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**LICHENES EXOTICI**



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A. M. HUE

ROTHOMAGENSIS SACERDOS

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# LICHENES EXOTICI

A PROFESSORE W. NYLANDER

DESCRIPTI VEL RECOGNITI

ET IN HERBARIO MUSEI PARIENSIS PRO MAXIMA PARTE  
ASSERVATI  
IN ORDINE SYSTEMATICO DISPOSITI SUNT

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# LICHENES EXOTICOS

A PROFESSORE W. NYLANDER DESCRIPTOS VEL RECOGNITOS

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IN ORDINE SYSTEMATICO DISPOSUIT

A. M. HUE

ROTHOMAGENSIS SACERDOS.

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## AVANT-PROPOS

On sait aujourd'hui que les Lichens sont des Champignons vivant en symbiose avec des Algues. En introduisant dans la Biologie cette conception féconde et en l'appuyant sur des preuves indiscutables, les beaux travaux de M. Schwendener et de ses successeurs n'ont pas seulement agrandi le champ de la Science générale, ils ont aussi puissamment accru l'intérêt qui s'attache à l'étude spéciale de ces singuliers organismes. Aussi devenait-il plus que jamais nécessaire, en premier lieu, de classer définitivement les nombreux Lichens que possède le Muséum d'histoire naturelle et de les mettre à la disposition des travailleurs dans un local approprié; en second lieu, d'en publier un Catalogue méthodique. La première partie de cette tâche est achevée depuis un an, non seulement pour les Lichens, mais encore pour l'ensemble de nos collections cryptogamiques. La seconde va se trouver à son tour remplie par l'impression dans ces *Archives* du consciencieux travail de M. l'abbé Hue, que ces lignes ont pour but de signaler à l'attention des botanistes.

En attendant qu'une chaire spéciale pour la Cryptogamie et ses importantes applications puisse, conformément au vœu exprimé par l'Assemblée



des professeurs, être instituée au Muséum, tout ce qui concerne l'étude spéciale des Cryptogames, collections et enseignement, se trouve actuellement rattaché à la chaire de Botanique générale (Organographie et Physiologie). Depuis sa nomination en 1879, le professeur de Botanique générale a choisi à plusieurs reprises les Cryptogames pour sujet de son cours et s'est constamment appliqué à classer les collections cryptogamiques, jusque là très négligées, notamment les Herbiers. Grâce au concours de plusieurs spécialistes distingués, ce grand travail a été mené récemment à bonne fin (1). Restait à trouver un local où disposer les collections ainsi classées. L'occasion n'a pas tardé à s'offrir. Entré en possession, en janvier 1889, d'un nouveau laboratoire construit, 61, rue de Buffon, pour le service de la Botanique générale, le professeur a aussitôt établi et rangé les collections cryptogamiques dans les locaux de l'ancien laboratoire, 63, rue de Buffon. Ces locaux comprennent une grande salle, deux cabinets et des magasins. La grande salle renferme l'Herbier général, l'Herbier de France et la collection des échantillons dans l'alcool. L'un des cabinets a reçu, conformément à la volonté du testateur, l'Herbier Montagne avec ses manuscrits et sa correspondance botanique. Dans l'autre cabinet ont pris place les Exsiccata et une petite bibliothèque cryptogamique. Les doubles ont été rangés dans les magasins pour être ultérieurement distribués. Le Service cryptogamique du Muséum s'est trouvé de la sorte modestement, il est vrai, mais convenablement installé. Il est placé sous la surveillance immédiate de M. Hariot, préparateur de la chaire. Six à huit personnes y peuvent travailler à l'aise et déjà plusieurs savants, français ou étrangers, s'y sont établis pour y poursuivre des recherches de longue haleine ; citons en particulier : M. Wainiö, de l'université d'Helsingfors, et M. l'abbé Hue pour les Lichens, M. Fischer, de l'université de Berne, et M. Patouillard pour les Champignons, M. Hariot pour les Algues, etc.

C'est du nouveau Service ainsi organisé que fait partie, désormais accessible à tous les travailleurs, la collection des Lichens qui est l'objet

(1) Les Champignons ont été classés par MM. Cornu, Hariot et Patouillard, les Lichens par MM. Nylander et Hue, les Algues par M. Bornet, les Diatomées en particulier par M. Guinard, les Hépatiques et les Mousses par M. Bescherelle.



du travail de M. l'abbé Hue, et dont il nous paraît utile de donner ici sommairement l'origine et la composition.

Pour ce qui est des Lichens d'Europe, on y trouve de nombreuses espèces françaises, envoyées des Vosges par Mougeot, de Normandie par Brébisson, d'Anjou par Guépin, du Midi par Léon Dufour et Desmazières. Un peu plus tard, l'herbier de Lebel, de Valognes, est venu s'y ajouter et l'an dernier, depuis l'installation nouvelle, celui de Weddell de Poitiers, donné au Muséum, ainsi que sa bibliothèque lichénologique, par Madame Weddell. Ce dernier renferme tous les types qui ont servi à Weddell pour composer ses ouvrages sur les *Lichens de l'île d'Yeu*, sur les *Lichens des promenades publiques et en particulier du jardin de Blossac à Poitiers*, sur les *Lichens du massif granitique du Ligugé*, sur la *Florule lichénologique des laves d'Agde*, etc. Hors de France, les principaux envois ont été faits par Schœrer pour la Suisse, par Th. Fries pour la Scandinavie, par Nylander pour la Finlande, par Flørke, Krempelhueber et Arnold pour l'Allemagne. M. Arnold continue à donner au Muséum ses importants Exsiccata, dont le chiffre dépasse en ce moment 1,500; sa collection très complète de Lichens sur roches est conservée à part dans la Salle des Herbiers.

Pour ce qui est des Lichens exotiques, la collection comprend des échantillons nombreux et d'une grande valeur scientifique. Il faut d'abord citer en général tous ceux qui ont été rapportés des voyages autour du monde de Gaudichaud et de Dumont d'Urville, puis ceux qui proviennent des Herbiers donnés au Muséum par Roussel, Ad. Brongniart et Tulasne. Pour l'Asie, on a les Lichens de l'Inde française de Perrottet, ceux de Ceylan de Thwaites, ceux de l'Himalaya de Hooker, et ceux que recueillent en ce moment M. l'abbé Delavay au Yun-Nan et M. l'abbé Bon au Tonkin. D'Afrique, on a les Lichens d'Abyssinie de Schimper, ceux de Madagascar de Pervillé et ceux de la Réunion récoltés à diverses époques par Bory de Saint-Vincent, Boivin, Richard et Lepervanche-Mézières. D'Amérique, on a les Lichens de l'Amérique septentrionale de Tuckermann, ceux de l'île Miquelon de Delamare, ceux de la Louisiane de M. l'abbé Langlois, ceux du Mexique de Galeotti, de Cuba de Wright, de la Guadeloupe de L'Herminier, de la Martinique de M. Husnot, de Cayenne de Leprieur et Mélinon, de la Nouvelle-Grenade de Lindig, du Pérou de Lechler, de



l'Amazone et des Andes de Spruce, de la Bolivie et du Brésil de Weddell, du Brésil de Glaziou et de Saint-Hilaire, du Paraguay de M. Balansa, du Chili de Cl. Gay. Il faut y ajouter les Lichens des écorces médicinales envoyés par Fée et qui ont fait l'objet de son grand ouvrage. Pour la région antarctique, on a les Lichens de Magellan et des terres environnantes récoltés par Commerson, Lechler et Hooker, ainsi que ceux rapportés récemment, dans le voyage de la *Romanche*, par MM. Hariot, Hahn et Hyades, et déterminés par M. Mueller d'Argovie. D'Océanie, enfin, on a les Lichens de la Nouvelle-Calédonie de MM. Balansa et Vieillard, ceux de Noukahiva de M. Jardin, des îles Campbell et Auckland de M. Filhol, des îles Saint-Paul et Amsterdam de M. de l'Isle.

C'est de ce grand ensemble, constituant l'Herbier général des Lichens du Muséum, que M. l'abbé Hue a entrepris de donner, dans le présent travail, le Catalogue méthodique. Puissent ses longs et patients efforts inspirer aux botanistes collecteurs l'idée de compléter nos collections par de nombreux envois et donner à un grand nombre de travailleurs l'idée de s'initier à l'étude de ces végétaux si intéressants, dont il leur aura facilité l'accès!

PH. VAN TIEGHEM

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## ENUMERANTUR OPERA IN QUIBUS DE LICHENIBUS EXOTICIS

Professor W. NYLANDER tractavit.

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Hæc opera ordinantur ratione modi, quo brevitatis causa, in cursu hujus libri citantur. Plerique Lichenes, de quibus hic agitur, in Herbario Musei parisiensis exstant. Attamen, quædam e collectaneis a cel. Nylander descriptæ ad hoc Museum non missæ fuerunt, proindeque eorum Lichenes, saltem quoad species novas, ibi deficiunt. Illius auctoris opera, quorum Lichenes in Museo desiderantur, juxta nostræ enumerationis ordinem, sequuntur :

1° *Contribuções par a Estudo da Flora d'Africa*. Ibi tractatur de Lichenibus insulæ San Thomé. 2° *Enumeration of Australian Lichens*, etc., et omnia alia opera a rev. Crombie in lucem edita. Cæterum ex ejus opusculis species novæ, utpote a cel. Nylander definitæ, a nobis tantum depromptæ fuerunt. 3° *Lichenes in Ægypto a cel. Ehrenberg collecti*. 4° *Lichenes angolenses Welvitschiani*. 5° *Enumeratio Lichenum Freti Behringii*. 6° *Lichenes Fuegiæ et Patagoniæ*. 7° *Lichenes insularum Andaman*. 8° *Lichenes insularum Guineensium*. 9° *Lichenes nonnulli ex insula Principis*. 10° *Lichenes Middendorffiani*. 11° *Lichenes Novæ Zelandiæ*, ed. 1861 et ed. 1888. Tandem pro parte absunt a prædicto Herbario nonnulli e Lichenibus de quibus in *Flora* et in *Recognitione monographica Ramalinarum* fit mentio.

Sed ex altera parte notandum est in illo Herbario asservari omnes Lichenes Herbarii cel. Montagne, plurimos a cl. Tuckerman ex America missos, præsertim quos in insula Cuba Ch. Wright legit, nonnullos a cl. J. Mueller determinatos. Ex his ultimis nominandi sunt Lichenes a cl. Hariot in terris Magellanicis lecti et reliquæ collectuum e Nova Caledonia provenientium. Nec prætermittendi sunt Lichenes a cl. Delavay in provincia Yunnan imperii Sinensis lecti. Omnes hi Lichenes, saltem pro maxima parte, in nostro opere reperiuntur.

Si in cursu hujus systematicæ expositionis aliquid novum vel operibus cel. Nylander antea editis contrarium reperiatur, hoc illi volenti tribuendum est, nam me operantem benigne adjuvit et de hoc gratias ei persolvo.

*Addit. Fl. chil.* Additamentum in Floram cryptogamicam chilensem quo Lichenes præcipue saxicolos exponit W. Nylander. — *Ann. Sc. nat. Bot.*, 4<sup>e</sup> série, t. III, 1855.

*Botan. Zeit.* Botanische Zeitung, Leipzig :

1862. Expositio systematica generis Cænogonii. — Tylophoron et Parathelium genera Lichenum nova.

1867. Circa genus Lichenum Dermatiscum.

*Bull. Torr. Club.* Bulletin of the Torrey botanish Club, 1889, April. New-York.

*Consp. Stict.* Conspectus Synopticus Sticteorum. Caen, 1868. — *Bull. Soc. Linn. Normandie*, 2<sup>e</sup> série, vol. II. — Editio seorsim impressa (1).

(1) Qua nota indicatur numerum paginarum in cursu hujus operis positum ex hac editione seorsim impressa assumi. In operibus cel. Nylander hac nota orbatis, paginæ numeratæ remanent sicut sunt in ipsis Annalibus.

*Consp. Thelotr.* Conspectus generis Thelotrematis. — *Ann. Sc. nat. Bot.*, 4<sup>e</sup> série, t. XVI, 1862.

*Contrib. da Flor. d'Afric.* Contribuções para o Estudo da Flora d'Africa. — *Extr. do Bol. da Soc. Brot.* IV, 1886. Coimbre, 1887, Lichenes. — Edit. seorsim impressa.

Cromb. *Austral. Lich.* Enumeration of Australian Lichens in Herb. Robert Brown (Brit. Mus.) with descriptions of new species, by the rev. J. M. Crombie. — *The Linn. Soc. Journ. Bot.*, vol. XVII.

Cromb. *Chall. exped.* The Lichens of Challenger expedition, etc., by the rev. J. M. Crombie. — *Ibidem*, vol. XVI.

Cromb. *Chall. exped. Add.* Additions to the Lichens of Challenger expedition. — *Ibidem*, vol. XX.

Cromb. *Falkl. isl.* On the Lichens collected by the professor R. O. Cunningham in the Falkland islands, Fuegia, Patagonia and the island of Chiloe during the voyage of H. M. S. Nassau, 1857-79, by the rev. J. M. Crombie. — *Ibidem*, vol. XV.

Cromb. *Ins. Rodrig.* Lichenes insuli Rødriguezii; an enumeration of the Lichens collected by Dr L. B. Balfour in the island of Rodriguez during the Venus-Transit expedition, 1874, by the rev. J. M. Crombie. — *Ibidem et in eodem vol.*

Cromb. *Kerguel. land.* Lichenes terræ Kergueleni: an enumeration of the Lichens collected in Kerguelen Land by the rev. A. E. Eaton during the Venus-Transit expedition 1874-75, by the rev. J. M. Crombie. — *Ibidem et in eodem vol.*

*Kerguel. Revis.* Revision of the Kerguelen Lichens collected by D. Hooker by the rev. J. M. Crombie. — *The Journal of Botany*, April 1877.

Cromb. *Lich. capens.* Lichenes capenses: an enumeration of the Lichens collected at the Cape of Good Hope by the rev. Eaton, during the Venus-Transit expedition in 1874, by the rev. J. M. Crombie. — *The Linn. Soc. Journ. Bot.*, vol. XV.

Cromb. *Lich. Dillen.* On the Lichens of Dillenius's *Historia Muscorum*, as illustrated by his Herbarium, by the rev. J. M. Crombie. — *Ibidem*, vol. XVII.

Cromb. *Lich. Madagasc.* Lichenes collected by W. Pool Esq. in Madagascar, by the rev. J. M. Crombie. — *Ibidem*, vol. XV.

Nyl. et Cromb. *Lich. East. Asia.* On a collection of exotic Lichens made in Easter Asia by the late Dr A. C. Maingay, by Dr W. Nylander and the rev. J. M. Crombie. — *Ibidem*, vol. XX.

*Disp. Psoromat. et Pannar.* Dispositio Psoromatum et Pannariarum. — *Ann. Sc. nat. Bot.*, 4<sup>e</sup> série, t. XII, 1859.

*Enum. Lich.* Énumération générale des Lichens avec l'indication sommaire de leur distribution géographique. Cherbourg, 1858. — Supplément, même année. — *Mém. Soc. Sc. nat. Cherbourg*, t. VII.

*Expos. Lich. N. Caled.* Expositio Lichenum Novæ Caledoniæ. — *Ann. Sc. nat. Bot.*, 4<sup>e</sup> série, t. XII, 1859.

*Flora.* Flora, Regensburg, 1855-1887:

1855. Suedamericanische Flechten gesammelt durch W. Lechler, bestimmt durch Dr W. Nylander.

1858. Circa Stereocaula adhuc observationes quædam. — Animadversiones circa Collemaceos quosdam. — Lichenes collecti in Mexico a Fr. Müller. — De *Chlorangio Jussufii* Link, Müll. animadversio.

1859. De Calicieis aliquid.

1860. Observationes paucæ circa scripta lichenologica recentissima. — De Stictis et Stictinis adnotatio. — Conspectus Umbilicariarum. — De Lichenibus nonnullis europæis.

1861. Circa Th. M. Fries Lichenes arctoi animadversiones. — Conspectus Squamariarum.



1862. Circa *Parmeliam colpodem*. — Ad Lichenographiam Groenlandiæ quædam addenda. — Adhuc circa *Parmeliam colpodem*. — Circa variabilitatem sporarum in Lichenibus notula. — De Lichenibus quibusdam Guineensibus.

1863. Adhuc de Lichenibus quibus Guineensibus.

1864. Circa G. W. Kœrberi reliquias Hochstetterianas. — Circa Lichenum Novo-Granatensium novas explorationes Lindigianas.

1865. Enumeratio synoptica Sticteorum. — Circa Lichenes ecrustaceos Novæ-Zelandiæ. — De genere Lichenum Melanothea notula.

1866. De cephalodiis in *Peltigera venosa* notula. — Lichenes quos Kurz legit in insula Java. — Adhuc circa characteres quosdam Lichenum. — Circa nova in studio Lichenum criteria chemica. — Collectio Lichenum ex insula Cuba.

1867. Lichenes Kurziani e Calcutta. — Novæ explorationes Lichenum Neo-Caledoniæ. — Addenda quædam ad Lichenographiam Novæ-Zelandiæ.

1868. Prodrômus Lichenographiæ insulæ Maderæ von A. von Krempelhuber. — Circa cephalodia simul epigena et hypogena.

1869. Exemplum cephalodiorum in *Sphærophoro*. — Lichenes Kurziani Bengalienses. Collectio altera. — Lichenes in Brasilia a Glaziou collecti. — Circa reactiones Parmeliarum adnotationes. — De reactionibus in genere Ricasolia. — De reactionibus in genere Physcia. — De reactionibus in genere Umbilicaria. — De reactionibus in Cetrariis. — De reactionibus in Alectoriis. — De reactionibus in Everniis et Parmeliopsibus.

1874. Animadversiones circa Spruce Lichenes Amazonicos et Andinos.

1876. Lichenes in Ægypto a cl. Lerbalestier collecti. — Circa Pyrenocarpeos in Cuba collectos a cl. Wright. — Ramalinæ cubanæ novæ. — Lecanoræ cubanæ novæ. — Collemacci, Calicieï, Cladoniei et Thelotremai cubani novi.

1878. Symbolæ quædam ad Lichenographiam Sahariensem.

1880. Lichenes nonnulli insulæ Sti Thomæ Antillarum.

1884-85. Lichenes novi e Fretto Behringii.

1885. Arthoniæ novæ Americæ borealis. — Parmeliæ exoticæ novæ.

1886. Graphidei cubani novi. — Lichenes insulæ San Thomé. — Lichenes nonnulli Australienses.

1887. Addenda nova ad Lichenographiam europæam. Continuatio quadragesima septima.

*Le Naturaliste*. Classification des Peltigerés. — *Le Naturaliste*, 1<sup>er</sup> janvier 1884.

*Lich. Ægypt.* Lichenes in Ægypto a cel. Ehrenberg collecti. Bordeaux, 1864. — *Bull. Soc. Linn. Bordeaux*, t. XXV. — Edit. seorsim impressa.

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*Lich. Angol.* Lichenes Angolenses Welwitschiani. Caen, 1867. — *Bull. Soc. Linn. de Normandie*, 2<sup>e</sup> série, t. II.

*Lich. Antill.* Énumération des Lichens récoltés par M. Husnot aux Antilles françaises. Caen, 1869. — *Ibid.*, 2<sup>e</sup> série, t. III. — Edit. seorsim impressa.

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*Lich. Fr. Behr.* Enumeratio Lichenum Freti Behringii. Caen, 1888. — *Bull. Soc. Linn. de Normandie*, 4<sup>e</sup> série, t. I. — Edit. seorsim impressa.

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*Syn.* Synopsis methodica Lichenum, vol. I, Paris, 1858-1860, cum VIII tab.; vol. II, pp. 1-64, cum tab. IX, quæ anno 1888 in lucem prodit.

*Syn. Arthon.* Synopsis du genre Arthonia. Cherbourg, 1856. — *Mém. Soc. Sc. nat. Cherbourg*, t. IV.

*Syn. Lich. N. Caled.* Synopsis Lichenum Novæ Caledoniæ. Caen, 1868. — *Bull. Soc. Linn. de Normandie*, 2<sup>e</sup> série, t. II. — Editio seorsim impressa.

**Sequuntur nomina auctorum quæ in hoc opere modo breviato usurpantur.**

Ach .....	Acharius.	Huds.....	Hudson.
Ag .....	Agardh.	Humb .....	Humboldt.
Arn .....	Arnold.	Jacq.....	Jacquin.
Bab .....	Babington.	Koerb.....	Koerber.
Bagl.....	Baglietto.	Krempelh.....	Krempelhuber.
Bél.....	Bélangier.	Kütz.....	Kützing.
Bell .....	Bellardi.	Laur.....	Laurer.
Berk.....	Berkeley.	Leight.....	Leighton.
Bernh .....	Bernhardi.	Le Prév.....	Le Prévost.
Borr.....	Borrer.	Lév.....	Léveillé.
Bory.....	Bory de Saint-Vincent.	Lightf.....	Lightfoot.
V. d. B sch .....	Van den Bosch.	L.....	Linné.
Cromb.....	Crombie.	Loennr.....	Loennroth.
Dav .....	Davies.	Mass .....	Massalongo.
D C.....	De Candolle.	Meissn.....	Meissner.
Del.....	Delise.	Mich.....	Michaux.
D. Notar.....	De Notaris.	Mont .....	Montagne.
Dicks.....	Dickson.	Muell.....	J. Mueller Argoviensis.
Dub .....	Duby.	Næg.....	Nægeli.
Duf.....	Dufour.	Necker .....	Necker.
Dur .....	Durieu de Maisonneuve.	Noehd.....	Noehden.
Ehrenb.....	Ehrenberg.	Nyl.....	Nylander.
Ehrh .....	Ehrhart.	Pers.....	Persoon.
Eschw.....	Eschweiler.	Schar .....	Schærer.
Flot.....	Flotow.	Schl .....	Schleicher.
Fr.....	Fries (Elias).	Schrad.....	Schrader.
Th. Fr.....	Fries (Theodorus Magnus).	Schreb.....	Schreber.
Goeb .....	Goebel.	Schw.....	Schweinitz.
Hedw.....	Hedwig.	Scop.....	Scopoli.
Henriq.....	Henriques.	Sm.....	Smith.
Hochst.....	Hochstetter.	Sommerf.....	Sommerfelt.
Hoffm .....	Hoffmann.	Spreng.....	Sprengel.
Hook .....	Hooker.	Spr.....	Spruce.

*(Suite.)*

Stenh.....	Stenhammar.	Turn.....	Turner.
Stirt. . . . .	Stirton.	Wahl.....	Wahlenberg.
Stizenb.....	Stizenberger.	Wallr.....	Wallroth.
Sw.....	Swartz.	Web.....	Weber.
Tayl.....	Taylor.	Wild.....	Wildenow.
Thunb.....	Thunberg.	With.....	Withering.
Tuck.....	Tuckerman.	Wulf.....	Wulfen.
Tul.....	Tulasne.		

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- 26. *Collema* Ach... { Subgen. I. — *Collema* pr. dict.  
Subgen. II. — *Dichodium* Nyl.  
Subgen. III. — *Ramallodium* Nyl.

- 27. *Collemodium* Nyl.
- 28. *Amplinomium* Nyl.

- 29. *Leptogium* Fr. { Subgen. I. — *Leptogium* pr. dict.  
Subgen. II. — *Homodium* Nyl.  
Subgen. III. — *Amphidium* Nyl.

- 30. *Leptogidium* Nyl.
- 31. *Leptogopsis* Nyl.
- 32. *Aplanopsis* Nyl.
- 33. *Hydrothyria* Russ.
- 34. *Pyrenidium* Nyl.

Trib. VII. — *Collemai (suite)*.....

Series II. — *COLLEMODEI (suite)*..

Trib. VIII. — *Pyrenidei*.....

**FAMILIA III. — LICHENACEI.**

- 35. *Splinetrina* Fr.
- 36. *Calicium* Ach.. { Subgen. I. — *Calicium* pr. dict.  
Subgen. II. — *Allodium* Nyl.

- 37. *Stenocybe* Nyl.
- 38. *Coniocybe* Ach.
- 39. *Trachylia* Fr.
- 40. *Pyrgillus* Nyl.
- 41. *Pyrgidium* Nyl.

Series III. — *EPICONIODEI*..... Trib. IX. — *Caliciei*.....



