

n. sp., *H. venosum* (L. et L.) Trev. var. *macrosporum* n. v., *Wiesnerella javanica* Schffn., *Dumortiera hirsuta* Reinw. Bl. et Nees var. *angustior* Syn. hep., *D. velutina* n. sp., *Marchantia emarginata* R. Bl. et N. *typica*, var. *major* n. v., *M. catarractarum* n. sp., *M. nitida* L. et L., *M. geminata* R. Bl. et N. *typica*, var. *major* n. v., *M. Treubii* n. sp. *typica*, var. *intercedens* n. v., *M. sciaphila* n. sp., *Riccardia scabra* n. sp. *typica*, var. *Tjiburrumensis* n. v., *R. Wettsteinii* n. sp. *typica*, var. *procera* n. v., var. *tenuiretis* n. v., var. *angustilimbica* n. v., var. *crassa* n. v., *R. subexalata* n. sp. *typica*, var. *procera* n. v., *R. elongata* n. sp., *R. androgyna* n. sp., *R. Tjibodensis* n. sp., *R. Jackii* n. sp. *typica*, var. *densa* n. v., *R. Singapurensis* n. sp., *R. multifidooides* n. sp., *R. tenuicostata* n. sp., *R. flaccidissima* n. sp., *R. platyclada* n. sp. *typica*, var. *leiomitra* n. v., var. *grandiretis* n. v., var. *repens* n. v., *R. latifrondooides* n. sp., *R. elata* (Steph.) Schffn. *typica*, var. *angustior* n. v., var. *Stephanii* n. v., var. *flaccida* n. v., var. *intercedens* n. v., *R. diminuta* n. sp. *typica*, var. *thermarum* n. v., *R. rigida* n. sp., *R. Ridleyi* n. sp., *R. tenuis* (Steph.) Schffn., *R. parvula* n. sp., *R. crenulata* n. sp., *R. crassiretis* n. sp., *R. Sumatrana* n. sp., *R. Singalanga* n. sp., *R. serrulata* n. sp., *R. heteroclada* n. sp., *R. hymenophylloides* n. sp. *typica*, var. *flaccida* n. v., *R. decipiens* n. sp., *R. canaliculata* (Nees) Schffn., *R. viridissima* n. sp., *R. maxima* n. sp., *R. lobata* n. sp., *Metzgeria hamata* S. O. Lindb. *typica*, var. *saxicola* n. v., var. *subplana* n. v., var. *angustior* n. v., *M. foliicola* n. sp., *M. consanguinea* Schffn., *M. Sandei* n. sp., *M. conjugata* S. O. Ldb., *M. Lindbergii* n. sp., *M. hamatiformis* Schffn., *Hymenophyton Malaccense* Steph., *Pallavicinia radiculosa* (Sande Lac.) Schffn., *P. indica* n. sp. *typica*, var. *major* n. v., *P. Levieri* n. sp., *typica* var. *imperfecta* n. v., *P.* [subg. *Mittenia*] *Zollingeri* Gott. et Schffn., *Treubia insignis* Goebel., *Calobryum Blumei* Nees., *Marsupella vulcanica* n. sp., *M. Sumatrana* n. sp. *typica*, var. *lurida* n. v., *Nardia notoscyphoides* n. sp., *N. Hasskarliana* (Nees) Schffn. *typica*, var. *virens* n. v., *N. Ariadne* (Taylor) Schffn., *N. comata* (Nees) Schffn., *N. longifolia* n. sp., *N. truncata* (Nees) Schffn. *typica*, var. *crassiretis* n. v., *N. tetragona* (Lindenb.) Schffn., *N. obliquifolia* n. sp., *N. vulcanicola* n. sp. *typica*, var. *tenuiretis* n. v., *Notoscyphus parvicus* n. sp., *Symphyomitra Javanica* n. sp., *Aplozia Javanica* n. sp. *typica*, var. *laxa* n. v., *A. stricta* n. sp. *typica*, var. *radicellifera* n. v., *A. Baueri* n. sp., *A. Stephanii* n. sp., *Jamesoniella flexicaulis* (Nees) Schffn., *J. ovifolia* Schffn. *typica*, var. *minor* n. v., var. *latifolia* n. v., *J. affinis* n. sp., *J. microphylla* (Nees) Schffn. n. sp., *typica*, var. *gracilis* n. v., var. *minuta* n. v., *J. tenuiretis* n. sp., *Anastrophyllum contractum* (Nees) Steph. *typicum*, var. *virescens* n. v., *A. piligerum* (Nees) Steph., *A. vernicosum* n. sp., *A. cephaloziooides* n. sp., *A. Sundaicum* n. sp. *typicum*, var. *Singalanganum* n. v., *A. puniceum* (Nees) Steph., *Lophozia dubia* n. sp., *L. Sumatrana* n. sp.

