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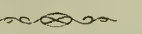
das längliche Sporangium durch, erhielt an beiden Enden desselben je ein Septum und der cylindrische Theil zwischen den zwei Scheidewänden hatte die doppelte normale Hyphendicke. Terminale Produkte sind derlei Sporangien in keinem Falle.



Plantas in itinere africano
ab J. M. Hildebrandt collectas determinare pergit W. Vatke.

Auctoritate herbarii regii berolinensis.

IV. Rubiaceae Juss.

334. *Spermacoce (Borreria) hebecarpa* (Hochst.) Oliver Trans. Linn. soc. 29, 2, p. 89. Abyssinia. Habab tempore pluvioso sept. 1872.

464. *S. (Hypodematium) ampliata* (Hochst.) Oliver l. c. p. 88. Abyssinia: Bogos alt. 6000′ in planitiebus sterilibus tempore pluvioso sept. 1872.

1158. *Chasalia umbraticola* Vatke. Foliis oppositis petiolatis obovato-oblongis basi angustatis apice abrupte acuminatis obtusiusculis margine subrepando-crenulatis recurvis, stipulis brevibus subtriangularibus deciduis, panicula trichotoma foliis paullo breviore, calyce subtruncato, corollae lobis... ♄

In insula Sansibar sub fruticetorum umbra sept. 1873.

Frutex 2 m. altus ramis strictis, petioli infer. 1 cm. longi; lamina 6—9 cm. longa, 3—4 cm. lata; flores albi; baccae nigrae; semina orbicularia more generis.

Vix non eandem in statu fructifero coll. Pervillé! in Madagascaria boreali-occidentali n. 508 ex distrib. herb. mus. paris. — Nostra *Ch. boryanae* DC. quodammodo similis.

1136. *Psychotria punctata* Vatke. Glabra ramis teretiusculis striatis, foliis 4-natim verticillatis petiolatis ellipticis obtusis mucronulatis, basi attenuata subinaequalibus, margine subrevolutis punctatis, stipulis membranaceis truncatis deciduis, paniculis terminalibus pedunculatis laxe cymigeris, cymis ebracteatis densiuscule multifloris, pedicellis glabriusculis, corollae laciniis tubum dimidium subaequantibus reflexis. ♄

Insula Sansibar sept. 1873.

Frutex 2 m. altus; petioli 1—1·5 cm. longi; lamina 5—7 cm. longa, ad 3 cm. lata; flores albi; fructus rubri a me non visi.

Cum *P. (Grumilea* Sond.*) capensi* (Eckl.) Vatke ined. affinitas summa non neganda, quamvis species distinctissima.

913 b eadem. Sansibar sept. 1873.

1126. *Triainolepis? Hildebrandtii* Vatke. Sansibar in loco arenoso sept. 1873.

Frutex 1—2 m. altus; fl. lactei; fructus rubri.

Cum *T. africana* Hook. f. mihi tantum ex charactere generico

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et descriptione generali in Bth. et Hook. f. gen. pl. II, I pag. 126 datis sit cognita, hic sequitur nostrae descriptio:

Frutex 1—2 m. altus praeter folia subtus secus nervos, inflorescentiam, flores hirtellos glaber, ramis ramulisque teretiusculis lignosis elevato-striatis; folia opposita petiolata; petioli c. 1 cm. longi, lamina ovato-lanceolata, caudato-acuminata membranacea ad 9 cm. longa, ad 3 cm. lata, supra parce nitidula, subtus opaca, nervis arcuatis subtus prominentibus; stipulae ovato-triangulares utrinque dente auctae, in inflorescentiae ramis lineari-multifidae, deciduae! flores in paniculas terminales dispositi, ramis densiuscule cymigeris, cymis relaxandis, pedicellis demum divaricatis; bracteolae lineares deciduae; flores primarii sessiles, seriores breviter pedicellati; calycis tubus hemisphaerico-turbinatus; limbus cupularis irregulariter 5-dentatus persistens; corolla dense hirtella tubo c. 1 cm. longo, infundibuliformi vel cylindrico fauce villosissima; limbi lobi 5 patentes, intus parce hirtelli; stamina 5 fauci corollae inserta filamentis brevibus filiformibus; antherae dorso affixae, lineari-oblongae utrinque obtusae inter villos faucis absconditae; discus ciliatus; ovarium 7 loculare; stylus filiformis stigmate capitato lobulato, nunc lobo clavato separato; ovula in loculis solitaria, e basi erecta compressa anatropa; drupa subglobosa costata, pyrenis osseis 1spermis; semina erecta compressa membranacea.

Styli indole recedit ex descriptione Hookeri a *T. africana*, attamen huic videtur congener.

436. *Pavetta gardeniaefolia* Hochst. em., A. Rich. *α. longiflora* Vatke. Flores ad 3 cm. longi.