Trib. X. — Tylophorei.....	{ 42. Tylophoron Nyl.
	{ 43. Tholurna Norm.
Trib. XI. — Sphaerophorei.....	{ 44. Sphaerophoron Pers.
	{ 45. Acrocyphus Lévy.
Trib. XII. — Baomycecei.....	{ 46. Gomphillus Nyl.
	{ 47. Baomyces Pers.
	{ 48. Glossodium Nyl.
	{ 49. Thysanotheicum Berk. et Mont.
	{ 50. Stereocauliscum Nyl.
Trib. XIII. — Siphulei.....	{ 51. Siphula Fr.
	{ 52. Thamnolia Ach.
	{ 53. Endocena Cromb.
Trib. XIV. — Stereocauli.....	{ 54. Stereocladium Nyl.
	{ 55. Stereocaulon Schreb.
	{ 56. Argopsis Th. Fr.
Trib. XV. — Pilophorei.....	{ 57. Pilophoron Tuck.
Trib. XVI. — Cladoniei.....	{ 58. Cladonia Hoffm.
	{ 59. Cladina Nyl.
Trib. XVII. — Cladiei.....	{ 60. Cladia Nyl.
	{ 61. Pycnothelia Duf.
Trib. XVIII. — Heterodei.....	{ 62. Heterodea Nyl.
Trib. XIX. — Ramalinei.....	{ 63. Ramalea Nyl.
	{ 64. Ramalina Ach.
Trib. XX. — Rocellei.....	{ 65. Rocella DC....
	{ Subgen. I. — Combea de
	{ Notar.
	{ Subgen. II. — Rocella pr.
	{ dict.
Trib. XXI. — Usneei.....	{ 66. Chloroa Nyl.
	{ 67. Usnea Hoffm.
Trib. XXII. — Cetrarici.....	{ 68. Neuropogon Nees et Flot.
	{ 69. Cetraria Ach.
	{ 70. Platysma Hoffm.

Series IV. — CLADODEI.....

Series V. — PARMELIODEI.....

Series V. — PARMELIODEI ( <i>suite</i> ).	
Trib. XXIII. — Alectoriei.....	{ 71. Alectoria Ach. 72. Dufourea Ach. 73. Dactylina Nyl.
Trib. XXIV. — Parmeliei.....	{ 74. Evernia Ach. 75. Everniopsis Nyl.
Trib. XXV. — Stictiei.....	{ 76. Parmelia Ach.....
Trib. XXVI. — Peltigerei.....	{ 77. Parmeliopsis Nyl.
Trib. XXVII. — Physcietei.....	{ 78. Lobarina Nyl. 79. Stictina Nyl.
Trib. XXVIII. — Pyxinei.....	{ 80. Lobaria Hoffm. 81. Sticta Ach.
Trib. XXIX. — Pseudostictiei.....	{ 82. Ricasolia D. Notar.
Trib. XXX. — Peltigerei.....	{ 83. Nephromium Nyl. 84. Peltigera Hoffm. 85. Solorimna Nyl.
Trib. XXXI. — Peltidei.....	{ 86. Nephroma Ach. pr. p. 87. Peltidea Nyl. 88. Solorina Ach.
Trib. XXXII. — Physcietei.....	{ 89. Physcia Fr.
Trib. XXXIII. — Pyxinei.....	{ 90. Pyxine Fr.

Subgen. I. — Parmelia pr. dict.  
Subgen. II. — Omphalodium Mey. et Flot.  
Subgen. III. — Hypogymnia Nyl.  
Subgen. IV. — Anzia Stizenb.  
Subgen. I. — Parmeliopsis pr. dict.  
Subgen. II. — Psoromopsis Nyl.  
Subgen. III. — Chondropsis Nyl.



Series VI. — PHYLLODEI (suite)..	Trib. XXIX. — Gyrophorei.....	91. Umbilicaria Hoffm..	{ Subgen. I. — Umbilicaria pr. dict. Subgen. II. — Agyrophora Nyl.
		92. Gyrophora Ach.	
		93. Dermatiscum Nyl.	
		94. Pannaria Del.	
		95. Pannularia Nyl..	{ Subgen. I. — Pannularia pr. dict. Subgen. II. — Coccophora Pers.
		96. Leioderma Nyl.	
		97. Erioderma Fée.	
		98. Heppia Naeg.	
		99. Pellula Nyl.	
		100. Heterina Nyl.	
		101. Psoroma Nyl.	
		102. Psoromaria Nyl.	
		103. Gymnoderma Nyl.	
		104. Lecanora Ach.	
		105. Glypholecia Nyl.	
		106. Dirina Fr.	
		107. Amphiloma Fr.	
		108. Pertusaria D C.	
		109. Varicellaria Nyl.	
		110. Thelotrema Ach.	
		111. Ascidium Fée.	
		112. Gyrostomum Fr.	
		113. Tremotylum Nyl.	
		114. Polystroma Clem.	
		115. Belonia Koerb.	
Series VII. — LECANO-LECIDEODEI.			
	Trib. XXX. — Pannarinei.....		
	Subtrib. I. — Pannariei.....		
	Subtrib. II. — Heppiei.....		
	Trib. XXXI. — Lecanorei.....		
	Subtrib. I. — Lecanorei.....		
	Trib. XXXII. — Lecano-lectidei.		
	Subtrib. II. — Pertusariei.....		
	Subtrib. III. — Thelotremei....		

	Subtrib. III. — <i>Suite</i> .....	116. Phlyctis Walhr. { Subgen. I. — Phlyctidia Nyl. Subgen. II. — Phlyctella Nyl. Subgen. III. — Phlyctis Walfr.
		117. Ureolaria Ach.
Series VII. — <i>Suite</i> .....	Trib. XXXI. — <i>Suite</i> .....	118. Cœnogonium Ehrenb.
		119. Byssocaulon Mont.
		120. Lecidea Ach.
	Subtrib. V. — <i>Lecidei</i> .....	121. Epiphora Nyl.
		122. Gyrothecium Nyl.
		123. Lithographa Nyl.
		124. Xylographa Fr.
		125. Agyrium Fr.
		126. Graphis Ach.
		127. Anomorpha Nyl.
		128. Thelographis Nyl.
		129. Helminthocarpon Fée.
		130. Leucographa Nyl.
	Subtrib. I. — <i>Haplographidei</i> .	131. Opegrapha Ach.
		132. Platygrapha Nyl.
		133. Stigmatidium Mey.
		134. Arthonia. { Subgen. I. — Arthonia pr. dict. — II. — Allarthonia Nyl.
		135. Melaspilea Nyl.
		136. Lecanactis Eschw.
		137. Ptychographa Nyl.
		138. Schizographa Nyl.
Series VIII. — <i>GRAPHIDODEI</i> .....	Trib. XXVII. — <i>Graphidei</i> .....	139. Glyphis Ach.
		140. Chiodecton Ach.



141. Cora Fr.	
142. Dichonema Nees.	
143. Thelocarpon Nyl.	Subgen. I. — Thelocarpon pr. dict. Subgen. II. — Athelium.
144. Thelococcum Nyl.	
145. Normandina Nyl.	
146. Endocarpon Hedw.	
147. Verrucaria Pers.	Subgen. I. — Verrucaria. Subgen. II. — Trypethelium Nyl.
148. Parathelium Nyl.	
149. Limborina Fr.	
150. Thelopsis Nyl.	
151. Strigula Fr.	
152. Sarcopyrenia Nyl.	
153. Melanotheca Fee.	
154. Astrothelium Eschw.	
155. Obyzum Wallr.	
156. Rimularia Nyl.	
157. Mycoporum Flot.	
158. Endococcus Nyl.	
159. Lepraria Ach.	Appendix.

Series IX. — PYRENODEI . . . . . Trib. XXXIII. — Pyrenocarpei.

Subtrib. I. — Eupyrenocarpei.

Subtrib. II. — Peridiei . . . . .

APPENDIX . . . . .

Ex his 159 Lichenum generibus 132 tantum in hoc libro inveniuntur, proindeque 27 sunt Europæ propria. Genera, quæ in terris exoticis non citantur, sunt in 1<sup>a</sup> Familia : 1° *Scytonema* Ag.; 2° *Gonionema* Nyl.; 3° *Sphilonema* Born.; 4° *Asirosiphon* Nyl.; 5° *Cladopsis* Nyl.; 6° *Ephebeia* Nyl.; 7° *Collemopsidium* Nyl.; 8° *Pyrenopsidium* Nyl.; 9° *Magnopsis* Nyl.

In 2<sup>a</sup> Familia : 10° *Lichinella* Nyl.; 11° *Homopsella* Nyl.; 12° *Lichiniza* Nyl.; 13° *Lichinodium* Nyl.; 14° *Aphanopsis* Nyl.; 15° *Pyrenidium* Nyl.

In 3<sup>a</sup> Familia : 16° *Stenocybe* Nyl.; 17° *Tholurna* Norm.; 18° *Gomphillus* Nyl.; 19° *Stereocauliscum* Nyl.; 20° *Belonia* Koerb.; 21° *Epiphora* Nyl.; 22° *Gyrothecium* Nyl.; 23° *Agyrium* Fr.; 24° *Ptychographa* Nyl.; 25° *Limboria* Fr.; 26° *Obryzum* Wallr.; 27° *Rimularia* Nyl.

Duo genera, *Myriangium* Mont. et Berk. et *Odontotema* Nyl., quæ olim inter Lichenes annumerabantur, ad Fungos nunc referuntur.

### FAM. I. — EPHEBACEI.

#### Series I. — EPHEBODEI.

##### TRIB. I. — SIROSIPHEI.

##### Gen. I. — SIROSIPHON Kütz.

1. **S. saxicola** Næg. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 3. — Etiam in Europa.

##### TRIB. II. — PYRENOPSEI.

##### Gen. II. — EUOPSIS Nyl.

2. **E. granatina** Nyl. *Flora* 1875, p. 363. — *Pyrenopsis granatina* Sommerf., Nyl. *Lich. Lapp. Orient.* p. 104, ubi definitur. — *Lecanora granatina* Nyl. *Lich. Scand.* p. 171, ubi definitur. = In Asia boreali (Konyambay et Behring ins., *Lich. Fr. Behr.* pp. 26 et 55). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 7, ubi etiam definitur). — Etiam in Europa.

3. **E. hæmalea** Nyl. *Flora* 1875, p. 363. — *Pyrenopsis hæmalea* Sommerf. = In Asia boreali (Lawrencebay et Konyambay, *Lich. Fr. Behr.* pp. 6, 17 et 26). — Etiam in Europa.

##### Gen. III. — PYRENOPSIS Nyl.

4. **P. tasmanica** Nyl. *Syn.* I, p. 97, ubi definitur; *Enum. Lich.* p. 88. = In Oceania (Tasmania).

5. **P. Mackenziei** Jones, Nyl. *Lich. Port Natal* p. 3, ubi definitur. = In Africa meridionali (Portu Natali).

##### TRIB. III. — HOMOPSIDEI.

##### Gen. IV. — EPHEBE Fr.

6. **E. pubescens** Fr., Nyl. *Syn.* I, p. 90, tab. II, fig. 1 et 17-20, ubi definitur; *Enum. Lich.* p. 88. = In Africa boreali (Algeria, *Lich. Algér.* p. 307, et *Prodr. Lich. Gall.* p. 17). — In America boreali (Groenlandia). — Etiam in Europa.

7. **E. solida** Bornet, Nyl. *Syn.* I, p. 90, ubi definitur; *Enum. Lich.* p. 88. = In America septentrionali (Georgia et Carolina).



8. **Ephebe Lesquereuxi** Bornet, *Nyl. Syn.* I, p. 91, ubi definitur; *Enum. Lich.* p. 88. = In America septentrionali (Alabama).

9. **E. tasmanica** Cromb., *Nyl.* apud Cromb. *Austral. Lich.* p. 391, ubi definitur. = In Oceania (Australia).

**TRIB. IV. — PHYLLISCODEI.**

Gen. V. — PHYLLISCUM *Nyl.*

10. **P. Demangeonii** Mong. et Mont., *Nyl. Syn.* I, p. 137, ubi definitur; *Enum. Lich.* p. 91, et *Supplém.* p. 334. = In America boreali (Nova Anglia). — Etiam in Europa (Gallia).

11. **P. endocarpoides** *Nyl. Syn.* I, p. 137, tab. III, fig. 5, ubi definitur; *Enum. Lich.* p. 91. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 26). — Etiam in Europa.

**FAM. II. — COLLEMACEI.**

Series II. — COLLEMODEI.

**TRIB. V. — LICHINEI.**

Gen. VI. — LICHINA *Ag.*

12. **L. pygmæa** *Ag.*, *Nyl. Syn.* I, p. 91, tab. II, fig. 16, ubi definitur; *Enum. Lich.* p. 88. = In America meridionali (Chili). — Etiam in Europa.

— Var. **intermedia** Bab., *Nyl. Lich. N. Zeland.* 1888, p. 8, ubi definitur. = In Oceania (Nova Zelandia).

13. **L. antarctica** Cromb., *Nyl.* apud Cromb. *Kerguel. land* p. 181, ubi definitur. = In Africa australi (ins. Kerguelen).

Gen. VII. — PTERYGIUM *Nyl.*

Hoc genus definitur in *Bull. Soc. bot. France* 1854, p. 328 et *Syn.* II, p. 38.

14. **P. Petersii** *Nyl. Syn.* I, p. 93, ubi definitur; *Enum. Lich. Supplém.* p. 332. — *Lecidea Petersii* Tuck. = In America septentrionali.

15. **P. asperellum** *Nyl. Lich. Scand.* p. 25, ubi definitur. — *Collema asperellum* Ach. = In America boreali (Konyambay, *Lich. Fr. Behr.* p. 26, *P. asterellum*). — Etiam in Europa boreali.

**TRIB. VI. — COLLEMEI.**

Gen. VIII. — SYNALISSA *Dur.*

16. **S. symphorea** *Nyl. Syn.* I, p. 94, tab. III, fig. 2, ubi definitur; *Enum. Lich.* p. 88. — *Collema symphoreum* DC. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 17). — In Africa boreali (Algeria, *Lich. Algér.* p. 307, *S. lichenophila* Dur.; *Flora* 1878, p. 342). — Etiam in Europa.

17. **S. sphærospora** *Nyl. Syn.* I, p. 94, tab. II, fig. 5, ubi definitur; *Enum. Lich. Supplém.* p. 333. = In America septentrionali.

18. **S. Wrightii** *Nyl. Flora* 1876, p. 558, ubi definitur. — *Omphalaria Wrightii* Tuck. = In America tropica (ins. Cuba).

19. **Synalissa minuscula** Nyl. *Lich. Angol.* p. 508, ubi definitur. — In Africa occidentali (Angola).

20. **S. polycocca** Nyl. *Syn.* I, p. 96, ubi definitur; *Enum. Lich. Supplém.* p. 333. = In America septentrionali (Nova Anglia).

Gen. IX. — PAULIA Fée.

21. **P. pullata** Fée, Nyl. *Syn.* I, p. 98, ubi definitur; *Lich. exot.* p. 235. = In Oceania (ins. Rawak et Marianis).

Gen. X. — OMPHALARIA Dur. et Mont.

22. **O. Girardi** Dur. et Mont., Nyl. *Syn.* I, p. 99, tab. IV, fig. 8 et *Lich. Algér.* p. 320, ubi definitur (1); *Enum. Lich.* p. 88. = In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 19). — In America septentrionali (Alabama). — Etiam in Europa.

23. **O. pulvinata** Nyl. *Syn.*, I, p. 99, ubi definitur; *Enum. Lich.* p. 88. — *Collema pulvinatum* Schær. = In Africa boreali (Ægypto, *Lich. Ægypt.* p. 2). — Etiam in Europa (Gallia).

24. **O. nummularia** Dur. pr. p., Nyl. *Syn.* I, p. 99, et *Lich. Algér.* p. 320, ubi definitur; *Enum. Lich.* p. 88. = In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 19; *Flora* 1878, pp. 338 et 342). — Etiam in Europa (Gallia).

— Var. **cæspitosa** Nyl. *Lich. Algér.* p. 308. = In Africa boreali (Algeria).

25. **O. nummularioides** Nyl. *Syn.* I, p. 100, *Lich. algeriens.* p. 319 et *Lich. Algér.* p. 321, ubi definitur; *Enum. Lich.* p. 89; *Prodr. Lich. Gall.* p. 19. = In Africa boreali (Algeria).

26. **O. tiruncula** Nyl. *Flora* 1878, p. 338, ubi definitur et p. 342. = In Africa boreali (Algeria).

27. **O. deusta** Tuck., Nyl. *Flora* 1876, p. 558, ubi definitur. = In America tropica (ins. Cuba).

28. **O. polyglossa** Nyl. *Flora* 1876, p. 558, ubi definitur. = In America tropica (ins. Cuba).

29. **O. pyrenoides** Nyl. *Syn.* I, p. 100, ubi definitur; *Enum. Lich. Supplém.* p. 333. = In America septentrionali (Texas).

Gen. XI. — COLLEMOPSIS Nyl.

30. **C. numidella** Nyl. *Flora* 1878, p. 338, ubi definitur. = In Africa boreali (Algeria).

31. **C. Flotowiana** Nyl. *Flora* 1873, p. 17. — *Pyrenopsis Flotowiana* Nyl. *Flora* 1866, p. 374; *Thelochroa Flotowiana* Hepp. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68). — Etiam in Europa.

Gen. XII. — ANEMA Nyl.

32. **A. nummularium** Nyl. *Flora* 1878, p. 342. — *Collema nummularium* Duf., Nyl. *Lich. Algér.* p. 319 et *Syn.* I, p. 103, tab. IV, fig. 9, ubi definitur; *Enum. Lich.* p. 89; *Prodr. Lich. Gall.* p. 20. = In Africa boreali (Algeria). — Etiam in Europa (regione mediterranea).

(1) Quoties hæc vox : *ubi definitur* post plura loca citata ponitur, toties significatur speciem de qua agitur, in singulis locis citatis a cel. Nylander definitam fuisse.



33. **Anema plicatissimum** Nyl. *Flora* 1878, p. 242, ubi definitur. = In Africa boreali (Algeria).

Gen. XIII. — COLLEMA Ach.

Subgen. I. — *Collema* propr. dict. Nyl.

Sectio A. — THALLUS VARIUS; SPORÆ SIMPLICES.

34. **C. fuliginellum** Nyl. *Lich. Angol.* p. 509, ubi definitur. = In Africa occidentali (Angola).

35. **C. placynthium** Dur., Nyl. *Lich. Algér.* pp. 308 et 319. = In Africa boreali (Algeria).

36. **C. myriococcum** Ach., Nyl. *Lich. Algér.* p. 319 et *Syn.* I, p. 104, tab. IV, fig. 21, ubi definitur; *Enum. Lich.* p. 89. = In Africa boreali (Algeria). — Etiam in Europa.

37. **C. triptodes** Nyl. *Flora* 1884, p. 218 et *Lich. Fr. Behr.* p. 17, ubi definitur. Thallus I+. (1) =. In Asia boreali (Konyambay). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 60).

38. **C. opulentum** Mont., Nyl. *Syn.* I, p. 104, ubi definitur; *Enum. Lich.* p. 89. = In America meridionali (Chili *Addit. Fl. chil.* p. 176, ubi definitur pr. p.).

39. **C. leptideum** Nyl. *Syn.* I, p. 105, ubi definitur. *Enum. Lich.* p. 141 et *Supplém.* p. 333. = In Africa occidentali (ins. Sti Vincentii).

40. **C. Umbella** Nyl. *Syn.* I, p. 105, ubi definitur, — *Omphalaria Umbella* Tuck., Nyl. *Enum. Lich. Supplém.* p. 333, ubi scribitur : *O. Umbellula*. = In America septentrionali (Alabama).

Sectio B. — THALLUS MEMBRANACEUS, LOBATUS, LACINIATUS, SQUAMULOSO-GRANULATUS; SPORÆ OVOIDEÆ VEL ELLIPSOIDEÆ, SEPTATÆ ET ALIQUOTIES MURALI-DIVISÆ, SPERMATIA RECTA ARTROSTERIGMATIBUS INFIXA.

41. **C. subhumosum** Nyl. *Flora* 1884, p. 218 et *Lich. Fr. Behr.* p. 17, ubi definitur. = In America boreali (Konyambay).

42. **C. granosum** Wulf., Nyl. *Lich. Fr. Behr.* p. 26. = In eadem regione.

43. **C. ceranoides** Borr., Nyl. *Flora* 1878, p. 342. = In Africa boreali (Algeria).

44. **C. flaccidum** Ach., Nyl. *Syn.* I, p. 107, ubi definitur; *Enum. Lich.* p. 89. Thallus I —. = In Asia. — In America septentrionali. — In Oceania (ins. Taïti, *Lich. exot.* p. 235). — Etiam in Europa.

45. **C. subconveniens** Nyl. *Lich. N. Zeland.* 1888, p. 8, ubi definitur. = In Oceania (Nova Zelandia).

46. **C. furvum** Ach., Nyl. *Syn.* I, p. 107, ubi definitur; *Enum. Lich.* p. 89. Lamina thalli tennis tantum dessicata rubet. = In Africa boreali (Algeria, *Lich. Algér.* p. 307). — In America septentrionali. — Etiam in Europa.

— **F. subhirsutulum** Nyl. *Lich. Fr. Behr.* p. 60, ubi definitur. = In America boreali (Port-Clarence).

47. **C. stenophyllum** Nyl. *Syn.* I, p. 107, ubi definitur. = In America boreali.

48. **C. pustulatum** Nyl. *Syn.* I, p. 108, ubi definitur; *Enum. Lich.* p. 89. = In America boreali (Alabama et alibi).

(1) Littera I significat solutionem aquæ iodique, seu aquam cui adjunctum fuit parum iodi necnon iodureti potassici. Quoad litteras K et Ca Cl quæ infra sapius ponuntur, K indicit hydratem Kalicum seu potius hydratem potassicum (gallice : la potasse caustique); Ca Cl vero significat hypochloritem calcicum impurum (gallice : le chlorure de chaux du commerce). Ad producendam reactionem utraque substantia aquæ immixta adhibetur.

49. **Collema melænum** Ach., Nyl. *Syn.* p. 108, ubi definitur; *Enum. Lich.* p. 89. = In Africa boreali (Algeria, *Lich. Algér.* p. 307). — In America boreali (Port-Clarence et alibi, *Lich. Fr. Behr.* p. 68). — Etiam in Europa.

50. **C. cristatum** Schaer., Nyl. *Syn.* I, p. 109, ubi definitur; *Enum. Lich.* p. 89. = In Africa boreali (Algeria, *Flora* 1878, p. 345), orientali (ins. Borbonia, *Lich. exot.* p. 248) et occidentali (ins. Madera, *Lich. Madère* p. 188). — Etiam in Europa.

51. **C. pulposum** Ach., Nyl. *Syn.* I, p. 109, ubi definitur; *Enum. Lich.* p. 89; *Flora* 1886, p. 465, thallus I+. = In Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 307). — In America septentrionali et tropica (ins. Guadalupa, forma corticola, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 3, in notula). — Etiam in Europa.

— Var. 1. **formosum** Ach., Nyl. *Syn.*, loc. citat., ubi definitur. = In Asia occidentali (Syria).

— Var. 2. **tenax** Ach., Nyl. *Syn.* I, p. 110, ubi definitur; *Enum. Lich.* loc. citat. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 60, ubi sporæ definiuntur; thallus I+. — Etiam in Europa.

52. **C. pulposulum** Nyl. *Lich. Ægypt.* p. 1, ubi definitur. = In Africa boreali (Ægypto).

— **F. pulvinatum** Nyl. *Lich. Ægypt.* p. 2, ubi definitur. = In eadem regione.

53. **C. subcrispum** Nyl. *Lich. N. Zeland.* 1888, p. 8, ubi definitur. = In Oceania (Nova Zelandia).

54. **C. limosum** Ach., Nyl. *Syn.* I, p. 110, ubi definitur; *Enum. Lich.* p. 89. = In Asia (China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — Etiam in Europa.

55. **C. cheileum** Ach., Nyl. *Syn.* I, p. 111, ubi definitur; *Enum. Lich.* p. 89. = In Africa boreali (Algeria, *Lich. Algér.* p. 307; *Prodr. Lich. Gall.* p. 22; *Flora* 1878, p. 339). — Etiam in Europa.

— Var. **Metzleri** Hepp. = In Africa boreali (Algeria, *Flora* 1886, p. 465, ubi sporæ definiuntur, *C. platycarpum* Dur. et Mont.). — Etiam in Europa.

56. **C. ferax** Dur. et Mont. = In Africa boreali (Algeria, *Flora* 1886, p. 465, ubi definitur).

57. **C. verruciforme** Nyl. *Syn.* I, p. 112, tab. IV, fig. 6, ubi definitur; *Enum. Lich.* p. 89. = In Africa boreali (ins. Fortunatis, Teneriffa). — Etiam in Europa.

58. **C. coccophyllum** Nyl. *Syn.* I, p. 112, tab. IV, fig. 20, ubi definitur; *Enum. Lich.* p. 89. = In Asia meridionali (India).

58. **C. coccophylloides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. et 13, ed. 2<sup>a</sup> p. 1, ubi definitur. = In America tropica (Nova Granata).