Nur in den vollständigen Sätzen gelangen alle vorstehend angeführten Formen zur Ausgabe, die minder vollständigen Collectionen enthalten diese Formen nur nach Zulass des vorhandenen reichen Materiales.

Bauer (Smichow).

Referate.

Boulanger, Edouard, Développement et polymorphisme du *Volutella Scopula*. (Revue générale de Botanique. Tome IX. 1897. No. 102.)

Verf. fand diesen, nur konidienbildenden, niederen Pilz auf faulenden Hyacinthenzwiebeln. Er lässt sich in drei Formen ziehen. Auf Kartoffeln und Mohrrüben entsteht eine fädige Konidien bildende Form von wenig bemerkenswerthem Bau (cf. Fig. 5 l. c.). In flüssigen Nährlösungen entstehen Chlamydosporen; auf Holz,

Stroh, Blättern etc. entsteht eine sogenannte Sporodochium-Form. Dieselbe ist durch ein scheibenförmiges Konidienlager charakterisirt, welches am Rande von isolirten aufstrebenden Fäden umgrenzt ist. Da die Konidienträger dieser Form häufig durch Jochverbindungen zusammen gehalten werden, entstehen Fadenbüschel von Besenform, welche für den Namen bestimmend waren.

Kolkwitz (Berlin).

King, George, Materials for a Flora of the Malayan Peninsula. (Journal of the Asiatic Society of Bengal. Vol. LXVI. Pt. I. No. 1. 1897. p. 1—345.)

Dieser neue Abschnitt setzt ein mit den *Connaraceae*, deren Eintheilung sich folgendermaassen vollzieht:

Seeds exalbuminous, arillate.

Pistils solitary.

Leaves pinnate leaflets 3 to 11; trees or scandens shrubs.

1. *Connarus* L., 9 Spec.

Leaflet solitary, small trees or shrubs, never scandens.

2. *Ellipanthus* Hook. f., 5 Spec.

Pistils 5 but usually only 1 perfect; leaves pinnate (leaflet solitary in one species of *Rourea*).

Flower-pedicels ebracteolate, follicle curved; lobes of calyx persistent, slightly accrescent, imbricate and forming a cup at the base.

3. *Rourea* Aubl., 9 Spec.

Flower-pedicels with persistent bracteoles at their bases, follicle not curved, calyx-lobes persistent, but neither accrescent nor imbricate.

4. *Roureopsis* Planch., 2 Spec.

Pistils 2 to 5 perfect.

Calyx imbricate, follicles rugose, laminate or tubercled.

5. *Agelaea* Soland., 4 Spec.

Calyx valvate, follicles neither rugoseo laminate no tubercled.

6. *Taeniochlaena* Hook. f., 1 Spec.

Seeds albuminous 5 to 7, follicles 1-to 3, arillus thin.

7. *Cnestis* Juss., 1 Spec.

Leguminosae (by D. Prain).

I. Petals imbricate.

A. Calyx segments united above the level of the disc. The upper petal (Standard) exterior. *Papilionaceae*.

— Stamens mon-or diadelphous.

* Pods dehiscent along both sutures.

1. Leaves evenpinnate the rachis continued as a tendril or bristle. I. *Vicieae*.

1. *Abrus* L., 2 Spec.

2. Leaves simple, digitale or ood pinnate.

Leaves simple sessile, or digitately 3—7 foliolate; stamens monadelphous, anthers dimorphous. II. *Genisteae*.

2. *Crotalaria* L., 13 Spec.

3. Leaves pinnately 3 foliate, rarely (*Clitoria*) 5—7 foliolate or (*Flemingia*) petiolated 1 foliate or digitately 3 foliolate and then with 2 adelphous stamens; when stamens 1 adelphous, the upper filament attached to the others at its base. III. *Phaseoleae*.

A. Subtribe. *Cajanae*.

3. *Flemingia* Roxb., 2 Spec. 4. *Eriosema* DC., 1 Spec.

5. *Dunbaria* W. et A., 1 Spec. 6. *Atylosia* W. et A., 2 Spec. 7. *Cajanus* DC., 1 Spec.

B. Subtribe. *Euphaseoleae*.

8. *Phaseolus* L., 5 Spec. 9. *Vigna* Savi, 3 Spec. 10.

