersae, appendiculatae, sori in apice appendicum. Abyssinia (Schimper.) — Niphobolus Buchinger hb.

Alsophila aethiopica Welw. Truncus 3 — $6'$ altus, diametro 2 — 3 "; folia membranacea utrinque ad costas hirsuta s. pilis ferrugineis appressis hispidula; petiolus „tuberculis parvis“ muricatus, $1\frac{1}{2}'$ longus, rachis hirsuta, denique purpurascens, nitida, lamina 2 — $3'$ longa oblonga acuminata pinnato-pinnatipartita; pinnae numerosae, sessiles, 9 " longae,

1—1³/₄'' latae, elongatae, acuminatae; lacinae subdistinctae, basi dilatata contiguae rectangule patentēs, lineari-oblongae s. lineares, acutae s. acuminatae, basi leviter versus apicem manifestius serratae; nervi utrinque 12—20, furcati, sori alares, costulae approximati, paraphyses numerosae, elongatae, filiformes, sporangia superantes. Angola. (Wehw.) Afr. occ. trop. — Ins. Comorae. — ins. Johannaë. (Kirk.)

Alsophila Boivini Mett. Truncus? folia membranacea, supra opaco-viridia et ad costas ferrugineo-tomentella, infra pallidiora et ad costas costulasque paleis minutis ovatis fuscis bullatis squamulosa; petiolus? rachis secundaria tenuissime asperula, livido-rufescens, supra ferrugineo-tomentella, lamina tripinnatisecta, segmenta primaria ad 2' longa, lato-lanceolata, secundaria rectangule patentia, breviter petiolulata, media 4'' longa e basi latiore elongato-oblonga-lanceolata acuminata, apice crenato-incisa, tertiaria 4—5''' longa, 2''' lata, oblonga, obtusa, obtuse crenato-sublobata, inferiora subpetiolulata, basi oblique truncata, media basi inferiore decurrente rachin alantia, superiora coadunata, denique confluentia, e basi fere ad apicem sorifera; crenae utrinque 4—7, nervum indivisum vel furcatum excipientes, sori dorsales, rarius alares, distantes, costulae approximati, receptaculum incrassatum, paraphyses minutae, dense sporangiis stipatae. *Cyathea Pervilleana* herb. Lenorm Ins. Comorae; ins. Mayotte. (Boivin.)

(Schluß folgt.)

Zur Antwort auf wiederholte Anfragen:

1) Der Schluß meiner „Flora europ. Algarum“ ist, wie ich versprochen, im Monat März erfolgt, wo ich schon den letzten Revisionsbogen an die Druckerei zurücksandte. Weßhalb der Verleger dies Schlußheft, 10 Bogen stark, bis heute noch nicht ausgegeben hat, weiß ich nicht.

2) Die 12. Centurie meiner „Fungi europ. exs.“ wird Ende dieses Monats und im Juni zur Versendung kommen.

Dr. L. Rabenhorst.

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