60. **C. microphyllum** Nyl. *Syn.* I, p. 113, ubi definitur; *Enum. Lich.* p. 89. = In Africa boreali (Algeria, *Lich. Algér.* p. 308 et *Prodr. Lich. Gall.* p. 23). — Etiam in Europa.

Sectio C. — THALLUS VARIE FORME; SPORÆ FUSIFORMES.

61. **C. nigrescens** Ach., Nyl. *Syn.* I, p. 114, ubi definitur; *Enum. Lich.* p. 90; *Flora* 1886, p. 401, thallus I+. = In Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 307 et *Prodr. Lich. Gall.* p. 23). — In America tropica (Mexico, *Flora* 1858, p. 377). — In Oceania (Archipel. Mendana, *Lich. îles Marquises* p. 301 et *Lich. exot.* p. 235; Nova Zelandia). — Etiam in Europa.

— **F. glaucocarpum** Nyl. *Lich. And. Boliv.* p. 367, in notula. = In Africa boreali (Algeria).

62. **C. actinoptychum** Nyl. *Syn. Lich. N. Caled.* p. 5, ubi definitur; *Flora* 1867, p. 193. = In Oceania (Nova Caledonia).

63. **C. glaucophthalmum** Nyl. *Syn.* I, p. 114, ubi definitur; *Enum. Lich.* p. 90;

*Flora* 1886, p. 101, thallus I +. = In America tropica (Mexico, *Flora* 1858, p. 377, ubi etiam definitur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 2, ubi sporæ definiuntur; Bolivia, *Lich. And. Boliv.* p. 367).

64. **Collema implicatum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 2, ubi definitur. In America tropica (Mexico; Nova Granata).

65. **C. belenophorum** Nyl. *Syn. Lich. N. Caled.* p. 5, ubi definitur; *Flora* 1867, p. 193. = In Oceania (Nova Caledonia).

66. **C. leucocarpum** Tayl. *Lich. antaret.* n<sup>o</sup> 144; *C. nigrescens* var. *leucocarpum* Bab. *Nov. Zeal.* p. 44; Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 2, ubi sporæ definiuntur et ubi affirmatur hoc Collema specie differre a *C. glaucophthalmo*, quod perperam negatur in *Expos. Lich. N. Caledon.* p. 38 in notula et in *Lich. And. Boliv.* p. 367. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 8; in posteriore loco definitur et datur thalli reactio I —, quæ in *Flora* 1886, p. 101 perperam dicitur I +.

67. **C. thysanæoides** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 50, ubi definitur. Thallus I +, *Flora* 1886, p. 101. = In Asia orientali (Malacca).

68. **C. conistizum** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 50, ubi definitur. Thallus I +, *Flora* 1886, loc. citat. = In Asia orientali (Malacca).

69. **C. aggregatum** Nyl. *Syn.* I, p. 115, tab. II, fig. 9, ubi definitur; *Enum Lich.* p. 90; *Flora* 1886, p. 101, thallus I +. = In Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 318) et orientali (ins. Borbonia, *Lich. exot.* p. 248). — In America tropica (Mexico, *Flora* 1858, p. 377) et meridionali (Chili, *Addit. Fl. chil.* p. 176). — In Oceania (Polynesia; Nova Zelandia; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 38). — Etiam in Europa.

— **F. excludens** Nyl. *Lich. And. Boliv.* p. 367, ubi definitur. — In America tropica (Bolivia).

70. **C. leptaleum** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 2, ubi definitur. = In America utraque (Nova Anglia, Carolina, Cuba et Brasilia, ubi viget etiam forma peculiaris ibidem definita).

71. **C. thysanæum** Ach. Cel. Nylander in *Syn.* I, p. 115 et in *Lich. exot.* p. 235, dat illud ut varietatem *C. aggregati*, sed in *Lich. And. Boliv.* p. 367 in notula et in *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 2, ubi definitur, affirmat hoc Collema propriam esse speciem. Thallus I +, *Flora* 1885, p. 43. = In Africa boreali (Algeria) et meridionali (Promont. Bonæ Spei, *Lich. Port Natal* p. 4, in notula, ubi sporæ definiuntur). — In Oceania (ins. Java; archipel. Mendana, *Lich. exot.* p. 235; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 8, ubi sporæ adhuc definiuntur). — Etiam in Europa, *Flora* 1883, p. 104, ubi etiam definitur et datur thalli reactio erronea I —.

— **F. subpruinatum** Nyl. *Lich. Madère* p. 188. = In Africa boreali (ins. Madera).

72. **C. thysanizum** Nyl. *Flora* 1883, p. 534; *C. thysanæoides* Nyl. ibid. p. 104, ubi definitur. Thallus I +. = In Oceania (ins. Java) et alibi.

73. **C. pycnocarpum** Nyl. *Syn.* I, p. 115, ubi definitur; *Enum. Lich.* p. 90. = In America utraque (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 2).

74. **C. laciniatum** Nyl. *Syn.* p. 115, ubi definitur; *Enum. Lich.*, p. 90; *Flora* 1886, p. 101, thallus I +. = In America boreali (Alabama).

75. **C. solenarium** Tuck., Nyl. *Flora* 1876, p. 558, ubi definitur, et 1886, p. 101; thallus I +. = In America tropica (ins. Cuba).

76. **C. stellatum** Tuck., Nyl. *Flora* 1886, p. 101; eadem thalli reactio = In America tropica (ins. Cuba).

79. **C. conglomeratum** Hoffm., Nyl. *Syn.* I, p. 115, tab. III, fig. 1, ubi definitur; *Enum Lich.* p. 90; *Lich. Algér.* p. 319 et *Flora* 1886, p. 101; thallus I +. = In America meridionali (Chili?, *C. myriococcum* Mont. *Chil.* p. 220). — Etiam in Europa.



78. **Collema redundans** Nyl. *Lich. Port Natal* p. 3, ubi definitur. = In Africa meridionali (Portu Natali).

79. **C. polyschides** Nyl. *Syn.*, I, p. 117, ubi definitur; *Enum. Lich. Supplém.* p. 333. — *Leptogium polyschides* Mont., Nyl. *Enum. Lich.* p. 91. = In America meridionali (Chili, *Addit. Fl. chil.*, p. 176.).

Subgen. II. — *Dichodium* Nyl. *Lich. N. Zeland.* 1888, p. 9.

80. **D. byrsinum** Nyl. *Syn. Lich. N. Caled.* p. 5 et *Flora* 1867, p. 193. — *Collema byrsinum* Ach., Nyl. *Syn.* I, p. 113, ubi definitur; *Enum. Lich.* p. 90. = In terris tropicis. — In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 50). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 248) et meridionali (Portu Natali, *Lich. Port Natal* p. 4). — In America tropica (ins. Martinica et Guadalupa, *Lich. Antill.* p. 4) et meridionali (Chili). — In Oceania (archipel. Mendana, *Lich. îles Marquis.* p. 301; ins. Taïti, *Lich. exot.* p. 235; Nova Caledonia, *Lich. N. Caled. Syn.* p. 4, ubi definitur, *Prodr.* p. 281 et *Exposit.* p. 38; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 9).

— Var. 1. **divisum** Nyl. *Prodr. Lich. N. Caled.* p. 280, ubi definitur; *Exposit.* et *Syn. Lich. N. Caled.*, loc. citat. = In Oceania (Nova Caledonia).

— Var. 2. **hypomelænum** Nyl. *Prodr. Lich. N. Caled.* p. 281, in notula, ubi definitur. = In Oceania (ins. Taïti).

*Collema Boryanum* Ach., quod a cel. Nylander indicatur in America meridionali (Chili, *Addit. Fl. chil.* p. 176) et in Oceania (archipel. Mendana, *Lich. îles Marquis.* p. 301), merito ab illo in *Syn.* I, p. 114, *Lich. exot.* p. 208 et in *Enum. Lich.* p. 90 ad *D. byrsinum* refertur.

81. \* **D. amphiurum** Nyl. *Lich. N. Caled. Prodr.* p. 281, *Exposit.* p. 38 et *Syn.* p. 4, ubi definitur; *Flora* 1867, p. 193. = In Oceania (Nova Caledonia).

82. **D. reflectens** Nyl. *Syn. Lich. N. Caled.*, p. 4, ubi definitur; *Flora* 1867, p. 193. = In Oceania (Nova Caledonia).

83. **D. subluridum** Nyl. *Flora* 1867, p. 193 in notula et *Syn. Lich. N. Caled.* p. 5. — *Pannaria sublurida* Nyl. *Lich. exot.* p. 256 in notula et *Syn.* II, p. 28, ubi definitur; *Disp. Psoromat. et Pannar.* p. 294. = In Africa meridionali (Promont. Bonæ Spei). — In Oceania (ins. Java).

Subgen. III. — *Ramalodium* Nyl.

84. **R. succulentum** (R. Brown) Nyl. apud Cromb. *Austr. Lich.* p. 392, ubi definitur. = In Oceania (Australia).

Gen. XIV. — COLLEMODIUM NYL.

85. **C. plicatile** Nyl. *Flora* 1883, p. 104. — *Collema plicatile* Ach., Nyl. *Syn.* I, p. 109, ubi definitur. *Enum. Lich.* p. 89. = In Africa boreali (Algeria, *Lich. Algér.* p. 307 et *Prodr. Lich. Gall.* p. 22). — In America boreali (Groenlandia, *Flora* 1862, p. 81). — Etiam in Europa.

86. **C. Apalachense** Nyl. *Flora* 1879, p. 354. — *Collema Apalachense* Tuck. — *Leptogium Apalachense* Nyl. *Syn.* I, p. 133, ubi definitur et *Enum. Lich. Supplém.* p. 334, = In America septentrionali.

87. **C. triptophylloides** Nyl. — *Collema triptophylloides* Nyl. *Flora* 1884, p. 218 et *Lich. Fr. Behr.* p. 17 ubi definitur. = In Asia boreali (Konyambay).

88. **Collemodium rigens** Nyl. *Lich. N. Zeland.* 1888, p. 41, ubi definitur. — *Leptogium rigens* Nyl. *Lich. And. Boliv.* p. 368, in notula, ubi etiam definitur. — In Oceania (Nova Zelandia).

Gen. XV. — AMPHINOMIUM Nyl.

89. **A. pannarinum** Nyl. *Lich. N. Zeland.* 1888, p. 9, ubi definitur. = In Oceania Nova Zelandia).

Gen. XVI. — LEPTOGIUM Fr.

Subgen. I. — *Leptogium* propr. dict.

1. — Stirps *Leptogii humosi*, Nyl.

90. **L. humosum** Nyl. *Syn.* I, p. 419, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. Thallus I+. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 48). — Etiam in Europa boreali.

2. — Stirps *Leptogii spongiosi*, Nyl.

91. **L. tenuissimum** Nyl. *Lich. Fr. Behr.* p. 48. — *Lichen tenuissimus* Dicks., qui in Nyl. *Syn.* I, p. 419, sub *L. spongioso* sumitur. = In Asia boreali (Konyambay). — Etiam in Europa.

3. — Stirps *Leptogii tremelloidis* Nyl.

92. **L. lacerum** Fr., Nyl. *Syn.* I, p. 422, tab. II, fig. 6, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. = In Africa boreali (Algeria, *Lich. Algér.* p. 307 et *Prodr. Lich. Gall.* p. 25). — In America utraque (Chili, *Addit. Fl. chil.* p. 476). — Etiam in Europa.

— Var. 1. **pulvinatum** Ach., Nyl. *Syn.* loc. citat., ubi definitur; *Enum. Lich. Supplém.* p. 333. = In Africa boreali (Algeria, *Flora* 1878, p. 345). — Etiam in Europa.

— Var. 2. **lophæum** Nyl., *L. scotinum* var. *lophæum* Ach., Nyl. *Syn.*, loc. citat., ubi definitur; *Enum. Lich. Supplém.* p. 333. — In Africa boreali (Algeria, *Lich. Algér.* p. 307). — Etiam in Europa.

93. **L. lobulatum** Nyl. *Lich. iles Marquis.* p. 304. = In Oceania (archipel. Mendana).

94. **L. scotinum** Fr., Nyl. *Syn.* I, p. 423, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — *Collema scotinum* Ach. = In Asia boreali (Laurencebay, *Lich. Fr. Behr.* p. 6). — In Africa boreali (Algeria, *Lich. Algér.* p. 307 et *Prodr. Lich. Gall.* p. 25). — In America boreali (Port Clarence, *Lich. Fr. Behr.* p. 60). — Etiam in Europa.

95. — **L. sinuatum** Ach., Nyl. *Lich. N. Zeland.* 1888, p. 40. — *Lichen sinuatus* Huds. = In Oceania (Nova Zelandia). — Etiam in Europa.

96. **L. dactylinum** Tuck., Nyl. *Syn.* I, p. 423, ubi definitur; *Enum. Lich. Supplém.* p. 333. = In America boreali (Nova Anglia).

97. **L. pulchellum** Nyl. *Syn.* I, p. 423, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — *Collema pulchellum* Ach. = In America septentrionali (Carolina meridionali) et tropica (Mexico, *Flora* 1858, p. 377; Nova Granata, *Flora* 1864, p. 618, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 80 et ed. 2<sup>a</sup> *Addit.* p. 535; Bolivia, *Lich. And. Boliv.* p. 369, ubi forma peculiaris definitur).

98. **L. foveolatum** Nyl. *Syn.* I, p. 424 et *Flora* 1858, p. 378, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. = In America tropica (Mexico; Bolivia, *Lich. exot.* p. 208 et *Lich. And. Boliv.* p. 369, et in hoc posteriore loco sporæ definiuntur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 44, ed. 2<sup>a</sup> p. 3 et *Addit.* p. 534).

99. **L. reticulatum** Mont., Nyl. *Syn.* I, p. 424, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. = In America tropica (Guyana gallica).

400. **Leptogium tremelloides** Fr., Nyl. *Syn.* p. 124, tab. II, fig. 7, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — In terris exoticis præsertim calidioribus. — In Asia orientali (Malacca et Japonia, Nyl. et Cromb. *Lich. East. Asia*, pp. 50 et 66) et meridionali (ins. Andaman, *Lich. Andam.* p. 5). — In Africa Orientali (ins. Borbonia, *Lich. exot.* p. 248) et occidentali (ins. Madera, *Lich. Madère* p. 488). — In America tropica (Mexico, *Flora* 1858, p. 377; Martinica et Guadalupa, *Lich. Antill.* p. 4; Peruvia, *Lich. exot.* p. 208, *Flora* 1855, p. 673; Bolivia, *Lich. And. Boliv.* p. 368; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14, ed. 2<sup>a</sup> p. 2 et *Addit.* p. 534; Chili, *Lich. exot.* p. 262 et *Addit. Fl. chil.* p. 176). — In Oceania (Taïti et archipel Mendana, *Lich. exot.* p. 235 et *Lich. îles Marquis* p. 301; Nova Caledonia, *Flora* 1867, p. 194, *Exposit. Lich. N. Caledon.* p. 38, *Syn.* ejusdem p. 5 et in hoc posteriore loco definitur; Nova Zelandia; *Lich. N. Zeland* 1888, p. 10, ubi sporæ definiuntur.) — Etiam in Europa.

— Var. 1. **Marianum** Nyl. *Syn.* I, p. 125, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — *L. Marianum* Mont. — In America meridionali (Chili, *Addit. Fl. chil.* p. 176). — In Oceania (Polynesia, ins. Marianis et Sandwich, *Lich. exot.* p. 235).

— Var. 2. **marginellum** Nyl. *Syn.* I, p. 125, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — *Lichen marginellus* Sw. — In Asia meridionali (ins. Andaman, *Lich. ins. Andam.* p. 5). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 248). — In America tropica (Mexico, *Flora*, 1858, p. 377.)

— Var. 3. **macrocarpum** Nyl. *Flora* 1855, p. 673 et *Lich. exot.* p. 208. — In America tropica (Peruvia).

— Var. 4. **rugulosum** Nyl. *Syn. Lich. N. Caled.* p. 6, ubi definitur. Ab eo vix differt *L. cimiciodorum* Mass. — In America tropica (Mexico, *Mexic. Plant.* p. 4). — In Oceania (Nova Caledonia).

— Var. 5. **pichneum** Ach., Nyl. *Syn. Lich. N. Caled.* p. 6. — In Africa occidentali (ins. Principis, *Lich. ins. Guin.* p. 7). — In Oceania (Nova Zelandia, *Lich. N. Zeland* 1888, p. 10, ubi sporæ definiuntur).

— Var. 6. **scotinoides** Nyl. *Lich. And. Boliv.* p. 368, ubi definitur, *L. lacerum* var. *pulvatum* Mont. *Chil.* p. 227. — In America tropica (Bolivia).

Var. 7. **juniperinum** Nyl. *Syn.* I, p. 125, in notula, ubi definitur. *Leptogium juniperinum* Tuck. — In America septentrionali (Texas).

401. \* **L. azureum** Nyl. *Lich. N. Zeland.* 1888, p. 10, ubi sporæ definiuntur. — *Lichen azureus* Sw. — *L. tremelloides* var. *azureum* Nyl. *Syn.* I, p. 125, ubi definitur, *Enum. Lich.* et *Supplém.*, loc. citat. — In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 50. — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 248), meridionali (Promont. Bonæ Spei) et occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 3 et *Lich. ins. Guin.* p. 7; ins. Madera, *Lich. Madère*, p. 188). — In America tropica (Mexico, *Flora* 1858, p. 377; Nova Granata, *Prodr. Fl. N. Granat. Addit.* p. 534) meridionali (Chili, *Addit. Fl. chil.* p. 176; Repub. Argentina, *Lich. Fueg.* p. 3). — In Oceania (ins. Java; ins. Taïti et archipel Mendana, *Lich. exot.* p. 235 et *Lich. îles Marquis* p. 301; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 38; Nova Zelandia).

402. **L. diaphanum** Mont. Nyl. *Syn.* I, p. 125, ubi definitur; *Enum. Lich. Supplém.* p. 333. — *Lichen diaphanus* Sw. Thallus I fulvo-rubescens. — In America tropica (Jamaica; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 3; Peruvia, *Lich. exot.* p. 208).

— In Oceania (Taïti et archipel Mendana, *Lich. exot.* p. 235 et *Lich. îles Marquis* p. 301; ins. Philippinis; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 10, ubi sporæ definiuntur).

403. **L. crispatellum** Nyl. *Lich. N. Zeland.* 1888, p. 10, ubi definitur. — In Oceania (Nova Zelandia).



104. **Leptogium crenatellum** Tuck., Nyl. *Flora* 1860, p. 44 et 1864, p. 44. = In America tropica.

105. **L. denticulatum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 534, ubi definitur. = In America tropica (Nova Granata).

106. **L. callithamnion** Nyl. *Syn.* I, p. 126, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — *Sticta callithamnion* Tuck. = In America meridionali (ins. Juan Fernandez).

107. **L. palmatum** Mont., Nyl. *Syn.* I, p. 126 et *Lich. Algér.* p. 317, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. — *Lichen palmatus* Huds. = In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 25) et occidentali (ins. Canariis). — Etiam in Europa.

108. **L. ciliatum** Nyl. *Syn.* I, p. 126, ubi definitur; *Enum. Lich. Supplém.* p. 333; *Flora* 1858, p. 338. *L. palmatulum* Nyl. *Enum. Lich.* p. 90. = In Oceania (ins. Java).

109. **L. laceratulum** Nyl. apud Cromb. *Challeng. exped.* p. 224, ubi definitur. = In Oceania (Taiti).

110. **L. anastomosans** (Del.), Nyl. *Flora* 1855, p. 673. = In America tropica (Peruvia).

111. **L. punctulatum** Nyl. *Mexic. Plant.* p. 1, ubi definitur. = In America tropica Mexico).

#### 4. — *Mallotium* Flot.

112. **L. myochroum** Nyl. *Lich. Fr. Behr.* p. 60. — *Lichen myochrous* Ehrh., Nyl. *Syn.* I, p. 127, ubi sub *L. saturnino* sumitur. = In America boreali (Port-Clarence). — Etiam in Europa.

113. **L. saturninum** Nyl. *Syn.* I, p. 127, tab. IV, fig. 16, ubi definitur; *Enum. Lich. Supplém.* p. 333. — *Collema saturninum* Ach. = In America meridionali (Chili, *Addit. Fl. chil.* p. 176). — Etiam in Europa.

114. **L. Hildenbrandii** Nyl. *Syn.* I, p. 127, ubi definitur; *Enum. Lich.* p. 141 et *Supplém.* p. 333. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 4). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 367). — Etiam in Europa.

115. **L. Menziesii** Nyl. *Syn.* I, p. 128, ubi definitur; *Enum. Lich.* p. 141 et *Supplém.* p. 333. — *Collema Menziesii* Ach. = In Asia (China et India). — In Africa meridionali (Promont. Bonæ Spei). — In America meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 3; Bolivia, *Lich. And. Boliv.* p. 368, ubi sporæ definiuntur) et australi (Chili, *Addit. Fl. chil.* p. 176; Fretto Magellanico et ins. Maclovianis).

116. **L. Delavayi** Hue, Nyl. *Lich. ins. Guin.* p. 45, ubi definitur; Hue *Lich. Yunn.* II, p. 25. = In Asia (China, prov. Yun-nan).

117. **L. resupinans** Nyl. *Lich. And. Boliv.* p. 368, ubi definitur. = In America tropica (Bolivia).

#### 5. — *Stephanophoron* Flot.

118. **L. chloromelum** Nyl. — *Lichen choromelus* Sw. — Ab hac specie non differre dicitur *Collema ruginosum*, Duf., Nyl. in *Flora* 1858, p. 338 et in *Enum. Lich.* p. 90 et *Suppl.* p. 333, sed in *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 429 legitur: *C. ruginosum* Duf. europæum vix specie differt thallo magis rugifero, etc.

*L. chloromelum* Nyl. definitur in *Syn.* I, p. 128. — *Collema chloromelum* Ach., Nyl. *Enum. Lich.* p. 89. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 50; India). — In Africa occidentali (ins. Canariis). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.*, loc. citat. ubi apothecia et sporæ definiuntur, et *Addit.* p. 535; Mexico; ins. Jamaica; Brasilia). — In Oceania (Taiti, *Lich. exot.* p. 235).

— Var. 1. **subruginosum** Nyl. — *Collema subruginosum*. Nyl. *Enum. Lich.*, p. 89. = In America tropica (Mexico, *Flora* 1858, p. 377.

— Var. 2. **crassius** Nyl. *Lich. Port Natal* p. 4, ubi definitur. = In Africa meridionali (Portu Natali).

— Var. 3. **compactum** Cromb., Nyl. et Cromb. *Lich. East. Asia*, p. 50, ubi definitur. = In Asia orientali (Malacca).

— Var. 4. **lævius** Nyl. *Lich. And. Boliv.* p. 369, ubi definitur. = In America tropica (Bolivia).

119. **Leptogium chloromeloides** Nyl. *Lich. Port Natal* p. 4, ubi definitur. = In Africa meridionali (Portu Natali).

120. **L. bullatum** Nyl. *Syn.* I, p. 129, ubi definitur; *Enum. Lich.* p. 191 et *Supplém.* p. 333. — *Lichen bullatus* Ach. = In Asia (India). — In America tropica (Mexico, *Flora* 1858, p. 377; India occidentali; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 15 et ed. 2<sup>a</sup> p. 4 et *Addit.* p. 535; Bolivia, *Lich. exot.* p. 208 et *Lich. And. Boliv.* p. 369). — In Oceania (Nova Zelandia).

— Var. 1. **dactyloideum** Nyl. *Syn.* I, loc. citat. et *Flora* 1858, p. 338, ubi definitur. = In America tropica (Mexico, Nova Granata et Bolivia, *Lich. And. Boliv.* p. 369).

121. **L. phyllocarpum** Nyl. *Syn.* I, p. 130, ubi definitur; *Enum. Lich.* p. 91 et *Supplém.* p. 333. — *Lichen phyllocarpus* Pers. = In Asia (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249) et meridionali (Portu Natali, *Lich. Port Natal* p. 4; Promont. Bonæ Spei) et occidentali (Huilla, *Lich. Afric.* p. 131). — In America tropica (Mexico, *Mexic. Plant.* p. 1; Guadalupa, *Lich. Antill.* p. 4; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 3; Peruvia, *Lich. exot.* p. 208) et australi (Chili, *Addit. Fl. chil.* p. 176; Fuegia, *Lich. Fueg.* p. 24; Freto Magellanico, *Flora* 1855, p. 673). — In Oceania (ins. Java; ins. Philippinis; Nova Caledonia *Lich. N. Caledon. Syn.* p. 6, ubi definitur et *Exposit.* p. 38, *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 10).

— Var. 1. **isidiosum** Nyl. *Syn.* I, p. 130, ubi definitur; *Enum. Lich. Supplém.* p. 333. = In America tropica (Mexico; Guadalupa, *Lich. Antill.* p. 4).