- Pachyrhizus* Rich., 1 Spec. 11. *Dolichos* L., 1 Spec.
12. *Psophocarpus* Neck., 1 Spec.
- C. Subtribe. *Glycineae*.
13. *Clitoria* L., 2 Spec. 14. *Centrosema* Benth., 1 Spec.
15. *Teramnus* SW., 1 Spec.
- D. Subtribe. *Diocleae*.
16. *Dioclea* H. Bk., 2 Spec. 17. *Pueraria* DC., 1 Spec.
18. *Canavalia* DC., 3 Spec.
- E. Subtribe. *Erythrinae*.
19. *Mucuna* Adams, 6 Spec. 20. *Strongylodon* Vogel,
1 Spec. 21. *Erythrina* L., 3 Spec.
- F. Subtribe. *Galactieae*.
22. *Spatholobus* Hassk., 8 Spec.
4. Leaves 5-∞ foliolate, or if 1-3 foliolatae (*Tephrosia*) with partially monadelphous stamens and uniform anthers, or (*Indigofera*) with 2 adelphous stamens, apiculate anthers and basifixed hairs; when stamens monadelphous the upper stamen free at its Base. IV. *Galegeae*.
- A. Subtribe. *Indigoferae*.
23. *Indigofera* L., 4 Spec.
- B. Subtribe. *Robinieae*.
24. *Sesbania* Pers., 3 Spec.
- C. Subtribe. *Tephrosieae*.
25. *Tephrosia* Pers., 3 Spec. 26. *Millettia* W. et A.,
12 Spec.
- ** Pods indehiscent or opening only along lower suture (leaves except *Arachis* oddpinnate).
- § Pods not segmented always quite indehiscent; leaves odd-pinnate. V. *Dalbergieae*.
- A. Subtribe. *Sonchocarpeae*.
27. *Pongamia* Vent., 1 Spec. 28. *Derris* Lour., 13 Spec.
29. *Kunstleria* Prain, 5 Spec.
- B. Subtribe. *Pterocarpeae*.
30. *Dalbergia* L. fil., 12 Spec. 31. *Pterocarpus* L.,
2 Spec.
- §§ Pods beaking into (seeded indehiscent segments, or if deliscent *Desmodium* in part) only opening along lower suture; if not segmented (*Arachis*) with leaves evenpinnate (segment solitary in *Phylacium*). VI. *Hedysareae*.
- A. Subtribe. *Stylosantheae*.
32. *Arachis* L., 1 Spec. 33. *Zornia* Gmel., 1 Spec.
- B. Subtribe. *Aeschynomeneae*.
34. *Smithia* Ait., 1 Spec. 35. *Ormocarpum* Beauv., 1 Spec.
36. *Aeschynomene* L., 2 Spec.
- C. Subtribe. *Desmodieae*.
37. *Phylacium* Benn., 1 Spec. 38. *Urvia* Desv., 3 Spec.
39. *Lourea* Neck., 15 Spec. 40. *Alysicarpus* Neck., 1 Spec.
41. *Desmodium* Desv. 6 Spec.
- = Stamens free. VII. *Sophoreae*.
42. *Sophora*. 43. *Ormosia* Jacks., 8 Spec.
- B. Calyx segments free to the level of disc (exc. *Bauhinieae*); the upper petal inferior (*Caesalpinieae*).
Leaves simple or simple pinnate.
Anthers basifixed. VIII. *Cassieae*.
44. *Cassia* L., 14 Spec. 45. *Koompassia* Maingay, 2 Spec.
46. *Dialium* L., 9 Spec.
- Anthers versatile.
a. Petals 5.
Calyx gamosepalous or valvately partite. IX. *Bauhinieae*.
47. *Bauhinia* L., 24 Spec.
- Calyx lobes free imbricate. X. *Cynometreae*.
48. *Cynometra* L., 5 Spec.

β. Petals fewer than 5 (3 or 1 or 0). XI. *Amherstieae*.

49. *Tamarindus* L., 1 Spec. 50. *Sindora* Miq., 5 Spec.
51. *Azelia* Smith, 3 Spec. 52. *Saraca* L., 10 Spec. 53. *Crudia*
Schreb. 7 Spec.

Leaves 2 pinnate. XII. *Caesalpinieae*.

54. *Peltophorum* Vogel, 2 Spec. 55. *Caesalpinia* L., 5 Spec.
56. *Mezoneuron* Desf., 5 Spec. 57. *Pterolobium* R. Br.,
2. Spec.