Abyssinia: Habab. alt. 5000′ in riparum silvis aug. 1872.

Flores albi. Eandem ibidem prope Keren c. 4500′ a. 1870 coll. Beccari! (n. 148).

889 a. *β. breviflora* Vatke. Flores c. 1·5 cm. longi.

In Somalensium montibus Ahl alt. mar. 2000 m. in fruticetorum umbra solitaria mart. 1873. Fl. alutacei.

495. eadem. Abyssinia: Habab ad alt. 6000′ in riparum silvis jul. ad sept. 1872.

Frutex strictus 3 m. altus; flores flavescentes.

1157. *Plectronia zanzibarica* (Klotzsch) Vatke ined. (*Canthium zanz.* Kl. in Peters.) Sansibar sept. 1873.

Frutex 1 m. altus; fl. albi; nomen Kisuaheli: Pumboa paca, id est felis testes ob fructus formam.

641. *Vangueria edulis* Vahl. Abyssinia: Habab: Bogos jul. ad sept. 1872.

Frutex v. arbor. altit. 3 m.

993. *Pentodon pentandrus* (Schum.) Vatke ined. (*Hedyotis* p. Schum., *P. decumbens* Hochst.).

Insula Sansibar in paludum persistentium marginibus repens. jul. ad. nov. 1873.

793. *Hedyotis (Kohautia) Schimperi* Presl botanische Bemerk. pag. 85.

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Aden in desertis jun. 1872.

167. eadem. Geddah apr. 1872.

Fruticulus humilis, quem ibidem ad puteos jan. florentem olim detexit C. G. Ehrenberg!, qui praeterea in Arabia ad Rochman et ad Wadi Hebron regionis sinaiticae collegit.

656. eadem. Abyssinia: Bogos tempore pluvioso sept. 1872.

1007. *H. (Kohautia?) fugax* Vatke. Herbacea procumbens ramis adscendentibus angulato-striatis glabriusculis, foliis oblongo-lanceolatis subsessilibus acuminatis, stipulis foliaceis ovato-oblongis indivisis vaginisque hirtellis, panicula 2—3 chotoma rariflora, pedicellis angulatis, calycis tubo campanulato laciniis ovato-triangularibus obtusis 2—3plo longiore, corolla ...., capsula subglobosa. ♃

Insula Sansibar in pratis siccis herbaceis jul. 1873.

Caules ad 5 dm. longi ramis prostratis, lineis prominentibus crebris notati; folia ad 3·5 cm. longa, ad 0·5 cm. lata, marginibus in sicco hinc inde revolutis, uninervia; pedicelli fere 1 cm. longi, foliis floralibus minutis; calyx per anthesin c. 1 mm. longus; capsula diam. longit. c. 3 dm. Flores lilacini a me non visi, sed ob inflorescentiam pro *Kohautia* habeo.

1008. *H. (Oldenlandia) herbacea* Blume em. Kokotoni insulae Sansibar in locis paludosis rara nov. 1873. Convenit fere cum spec. schomburgkiano e Guiana anglica ab ill. Bentham in Hook. journ. of Bot. III p. 218 (n. 17 ex Benth., n. 127 in herb. reg. berol.) huc relato. Cf. ceterum de specie etiam Benth. Fl. hongk. p. 151.

908. *H. (Oldenlandia) corymbosa* (L.) Lam. In Sansibariae locis udis inter agros sept. 1873.

1130. *H. (Diplophragma) Bojeri* (Klotzsch. em.) Vatke. (*Agathisanthemum* B. et *Petersii* Kl.).

Insula Sansibar in pratis siccis herbaceis vulgatissima suffruticem alt. 1 m. formans; sept. 1873 coll. Stirpem simillimam verisimiliter specie non distinctam panicula laxiore, sepalis longioribus in insula Mayotte coll. Boivin! (n. 3187).

1124. *Pentas Klotzschii* Vatke (*Pentanisia nervosa*, *cymosa*, *suffruticosa* Kl.). Kidoti Sansibariae in madreporarum collibus calcareis sept. 1873. Suffrutex altit. 1 m. Huc spectat me judice sp. Boivini e Mayotte n. 319!.

1128. *P. zanzibarica* (Kl.) Vatke (*Pentanisia zanz.* Kl.).

In pratis siccis herbaceis Sansibariae repperit Hildebrandt, ubi jam olim in locis humidis legit cl. Bojer! Species a praecedente primo intuitu foliis subtus reticulato-venosis distinguenda.

Obs. *Spermacoce? denticulata* Walp.! in nov. act. leop. XIX suppl. I. p. 35 fide sp. or. in herb. gen. reg. berol. a cl. Meyen lecto est *Leucas zeylanica* (L.) R. Br.

(Continuabitur.)

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