— Var. 2. **cærulescens** Nyl. *Syn.* I, p. 130, ubi definitur; *Enum. Lich. Supplém.* p. 333. = In America tropica (Guyana gallica). — In Oceania (Taïti, *Lich. exot.* p. 235).

— Var. 3. **macrocarpum** Nyl. *Syn.* I, p. 130, ubi definitur; *Enum. Lich. Supplém.* p. 333. — In America tropica (Venezuela; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 14 et ed. 2<sup>a</sup> p. 3; Peruvia, *Lich. exot.* p. 208; Bolivia, *Lich. And. Boliv.* p. 369, ubi apothecia definiuntur; Chili).

— Var. 4. **dædaleum** Nyl. *Syn.* I, p. 130, ubi definitur; *Enum. Lich. Supplém.* p. 333. *L. dædaleum* Nyl. *Enum. Lich.* p. 91. — *Stephanophorus dædaleus* Flot. = In Africa orientali (Abyssinia).

122. **L. sphinctrinum** Nyl. *Syn.* I, p. 131, ubi definitur; *Enum. Lich. Supplém.* p. 333. — *Stephanophorus javanicus* Mont. = In Oceania (ins. Java; ins. Marianis, *Flora* 1858, p. 338 et *Lich. exot.* p. 235; Nova Caledonia, *Syn. Lich. N. Caled.* p. 6, ubi definitur; *Prodr. Lich. N. Caled.* p. 282 et *Exposit.* p. 38 et *Flora* 1867, p. 194).

123. **L. adpressum** Nyl. *Syn.* I, p. 131, ubi definitur et *Enum. Lich. Supplém.* p. 333. n *Flora* 1858, p. 377 et *Enum. Lich.* p. 91 perperam datur ut var. *L. phyllocarpi*, nam est species propria, *Flora* 1858, p. 338, ubi etiam definitur. = In America tropica (Mexico).

124. **L. cyanizum** Nyl. apud Cromb. *Challeng. exped.* p. 227. Definitur in *Syn.* I, p. 131, sub nomine: *L. cyanescens*, quod nomen mutandum fuit, quia ab Achario adhibetur ut var. *L. tremelloidis* Nyl. *Enum. Lich. Supplém.* p. 333. = In Oceania (Polynesia, Nukahiva, *Lich. exot.* p. 235 et *Flora* 1858, p. 338; Nova Caledonia, *Syn. Lich. N. Caled.*

p. 6, ubi definitur, *Lich. N. Caled. Prodr.* p. 282 et *Exposit.* p. 38 et *Flora* 1867, p. 194).

125. **Leptogium corrugatum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup>, p. 15 et ed. 2<sup>a</sup> p. 4, ubi definitur. In *Syn.* I, p. 132, status ejusdem juvenilis tantum definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. = In America tropica (Mexico; Guadalupa, *Lich. Antill.* p. 4; Nova Granata; Peruvia).

126. **L. inflexum** Nyl. *Syn.* I, p. 132 et *Flora* 1858, p. 377, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 334. = In Africa orientali (ins. Sti Pauli, *Flora* 1886, p. 319) et occidentali (Guinea, *Flora* 1862, p. 475, *Flora* 1863, p. 265 et *Lich. ins. Guin.* p. 43). — In America tropica (Mexico; Peruvia, *Lich. exot.* p. 208; Bolivia, *Lich. And. Boliv.* p. 369; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 15 et ed. 2<sup>a</sup> p. 4).

— Var. **isidiosulum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 15 et ed. 2<sup>a</sup> p. 4, ubi definitur. = In America tropica (Nova Granata).

127. **L. Burgessii** Mont., Nyl. *Syn.* I, p. 132, ubi definitur; *Enum. Lich.* p. 91 et *Supplém.* p. 333. — *Lichen Burgessii* Lightf. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249; ins. Sti Pauli, *Flora* 1886, p. 319) et occidentali (Guinea, *Flora* 1863, p. 265; ins. Madera, *Lich. Madère* p. 188; ins. Canariis). — In America. — In Oceania (ins. Java; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 10). — Etiam in Europa (Scotia; Dania).

#### 6. — Stirps *Leptogii Schraderi* Nyl.

128. **L. Schraderi** Nyl. *Syn.* I, p. 133, ubi definitur; *Enum. Lich.* p. 91 et *Supplém.* p. 334. — *Lichen Schraderi* Bernh. = In Africa boreali (Algeria, *Lich. Algér.* p. 307 et *Prodr. Lich. Gall.* p. 26). — Etiam in Europa.

129. \* **L. caespitellum** Nyl. *Syn.* I, p. 133, ubi definitur. *L. Schraderi* var. *caespitellum* Nyl. *Lich. algeriens.* p. 319 et *Lich. Algér.* p. 318, ubi etiam definitur; *Enum. Lich. Supplém.* p. 334. — *Myxopuntia algeriensis* Mont., Nyl. *Prodr. Lich. Gall.* p. 26 in notula — In Africa boreali (Algeria).

130. **L. muscicola** Fr., Nyl. *Syn.* I, p. 134, ubi definitur; *Enum. Lich.* p. 91 et *Supplém.* p. 334; *Lich. Algér.* p. 307. = In Africa boreali (Algeria). — Etiam in Europa.

#### Subgen. II. — *Homodium* Nyl.

131. **H. crenatum** Nyl. *Lich. Fr. Behr.* p. 53, ubi sporæ definiuntur. — *Collemodium crenatum* Nyl. *Flora* 1875, p. 106. = In Asia boreali (Behring insula).

132. **H. parculum** Nyl. *Flora* 1885, p. 601 et *Lich. Fr. Behr.* p. 60, ubi definitur. Thallus I †. = In America boreali (Port-Clarence).

132 bis. **H. pernigratum** Nyl. *Lich. Afric.* p. 131, ubi definitur; forsán genus novum, *Lygoderma*, quod apothecia adhuc ignota determinare poterunt = In Africa occidentali (Huilla).

#### Subgen. III. — *Amphidium* Nyl.

133. **A. molybdoplacum** Nyl. apud Croumb. *Kerguel. land.* p. 181, ubi definitur. = In Africa antarctica (ins. Kerguelen)

#### Gen. XVII. — LEPTOGIDIUM Nyl. *Lich. Pyr. Orient.* p. 48 in notula.

134. **L. dendriscum** Nyl. — *Leptogium dendriscum* Nyl. *Syn.* I, p. 135, ubi definitur. *Enum. Lich.* p. 91 et *Supplém.* p. 334. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249). — In America tropica (Brasilia). — In Oceania (ins. Papeiti, *Lich. exot.* p. 235).



135. **Leptogidium intricatum** Nyl. — *Leptogium intricatum* Nyl. *Syn.* I, p. 135, ubi definitur, et *Enum. Lich. Supplém.* p. 334. = In America septentrionali (Nova Anglia).

Gen. XVIII. — LEPTOGIOPSIS Nyl.

136. **L. complicatula** Nyl. *Flora* 1884, p. 211 et *Lich. Fr. Behr.* p. 26, ubi definitur. = In Asia boreali (Konyambay).

Gen. XIX. — HYDROTHYRIA Russel.

137. **H. fontana** Russ., Nyl. *Syn.* I, p. 135, ubi definitur; *Enum. Lich. Supplém.* p. 334. — In America septentrionali (Nova Anglia).

### FAMILIA III. — LICHENACEI.

#### Series III. — EPICONIODEI.

##### TRIB. VII. — CALICIEI.

Gen. XX. — SPHINCTRINA Fr.

138. **S. turbinata** Fr., Nyl. *Monogr. Calic.* p. 6 et *Syn.* I, p. 142, tab. V, fig. 1., ubi definitur; *Enum. Lich.* p. 91. = In Africa boreali (Algeria, *Lich. Algér.* p. 308) et meridionali (Promont. Bonæ Spei). — In America septentrionali, *Flora* 1859, p. 45 in notula, (Port Clarence, *Lich. Fr. Behr.* p. 61). — Etiam in Europa.

139. \* **S. anglica** Nyl. *Syn.* I, p. 143, tab. V, fig. 3, ubi definitur; *Enum. Lich. Supplém.* p. 334. = In America septentrionali (Nova Anglia). — Etiam in Europa (Anglia).

140. \* **S. fuscescens** Nyl. *Syn.* I, p. 143, tab. V, fig. 4, ubi definitur. *S. anglica* var. *fuscescens* Nyl. *Enum. Lich. Supplém.* p. 334. = In Africa meridionali (Promont. Bonæ Spei).

141. **S. leucopodoides** Nyl. *Lich. N. Zeland.* 1888, p. 12, ubi definitur. = In Oceania (Nova Zelandia).

142. **S. leucopoda** Nyl. *Syn.* I, p. 144, ubi definitur; *Flora* 1859, p. 45; *Enum. Lich. Supplém.* p. 334. = In America septentrionali (Virginia).

143. **S. gomphilloides** Nyl. *Monogr. Calic.* p. 7 et *Syn.* I, p. 144, ubi definitur; *Enum. Lich.* p. 91. = In Asia meridionali (India).

144. **S. obducta** Nyl. *Syn. Lich. N. Caled.* p. 7, ubi definitur; *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).

Gen. XXI. — CALICIUM Ach.

Subgen. I. — *Calicium* propr. dict.

Seclio A. — APOTHECIA STIPITATA, SPORÆ GLOBOSÆ.

145. **C. chrysocephalum** Ach., Nyl. *Monogr. Calic.* p. 40, *Syn.* I, p. 146, tab. V, fig. 11, 12 et 19, ubi definitur; *Enum. Lich.* p. 92. = In America septentrionali. — Etiam in Europa.

146. **C. phæocephalum** Borr., Nyl. *Monogr. Calic.* p. 41, *Syn.* p. 146, tab. V, fig. 13, ubi definitur; *Enum. Lich.* p. 92. = In America septentrionali. — Etiam in Europa.

## Sectio B. — APOTHECIA STIPITATA; SPORE SEPTATE, RARO SIMPLICES.

147. **Calicium robustellum** Nyl. *Flora* 1864, p. 268, *Lich. N. Caled. Exposit.* p. 39 et *Syn.* p. 7, ubi definitur. = In Oceania (Australia; Nova Caledonia, *Flora* 1867, p. 194).

148. **C. hyperellum** Ach., Nyl. *Monogr. Calic.* p. 46 et *Syn.* I, p. 152, tab. V, fig. 23, ubi definitur. *Enum. Lich.* p. 92. = In America boreali et australi (Sarmiento Bay, *Lich. Fueg.* p. 3). — Etiam in Europa.

149. **C. hyperelloides** Nyl. *Syn.* I, p. 153, ubi definitur; *Flora* 1859, p. 44; *Enum. Lich.* p. 92. — In Africa occidentali (ins. Canariis, Teneriffa).

150. **C. leucochlorum** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 6 in notula, ubi definitur. = In America tropica (ins. Cuba).

151. **C. trachelinum** Ach., Nyl. *Monogr. Calic.* p. 18 et *Syn.* I, p. 154, tab. V, fig. 24, ubi definitur; *Enum. Lich.* p. 92. = In America boreali et meridionali (Peruvia, *Lich. exot.* p. 208 et *Addit. Fl. chil.* p. 477). — Etiam in Europa.

152. **C. quercinum** Pers., Nyl. *Monogr. Calic.* p. 49 et *Syn.* I, p. 155, tab. V, fig. 25, ubi definitur; *Enum. Lich.* p. 92. = In America boreali. — Etiam in Europa.

— Var. **microsporum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 6 in notula, ubi sporæ definiuntur. = In America tropica (ins. Cuba).

153. \* **C. lenticulare** Ach., Nyl. *Monogr. Calic.* p. et 20 *Syn.* I, p. 156, ubi definitur; *Enum. Lich.* p. 92. *C. subtile* Tuck. est *C. lenticulare* minus, Nyl. *Enum. Lich. Suppl.* p. 334. = In Asia (Kamtschatka). — In America. — Etiam in Europa.

154. **C. subcinereum** Nyl. *Enum. Lich. Supplém.* p. 334. *C. quercinum* var. *subcinereum* Nyl. *Syn.* I, p. 156, ubi definitur. *C. viride* Fr., Nyl. *Enum. Lich.* p. 92. *C. viride* Tuck. = In America septentrionali (Nova Anglia).

155. \* **C. curtum** Borr., Nyl. *Syn.* I, p. 156, ubi definitur; *Enum. Lich.* p. 92; *C. quercinum* var. *curtum* Nyl. *Monogr. Calic.* p. 19, ubi etiam definitur. = In Asia boreali (Kamtschatka). — In America boreali et calida (Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 535, ubi sporæ definiuntur; *Flora* 1864, p. 618). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 12). — Etiam in Europa.

156. **C. pusillum** Flörke, Nyl. *Syn.* I, p. 157, ubi definitur. *C. lenticulare* var. *debile* Turn. et Borr., Nyl. *Lich. Algér.* p. 321, ubi definitur. Est etiam probabiliter *C. subtile* Pers., Nyl. *Monogr. Calic.* p. 21, ubi definitur; *Enum. Lich. Supplém.* p. 334. = In Africa boreali (Algeria). — Etiam in Europa.

157. **C. parietinum** Ach., Nyl. *Syn.* I, p. 158, tab. V, fig. 26, ubi definitur. = In America septentrionali. — Etiam in Europa.

158. \* **C. albo-nigrum** Tuck., Nyl. *Syn.* I, p. 159, ubi definitur. = In America septentrionali (Nova Anglia).

159. \*\* **C. præcedens** Nyl. *Flora* 1867, p. 370, ubi definitur. = In Europa boreali.

— F. **tenellum** Nyl. *Lich. Fr. Behr.* p. 52, ubi sporæ definiuntur. = In Asia boreali (Bel ring ins.).

160. **C. Curtisii** Tuck., Nyl. *Syn.* I, p. 159, ubi definitur. = In America septentrionali (regione Massachusetts et Virginia).

161. **C. melanophæum** Ach., Nyl. *Monogr. Calic.* p. 44 et *Syn.* I, p. 151, tab. V, fig. 47, ubi definitur; *Enum. Lich.* p. 92. = In America boreali. — Etiam in Europa.

— Var. **brunneolum** Nyl.; *C. trichiale* var. *brunneolum* Nyl. *Monogr. Calic.* p. 44 et *Syn.* I, p. 151, tab. V, fig. 46, ubi definitur; *Enum. Lich.* p. 92. = In America boreali. — Etiam in Europa.

Subgen. II. — *Allodium* Nyl. apud Hue *Add. ad Lich. Europ.*

162. **Calicium trichiale** Ach., Nyl. *Monogr. Calic.* p. 12 et *Syn.* I, p. 149, ubi definitur; *Enum. Lich.* p. 92. = In America septentrionali. — Etiam in Europa.

Gen. XXII. — CONIOCYBE Ach.

163. **C. furfuracea** Ach., Nyl. *Monogr. Calic.* p. 24 et *Syn.* I, p. 161, tab. V, fig. 37, ubi definitur. *Enum. Lich.* p. 92 et *Supplém.* p. 334. = In America boreali (Nova-Anglia) et tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 15 et ed. 2<sup>a</sup> p. 5, ubi sporæ definiuntur). — Etiam in Europa.

164. **C. pallida** Fr., Nyl. *Monogr. Calic.* p. 26 et *Syn.* I, p. 163, tab. V, fig. 38, ubi definitur. *Enum. Lich.* p. 93 et *Supplém.* p. 334. = In America septentrionali. — Etiam in Europa.

Gen. XXIII. — TRACHYLIA Fr.

165. **T. viridula** Schær., Nyl. *Monogr. Calic.* p. 28 et *Syn.* I, p. 164, tab. V, fig. 31, ubi definitur; *Enum. Lich.* p. 93 et *Supplém.* p. 334. = In America boreali (Nova Anglia). — Etiam in Europa.

166. **T. tigillaris** Fr., Nyl. *Monogr. Calic.* p. 29 et *Syn.* I, p. 165, tab. V, fig. 29, ubi definitur; *Enum. Lich.* p. 93. et *Supplém.* p. 334. = In America septentrionali. — Etiam in Europa.

167. **T. tympanella** Fr., Nyl. *Monogr. Calic.* p. 30 et *Syn.* I, p. 166, tab. V, fig. 32, ubi definitur; *Enum. Lich.* p. 93. = In Africa boreali (Algeria, *Lich. Algér.* p. 308 et *Prodr. Lich. Gall.* p. 28). — Etiam in Europa.

168. **T. stigonella** Fr., Nyl. *Monogr. Calic.* p. 32 et *Syn.* I, p. 167, tab. V, fig. 33, ubi definitur; *Enum. Lich.* p. 93. = In America septentrionali. — Etiam in Europa.

169. **T. leptoconia** Nyl. *Prodr. Fl. N. Gran.* edit. 1<sup>a</sup>, p. 15 et edit. 2<sup>a</sup>, p. 5, ubi definitur. = In America tropica (Nova Granata).

170. **T. leucampyx** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup>, p. 16 et ed. 2<sup>a</sup>, p. 5 in notulis, ubi definitur. = In America tropica (ins. Cuba).

Gen. XXIV. — PYRGILLUS Nyl. *Flora* 1859, p. 44.

171. **P. americanus** Nyl. *Syn.* I, p. 168, tab. V, fig. 36, ubi definitur; *Enum. Lich. Supplém.* p. 334. = In America septentrionali (Louisiana).

172. **P. javanicus**. Nyl. *Syn.* I, p. 169, ubi definitur; *Enum. Lich. Supplém.* p. 334. — *Calicium javanicum* Mont. et v. d. Bosch. — *Trachylia javanica* Nyl. *Monogr. Calic.* p. 33, ubi definitur; *Enum. Lich.* p. 93. = In Oceania (ins. Java).

173. **P. cubanus** Nyl. *Flora* 1876, p. 559, ubi definitur. Thallus K + carneo-tinctus. = In America tropica (ins. Cuba).

174. **P. sodalis** Nyl. *Flora* 1876, p. 559, ubi definitur. Eadem thalli reactio. = In America tropica (ins. Cuba).

Gen. XXV. — PYRGIDIUM Nyl. *Flora* 1867, p. 3 in notula.

175. **P. bengaliense** Nyl. *Flora* 1867, p. 3, ubi definitur. — *Pyrgillum? bengaliense* Krempelh. = In Asia meridionali (Calcutta).



## TRIB. VIII. — TYLOPHOREI.

Gen. XXVI. — TYLOPHORON Nyl.

176. **T. protrudens** Nyl. *Bot. Zeit.* 1862, p. 279 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 16, tab. I, fig. 1 et ed. 2<sup>a</sup> p. 6, ubi definitur. = In America tropica (Nova Granata).

177. **T. moderatum** Nyl. *Bot. Zeit.* 1862, loc. citat. et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 16, tab. I, fig. 2 et ed. 2<sup>a</sup> p. 7, ubi definitur. = In America tropica (Nova Granata).

178. **T. diplotylium** Nyl. *Syn. Lich. N. Caled.* p. 8, ubi definitur; *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).

## TRIB. IX. — SPHÆROPHOREI.

Gen. XXVII. — SPILEROPHORON Pers.

179. **S. compressum** Ach., Nyl. *Syn.* I, p. 170, tab. V, fig. 47, ubi definitur; *Enum. Lich.* p. 93. Medulla I —. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249 et Madagascar), meridionali (Promont. Bonæ Spei) et occidentali (ins. San Thomé, *Contrib. da Fl. d'Afric.* p. 3 et *Lich. ins. Guin.* p. 7). — In America utraque (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 7; Chili, *Addit. Fl. chil.*, p. 177; Fuegia, *Lich. Fueg.* p. 3). — In Oceania (ins. Java; Australia; Nova Caledonia, *Flora* 1867, p. 194, *Lich. N. Caled. Expos.* p. 39 et *Syn.* p. 8, et in hoc posteriore loco definitur; ins. Aucklandicis; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244 et 1888, p. 13; ins. Campbellianis, *Lich. Campb.* p. 87). Hæc species potissime viget in hemisphæra australi. — Etiam in Europa.

— Var. **crassum** Nyl. *Flora* 1855, p. 673. = In America australi (Freto Magellanico).

180. \* **S. australe** Laur., Nyl. *Syn.* I, p. 170, ubi definitur; *S. compressum* var. *australe* Nyl. *Enum. Lich.* p. 93. = In America australi (Fuegia, *Lich. Fueg.* p. 24). — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 13; ins. Campbellianis, *Lich. Campb.* p. 87).

181. **S. tenerum** Laur., Nyl. *Syn.* I, p. 171, ubi definitur; *Enum. Lich.* p. 93. = Species regionibus frigescentibus vel frigidis hemisphære australis peculiaris. — In America australi (Chili, *Addit. Fl. chil.* p. 177; Fuegia et in variis insulis hujus regionis, *Lich. Fueg.* p. 3). = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 13; ins. Campbellianis, *Lich. Campb.* p. 87) et in terris antarcticis.

— **F. compactum** Cromb., Nyl. apud Cromb. *Falkl. isl.* p. 223, ubi definitur. = In America australi (Port Gallant; Otter Islands).

182. **S. coralloides** Pers., Nyl. *Syn.* I, p. 171, tab. V, fig. 46, ubi definitur; *Enum. Lich.* p. 93. = In Asia boreali (Siberia, *Lich. Mülldend.* p. 4; Lawrencebay, etc., *Lich. Fr. Behr.* pp. 6, 18, 43 et 53). — In Africa occidentali (ins. Canariis et ins. Madera). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61; Terra Nova) et australi (Chili, *Addit. Fl. Chil.* p. 176; Fuegia, *Lich. Fueg.* p. 3). — In Oceania (Nova Zelandia; Tasmania; ins. Aucklandicis). — Etiam in Europa.

Errone indicatur hæc species in ins. San Thomé Africæ occidentalis in *Flora* 1886, p. 171 et in *Contrib. da Fl. d'Afr.* p. 3; cfr. *Lich. ins. Guin.* p. 7.

183. **S. stereocauloides** Nyl. *Flora* 1869, p. 69 et *Lich. N. Zeland.* 1888, p. 12, ubi definitur; Arn. *Exsicc.* 1210 (1). *S. tenerum* var. *stereocauloides* Nyl. *Syn.* I, p. 171 et *Enum. Lich.* p. 93. Medulla I cærulescit. = In Oceania (Nova Zelandia).

(4) Omnia Novæ-Zelandiæ Exsiccata, quæ in cursu hujus operis citantur, ex opusculo D. Stizen-

184. **Sphærophoron fragile** Nyl. *Syn.* I, p. 172, tab. V, fig. 45, ubi definitur; *Enum. Lich.* p. 93. = In zona arctica. In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 5, 18 et 43). — In America boreali et etiam australi (Chili, *Addit. Fl. chil.* p. 177; freto Magellanico). — Etiam in Europa.

185. **S. fastigiatulum** Nyl. *Enum. Lich.* p. 93. = In America tropica (Caracas).

186. **S. madagascareum** Nyl. apud Cromb. *Lich. Madagasc.* p. 409. = In Africa orientali (ins. Madagascar).

Gen. XXVIII. — ACROSCYPHUS Lév.

187. **A. sphærophoroides** Lév., Nyl. *Syn.* I, p. 173, ubi definitur; *Enum. Lich.* p. 93. = In Asia (Himalaya). — In America tropica (Mexico).

TRIB. X. — BÆOMYCETEI Nyl. *Lich. Fueg.* p. 31.

Series IV. — CLADODEI.

Gen. XXIX. — BÆOMYCES Pers.

188. **B. rufus** DC., Nyl. *Syn.* I, p. 176, tab. I, fig. 12 et tab. VI, fig. 12-14, ubi describitur; *Enum. Lich.* p. 93. = In America utraque. — In Oceania (Nova Zelandia). — Etiam in Europa.

— Var. 1. **sessilis** Nyl. *Syn.* I, p. 177, ubi definitur. — Passim occurrit cum typo.

— Var. 2. **chilensis** Nyl. *Addit. Fl. chil.* p. 177. — *Biatora byssoides* var. *chilensis* Mont. = In America meridionali (Chili).

189. **B. Novæ Zelandiæ** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 13, ubi definitur. Thallus K — . = In Oceania (Nova Zelandia).

190. **B. crenulatus** Hepp, Nyl. *Syn.* I, p. 177, ubi definitur; *Enum. Lich.* p. 93. = In Oceania (ins. Java).

191. **B. ramalinellus** Nyl. *Addit. Fl. chil.* p. 146 et *Syn.* I, p. 177, tab. I, fig. 13, ubi definitur; *Enum. Lich.* p. 93. = In America meridionali (Chili).

192. **B. hæmotropus** Leight. *Addit. Lich. N. Zeal.* p. 30, tab. 4, fig. 1; Nyl. *Lich. N. Zeland.* 1888, p. 14. Thallus et apothecia K e flavo sanguineo-rubescunt. = In Oceania (Nova Zelandia).