γ. Petals vulvate (*Mimoseae*).

Calyx teeth imbricated. XIII. *Parkieae*.

58. *Parkia* R. Br., 3 Spec.

Calyx valvate.

Stamen 5 or 10.

Anthers glandular.

XIV. *Adenanthereae*.

59. *Eutada* Adans., 1 Spec. 60. *Adenantha* L., 2 Spec.

61. *Neptunia* Lour., 1. Spec. 62. *Xylia* Benth., 1 Spec.

Anthers not glandular.

XV. *Eumimoseae*.

62. *Leucaena* Benth., 1 Spec. 64. *Mimosa* L., 2 Spec.

Stamens ∞.

Filaments free.

XVI. *Acacidae*.

65. *Acacia* Willd., 2 Spec.

Filaments united.

XVII. *Jugeae*.

66. *Serianthes* Benth., 1 Spec. 67. *Euterobium* Mart.,

1 Spec. 68. *Calliandra* Benth., 1 Spec. 69. *Albizzia*

Durazz., 8 Spec. 70. *Pithecolobium* Mart., 12 Spec.

Rosaceae.

Tribe I. *Chrysobalananeae*. Flowers usually irregular. Carpel 1; style basal, ovules 2, ascending. Fruit a drupe. Radicle inferior. Trees or shrubs with simple quite entire leaves.

Calyx-tube elongate. Stamens many, united in a phalange.

Ovary 2 locellate.

1. *Parinarium* Juss., 12 Spec.

Calyx-tube short. Stamens 2. Ovary 1 celled.

2. *Parastemon* A. DC., 1 Spec.

Tribe II. *Pruneeae*. Flowers regular. Carpel 1, rarely 2, style subterminal, rarely basal, ovules 2, pendulous. Radicle superior. Trees or shrubs with simple usually serrated leaves.

Calyx 5 lobed. Petals 5, large, glabrous. Carpel solitary, fruit drup-
paceous. 3. *Prunus* L., 1 Spec.

Calyx 5—10 toothed. Petals 5 and minute or absent. Carpel 1.

Drupe coriaceous, usually elongated transversely.

4. *Pygeum* Gärtn., 14 Spec.

Tribe III. *Rubeae*. Flowers regular. Calyx ebracteolate. Stamens very numerous. Carpels many, styles subbasal or ventral, ovules 2, collateral-pendulous. Fruit of many dry or fleshy carpels, not included in the calyx-tube. Radicle superior. Usually shrubs, often with compound leaves.

5. *Rubus* L., 4 Spec.

Tribe IV. *Pomeae*. Flowers regular. Calyx-tube (or the apex of the peduncle) becoming fleshy after flowering, and enclosing the carpels. Stamens numerous. Ovules 2 or more, ascending. Fruit a pome or berry, with 2—5 bony or coriaceous 1 seeded stones, shrubs or trees.

6. *Pyrus* L., 1 Spec.

Als neue Species sind aufgestellt:

Parinarium spicatum, nähert sich dem *P. costatum* Bl., *P. Maingayi*, erinnert an *P. asperulum* Miqu. und *scabrum* Hassk., *P. elatum*, zu *P. oblongifolium* Hook. f. gehörend, *P. Kunstleri*, in den Blättern dem *P. asperulum* ähnelnd. — *Pygeum stipulaceum*, *P. grandiflorum*, *P. intermedium*, *P. Scortechini*, *P. ovalifolium*, *P. Hookerianum*.

Saxifragaceae.

A sub-herbaceous shrub with simple estipulate leaves and succulent fruits with numerous small seeds.

1. *Dichroa* Lour., 1 Spec.

Woody shrubs or trees with pinnate (rarely simple) stipulate leaves; fruits small, dry, capsular, dehiscent, 2 celled, seeds few hairy.

2. *Weinmannia* L., 1 Spec.

Trees or large woody shrubs with simple leaves. Emerous flowers and dry fruit with a single large smooth seeds.

3. *Polyosma* Blume, 8. Spec.

Neue Arten sind:

Polyosma parviflora, dem *P. ilicifolia* Blume sich anschliessend, *P. coriacea*, *P. Scortechini*, *P. Ridleyi*, aus der Nähe von *P. velutina* Bl.

Droseraceae.

Nur *Drosera indica* L. und *Burmanni* Vahl enthaltend.

Hamamelideae.

1. Ovules solitary in each cell.

Stipules small and deciduous, heads ebracteate, stamens 5, with short filaments. The connective produced into a horn, flowers hermaphrodite.