193. **B. heteromorphus** Nyl. *Syn.* I, p. 178, *Lich. N. Zeland.* 1888, p. 14 et apud Hook. *Fl. Tasm.* II, p. 351, ubi definitur; *Enum. Lich.* p. 93. Thallus et apothecia K e flavo sanguineo-rubescunt. = In Oceania (Tasmania; Nova Zelandia).

194. **B. absolutus** Tuck., Nyl. *Syn.* I, p. 178, ubi definitur. = In America boreali (Alabama) et tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 8; ins. Cuba, ubi viget forma apotheciis sessilibus vel subsessilibus; Venezuela).

195. **B. roseus** Pers., Nyl. *Syn.* I, p. 179, tab. VI, fig. 15-21, ubi definitur; *Enum. Lich.* p. 93. = In America boreali. — In Oceania (Nova Zelandia). — Etiam in Europa.

196. **B. fungoides** Ach., Nyl. *Syn.* I, p. 178, ubi definitur; *Enum. Lich.* p. 94. Thallus K — . = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249; ins. Madagascar). — In America tropica (Mexico; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 8; Bolivia, *Lich. exot.* p. 209, et *Lich. And. Boliv.* p. 370, et in hoc posteriore loco apothecia deliniuntur. — In Oceania (ins. Java, *Flora* 1866, p. 129; Nova Zelandia *Lich.*

berger cui titulus: *Neuseeländische Lichenen in Allgemeiner zugänglichen Exsiccatenwerken in Flora* 1889, p. 366, deprompta fuerunt.

*N. Zeland.* 1861, p. 244, et 1888, p. 13; in hoc posteriore loco sporæ definiuntur; thallus K —).

197. **Bæomyces placophyllus** Ach., *Nyl. Syn.* I, p. 180, ubi definitur; *Enum. Lich.* p. 94. = In America boreali et in Europa.

198. **B. auratus** Nyl. *Syn.* I, p. 180, ubi definitur; *Enum. Lich.* p. 94. — *Biatora aurata* Mont. = In Oceania (ins. Java).

199. **B. imbricatus** Hook., *Nyl. Syn.* I, p. 181, ubi definitur; *Enum. Lich.* p. 94. = In montibus Americæ tropicæ (Peruvia, *Lich. exot.* p. 209; Bolivia, *Lich. And. Boliv.* p. 370; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 47 et ed. 2<sup>a</sup> p. 8).

— Var. **glaucescens** Nyl. *Prodr. Fl. N. Gran.*, locis citat. = In America tropica (Nova Granata).

200. **B. erythrellus** Nyl. *Syn.* I, p. 181 et *Lich. exot.* p. 209, ubi definitur; *Enum. Lich.* p. 94. — *Biatora erythrella* Mont. = In insulis Americæ tropicæ (Martinica et Guadalupa, *Lich. Antill.* p. 5, ubi apothecia definiuntur).

201. **B. pachypus** Nyl. *Syn.* I, p. 182, ubi definitur; *Enum. Lich.* p. 94. = In Asia (India).

202. **B. trachypus** Nyl. *Syn.* I, p. 182, ubi definitur; *Enum. Lich.* p. 94. = In Oceania (Borneo).

203. **B. icmadophilus** Nyl. *Syn.* I, p. 183, tab. VI, fig. 7-10 et tab. VII, fig. 2, ubi definitur; *Enum. Lich.* 94. — *Lichen icmadophilus* Ehrh. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Konyambay, *Lich. Fr. Behr.* p. 18) et meridionali (Nepal). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61).

204. **B. squamarioides** Nyl. *Syn.* I, p. 184, tab. VI, fig. 22-23 et apud Hook. *Fl. Tasm.* II, p. 351, ubi definitur; *Enum. Lich.* p. 94. — In Oceania (Tasmania).

#### Gen. XXX. — GLOSSODIUM Nyl.

Hoc genus pertinet ad Bæomyceetos, æque ac sequens, Nyl. *Lich. Algér.* p. 309.

205. **G. aversum** Nyl. *Syn.* I, p. 184, tab. VI, fig. 5, ubi definitur; *Enum. Lich.* p. 94. — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 8).

#### Gen. XXXI. — THYSANOTHECIUM Berk. et Mont.

206. **T. Hookeri** Berk. et Mont., *Nyl. Syn.* I, p. 185, tab. VI, fig. 1-4, ubi definitur; *Enum. Lich.* p. 94. = In Oceania (Australia).

207. **T. hyalinum** Nyl. *Syn.* I, p. 186, ubi definitur; *Enum. Lich.* p. 94. — *Bæomyces hyalinus* Tayl. = In eadem regione.

#### TRIB. XI. — SIPHULEI.

##### Gen. XXXII. — SIPHULA Fr.

208. **S. ceratites** Nyl. *Syn.* I, p. 262, ubi definitur; *Enum. Lich.* p. 97. — *Bæomyces ceratites* Wahl. = In Asia boreali (Lawrencebay et Lawrence ins., *Lich. Fr. Behr.* pp. 6, 43 et 48) et meridionali (mont. Himalaya). — In America arctica. — Etiam in Europa boreali.

209. **S. simplex** Nyl. *Syn.* I, p. 262, ubi definitur; *Enum. Lich.* p. 97. — *Dufourea simplex* Tayl. = In America boreali.

210. **S. pteruloides** Nyl. *Lich. exot.* p. 211 et *Syn.* I, p. 262, ubi definitur; *Enum. Lich.* p. 97. = In America tropica (Peruvia).



211. **Siphula ramalinoides** Nyl. *Lich. Fueg.* p. 20 et apud Cromb. *Falkl. isl.* p. 226, ubi definitur. = In America australi (Porto Bueno).

— Var. **comata** Nyl. *Lich. Fueg.* et apud Cromb. *Falk. isl.*, locis citat. = In America australi (Maine Harbour).

212. **S. tabularis** Nyl. *Syn.* I, p. 263, ubi definitur; *Enum. Lich.* p. 98. — *Lichen tabularis* Thunb.; *Stereocaulontabulare* Ach. = In Africa meridionali (Promont. Bonæ Spei).

213. **S. subtabularis** Nyl. *Lich. Fueg.* p. 3, ubi definitur. Thallus  $K^+$ . = In America australi (Staten island).

214. **S. torulosa** Nyl. *Syn.* I, p. 263, tab. I, fig. 2, ubi definitur; *Enum. Lich.* p. 98. — *Lichen torulosus* Thunb. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 232) et meridionali (Promont. Bonæ Spei). — In Oceania (ins. Sandwich, *Lich. exot.* p. 236, ubi definitur pr. p.).

215. **S. fastigiata** Nyl. *Prodr. N. Gran.* ed. 1<sup>a</sup> p. 49 et ed. 2<sup>a</sup> p. 42; *Enum. Lich.* p. 98. *S. torulosa* var. *fastigiata* Nyl. *Syn.* I, p. 263, ubi definitur et *Lich. And. Boliv.* p. 371. = In America tropica (Nova Granata; Bolivia).

216. **S. coriacea** Nyl. *Syn.* I, p. 263, ubi definitur; *Enum. Lich.* p. 98. Thallus  $K^-$ . — *Cenomyce coriacea* Tayl. = In Oceania (Australia).

217. **S. decumbens** Nyl. *Lich. N. Zeland.* 1888, p. 44, ubi definitur. Thallus  $K$  flavet. = In Oceania (Nova Zelandia).

218. \* **S. dissoluta** Nyl. *Lich. N. Zeland.* 1888, p. 44, ubi definitur. = In Oceania (Nova Zelandia).

219. **S. medioxima** Nyl. *Lich. N. Zeland.* 1888, p. 45, ubi definitur. Thallus  $K$  flavet. = In Oceania (Nova Zelandia).

220. **S. roccellæformis** Nyl. *Lich. N. Zeland.* 1888, p. 45, ubi definitur. Thallus  $K$  obscure violacee tingitur. — *Cladonia roccellæformis* Leight. = In Oceania (Nova Zelandia).

221. **S. dactyliza** Nyl. *Flora* 1885, p. 442 et *Lich. Fr. Behr.* p. 48, ubi definitur. = In Asia boreali (Lawrence ins.).

#### Gen. XXXIII. — THAMNOLIA Ach.

222. **T. vermicularis** Ach., Nyl. *Syn.* I, p. 264, tab. VIII, fig. 6, ubi definitur; *Enum. Lich.* p. 98. = In tota zona arctica. In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 6, 49, 43 et 48; Sibiria, *Lich. Middend.* p. 4). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61), tropica (in montibus editissimis, Andibus Quitoensibus et Cotopaxi, *Lich. exot.* p. 211; Nova Granata, *Prodr. Fl. N. Gran.*, ed. 1<sup>a</sup> p. 49 et ed. 2<sup>a</sup> p. 43; Bolivia, *Lich. And. Boliv.* p. 371) et australi (Fuegia, *Lich. Fueg.* p. 24; Freto Magellanico, *Lich. exot.* p. 262). — In Oceania (Australia; Nova Zelandia (*Lich. N. Zeland.* 1861, p. 245 et 1888, p. 45)). — Etiam in Europa.

223. **T. elegans** Nyl. *Syn.* I, p. 265 et *Lich. exot.* p. 211 in notula, ubi definitur; *Enum. Lich.* p. 98. — *Cenomyce elegans* Del. = In Museo parisiensi absque loco et in America tropica (ins. Dominica).

224. **T. undulata** Nyl. *Syn.* I, p. 265, ubi definitur. *T. andicola* Nyl. *Lich. exot.* p. 211, ubi definitur in notula; *Enum. Lich.* p. 98. — *Cenomyce andicola* Del. = In America australi (ins. Maclovianis, *Lich. exot.* p. 262).

#### Gen. XXXIV. — ENDOCENA Cromb.

225. **E. informis** Cromb., Nyl. *Lich. Fueg.* p. 20 et apud Cromb. *Falkl. isl.* p. 226, ubi definitur. = In America australi (Port Grappler).

## TRIB. XII. — STEREOCAULEI.

## Gen. XXXV. — STEREOCLADIUM Nyl.

226. **S. Wrightii** Nyl. *Lich. Fr. Behr.* p. 85. — *Stereocaulon Wrightii* Tuck. *Supplem.* p. 202 (1858). Idem videtur ac *Stereocaulon apocalypticum* Nyl. *Lich. Middend.* p. 4 (1866), ubi definitur, ideoque nomen a cl. Tuckerman prioritate gaudet et solum adhibendum est. = In Asia boreali (Sibiria; insulis Freti Behringii ex Tuckerman; Konyambay, *Lich. Fr. Behr.* pp. 18, 27 et 73; in posteriore loco denuo definitur).

## Gen. XXXVI. — STEREOCAULON Schreb.

## Sectio A. — CORYNOPHORON Nyl.

227. **S. Colensoi** Bab., Nyl. *Syn.* I, p. 232, tab. VII, fig. 8, ubi definitur. Thallus K —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 15).

## Sectio B. — LECANOCAULON Nyl.

228. **S. lecanoreum** Nyl. *Flora* 1858, p. 117, *Syn.* I, p. 233, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 10, ubi definitur et ed. 1<sup>a</sup> p. 18; *Enumer. Lich.* p. 96. = In America tropica (Nova Granata).

229. **S. Salazinum** Bory, Nyl. *Syn.* I, p. 233, tab. VII, fig. 7, et *Lich. exot.* p. 250, ubi definitur; *Enum. Lich.* p. 96. = In Africa orientali (ins. Mauritii et Borbonia).

230. **S. pityrizans** Nyl. *Syn.* I, p. 234 et *Lich. exot.* p. 209, ubi definitur. = In America tropica (Peruvia).

## Sectio C. — APOTHECIA BIATORINA.

231. **S. sphærophoroides** Nyl. *Syn.* I, p. 234, tab. VII, fig. 9, ubi definitur; *Lich. Madère* p. 188, = In Africa occidentali (ins. Madera; ins. Fortunatis, Teneriffa, etc.).

232. **S. ramulosum** Ach. pr. p., Nyl. *Syn.* I, p. 235 et tab. VIII, fig. 10, ubi definitur; *Enum. Lich.* p. 96, ubi perperam indicatur vigens in Africa. = In America a Mexico usque ad fretum Magellanicum (Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 10, ubi definitur pr. p. et ed. 1<sup>a</sup> p. 18; Peruvia, *Lich. exot.* p. 219; Bolivia, *Lich. And. Boliv.* p. 370; Brasilia; Chili, *Addit. Fl. chil.* p. 177; Fuegia, *Lich. Fueg.* p. 3). — In Oceania (ins. Campbellianis, *Lich. Campb.* p. 88; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245 et 1888, p. 16).

— F. 1. **compressum** Nyl. *Syn.* I, p. 236. = In America tropica.

— F. 2. **vimineum** Nyl. *Syn.* I, p. 235, ubi definitur. *S. vimineum* Th. Fr. = In America tropica (Mexico; Bolivia, *Lich. exot.* p. 209).

— Var. **implexum** Nyl. *Syn.* I, p. 235, tab. VII, fig. 11 et *Flora* 1858, p. 117, ubi definitur; *Enum. Lich.* p. 96, *S. implexum* Th. Fr. = In America meridionali (Chili, *Addit. Fl. chil.* p. 149).

233. \* **S. submollescens** Nyl. *Lich. Campb.* p. 88 et *Lich. N. Zeland.* 1888, p. 16, ubi definitur. = In Oceania (ins. Campbellianis).

234. \*\* **S. macrocarpum** Rich., Nyl. *Lich. Campb.* p. 88. *St. ramulosum* var. *macrocarpum* Bab., Nyl. *Syn.* I, p. 236, ubi definitur; *Enum. Lich.* p. 96. = Fere æque distributum ac *S. ramulosum*. In America tropica (Peruvia, *Lich. exot.* p. 209; Bolivia, *Lich. And. Boliv.* p. 370; Fuegia, *Lich. Fueg.* p. 24). — In Oceania (ins. Campbellianis, Aucklandis, Nova Zelandia et Tasmania).

— F. **compressum** Bab., Nyl. *Syn.* I, p. 238, ubi definitur. = In Oceania (Nova Zelandia).

235. \*\*\* **Stereocaulon claviceps** Th. Fr., Nyl. *Syn.* I, p. 236, tab. VII, fig. 12, ubi definitur. = In America tropica (Mexico; Peruvia, *Lich. exot.* p. 209).

236. **S. argodes** Nyl. *Lich. N. Zeland.* 1888, p. 16 et *Lich. Campb.* p. 88, ubi definitur. *S. Argus* Hook. et Tayl. pr. p., Nyl. *Addit. Fl. chil.* p. 149, ubi definitur. = In America meridionali (Chili). — In Oceania (ins. Campbell).

237. **S. proximum** Nyl. *Syn.* I, p. 237, tab. VII, fig. 14 et *Lich. exot.* p. 210, ubi definitur. Arn. *Exsicc.* 1209. = In Africa orientali (ins. Comoris) et australi (ins. Amstelodamo, *Lich. S. Pauli* p. 7 et *Flora* 1886, p. 322). = In America tropica (Mexico; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> pp. 10 et 130; Peruvia; Bolivia, *Lich. And. Boliv.* p. 371). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 16).

— **F. solediatum** Nyl. *Syn.* I, p. 237 et *Lich. exot.* p. 216. = In America tropica (Peruvia et Bolivia).

— Var. **compressum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 10; *Syn.* I, p. 237. = In America tropica (Nova Granata).

238. \* **S. exalbidum** Nyl. *Syn.* I, p. 237 et *Lich. exot.* p. 210, ubi definitur; *Enum. Lich.* p. 96. = In America tropica (Peruvia).

239. \*\* **S. macrocarpoides** Nyl. *Syn.* I, p. 238, ubi definitur. *S. paschale* var. *macrocarpum* Nyl. *Enum. Lich.* p. 97, Nyl. in litt. = In America meridionali (Bolivia, *Lich. And. Boliv.* p. 371; Chili). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245 et 1888, p. 16; Tasmania).

240. **S. mixtum** Nyl. *Syn.* I, p. 238, ubi definitur. — *Lichen ramulosus* Sw., Nyl. *Lich. And. Boliv.* p. 370 in notula. = In America tropica (Mexico; Brasilia, *Flora* 1869, p. 117; Bolivia, *Lich. exot.* p. 210, ubi etiam definitur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 10, ubi cephalodia definiuntur et ed. 1<sup>a</sup> p. 18). — In Oceania (ins. Sandwich, *Lich. exot.* p. 236; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245 et 1888, p. 16).

— Var. **solediatum** Nyl. *Syn.* I, p. 239. — In America tropica (Mexico).

Aliæ ejus variationes sistunt: 1<sup>o</sup> *S. denudatum* Pers., *S. nudum* Del.; 2<sup>o</sup> *S. roccelloidem* Th. Fr.; quod aliquo casu, forte aqua marina, tinctum fuit, *S. rubiginosum* Pers. evadit: Nyl. *Syn.* I, p. 238. Illæ varietates ex ins. Sandwich proveniunt.

241. \* **S. assimile** Nyl. *Syn.* I, p. 239 et *Lich. exot.* p. 251, ubi definitur. = In Africa orientali (ins. Borbonia).

242. \*\*\* **S. strictum** Nyl. *Syn.* I, p. 239, tab. VII, fig. 13, ubi definitur. *S. piluliferum* Th. Fr., Nyl. *Flora* 1858, p. 117 et *Enum. Lich.* p. 96. = In Asia meridionali (India).

243. \*\*\* **S. nesæum** Nyl. *Syn.* I, p. 240, tab. VII, fig. 15 et *Lich. exot.* p. 236, ubi definitur. = In Oceania (ins. Java, *Flora* 1866, p. 130; ins. Philippinis; ins. Polynesia; ins. Sandwich).

244. **S. foliosum** Nyl. *Syn.* I, p. 240, ubi definitur. = In Asia (mont. Himalaya).

245. **S. corticatulum** Nyl. *Flora* 1858, p. 117, *Syn.* I, p. 240 et *Lich. N. Zeland.* 1888, p. 15, ubi definitur; *Enum. Lich.* p. 97. Thallus K flavet. = In Oceania (Nova Zelandia, *Flora* 1865, p. 337; *Lich. N. Zeland.* 1861, p. 245 et 1888, p. 15).

246. \* **S. detergens** Nyl. *Lich. N. Zeland.* 1888, p. 16, ubi definitur. = In Oceania (Nova Zelandia).

247. **S. coralloides** Fr., Nyl. *Syn.* I, p. 241, tab. VII, fig. 16, ubi definitur; *Enum. Lich.* p. 96. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 18) et meridionali (Himalaya). — In America arctica usque ad Novam Angliam; Terra Nova, *S. intricatum* Del. — Etiam in Europa.

248. **S. paschale** Ach., Nyl. *Syn.* I, p. 242, tab. VII, fig. 18-28, ubi definitur; *Enum. Lich.* p. 96. — *Lichen paschalis* L. = In Asia boreali (Sibiria, *Lich. Middend.* p. 1) et meridionali (Himalaya). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 85; Terra Nova; Nova Anglia). — Etiam in Europa.



249. **Stereocaulon cymosum** Cromb., Nyl. apud Cromb. *Kerguel. Land* p. 182 et *Kerguel. Revis.* p. 2, ubi definitur. = In Africa antarctica (ins. Kerguelen).

250. **S. tomentosum** Fr., Nyl. *Syn.* I, p. 243 et *Addit. Fl. chil.* p. 148, ubi definitur; *Enum. Lich.* p. 97. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 6) et meridionali (Himalaya). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61), tropica (Peruvia, *Lich. exot.* p. 210) et australi (Fuegia, *Lich. Fueg.* p. 24; Freto Magellanico). — Etiam in Europa.

*S. azoreum* Schær., Nyl. *Enum. Lich.* p. 97 et *Flora* 1858, p. 117, pertinet, ex dictis in *Prodr. Lich. Gall.* p. 42, ad *S. tomentosum*.

251. \*\* **S. alpestre** Flot., Th. Fr.; *S. tomentosum* var. *alpestre* Nyl. *Syn.* I, p. 244, ubi definitur. *S. myriocarpum* Th. Fr., Nyl. *Syn.* I, p. 244, ubi definitur; *Enum. Lich.* p. 97. = In Asia boreali (Sibiria, *Lich. Middend.* pp. 1 et 4). — In America tropica (Mexico, et huc poni debet *S. alpinum* Nyl. *Mexic. Plant.* p. 1 ex Nyl. *in litt.*; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 19 et ed. 2<sup>a</sup> p. 12; Columbia, *Flora* 1858, p. 117; Peruvia, *Lich. exot.* p. 210). — Etiam in Europa.

252. \*\*\* **S. magellanicum** Th. Fr., Nyl. *Lich. Fueg.* p. 24. *S. paschale* Ach., Nyl. *Addit. Fl. chil.* p. 149, ubi definitur et *S. paschale* var. *magellanicum* Nyl. *Syn.* I, p. 243, ubi definitur; *Enum. Lich.* p. 96. = In America australi (Chili, Fuegia et Freto Magellanico).

253. **S. alpinum** Laur.; *S. tomentosum* var. *alpinum* Nyl. *Syn.* I, p. 244, ubi definitur; *Enum. Lich.* p. 97. = Viget præsertim in zona summe arctica. In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 6, 18, 43, 48 et 53). — Etiam in Europa (Alpibus Scandinaviæ).

254. **S. myriocarpoides** Nyl. *Syn.* I, p. 245, ubi definitur. = In Asia (Himalaya). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* edit. 2<sup>a</sup> p. 130).

255. **S. furcatum** Fr., Nyl. *Syn.* I, p. 245, tab. VII, fig. 28, ubi definitur. *S. ramulosum* var. *furcatum* Nyl. *Enum. Lich.* p. 96. = In America tropica (ins. Guadalupa et Martinica, *Lich. Antill.* p. 5; Jamaïca et Dominica).

256. **S. japonicum** Th. Fr., Nyl. *Syn.* I, p. 246, ubi definitur; *Flora* 1858, p. 177. *S. coralloides* var. *japonicum* Nyl. *Enum. Lich.* p. 96. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 66 et in China).

257. **S. denudatum** Floerke, Nyl. *Syn.* I, p. 247, tab. VII, fig. 29, ubi definitur; *Enum. Lich.* p. 97. = Frequens est in tota zona arctica. In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 6). — In Africa occidentali (Guinea, *Flora* 1862, p. 475, 1863, p. 265 et *Lich. ins. Guin.* p. 43). — In America boreali (Terra Nova, etc.) et tropica (in Andibus, *Flora* 1874, p. 74). — Etiam in Europa.

— Var. 1. **vesuvianum** Pers., Nyl. *Syn.* loc. citat. tab. VII, fig. 30 et *Addit. Fl. chil.* p. 149, ubi definitur; *Enum. Lich.* loc. citat. = In Africa occidentali (Teneriffa). — Etiam in Europa (Italia et Græcia).

— Var. 2. **Vulcani** Nyl. *Syn.* I, p. 248, ubi definitur; *S. Vulcani* Nyl. *Lich. exot.* p. 251, ubi etiam definitur; *Enum. Lich.* p. 97 et *Flora* 1858, p. 117. — *Lichen Vulcani* Bor. = In Africa orientali (ins. Borbonia).

258. \* **S. pulvinatum** Nyl. *Lich. Fr. Behr.* pp. 6 et 18. *S. denudatum* var. *pulvinatum* Schær., Nyl. *Syn.* I, p. 247, ubi definitur. = In Asia boreali (Lawrencebay et Konyambay). — Etiam in Europa arctica.

259. **S. verruciferum** Nyl. *Syn.* I, p. 248, ubi definitur; *Enum. Lich.* p. 97. = In America tropica (Columbia et alibi ex herb. Musei parisiensis).

260. **S. turgescens** Nyl. *Syn.* I, p. 248, ubi definitur. *S. graminosum* Schær., Nyl. *Enum. Lich.* p. 97. = In Africa occidentali (Guinea, *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 43). — In Oceania (ins. Java, *Flora* 1866, p. 130).

261. **Stereocaulon Depreaultii** Del., *Nyl. Syn.* I, p. 249, ubi definitur = In America arctica (Terra Nova).

— **F. corallinum** *Nyl. Syn.* I, p. 249, ubi definitur. *S. corallinum* Bab. — In Africa australi (ins. Kerguelen).

262. **S. condensatum** Hoffm., *Nyl. Syn.* I, p. 249, tab. VII, fig. 31 et *Lich. exot.* p. 251 in notula, ubi definitur; *Enum. Lich.* p. 97. = In America boreali (Nova Anglia). — In Oceania (ins. Java). — Etiam in Europa.

263. \* **S. cereolinum** Ach., *Nyl. Syn.* I, p. 250, ubi definitur; *Enum. Lich.* p. 97. = In America boreali. — Etiam in Europa.

264. **S. leptaleum** *Nyl. Syn.* I, p. 251, ubi definitur. = In Oceania (Tasmania).

265. **S. nanodes** Tuck., *Nyl. Syn.* I, p. 251, ubi definitur. = In America boreali.

266. **S. congestum** *Nyl. Syn.* I, p. 252 et *Lich. exot.* p. 210, ubi definitur; *Enum. Lich.* p. 97; *Flora* 1874, p. 71. = In America tropica (in Andibus).

267. **S. gracilescens** *Nyl. Syn.* et *Lich. exot.* locis citat., ubi definitur; *Enum. Lich.* p. 97. = In America tropica (Peruvia).

268. **S. albicans** Th. Fr. pr. p., *Nyl. Syn.* et *Lich. exot.* locis citat., ubi definitur; *Enum. Lich.* p. 97. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1 p. 49 et ed. 2<sup>a</sup> p. 12; Peruvia). Est *Leprocaulon* ex *Nyl.* in litt. Thallus K —.

Gen. XXXVII. — ARGOPSIS Th. Fr.

269. **A. megalospora** Th. Fr., *Nyl. Syn.* I, p. 254 et tab. VII, fig. 32, *Lich. Campb.* p. 88 et *Lich. N. Zeland.* 1883, p. 17, ubi definitur; *Enum. Lich.* p. 97. = In Oceania (ins. Campbell).

TRIB. XIII. — PILOPHOREI *Nyl. Lich. Fueg.* p. 31.

Gen. XXXVIII. — PILOPHORON Tuck.

270. **P. polycarpum** Tuck., *Nyl. Lich. Fr. Behr.* p. 60; *Enum. Lich. Supplém.* p. 334. *P. robustum* *Nyl. Syn.* I, p. 228, tab. VII, fig. 4, ubi definitur; *Enum. Lich.* p. 96. *Pilophorus robustus* Th. Fr., *Nyl. Flora* 1860, p. 44 in notula. = In regione arctica. In Asia boreali (ins. Freti Behringii). — In America boreali (Port-Clarence). — Etiam in Europa boreali.

271. **P. aciculare** Tuck., *Nyl. Syn.* I, p. 229, tab. VII, fig. 5, ubi definitur; *Enum. Lich.* p. 96. — *Cenomyce acicularis* Ach. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 27). — In Africa meridionali (Promont. Bonæ Spei). — In America arctica ad oram occidentalem, et septentrionali (Pennsylvania). — In Oceania (Australia).

272. **P. Fibula** Tuck., *Nyl. Syn.* I, p. 229, tab. VII, fig. 6, ubi definitur; *Enum. Lich.* p. 96. = In America septentrionali.

TRIB. XIV. — CLADONIEI *Nyl.*

Gen. XXXIX. — CLADONIA HOFFM.

Sectio A. — PHEOCARPE.

a. — *Species quarum podetia sunt scyphophora.*

273. **C. endiviæfolia** Fr., *Nyl. Syn.* I, p. 189, ubi definitur; *Enum. Lich.* p. 94. = In Asia versus Mare Mediterraneum. — In Africa boreali (Algeria, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 36). — Etiam in Europa.

274. **Cladonia alcicornis** Floerke, Nyl. *Syn.* I, p. 490, ubi definitur; *Enum. Lich.* p. 94. = In Africa boreali (Algeria, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 36) et occidentali (ins. Canariis). — In America boreali. — Etiam in Europa.

— Var. **firma** Nyl. *Syn.* I, p. 491, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

275. **C. ceratophylla** Eschw., Nyl. *Syn.* I, p. 491, ubi definitur; *Enum. Lich.* p. 94. — *Lichen ceratophyllus* Sw. = In Asia meridionali (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249) et australi (ins. Tristan d'Acunha). — In America tropica (Mexico; India occidentali; Venezuela; Bolivia et Peruvia, *Lich. exot.* p. 209).

276. **C. verticillaris** Mont., Nyl. *Syn.* I, p. 491, ubi definitur. *Enum. Lich.* p. 94. — *Cenomyce verticillaris* Raddi. = In America septentrionali (Carolina), tropica (India occidentali) et meridionali (Brasilia).

— Var. **Dilleniana** Nyl. *Syn.* I, p. 492, ubi definitur. *C. Dilleniana* Floerke. = In America tropica.

277. **C. calycantha** Del., Nyl. *Syn.* I, p. 492, ubi definitur; *Enumer. Lich.* p. 94. = In America tropica (Peruvia, *Flora* 1855, p. 673, et *Lich. exot.* p. 209; Bolivia, *Lich. And. Boliv.* p. 370).

278. **C. pyxidata** Fr., Nyl. *Syn.* I, p. 492, ubi definitur; *Enum. Lich.* p. 94. = Cosmopolita; in Asia boreali (Sibiria, *Lich. Middend.* p. 4; Behring ins., *Lich. Fr. Behr.* p. 53). — In Africa boreali (Algeria, *Lich. Algér.* p. 309). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 17; archipel. Mendana, *Lich. îles Marq.* p. 301 et *Lich. exot.* p. 236; ins. Campbell, *Lich. Campb.* p. 88). Rarescit in zona calida, ubi in montibus elevatioribus crescit, v. g. in Peruvia, *Lich. exot.* p. 209; Chili, *Addit. Fl. chil.* p. 177 et *Flora* 1855, p. 673. — Etiam in Europa.

— F. 1. **staphylea** Ach., Nyl. *Lich. Scand.* p. 50, ubi definitur; *Syn.*, p. 493. = In Oceania (ins. Java, *Flora* 1866, p. 129). — Etiam in Europa.

— F. 2. **chlorophæa** Floerke, Nyl. *Syn.* loc. cit., ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 48). — In America australi (Fuegia, *Lich. Fueg.* p. 3). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 17). — Etiam in Europa.

— Var. 1. **Pocillum** Nyl. *Syn.* I, loc. cit. ubi definitur; *Enum. Lich.* p. 94. — *Bæomyces Pocillum* Ach. = In Asia boreali (Konyambay et Behring ins., *Lich. Fr. Behr.* pp. 48 et 53. — In Africa boreali (Algeria, *Lich. Algér.* p. 309). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61) et tropica (Mexico, *Flora* 1858, p. 378). — Etiam in Europa.

— F. **cervina** Nyl. *Lich. Fr. Behr.* p. 61 = In America boreali (Port-Clarence).

279. \* **C. costata** Floerke, Nyl. *Lich. Fueg.* p. 24 = In America australi. — Etiam in Europa.

280. **C. pityrea** Floerke, Ach., Nyl. *Lich. Scand.* p. 50, ubi definitur. = In America meridionali (Chili, *Addit. Fl. chil.* p. 147, *C. degenerans* var. *pityrea* Floerke, quæ definitur). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 18). — Etiam in Europa.

— F. 1. **carneo-pallescens** Nyl. *Flora* 1866, p. 129, ubi definitur. = In Oceania (ins. Java).

— F. 2. **hololepis** Floerke, Nyl. *Lich. N. Zeland.* 1888, p. 18. = In Oceania (Nova Zelandia). — Etiam in Europa.

281. **C. decorticata** Floerke, Nyl. *Flora* 1873, p. 299 et 1875, p. 447; *Enum. Lich.* pp. 94 et 95). = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 66). — Etiam in Europa.

282. **C. corymbosula** Nyl. *Flora* 1876, p. 560, ubi definitur. Thallus K —. = In America tropica (ins. Cuba).

283. **C. Balfourii** Cromb., Nyl. apud Cromb. *Ins. Rodrig.* p. 433 ubi definitur. Thallus K —, sed squamæ thalli K + flavent. = In Africa orientali (ins. Rodriguesii).



284. **Cladonia cariosa** Floerke, Nyl. *Syn.* I, 194, ubi definitur; *C. pyxidata* var. *cariosa* Nyl. *Enum. Lich.* p. 94. Thallus K +. = In plurimis terris a Lapponia in Tasmaniam, vix vero in terris calidis. — (In Oceania (Archipel. Mendana, *Lich. îles Marquis.* p. 301 et *Lich. exot.* p. 236).

285. **C. subcariosa** Nyl. *Flora* 1876, p. 560, ubi definitur. = In America tropica (ins. Cuba).

286. **C. enantia** Nyl. *Lich. N. Zeland.* 1888, p. 48, ubi definitur. Thallus K —. = In Oceania (Nova Zelandia).

287. **C. fimbriata** Hoffm., Nyl. *Syn.* I, p. 194, ubi definitur; *Enum. Lich.* p. 94. = Cosmopolita et copiosior ubique quam *C. pyxidata* Fr. — In Asia boreali (Sibiria, *Lich. Middend.* p. 1). — In Africa boreali (Algeria, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 37), orientali (ins. Borbonia, *Lich. exot.* p. 249; ins. S. Pauli, *Flora* 1886, p. 349) et occidentali (Guinea, *Flora* 1863, p. 265). — In America tropica (Mexico, *Flora* 1858, p. 378; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 9; Peruvia et Bolivia, *Lich. exot.* p. 209 et *Lich. And. Boliv.* p. 370; Brasilia, *Flora* 1869, p. 117) et australi (Fuegia, *Lich. Fueg.* p. 24). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 17). — Etiam in Europa.

— F. 1. **tubæformis** Hoffm., Nyl. *Syn.* I, p. 195, ubi definitur. = In Asia, Africa, America (Mexico, *Mexic. Plant.* p. 1). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 17). — Etiam in Europa.

— F. 2. **conista** Ach., Nyl. *Syn.* loc. cit., ubi definitur. = In America tropica (Bolivia, *Lich. And. Boliv.* p. 370). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 17). — Etiam in Europa.

— F. 3. **ustulata** Nyl. *Syn.* I, p. 196. — *Cenomyce ustulata* Tayl. — In America australi (ins. Maclovianis).

— F. 4. **abortiva** Nyl. *Lich. Middend.* p. 1. — *Cenomyce fimbriata* var. *abortiva* Ach. — In Asia boreali (Sibiria). — Etiam in Europa.

— Var. 1. **subcornuta** Nyl. *Flora* 1874, p. 318. — *Cenomyce cornuta* Ach. = In Oceania (ins. Campbell, *Lich. Campb.* p. 88). — Etiam in Europa.

— Var. 2. **radiata** Fr., Nyl. *Syn.* I, p. 196, ubi definitur; *Enum. Lich.* p. 94. = In Asia (mont. Himalaya). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249). — In America. — In Oceania (Nova Zelandia). — Etiam in Europa.

288. **C. ochrochlora** Floerke, Nyl. *Exposit. Lich. N. Caled.* p. 40. *C. cornuta* var. *ochrochlora* Nyl. *Syn.* I, p. 198, ubi definitur. — In America tropica (Nova Granata, ubi viget forma peculiaris in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 9 definita). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 17). — Etiam in Europa.

— F. **coniocræa** Nyl. *Exposit. Lich. N. Caled.* p. 40 ubi legitur : « *coniocræa* Del. sistere *ochrochloram* Floerke gracilentem vel minus evolutam, descendentem a *fimbriata* fere omnino ut *cornuta* a *gracili* ». *C. fimbriata* var. *coniocræa* Nyl. *Syn.* I, p. 195, ubi definitur; *Enum. Lich.* p. 94. — *Cenomyce coniocræa* Del. = Frequens in omnibus terris calidis. — In Oceania (ins. Nukahiva et Taïti, *Lich. exot.* p. 236 et ibi indicatur « forma gracilentia peculiaris », quam respicere debet *C. gracilentia* Nyl. *Lich. îles Marquis.* p. 301, ubi datur ut species nova sine definitione, dein ducta ad *Cl. adpersam*, infra n° 316). — Etiam in Europa.

289. \* **C. Fibula** Ach., Nyl. *Lich. N. Zeland.* 1888, p. 48. *C. fimbriata* var. *Fibula* Nyl. *Lich. Scand.* p. 51, ubi definitur. = In America tropica (Guadalupa, *Lich. Antill.* p. 5). — In Oceania (Nova Zelandia). — Etiam in Europa.

290. \*\* **C. nemoxyyna** Ach., Nyl. *Lich. N. Zeland.* 1888, p. 48. *C. fimbriata* var. *nemoxyyna* Nyl. *Lich. Scand.* p. 51, ubi definitur. = In Oceania (Nova Zelandia). — Etiam in Europa.

291. **Cladonia acuta** Nyl. *Syn.* I, p. 196, ubi definitur in notula. — *Cenomyce acuta* Tayl. = In Oceania (Polynesia).
292. **C. carneo-pallida** Nyl. *Lich. Scand.* p. 51, ubi definitur; *C. fimbriata* var. *carneo-pallida* Nyl. *Syn.* I, p. 193, ubi definitur. = In Oceania (ins. Campbell, *Lich. Campb.* p. 88). — Etiam in Europa.
293. **C. gracilis** Hoffm., Nyl. *Syn.* I, p. 196 ubi definitur; *Enum. Lich.* p. 94; *Addit. Fl. chil.* p. 177. = Cosmopolita; insignis in terris arcticis et antarcticis Americæ. — In America meridionali (Chili). — Etiam in Europa.
- F. 1. **hybrida** Ach., Nyl. *Syn.* loc. cit., ubi definitur. = Æque distributa ac typus. — In Asia boreali (Sibiria, *Lich. Middend.* p. 1).
- F. 2. **elongata** Ach., Nyl. *Syn.* I, p. 196, ubi definitur. = In Asia boreali (Lawrencebay et Lawrence ins., *Lich. Fr. Behr.* pp. 6 et 43). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61). — Etiam in Europa.
- F. 3. **aspera** Floerke, Nyl. *Syn.* I, p. 197, ubi definitur, *Lich. exot.* p. 249. = In Africa orientali (ins. Borbonia), — Etiam in Europa.
- F. 4. **tenera** Nyl. *Addit. Fl. chil.* p. 148, ubi definitur. = In America meridionali (ins. Juan Fernandez).
- F. 5. **tripoda** Cromb., Nyl. apud Cromb. *Falkl. isl.* p. 224, ubi definitur. = In America australi (Patagonia, Island Harbour). — In insula Java viget varietas minor et albida, *C. degenerans* Mont. et v. d. Bosch.
294. \* **C. chordalis** Floerke, Nyl. *Lich. N. Zeland.* 1888, p. 18; *C. gracilis* f. *chordalis* Nyl. *Lich. Scand.* p. 52, ubi definitur. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 18 et 43). — In America australi (Fuegia, *Lich. Fueg.* p. 3). — In Oceania (Nova Zelandia). — Etiam in Europa.
- F. **soredians** Nyl. *Lich. N. Zeland.* 1888, loc. citat., ubi definitur. = In Oceania (Nova Zelandia).
295. **C. verticillata** Floerke, Nyl. *Syn.* I, p. 198, ubi definitur; *Flora* 1866, p. 421, thallus K —, ut in *C. gracili* et in omnibus ejus varietatibus. *C. gracilis* var. *verticillata* Nyl. *Enum. Lich.* p. 94. = In Asia usque in China et Japonia. — In Africa boreali (Algeria, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 37). — In America boreali, meridionali (Brasilia) et australi (Fuegia, *Lich. Fueg.* p. 3). — In Oceania (ins. Campbell, *Lich. Campb.* p. 88). — Etiam in Europa.
296. **C. sobolifera** Nyl. *Flora* 1866, p. 421. — *Cenomyce cladomorpha* var. *sobolifera* Del. Thallus K —. = In Asia boreali (Konymbay, *Lich. Fr. Behr.* p. 18). — Etiam in Europa.
297. **C. divulsa** Nyl. *Lich. Fr. Behr.* p. 53. *C. gracilis* var. *divulsa* Nyl. *Syn.* I, p. 197, ubi definitur. = Cum *C. gracili* viget, et v. g. in Asia boreali (Behring ins.) et meridionali (India); in Africa (ins. Borbonia).
298. **C. cornuta** Fr., Nyl. *Syn.* I, p. 198, ubi definitur; *Enum. Lich.* p. 95. Thallus K +. = In Asia boreali (Sibiria, *Lich. Middend.* p. 1, *C. gracilis* var. *cornuta*). — In America frigidiore (Chili, *Addit. Fl. chil.* p. 177). — In Oceania (ins. Nukahiva et Taïti, *Lich. exot.* p. 236, *C. coniocraea* Floerke, Nyl. *Enum. Lich.* p. 94). — Etiam in Europa.
- F. **gracilentior** Nyl. *Lich. Campb.* p. 88, ubi definitur. = In Oceania (ins. Campbell).
299. **C. cervicornis** Schær., Nyl. *Syn.* I, p. 197, ubi definitur; *Flora* 1866, p. 421, thallus K +; *C. gracilis* var. *cervicornis* Nyl. *Enum. Lich.* p. 94. = In Asia meridionali (India). — In Africa boreali (Algeria). — Etiam in Europa.
300. **C. ecmocyna** Ach., Nyl. *Lich. Middend.* p. 1 et *Lich. Fr. Behr.* p. 74. Thallus K +. = In Asia boreali (Sibiria). — Etiam in Europa.

— Var. **macroceras** Nyl. *Lich. Middend.* p. 4; *C. gracilis* var. *macroceras* Ach., Nyl. *Syn.* I, p. 196, ubi definitur. = In terris frigidis, in Asia (Sibiria), etc.

301. **Cladonia degenerans** Floerke, Nyl. *Syn.* I, p. 199, ubi definitur; *Enum. Lich.* p. 95. Thallus K —. = In Asia (Himalaya). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249). — In America tropica (Peruvia, *Lich. exot.* p. 209). — Etiam in Europa.

— F. 1. **ceratophyllina** Nyl. *Syn.* I, p. 200 et *Lich. exot.* p. 249, ubi definitur. = In Africa orientali (ins. Borbonia).

— F. 2. **aphylla** Nyl. *Syn.* et *Lich. exot.* locis citat., ubi definitur. = In eadem regione.

— F. 3. **ramosa** Nyl. *Lich. exot.* p. 249 et *Syn. Lich. N. Caledon.* p. 10, ubi definitur. In *Syn.* I, p. 200, sub var. *haplotea* Ach. jungitur. Thallus K —. = In Africa orientali (ins. Borbonia). — In Oceania (Nova Zelandia).

— F. 4. **gracilescens** Floerke, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 9. = In America tropica (Nova Granata). — Etiam in Europa.

— F. 5. **subgracilescens** Nyl. *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).

— Var. 1. **haplotea** Ach., Nyl. *Syn.* I, p. 200, ubi definitur. = In America boreali (Konyambay, *Lich. Fr. Behr.* p. 18). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 18). — Etiam in Europa.

— Var. 2. **euphorea** (Ach.) Nyl. *Syn.* loc. cit., ubi definitur. = In Oceania (Nova Zelandia, *Lich. Nov. Zeland.* 1861, p. 244, et 1888, p. 18). — Etiam in Europa.

— Var. 3. **anomœa** Ach., Nyl. *Syn.* loc. citat., ubi definitur. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 7). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 18). — Etiam in Europa.

— Var. 4. **pleolepis** Ach., Nyl. *Syn.* loc. citat., ubi definitur. = In Asia meridionali (India). — In America boreali. — Etiam in Europa.

— Var. 5. **trachyna** Ach., Nyl. *Lich. Scand.* p. 54, ubi definitur. = In Asia boreali (Lawrencebay, Konyambay, *Lich. Fr. Behr.* pp. 7 et 18). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61; Groenlandia, *Flora* 1862, p. 81) et tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 17 et ed. 2<sup>a</sup> p. 9). — In Oceania (ins. Java, *Flora* 1866, p. 129). — Etiam in Europa.

302. **C. lepidota** Nyl. *Flora* 1866, p. 421. *C. degenerans* var. *lepidota* Ach., Nyl. *Syn.* I, p. 200, ubi definitur. Thallus K flavet. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 43). — In America boreali et tropica (Mexico, *Mexic. Plant.* p. 4). — In Oceania (ins. Java, *Flora* 1866, p. 129; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 18). — Etiam in Europa boreali et alpina.

303. **C. conchata** Nyl. *Syn.* I, p. 200, ubi definitur; *Lich. And. Boliv.* p. 370; *Enum. Lich.* p. 95. = In America tropica (Bolivia). — In Oceania (Australia).

304. **C. stenophylla** Nyl. *Syn.* I, p. 201, ubi definitur. — In America tropica (ins. Cuba et in Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 9, ubi forma peculiaris definitur).

305. **C. carneola** Fr., Nyl. *Syn.* I, p. 201, ubi definitur; *Enum. Lich.* p. 95. = In America boreali et australi (Fuegia, *Lich. Fueg.* p. 24). — Etiam in Europa.

306. **C. cyanipes** Nyl. *Lich. Fr. Behr.* p. 61; *Enum. Lich.* p. 96. *C. carneola* var. *cyanipes* Nyl. *Syn.* I, p. 201, ubi definitur. — *Cenomyce carneo-pallida* var. *cyanipes* Sommerf. = In America boreali (Port-Clarence; Nova Anglia). — Etiam in Europa.

307. **C. dactylota** Tuck., Nyl. *Syn.* I, p. 202, ubi definitur. = In America tropica (ins. Cuba; Venezuela).

b. — *Species typice ascyphæ.*

308. **C. botrytes** Hoffm., Nyl. *Syn.* I, p. 202, ubi definitur; *Enum. Lich.* p. 95. = In America boreali. — Etiam in Europa.



390. **Cladonia mitrula** Tuck., Nyl. *Syn.* I, p. 203, ubi definitur; *Enum. Lich. Supplém.* p. 334. *C. imbricatula* Nyl. *Flora* 1858, p. 370, ubi definitur et *Enum. Lich.* p. 95. = In America septentrionali (Pennsylvania, Texas et Mexico).

310. **C. substraminea** Nyl. *Syn.* I, p. 204, ubi definitur. = In America boreali (Nova Anglia).

— Var. 1. **lepidota** Tuck., Nyl. *Syn.* I, loc. cit., ubi definitur; *C. athelia* var. *lepidota* Nyl. *Enum. Lich. Supplém.* p. 334; « *C. lepidota* Fr. » Tuck. = In America boreali (Nova Anglia).

— Var. 2. **brasiliensis** Nyl. *Flora* 1869, p. 447, ubi definitur. = In America tropica (Brasilia).

311. **C. athelia** Nyl. *Flora* 1858, p. 378 et *Syn.* I, p. 204, ubi definitur; *Enum. Lich.* p. 95. = In America tropica (Mexico; Jamaica).

— F. **macrophylliza** Nyl. *Lich. Antill.* p. 5. = In America tropica (Guadalupa).

312. **C. santensis** Tuck., Nyl. *Syn.* I, p. 204, ubi definitur; *C. athelia* var. *santensis* Nyl. *Enum. Lich. Supplém.* p. 334. = In America boreali (Nova Anglia et Carolina).

313. **C. mascarena** Nyl. *Lich. exot.* p. 250 et *Syn.* I, p. 189, ubi definitur; *Lich. Fueg.* p. 30. *C. papillaria* var. *mascarena* Nyl. *Enum. Lich.* p. 95. = In Africa orientali (ins. Borbonia).

314. **C. turgida** Hoffm., Nyl. *Syn.* I, p. 205, ubi definitur; *Enum. Lich.* p. 95. = In Asia (mont. Himalaya). — In America boreali. — Etiam in Europa.

— Var. **conspicua** Del., Nyl. *Syn.* loc. cit. et *Addit. Fl. chil.* p. 447, ubi definitur. = In America meridionali (Chili).

315. **C. furcata** Hoffm., Nyl. *Syn.* I, p. 205, tab. I, fig. 3, ubi definitur; *Enum. Lich.* p. 95. = Cosmopolita. In Asia (mont. Himalaya). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249). — In America. — In Oceania (Australia). — Etiam in Europa.

— F. 1. **spadicea** Ach., Nyl. *Lich. Scand.* p. 56, ubi definitur. — In Africa boreali (Algeria, *Lich. Algér.* p. 309). — Etiam in Europa.

— F. 2. **palamæa** Ach., Nyl. *Lich. Scand.* p. 56 et *Lich. Fr. Behr.* p. 48. = In Asia boreali (Konyambay). — Etiam in Europa.

— F. 3. **subulata** Fr., Nyl. *Addit. Fl. chil.* p. 477. = In America meridionali (Chili). — Etiam in Europa.

— F. 4. **grandescens** Nyl. *Lich. Fueg.* p. 24 in notula et apud Croumb. *Falkl. isl.* p. 224, ubi definitur. Thallus K —, ut in typo et ejus formis et varietatibus. = In America australi (Island Harbour).

316. \* **C. racemosa** Hoffm., Nyl. *Lich. Fueg.*, p. 24; *Cl. furcata* var. *racemosa* Floerke, Nyl. *Syn.* I, p. 206, ubi definitur, *Enum. Lich.* p. 93. = Æque distribuitur ac typus. — In America utraque (Mexico, *Flora* 1858, p. 378; Chili, *Addit. Fl. chil.* p. 477; Fuegia). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 49). — Etiam in Europa.