1. *Maingaya* Oliver, 1 Spec.

2. Ovules b or moles in each cell.

Stipules large, coriaceous, heads ebracteate, stamens 10—14, without appendages, flowers polygamous.

2. *Bucklandia*, 1 Spec.

Stipules absent, heads with numerous coloured bracts, stamens 7—10, without appendages, flowers hermaphrodite.

3. *Rodolphia*, 1 Spec.

Haloragaceae mit *Haloragis micrantha* R. Br. und *Myriophyllum intermedium* DC.

Rhizophoreae.

I. Leaves opposite, stipulate, style connate.

Tribe I. *Rhizophoreae*. Embryo etalbuminous, with a large radicle germinating while the fruit is still on the tree.

Calyx 4 lobed, petals 4, entire; stamens 8, ovary 2 celled.

1. *Rhizophora* L., 2 Spec.

Calyx 8—14 lobed, petals 8—14, 2 lobed or deeply emarginate, ovary 2—4 celled, stamens 16—28.

2. *Bruguiera* Lmk., 4 Spec.

Calyx 5 or 6 lobed, petals 5 or 6, their apices ciliate or with clavate or capitate bristles, stamens 10—12.

3. *Ceriops* Arn., 2 Spec.

Calyx 5 or 6 lobed, petals 5 or 6, multifid, stamens indefinite, stigma 3 lobed.

4. *Kandelia* W. et A., 1 Spec.

Tribe II. *Legnotideae*. Embryo immersed in fleshy album, radicle not unusually large and not germinating in the fruit.

Flowers 5—8 merous in trichotomous cymes, calyx-tube minutely bracteolate, half superior, the calyx-lobes erect, stigma a small, not lobed.

5. *Carallia* Roxb., 3 Spec.

Flowers 5 merous, axillary, solitary or in pairs. Calyx ebracteolate, half superior, its lobes reflexed, stigma discoid, 5—10 lobed.

6. *Pellacalyx* Korth., 2 Spec.

Flowers 4—2 merous, in axillary fascicles. Calyx-tube ebracteolate, adnate to the base of the ovary, its lobes reflexed, stigma discoid, 5 lobed.

7. *Gynotroches* Blume, 1 Spec.

II. Leaves alternate, exstipulate, style distinct.

Tribe III. *Anisophylleae*. Leaves alternate and exstipulate, flowers unisexual, style distinct.

8. *Anisophyllea* Br., 6 sp.

Neu darunter sind:

Carallia Scortechini, unterscheidet sich nicht wesentlich von *C. leucaefolia*, *C. eugenoidea-Anisophylla Scortechinii*, zu der Borneanischen *A. rhomboidea* Baill. zu stellen, *A. Curtisii*, ebenfalls.

Combretaceae.

Suborder I. *Combreteae*. Calyx lobes valvate, stamens without basal glands or staminodes; the anthers with longitudinal dehiscence. Ovules 2—7, suspended by long funicles. Flowers in spikes or racemes.

Flowers apetalous.

Limb of the calyx deciduous.

1. *Terminalia* L., 8 Spec.

Limb of the calyx accrescent.

2. *Calycopteris* Lam., 1 Spec.

Flowers with 4 or 5 petals (exc. in *Combretum apetalum*).

Limb of the calyx persistent, leaves alternate.

3. *Lumnitzera* Willd., 2 Spec.

Limb of the calix deciduous, leaves opposite.

Calyx tube prolonged above the ovary for less than 0,5 in.

4. *Combretum* L., 10 Spec.

Calyx tube prolonged above the ovary for from 0.15—2,5 in.

5. *Quisqualis* L., 2 Spec.

Suborder II. *Gyrocarpeae*. Calyx lobes valvate or imbricate; stamens with glands or staminoides at their bases; anthers dehiscing by upturned valves; Ovule 1, suspended by a short funicle. Flowers cymose.

Scandent, leaves 3 foliate.

6. *Illigera* Blume, 2 Spec.

Trees, leaves entire.

7. *Gyrocarpus* Jcqu., 1 Spec.

Neu aufgestellt wurden als Arten:

Terminalia Manii, zu *T. citrina* Roxb. zu stellen, *T. phellocarpa*, ähnelt der Philippinischen *T. nitens* Presl., *T. subspathulata*. — *Combretum Wrayi*, *C. Kunstleri*, *C. nigrescens*, *C. Scortechinii*.

(Fortsetzung folgt).

E. Roth (Halle a. S.).

Neue Litteratur.*)

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