317. **C. adspersa** Floerke, Nyl. *Flora* 1875, p. 447. Thallus K —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 49). — Etiam in Europa.

318. **C. crispata** Nyl. *Syn.* I, p. 207, ubi definitur; *Enum. Lich.* p. 94. — *Boomyces turbinatus* var. *crispatus* Ach. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 64). — Etiam in Europa.

— F. 1. **cetrariæformis** Del., Nyl. *Lich. Fr. Behr.* p. 61. = In America boreali (in eodem loco). — Etiam in Europa.

— F. 2. **exalbida** Nyl. *Lich. exot.* p. 249 et *Syn.* I, p. 208, ubi definitur. = In Africa orientali (ins. Borbonia).

319. **C. subsubulata** Nyl. *Lich. Campb.* p. 88 et *Lich. N. Zeland.* 1888, p. 49, ubi definitur. = In Oceania (ins. Campbell).

320. *Cladonia endiviella* Nyl. *Flora* 1876, p. 560; thallus K —. = In America tropica (ins. Cuba).

321. *C. pungens* Nyl. *Flora* 1866, p. 421. *C. furcata* var. *pungens* Fr., Nyl. *Syn.* I, p. 207, ubi definitur; *Enum. Lich.* p. 95. — *Cenomyce pungens* Ach. — Thallus K +. = Forte adhuc latius in tellure distribuitur quam *C. furcata* Hoffm. — In Africa boreali (Algeria, *Lich. Algér.* p. 309), orientali (ins. Borbonia, *Lich. exot.* p. 249) et occidentali (ins. Madera, *Lich. Madère* p. 188). — Etiam in Europa.

322. *C. scabriuscula* Del., Nyl. *Flora* 1875, p. 447, thallus K obsolete flavescens. = In Oceania (ins. Campbell, *Lich. Campb.* p. 88, et *Lich. N. Zeland.* 1888, p. 19). — Etiam in Europa.

323. *C. Lamarkii* Nyl. *Flora* 1875, p. 447; *Lich. Fueg.* p. 24. — *Cenomyce Lamarkii* Del. — In America australi (Fuegia). — Etiam in Europa.

324. *C. acuminata* Nyl. *Syn.* I, p. 209; *Flora* 1875, p. 447. Thallus K +. *C. pityrea* var. *acuminata* Ach. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61) et tropica (Mexico, *Mexic. Plant.* p. 1, *C. pityrea* f. *acuminata* Flørke). — Etiam in Europa.

— *F. hebescens* Nyl. apud Cromb. *Challeng. Exped.* p. 214, ubi definitur. = In America septentrionali (ins. Bermudis).

325. *C. corymbescens* Nyl. *Syn. Lich. N. Caled.* p. 40, ubi definitur; *Flora* 1867, p. 194. *C. degenerans* var. *corymbescens* Nyl. *Exposit. Lich. N. Caled.* p. 40. Thallus K flavet. = In Oceania (Nova Caledonia).

326. *C. diplotypa* Nyl. *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 43, ubi definitur. = In Africa tropica (Guinea).

327. *C. stricta* Nyl. *Flora* 1869, p. 294, ubi definitur. *C. degenerans* var. *stricta* Nyl. *Lich. Middend.* p. 4, ubi etiam definitur. Thallus K + flavescit. = In Asia boreali (Siberia). — Etiam in Europa (Norvegia).

328. *C. cenotea* Schær., Nyl. *Syn.* I, p. 208, ubi definitur; *Enum. Lich.* p. 95. = In America boreali (Groenlandia, *Flora* 1862, p. 81; Port-Clarence, *Lich. Fr. Behr.* p. 61). — Etiam in Europa præsertim boreali.

— *F. furcellata* Fr., Nyl. *Syn.* I, p. 209, ubi definitur. *C. glauca* Flørke cum ea a cel. Fries jungitur. = In America.

329. *C. squamosa* Hoffm., Nyl. *Syn.* I, p. 209, tab. VI, fig. 29-30, ubi definitur; *Enum. Lich.* p. 95. *C. adpersa* Mont. Thallus K —. = Cosmopolita. — In Asia boreali (Lawrencebay et Konyambay, *Lich. Freti Behr.* pp. 7 et 18. — In Africa boreali (Algeria, *Lich. Algér.* p. 309). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61), tropica (Mexico *Flora* 1858, p. 378; Peruvia et Venezuela, *Lich. exot.* p. 209), meridionali (Chili, *Addit. Fl. chil.* p. 147, ubi definitur) et australi (Fuegia, *Lich. Fueg.* p. 24). — In Oceania (ins. Java, *Flora* 1866, p. 130; Taïti). — Etiam in Europa.

— *F. densata* Nyl. *Lich. N. Zeland.* 1888, p. 19. = In Oceania (Nova Zelandia).

— Var. *speciosa* Del., Nyl. *Lich. exot.* p. 236. = In Oceania (ins. Taïti). — Etiam in Europa.

330. *C. cæspititia* Flørke, Nyl. *Syn.* I, p. 210, tab. VI, fig. 27-28, ubi definitur; *C. squamosa* var. *cæspititia* Nyl. *Enum. Lich.* p. 95. Thallus K —. = In America boreali. — Etiam in Europa non boreali.

331. *C. delicata* Flørke, Nyl. *Syn.* I, p. 210, ubi definitur. *C. squamosa* var. *delicata* Nyl. *Enum. Lich.* p. 95. Thallus K + flavescit. = In America boreali et tropica (Brasilia). — Etiam in Europa non boreali.

332. *C. rigida* Tayl., Nyl. *Lich. Campb.* p. 88 et *Lich. N. Zeland.* 1888, p. 19, ubi definitur. Thallus K +, ut in præcedente, a qua parum distat. — In Oceania (ins. Campbell.).

333. **Cladonia subsquamosa** Nyl. *Lich. Fr. Behr.* p. 61 et apud Hue *Addend. Lichenogr. europ.* p. 29, thallus K +. = In America boreali (Port-Clarence). — Etiam in Europa.

— F. **nudior** Nyl. *Lich. Fueg.* p. 23, et apud Cromb. *Falkl. isl.* p. 224, ubi definitur. = In America antarctica (Port Otway).

334. **C. borbonica** Nyl. *Syn. Lich. N. Caled.* p. 9, ubi definitur. — *Cenomoyce borbonica* Del. Descendit a *C. squamosa* Hoffm., Nyl. *Exposit. Lich. N. Caled.* p. 40, nec a *C. fimbriata* Hoffm., sicut perperam indicatur in *Syn.* I, p. 196, in *Lich. exot.* p. 249 et in *Enum. Lich.* p. 94 in notula. Non differt ab hac specie *C. polyphylla* Mont., e Java, nec *Cenomoyce Boryana* Del. ex ins. Borbonia, nec *C. intermedia* Del. = In Africa orientali (ins. Borbonia). — In America tropica (Brasilia). — In Oceania (Nova Caledonia, *Flora* 1867, p. 194).

— F. **palmata** Bory, Del., Nyl. *Syn.* et *Lich. exot.* locis citat., parum a typo differt. = In Africa orientali (ins. Borbonia).

335. **C. pileata** Mont., Nyl. *Syn.* I, p. 225, *Lich. Fueg.* p. 4 in notula et *Enum. Lich.* p. 96, etiam in notula, ubi definitur. Est species phæocarpa subaffinis *C. borbonica* Del. = In America meridionali (Chili, *Lich. exot.* p. 262, ubi perperam cum *C. muscigena* Eschw. jungitur et *Addit. Fl. chil.* p. 177).

336. **C. pityrophylla** Nyl. *Flora* 1874, p. 70, ubi definitur. = In America tropica (Brasilia).

337. **C. melanodes** Nyl. *Lich. Fueg.* p. 25 in notula et apud Cromb. *Falkl. isl.* p. 225, ubi definitur. Granula podetiorum K + flavent. = In America australi (Island Harbour).

## Sectio B. — ERYTHROCARPÆ.

## a. — Species quarum podetia sunt scyphophora.

338. **C. sanguinea** Fløerke, Nyl. *Syn.* I, p. 219, ubi definitur; *Enum. Lich.* p. 95. = In America tropica (Brasilia).

— Var. **anæmica** Nyl. *Syn.* loc. cit., ubi definitur. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* edit. 2<sup>a</sup> p. 145 in notula, et in Brasilia).

339. **C. insignis** Nyl. *Lich. exot.* p. 250 et *Syn.* I, p. 219, ubi definitur; *Enum. Lich.* p. 95. = In Africa orientali (ins. Borbonia).

340. **C. cornucopioides** Fr., Nyl. *Syn.* I, p. 220, ubi definitur; *Enum. Lich.* p. 96. = Cosmopolita, fugiens terras calidiores et regiones calcareas. In Asia boreali (Sibiria, *Lich. Mülldend.* pp. 2 et 4; Lawrencebay et Lawrence ins. etc., *Lich. Fr. Behr.* pp. 7, 43 et 53). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61; meridionali Chili, *Addit. Fl. chil.* p. 177) et australi (Fuegia, *Lich. Fueg.* p. 25). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 20). — Etiam in Europa.

— F. 1. **angusta** Nyl. *Syn.* I, loc. citat., ubi definitur. = Occurrit passim cum typo.

— F. 2. **insignita** Nyl. in litt.; f. *insignis* Nyl. apud Cromb. *Falkl. isl.* p. 225, ubi definitur. = In America antarctica (freto Magellanico).

— Var. **pleurota** Fløerke, Nyl. *Syn.* I, p. 221, ubi definitur; *Enum. Lich.* p. 96. = In Asia boreali (Lawrence insula, *Lich. Fr. Behr.* p. 43. — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61), tropica (Bolivia, *Lich. And. Boliv.* p. 370) et australi (Fuegia, *Lich. Fueg.* p. 3). — Etiam in Europa.

343. **C. corallifera** Kunze, Nyl. *Flora* 1874, p. 70, ubi definitur; *Flora* 1876, p. 572 in notula. = In America tropica (Surinam, Paramaribo, ad flumen Amazonum et in Andibus).

342. **C. metalepta** Nyl. *Flora* 1876, p. 559, ubi definitur. Thallus K nonnihil flavens. = In America tropica (ins. Cuba).



343. **Cladonia bellidiflora** Schær., Nyl. *Syn.* I, p. 221, ubi definitur; *Enum. Lich.* p. 96. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 7, 43 et 53. — In America boreali et meridionali (Chili, *Addit. Fl. chil.* p. 177) et antarctica. — Etiam in Europa.

— F. **gracilentata** (Ach.) Nyl. *Lich. Fr. Behr.* pp. 18, 43 et 53. = In Asia boreali (Konyambay, etc.).

— Var. **Hookeri** Tuck., Nyl. *Syn.* loc. citat., ubi definitur: *C. bellidiflora* var. *glabrescens* Nyl. *Enum. Lich.* loc. citat. = In America boreali. — Etiam in Europa septentrionali (Norvegia).

344. **C. deformis** Hoffm., Nyl. *Syn.* I, p. 222; *Enum. Lich.* p. 96. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2) et meridionali (mont. Himalaya). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61) et australi (ins. Maclovianis). — In Oceania (Tasmania). — Etiam in Europa.

345. **C. digitata** Hoffm., Nyl. *Syn.* I, p. 222, ubi definitur et *Enum. Lich.* p. 95. Thallus K + flavens, *Flora* 1866, p. 421. = In Asia (mont. Himalaya). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61). — Etiam in Europa.

346. **C. subdigitata** Nyl. *Lich. Campb.* p. 88 et *Lich. N. Zeland.* 1888, p. 20, ubi definitur. = In Oceania (ins. Campbell.).

— Var. **polydactyloides** Nyl. *Lich. Campb.* et *Lich. N. Zeland.* locis citat. = In Oceania (ins. Campbell.).

347. **C. gracilentata** Tuck. *Syn. North. Americ. Lich.* II, p. 156. = In America tropica (ins. Cuba).

348. **C. macilentata** Hoffm., Nyl. *Syn.* I, p. 223, tab. VI, fig. 24-26, ubi definitur; *Enum. Lich.* p. 96. *C. digitata* var. *macilentata* Nyl. *Flora* 1866, p. 421. Thallus K + flavet. = Cosmopolita. In Africa orientali (ins. Borbonia, *Lich. exot.* p. 250, ubi forma peculiaris describitur). — In America tropica (Mexico, *Flora* 1858, p. 378; Peruvia, *Lich. exot.* p. 209). — In Oceania (ins. Java, *Flora* 1866, p. 130; ins. Sandwich, *Lich. exot.* p. 236; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 20). — Etiam in Europa.

— F. 1. **albicans** Nyl. *Syn.* loc. citat. — *Cenomyce digitata* var. *albicans* Del.

— F. 2. **clavata** Nyl. *Syn.* loc. citat. — *Cenomyce bacillaris* var. *clavata* Ach. = Utraque forma cum typo invenitur.

— F. 3. **rigida** Nyl. *Syn.* loc. citat. in notula. — *Cenomyce rigida* Tuck. = In Oceania (ins. Auckland).

— Var. 1. **polydactyla** Fr., Nyl. *Syn.* I, p. 224, ubi definitur; *Enum. Lich.* p. 96. = In iisdem fere locis ac typus. — In America tropica (Venezuela, *Lich. exot.* p. 209). — Etiam in Europa.

— Var. 2. **seductrix** Nyl. *Syn.* I, p. 225, ubi definitur; *Enum. Lich.* p. 96. — *Cenomyce seductrix* Del. = In Oceania (Tasmania). — Etiam et in Europa.

— Var. 3. **carcata** Ach., Nyl. *Lich. Scand.* p. 62, *Lich. ins. Princip.* p. 2 et *Fl. ins. Guin.* p. 8 in notula, ubi definitur. Thallus K +. = In Africa occidentali (ins. Principis). — In America tropica (Guadalupa, *Lich. Antill.* p. 6; Nova Granata, *Prodr. Lich. N. Gran.* ed. 1<sup>a</sup> p. 18, edit. 2<sup>a</sup> p. 10 et *Addit.* p. 535; Bolivia, *Lich. And. Boliv.* p. 370) et australi (Fuegia, *Lich. Fueg.* p. 4). — Etiam in Europa.

— Var. 4. **filiformis** Fr., Nyl. *Addit. Fl. chil.* p. 177. = In America meridionali (Chili). — Etiam in Europa.

349. **C. pulchella** Schw., Nyl. *Syn.* I, p. 224, ubi definitur in notula. = In America septentrionali (Carolina, Georgia, Alabama, Florida, Louisiana et Texas).

350. **C. bacillaris** Nyl. *Flora* 1866, p. 421. — *Cenomyce bacillaris* Ach. In Nyl. *Syn.* I, p. 223, sub *C. macilentata* sumitur. Thallus K —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 20; ins. Campbell, *Lich. Campb.* p. 88). — Etiam in Europa.

— F. 1. **cornutulata** Nyl. *Lich. ins. Princip.* p. 4 et *Lich. ins. Guin.* p. 8, ubi definitur; thallus K —. = In Africa orientali (ins. Principis).

— F. 2. **trachypoda** Nyl. *Lich. Fueg.* p. 4 in notula, analogæ *C. macilentæ* var. *carcatæ*, sed thallus K —. = Invenitur probabiliter in locis illi var. *carcatæ* supra attributis.

351\*. **Cladonia Flørkeana** Fr., Nyl. *Syn.* I, p. 227 et *Syn. Lich. N. Caled.* p. 10, ubi definitur; *Enum. Lich.* p. 96 et *Flora* 1866, p. 421, thallus K —. = In America tropica (Mexico, *Flora* 1858, p. 378) et meridionali (Chili, *Addit. Fl. chil.* p. 177). — In Oceania (Nova Caledonia, *Exposit. Lich. N. Caledon.* p. 40 et *Flora* 1867, p. 194). — Etiam in Europa.

352. **C. percussata** Nyl. *Lich. Fueg.* p. 25 in notula et apud Cromb. *Falkl. isl.* p. 225, ubi definitur. = In America antarctica (Eden Harbour et ins. Maclovianis).

353. **C. muscigena** Eschw., Nyl. *Syn.* I, p. 225 et *Syn. Lich. N. Caledon.* p. 11, ubi definitur. Thallus K —. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* edit. 1<sup>a</sup>, p. 18, edit. 2<sup>a</sup> p. 10 et *Addit.* p. 536; Venezuela; Chili; Brasilia) et australi (Freto Magellanico). — In Oceania (ins. Java; ins. Sandwich, *Lich. exot.* p. 236; Nova Caledonia).

354. **C. sphærulifera** Nyl. *Lich. Fueg.* p. 25; *Enum. Lich.* p. 96; in *Syn.* I, p. 224, ut forma *C. macilentæ* Hoffm. definitur. Thallus K —. — *Cenomyce sphærulifera* Tayl. = In Africa occidentali (ins. San Thomé, *Flora* 1866, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 8). — In America septentrionali et australi (Fuegia, *Lich. Fueg.* p. 25).

— F. **furcatula** Nyl. *Enum. Lich.* p. 96 in notula. = In Oceania (ins. Sandwich).

355. **C. symphoriza** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 535, ubi definitur; thallus K —. = In America tropica (Nova Granata).

356. **C. leptopoda** Nyl. *Syn.* I, p. 226 ubi definitur. = In America septentrionali.

357. **C. areolata** Nyl. *Syn.* I, p. 226, ubi definitur; *Enum. Lich.* p. 95. = In America tropica (Guadalupa).

358. **C. angustata** Nyl. *Syn.* I, p. 226 et *Lich. exot.* p. 236, ubi definitur; *C. cornucopioides* var. *angustata* Nyl. *Enum. Lich.* p. 96. = In Oceania (ins. Sandwicensibus).

359. **C. cetrarioides** Schw., Nyl. *Syn.* I, p. 227, ubi definitur. = In America septentrionali (Carolina).

360. **C. cristatella** Tuck., Nyl. *Syn.* I, p. 227, ubi definitur. = In America septentrionali.

b. — *Species ascyphæ.*

361. **C. leporina** Fr., Nyl. *Syn.* I, p. 227, ubi definitur; *Enum. Lich.* p. 96. — *Cladina leporina* Nyl. *Flora* 1866, p. 179. = In America septentrionali (Carolina meridionali et Texas).

362. **C. secundana** Nyl. *Flora* 1874, p. 71, ubi definitur. = In America tropica (ad flumen Negro).

Gen. XL. — CLADINA Nyl.

*Flora* 1866, p. 179, et *Syn. Lich. N. Caled.* p. 11 in notula.

363. **C. rangiferina** Nyl. *Flora* 1866, pp. 179 et 421. — *Lichen rangiferinus* L. — *Cladonia rangiferina* Nyl. *Syn.* I, p. 211, ubi definitur; *Enum. Lich.* p. 95. Thallus K +. = Distribuitur a regionibus extremis arcticis usque in antarcticas. — In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 43). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 249). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61), tropica (Mexico, *Flora* 1858, p. 378; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 9; Peruvia, *Lich. exot.* p. 209 et *Flora* 1855, p. 673), australi (Fuegia, *Lich. Fueg.* p. 25). — In Oceania (ins. Sandwich, *Lich. exot.* p. 236). — Etiam in Europa.

- F. 1. **cymosa** Ach., Nyl. *Lich. Middend.* p. 2. = In Asia boreali (Sibiria).
- F. 2. **crispatula** Nyl. *Flora* 1869, p. 117, ubi definitur, et 1874, p. 70. Thallus K +. = In America tropica (in ripis Amazonæ et in Andibus).
364. **Cladina sylvatica** Nyl. *Lich. Middend.* p. 2. — *Lichen sylvaticus* L. — *Cladonia rangiferina* var. *sylvatica* Hoffm., Nyl. *Syn.* I, p. 212, ubi definitur; *Enum. Lich.* p. 95 et *Flora* 1866, p. 421. Thallus K —. = In eisdem regionibus ac typus et forte adhuc copiosior. — In Asia boreali (Lawrencebay et Lawrence ins., *Lich. Fr. Behr.* pp. 7 et 43; Sibiria). — In Africa boreali (Algeria, *Lich. Algér.* p. 309). — In America arctica (Port-Clarence, *Lich. Fr. Behr.* p. 61), tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 130; Bolivia, *Lich. And. Boliv.* p. 370; Brasilia, ubi forma viget peculiaris in *Syn.* loc. citat. distincta), meridionali (Chili, *Addit. Fl. chil.* p. 177) et antarctica (Fuegia, *Lich. Fueg.* p. 25). — Etiam in Europa.
- F. **spumosa** Floerke, Nyl. *Lich. Fr. Behr.* p. 19. = In Asia boreali (Konyambay).
365. \* **C. alpestris** Nyl. *Lich. Fr. Behr.* p. 19. — *Lichen alpestris* L. — *Cladonia rangiferina* var. *alpestris* Schær., Nyl. *Syn.* I, p. 212, ubi definitur; *Enum. Lich.* p. 95. — *Cladina sylvatica* var. *alpestris* (Ach.), Nyl. *Lich. Middend.* p. 2. Thallus K —. = In montanis et regionibus frigidis et frigidissimis typo fere copiosior et latissime expansa. — In Asia boreali (Konyambay et Lawrence ins., *Lich. Fr. Behr.* pp. 19 et 43; Sibiria). In America meridionali (Chili, *Addit. Fl. chilens.* p. 177). — Etiam in Europa.
366. **C. pycnoclada** Nyl. *Lich. Fueg.* p. 4. — *Cenomyce pycnoclada* Pers. — *Cladonia rangiferina* var. *pycnoclada* Nyl. *Syn.* I, p. 212, ubi definitur; *C. rangiferina* var. *pumita* Nyl. *Lich. N. Zeland.* 1861, p. 244. Thallus K —. = In Africa orientali (ins. Borbonia, ubi viget forma peculiaris in *Syn.* loc. citat. definita. — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 9; Brasilia, ubi præcipue est obvia); australi (Fuegia, *Lich. Fueg.* p. 4). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 20).
367. \* **C. thyrsifera** Nyl. *Lich. N. Zeland.* 1888, p. 20, ubi definitur. *C. pycnoclada* Nyl. *Syn. Lich. N. Caled.* p. 41, ubi definitur, *Exposit.* ejusdem p. 40 et *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).
368. **C. interhiascens** Nyl. *Lich. Campb.* p. 89 et *Lich. N. Zeland.* 1888, p. 20, ubi definitur. Thallus K subflavescit. = In Oceania (ins. Campbell).
369. **C. peltasta** Nyl. *Flora* 1866, p. 179. — *Cladonia peltasta* Spr., Nyl. *Syn.* I, p. 213, ubi definitur; *Enum. Lich.* p. 95. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 250, et ins. Comoris).
370. **C. peltastica** Nyl. *Flora* 1874, p. 70, ubi definitur. = In America tropica (in ripis Amazonæ et in Andibus).
371. **C. gorgonea** Nyl. *Flora* 1866, p. 179. — *Cladonia gorgonea* Eschw., Nyl. *Syn.* I, p. 213, ubi definitur. Thallus K +, *Flora* 1866, p. 421. = In America tropica (Brasilia).  
— Var. 1. **turgidior** Nyl. *Syn.* loc. citat., ubi definitur. = In eadem regione.  
— Var. 2. **subrangiferina** Nyl. *Syn.* I, p. 214, ubi definitur. = In eadem regione.
372. **C. Salzmanni** Nyl. *Flora* 1866, p. 179. — *Cenomyce Salzmanni* Del.; *Cladonia Salzmanni* Nyl. *Syn.* I, p. 214, ubi definitur. Thallus K —, *Flora* 1866, p. 421. = In America tropica (Brasilia).
373. **C. Candelabrum** Nyl. *Flora* 1866, p. 179. — *Lichen Candelabrum* Bory. — *Cladonia Candelabrum* Nyl. *Syn.* I, p. 214, ubi definitur; *Enum. Lich.* p. 95. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 250). — In America tropica (Brasilia).
374. **C. divaricata** Nyl. *Flora* 1866, p. 179. — *Cladonia divaricata* Nyl. *Syn.* I, p. 214, ubi definitur. = In America tropica (Brasilia).
375. **C. uncialis** Nyl. *Flora* 1866, p. 179. — *Cladonia uncialis* Hoffm., Nyl. *Syn.* I,



p. 215, ubi definitur; *Enum. Lich.* p. 95. = Cosmopolita, regiones frigidas amans æque ac *C. rangiferina*, sed illa minus copiosa. — In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 7). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61) et meridionali (Chili, *Addit. Fl. chil.* p. 177). — Etiam in Europa.

— Var. 1. **turgescens** Fr., Nyl. *Syn.* loc. citat., ubi definitur.

— Var. 2. **obtusata** Ach., Nyl. *Syn.* loc. citat., ubi definitur. = Utraque varietas viget cum typo.

376. **Cladina lacunosa** Nyl. *Lich. Fr. Behr.* p. 43. — *Cenomyce lacunosa* Del. — *Cladonia lacunosa* Nyl. *Syn.* I, p. 215, ubi definitur. *C. turgida* var. *lacunosa* Nyl. *Enum. Lich.* p. 95. = In America boreali (Lawrence ins.; Terra Nova). — Etiam in Europa (Tyrolia).

— F. **Delisei** Nyl. — *Cenomyce Delisei* Despr. — *Cladonia lacunosa* f. *Delisei* Nyl. *Syn.* I, p. 216. = In America boreali (Terra Nova).

377. **C. caroliniana** Nyl. — *Cladonia caroliniana* Tuck., Nyl. *Syn.* I, 216, ubi definitur. *Cladonia georgiana* Tuck., Nyl. *Enum. Lich.* p. 95. = In America septentrionali (Georgia et Carolina).

378. **C. amaurocræa** Nyl. *Flora* 1866, p. 179. — *Capitularia amaurocræa* Floerke. — *Cladonia amaurocræa* Schær., Nyl. *Syn.* I, p. 216, ubi definitur; *Enum. Lich.* p. 95. = In regionibus frigidioribus vel frigidis plurimarum telluris partium, inde ab arcticis ad antarcticas. — In Asia boreali (Sibiria, *Lich. Middend.* p. 2; Lawrencebay, etc., *Lich. Fr. Behr.* pp. 7, 18 et 43). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61) et meridionali (Chili, *Addit. Fl. chil.* p. 177). — In Oceania (Australia). — Etiam in Europa.

— Var. **capitellata** Nyl. — *Cladonia uncialis* var. *capitellata* Nyl. *Syn.* I, p. 217, ubi definitur. — *Cenomyce capitellata* Tayl. — *Cladonia capitellata* Bab. *Flora of N. Zeal.* p. 32, Nyl. *Enum. Lich.* p. 95. = In Oceania (Australia; Nova Zelandia).

379. \* **C. dstricta** Nyl. *Lich. Fr. Behr.* p. 19. — *Cladonia amaurocræa* var. *dstricta* Nyl. *Lich. Scand.* p. 59, ubi definitur. = In Asia boreali (Konyambay). — Etiam in Europa.

380. **C. medusina** Nyl. *Flora* 1866, p. 179. — *Lichen medusinus* Bory. — *Cladonia medusina* Nyl. *Syn.* I, p. 217, ubi definitur; *Enum. Lich.* p. 95. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 250).

#### TRIB. XV. — CLADIEI.

##### Gen. XLI. — CLADIA Nyl.

Hoc genus indicatum in *Recogn. Ramal.* p. 66 definitur in *Lich. Fueg.* p. 29.

381. **C. schizopora** Nyl. *Lich. Fueg.* p. 29. — *Cladonia schizopora* Nyl. *Syn.* I, p. 217, ubi definitur. — *Cladina schizopora* Nyl. *Flora* 1866, p. 179. = In Oceania (Tasmania).

382. **C. aggregata** Nyl. *Lich. Fueg.* p. 29. — *Lichen aggregatus* Sw. — *Cladonia aggregata* Nyl. *Syn.* I, p. 218, ubi definitur; *Enum. Lich.* p. 95. — *Cladina aggregata* (Eschw.) Nyl. *Syn. Lich. N. Caled.* p. 11, ubi definitur; *Flora* 1866, p. 179. = In Asia meridionali (India). — In Africa orientali (ins. Mascarenis, Borbonia, *Lich. exot.* p. 250). — In America tota tropica (Mexico, *Flora* 1858, p. 378; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 9; Peruvia, *Lich. exot.* p. 209; Bolivia, *Lich. And. Boliv.* p. 370), meridionali (Chili, *Addit. Fl. chil.* p. 177) et australi (Staten Island, *Lich. Fueg.* p. 4). — In Oceania (Australia; Nova Caledonia, *N. Caledon. Lich. Prodr.* p. 282 et *Exposit.* p. 40; *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 244, et 1888, p. 21, et in hoc posteriore loco definitur adhuc; ins. Campbell, *Lich. Campb.* p. 89).

383. **C. retipora** Nyl. *Lich. Fueg.* p. 29. — *Cenomyce retipora* Ach. — *Cladonia retipora*

Floerke, Nyl. *Syn.* I. p. 218, ubi definitur; *Enum. Lich.* p. 95. — *Cladina retipora* Nyl. *Syn. Lich. N. Caled.* p. 11, ubi definitur; *Flora* 1866, p. 179. = In Oceania (Nova Caledonia, *Lich. N. Caled. Prodr.* p. 282 et *Exposit.* p. 40; *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245, et 1888, p. 21; ins. Campbell, *Lich. Campb.* p. 89; Tasmania).

Gen. XLII. — PYCNOTHELIA Duf.

Hoc genus in *Flora* 1866, p. 179 indicatum et in *Flora* 1870, p. 299 inter Cladoneos dispositum, in *Lich. Fueg.* p. 29 inter Cladieios ponitur simulque definitur.

384. **P. papillaria** Duf., Nyl. *Lich. Fueg.* p. 29. — *Lichen papillaria* Ehrh. — *Cladonia papillaria* Nyl. *Syn.* I, p. 188, ubi definitur; *Enum. Lich.* p. 95. — *Cladina papillaria* Nyl. *Flora* 1866, p. 179. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 6). — Etiam in Europa.

TRIB. XVI. — HETERODEI Nyl. *Lich. Fueg.* p. 34.

Gen. XLIII. — HETERODEA Nyl.

Illud genus, ad interim inter Cladoneos dispositum in *Syn. Lich. N. Caled.* p. 9, definitur in *Lich. Fueg.* p. 29.

385. **H. Muellerii** Nyl. *Syn. Lich. N. Caled.* p. 9, ubi definitur. — *Sticta Muelleri* Hampe. — *Platysma Muelleri* Nyl. *Syn.* I, p. 306, ubi definitur. — *Cladonia Müllerii* Nyl. *Exposit. Lich. N. Caled.* p. 39. = In Oceania (Nova Caledonia et Tasmania).

386. **H. madagascarea** Nyl. *Lich. N. Zeland.* 1888, p. 21, ubi definitur in notula. = In Africa orientali (ins. Madagascar).

TRIB. XVII. — RAMALINEI.

Gen. XLIV. — RAMALEA Nyl. *Lich. N. Zeland.* 1888, p. 22.

387. **R. tribulosa** Nyl. *Flora* 1866, p. 289, et *Recogn. Ram.* p. 77, ubi definitur. = In America tropica (ins. Cuba).

Gen. XLV. — RAMALINA Ach.

Sectio A. — SPERMOGONIA CONCEPTACULIS TOTIS NIGRIS.

388. **R. inanis** Mont., Nyl. *Syn.* I, p. 288, tab. VIII, fig. 24, et *Recogn. Ramal.* p. 7, ubi definitur. — *Dufourea inanis* Ach., Nyl. *Enum. Lich.* p. 99. Huic et sequentibus speciebus, n<sup>o</sup>s 387-393 inclusive, conceptaculum spermogonii K violacee tingitur. = In America tropica (Peruvia, *Lich. exot.* p. 212; Bolivia) et meridionali (Chili, *Addit. Fl. chil.* p. 178).

389. **R. ceruchis** de Notar., Nyl. *Syn.* I, p. 289, tab. VIII, fig. 25 et *Recogn. Ramal.* p. 8, ubi definitur; *Enum. Lich.* p. 100. — *Parmelia ceruchis* Ach. = In America tropica (Peruvia, *Lich. exot.* p. 212) et meridionali (Chili, *Addit. Fl. chil.* p. 178, *R. homalea* Mont.).

— **F. tumidula** Nyl. *Syn.* I, p. 289 et *Recogn. Ramal.* p. 9, ubi definitur. — *Usnea tumidula* Tayl. = In eisdem regionibus.

390. **R. combeoides** Nyl. *Recogn. Ramal.* p. 9, ubi definitur. = In America tropica (California).

391. **R. homalea** Ach., Nyl. *Syn.* I, p. 289 et *Recogn. Ramal.* p. 9, ubi definitur; *Enum.*

*Lich.* p. 400. = In America tropica (California). In *Lich. exot.* p. 212 et *Addit. Fl. chil.* p. 478, indicatur etiam in Peruvia et Chili, sed esse possit sequens, nam *R. homalea* in *Recogn.* est *R. homalea* in *Syn.* pro parte, et pro maxima parte est sequens species.

— Var. **disrupta** Nyl. *Recogn. Ramal.* p. 40, ubi definitur. = In America septentrionali calida (California).

392. **Ramalina testudinaria** Nyl. *Recogn. Ramal.* p. 40, ubi definitur. = In America septentrionali calida (California).

393. **R. flaccescens** Nyl. *Recogn. Ramal.* p. 41, ubi definitur. = In America tropica (Peruvia) et meridionali (Chili).

394. **R. melanothrix** Laur., Nyl. *Syn.* I, p. 290, tab. VIII, fig. 26, et *Recogn. Ramal.* p. 42, ubi definitur; *Enum. Lich.* p. 400. = In Africa meridionali (promont. Bonæ Spei).

Sectio B. — SPERMOGONIA CONCEPTACULIS PALLIDIS VEL INCOLORIBUS.

1. — Stirps *Ramalinæ gracilis* Nyl.

a. — Species quarum medulla K flavescit et dein rubescit.

395. **R. rigida** Nyl. *Recogn. Ramal.* p. 44, ubi definitur; *Enum. Lich.* p. 99. *R. calicaris* var. *rigida* Nyl. *Syn.* I, p. 295 pro parte, ubi etiam definitur. — *Lichen rigidus* Pers. = In America tropica (in insulis Antillis, Martinica, *Lich. Antill.* p. 6, *R. gracilis* Nyl.). Indicatur etiam in Mexico, *Flora* 1858, p. 378 et in ins. Taiti, *Lich. exot.* p. 237, sed esse potest *R. gracilis* Nyl. vel *R. gracilentata* Ach.

— Var. **dendroides** Del., Nyl. *Recogn. Ramal.* p. 44. = In iisdem insulis.

396. **R. dendriscoides** Nyl. *Flora* 1876, p. 412, ubi definitur. = In America tropica (ins. Cuba).

397. **R. anceps** Nyl. *Syn.* I, p. 290 et *Recogn. Ramal.* p. 45, ubi definitur. = In America tropica (in Antillis, Martinica, *Lich. Antill.* p. 6, ubi apothecia et sporæ definiuntur; Guadalupa, Cuba).

398. **R. peranceps** Nyl. *Flora* 1876, p. 411, ubi definitur. = In America tropica (ins. Cuba).

399. **R. Arabum** Nyl. *Recogn. Ramal.* p. 45, ubi definitur. *R. scopulorum* var. *implexa* Nyl. *Syn.* I, p. 293, ubi definitur; *Enum. Lich.* p. 99. — *Alectoria Arabum* Ach. = Late distributa, præsertim in hemispherica australi. In Asia meridionali (India). — In Africa boreali (Algeria, *Lich. Algér.* p. 309, *R. usneoides* Mont.), orientali (ins. Borbonia et Madagascar), meridionali (Promont. Bonæ Spei) et occidentali (ins. Santa-Helena et Canariis). — In Oceania (Nova Caledonia, *Syn. Lich. N. Caled.* p. 43, ubi definitur, *R. angulosa* Nyl., et *Flora* 1867, p. 494). — Etiam in Europa (ins. Corsica).

400. **R. dasypoga** Tuck., Nyl. *Recogn. Ramal.* p. 46 et *Syn.* I, p. 290, ubi definitur. = In America tropica (ins. Cuba et Brasilia).

b. — Species quarum medulla K non tingitur.

401. **R. gracilis** Nyl. *Syn.* I, p. 296, tab. VIII, fig. 30 et *Recogn. Ramal.* p. 47, ubi definitur. — *Physica gracilis* Pers. = In Africa orientali (Madagascar). = In America tropica (Brasilia). — In Oceania (Australia).

402. **R. angulosa** Laur., Nyl. *Recogn. Ramal.* p. 47, ubi definitur; *R. linearis* var. *angulosa* Nyl. *Enum. Lich.* p. 99. = In Asia meridionali (Calcutta, *Flora* 1867, p. 3, ubi sporæ definiuntur. — In Africa orientali (ins. Borbonia) et meridionali (Promont. Bonæ Spei).



403. **Ramalina implectens** Nyl. *Recogn. Ramal.* p. 18, ubi definitur. = In Africa occidentali (Tanger et ins. Teneriffa).

404. **R. thrausta** Nyl. *Recogn. Ramal.* p. 18 et *Syn.* I, p. 296, ubi definitur; *R. scopulorum* var. *thrausta* Nyl. *Enum. Lich.* p. 99. — *Alectoria thrausta* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 310). — Etiam et præsertim in Europa.

405. **R. gracilentia** Ach., Nyl. *Recogn. Ramal.* p. 19, ubi definitur; *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 15 in notulis. — *Lichen linearis* Sw. *Fl. Ind. occid.* 3, p. 1910, exclusa jamaicense quæ ad *R. sorediantham* pertinet, Nyl. in litt. *Evernia furcellata* Mont. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 62; Cochinchina). — In America septentrionali (Carolina et in regionibus vicinis) et tropica (ins. Cuba). — In Oceania (ins. Philippinis).

— **F. torulosa** Nyl. *Recogn. Ramal.* p. 20, ubi definitur. = In Asia orientali. — In Oceania (ins. Philippinis).

406. **R. Montagnei** de Notar., Nyl. *Recogn. Ramal.* p. 20, ubi definitur. = In America septentrionali (N. Orléans) et tropica (Guyana gallica et ins. Cuba et Guadalupa).

407. **R. taïtensis** Nyl. *Recogn. Ramal.* p. 20, ubi definitur. — In Oceania (ins. Taïti).

408. **R. camptospora** Nyl. *Recogn. Ramal.* p. 22, ubi definitur. Est forsàn *R. straminea* Ach. ex Antillis et Peruvia, de qua Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 15 in notulis. = In America tropica (ins. Cuba).

## 2. — Stirps *Ramalinæ usneoidis* Fr.

*Medulla K non tingitur.*

409. **R. australiensis** Fr., Nyl. *Recogn. Ramal.* p. 22, ubi definitur. — *Alectoria anceps* Nyl. *Enum. Lich.* p. 98. = In Oceania (Australia).

410. **R. rectangularis** Nyl. *Recogn. Ramal.* p. 23, ubi definitur. = In America tropica (Brasilia).

411. **R. usneoides** Fr., Nyl. *Syn.* I, p. 291, tab. VIII, fig. 27 et *Recogn. Ramal.* p. 23, ubi definitur; *Enum. Lich.* p. 99. — *Parmelia usneoides* Ach. = In Asia meridionali (India). — In Africa orientali (ins. Borbonia). — In America tota calidiore, ex Antillis usque in Chilem, et a Venezuela in Brasiliam (Peruvia, *Lich. exot.* p. 213; Chili, *Lich. exot.* p. 262). — In Oceania (Australia; ins. Taïti, *Lich. exot.* p. 237; forsàn in Nova Zelandia, *Lich. N. Zeland.* 1888, p. 23).

— Var. 1. — **usneoidella** Nyl. *Recogn. Ramal.* p. 24, ubi definitur. = In America tropica (Mexico).

— Var. 2. — **capensis** Nyl. *Recogn. Ramal.* p. 25, ubi definitur. = In Africa meridionali (Promont. Bonæ Spei).

412. **R. subanceps** Nyl. *Flora* 1876, p. 411, ubi definitur. = In America tropica (ins. Cuba).

413. **R. reticulata** Krempelth., Nyl. *Recogn. Ramal.* p. 25, ubi definitur; *R. retiformis* Menz., Nyl. *Syn.* I, p. 291, tab. VIII, fig. 29 et *Enum. Lich.* p. 99. — *Lichen reticulatus* Noehd. = In America septentrionali (California et ins. Vancouver).

414. **R. bogotensis** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 16 et *Recogn. Ramal.* p. 26, ubi definitur. = In America tropica (Nova Granata).

415. **R. chilensis** Bertero, Nyl. *Recogn. Ramal.* p. 26, ubi definitur; *R. Eckloni* Mont. *Chil.* p. 79 pr. p.; *R. linearis* var. *Eckloni* Nyl. *Addit. Fl. chil.* p. 178, etiam pr. p.; altera pars pertinet ad *R. yemensis* Nyl., infra n<sup>o</sup> 441. = In America meridionali (Chili).

3. — Stirps *Ramalinæ fraxineæ* Ach.

## I. — Stratum corticale filamentose compositum.

a. — *Medulla K flavescit et dein rubescit.*

416. **R. subpollinaria** Nyl. *Recogn. Ramal.* p. 27, ubi definitur. = In America tropica (Peruvia et Brasilia).

417. **R. denticulata** Nyl. *Recogn. Ramal.* p. 28, ubi definitur; *Flora* 1864, p. 618; *R. calicaris* var. *denticulata* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20, ed. 2<sup>a</sup> p. 15 et *Addit.* p. 536. — *Parmelia denticulata* Eschw. = In America tropica (Mexico; ins. Guadalupa; Guyana; Nova Granata; Brasilia, ubi frequens).

— Var. **canalicularis** Nyl. *Recogn. Ramal.* loc. citat., ubi definitur. = In America tropica (Mexico).

b. — *Medulla K non mutatur.*

418. **R. complanata** Nyl. *Recogn. Ramal.* p. 29, ubi definitur. *R. calicaris* f. *complanata* Nyl. *Syn.* I, p. 295, ubi etiam definitur. — *Lichen complanatus* Sw. = In Africa occidentali (Senegal). — In America tropica (Mexico, *Mexic. Plant.* p. 2, ubi datur sporarum mensura; ins. Martinica, *Lich. Antill.* p. 6; Guadalupa; Jamaïca; Cuba; Guyana gallica; Nova Granata; Peruvia et Brasilia). — In Oceania (archip. Mendana, *Lich. îles Marq.* p. 301; archipel Gambier et ins. Taïti, *Lich. exot.* p. 237; Australia; Nova Caledonia, *Syn. Lich. N. Caled.* p. 13, ubi definitur et *Flora* 1869, p. 494; Australia).

419. \* **R. hypodectodes** Nyl. *Recogn. Ramal.* p. 30, ubi definitur. = In America tropica (Nova Granata et Brasilia).

420. **R. subasperata** Nyl. *Flora* 1876, p. 411, ubi definitur. = In America tropica (ins. Cuba).

421. **R. peruviana** Ach., Nyl. *Recogn. Ramal.* p. 30; *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 15, ubi definitur. = In America tropica (Peruvia).

422. **R. canaliculata** Tayl., Nyl. *Recogn. Ramal.* p. 30, ubi definitur; *R. linearis* Nyl. *Enum. Lich.* pr. p., p. 99. = In Asia meridionali (India). — In Africa orientali (ins. Madagascar; Borbonia, *Lich. exot.* p. 252, *R. linearis* Ach.; Mauriti). — In America tropica (Peruvia). — In Oceania variis insulis (Taïti, *Lich. exot.* p. 237, *R. linearis* Ach.; Nukahiva; Tongatobou).

— **F. subjectinata** Nyl. *Recogn. Ramal.* p. 31, ubi definitur. = In eisdem regionibus.

423. \* **R. linearis** Nyl. *Recogn. Ramal.* p. 31, ubi definitur; *Enum. Lich.* p. 99 pr. p.; *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 15 in notulis. Non *R. calicaris* f. *linearis* Nyl. *Syn.* I, p. 295. — *Lichen linearis* Linn. fil. et Sw. = In America meridionali (Chili, *Addit. Fl. chil.* p. 179, *R. subulata* Mont.; ins. Juan Fernandez) et australi (ins. Maclovianis, *Lich. Fueg.* p. 25 in notula). — In Oceania (archipel. Mendana, *Lich. îles Marquis.* p. 301, ubi nominatur etiam *R. subulata* Mont., *R. scopulorum* var. *subulata* Nyl. *Enum. Lich.* p. 99 et eadem in ins. Taïti, *Lich. exot.* p. 237; ins. Norfolk; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 22, ubi sporæ definiuntur).

424. **R. leptosperma** Nyl. *Flora* 1876, p. 412, ubi definitur. = In America tropica (ins. Cuba).

425. **R. alludens** Nyl. *Recogn. Ramal.* p. 32, ubi definitur. = In America tropica (Mexico).

426. **R. calicaris** Fr., Nyl. *Syn.* I, p. 293 et *Recogn. Ramal.* p. 33, ubi definitur; *Enum. Lich.* p. 99 et var. *canaliculata* Fr., Nyl. ibid. — *Lobaria calicaris* Hoffm. = In Asia orientali (China), occidentali et meridionali (Calcutta, *Flora* 1867, p. 3; mont. Himalaya). — In

Africa boreali (*Ægypto*, *Lich. Ægypt.* p. 2), orientali (ins. Mascarenis), meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (ins. Madera, *Lich. Madère* p. 188; Teneriffa). — In America utraque (Mexico, *Flora* 1858, p. 378, *R. calicaris* var. *canaliculata* Fr., et Bolivia, *Lich. exot.* p. 213; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 15). — In Oceania (ins. Java, *Flora* 1866, p. 130; ins. Taiti, *Lich. exot.* p. 237; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245). — Etiam in Europa.

— Var. 1. **subampliata** Nyl. *Recogn. Ramal.* p. 34, ubi definitur. = In Asia meridionali (India). — In Africa boreali (Algeria, *R. calicaris* var. *canaliculata* Fr., Nyl. *Lich. Algér.* p. 310 et *Enum. Lich.* p. 99). — Etiam in Europa.

— — F. **subpapillosa** Nyl. *Recogn. Ram.* loc. citat., ubi definitur. = In Asia meridionali (India).

— Var. 2. **subfastigiata** Nyl. *Recogn. Ramal.* loc. citat. ubi definitur. = In America boreali. — Etiam in Europa (Gallia).

427. **Ramalina farinacea** Nyl. *Recogn. Ramal.* p. 34, ubi definitur. *R. calicaris* f. *farinacea* Nyl. *Syn.* I, p. 294, ubi etiam definitur; *Enum. Lich.* p. 99. — *Lichen farinaceus* L. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia*, p. 50; Japonia, ibid. p. 60) et meridionali (Calcutta, *Flora* 1867, p. 3). — In Africa boreali (Algeria, *Lich. Algér.* p. 310) et occidentali (ins. Principis, *Lich. ins. Princip.* p. 1, nomine erroneo *R. farinosa* et *Lich. ins. Guin.* p. 9). — In America utraque, boreali (Alaska, *Lich. Fr. Behr.* p. 85) et tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 15; Peruvia *Lich. exot.* p. 213), — In Oceania (Australia; Polynesia, ins. Taiti, *Lich. exot.* p. 237). — Etiam in Europa.

— F. 1. **pendulina** Ach., Nyl. *Recogn. Ramal.* p. 35, ubi definitur.

— F. 2. **phalerata** Ach., Nyl. *Recogn. Ramal.* p. 35.

— Var. **minutula** Ach., Nyl. *Recogn. Ramal.* p. 35. = Illæ formæ et varietates obveniunt passim cum typo.

428. \* **R. protensa** Nyl. *Recogn. Ramal.* p. 35, ubi definitur; *R. calicaris* f. *protensa* Nyl. *Prodr. Fl. Gran.* ed. 1<sup>a</sup> p. 20 et 2<sup>a</sup> p. 15, ubi definitur. = In America tropica (Nova Granata).

429. \*\* **R. subcomplanata** Nyl. *Recogn. Ramal.* p. 36, ubi definitur. = In Asia meridionali (India). — In Africa occidentali (ins. San Thomé et Sancti Vincentii, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 9).

430. **R. fraxinea** Ach., Nyl. *Recogn. Ramal.* p. 36, ubi definitur. *R. calicaris* f. *fraxinea* Fr., Nyl. *Syn.* I, p. 294, ubi definitur; *Enum. Lich.* p. 99. — *Lichen fraxinens* L. = In Asia orientali (China). — In Africa boreali (Algeria, *Lich. Algér.* p. 310) et occidentali (ins. Canariis). — In America boreali et tropica (Mexico, *Flora* 1858, p. 378; Peruvia, *Lich. exot.* p. 213) et meridionali (Chili, *Addit. Fl. chil.* p. 178). — Etiam in Europa.

— F. **tæniæformis** Ach., Nyl. *Recogn. Ramal.* p. 37, ubi definitur. = In Asia occidentali (sylvis mont. Libani). Alia forma adest in Mexico.

— Var. 1. **platyna** Nyl. *Recogn. Ramal.* p. 38, ubi definitur. = In America meridionali (Chili).

— Var. 2. **calicariformis** Nyl. *Recogn. Ramal.* p. 38, ubi definitur. = In Africa occidentali (ins. Teneriffa). — In America septentrionali (California). — Etiam in Europa.

431. **R. fastigiata** Ach., Nyl. *Recogn. Ramal.* p. 39, ubi definitur. *R. calicaris* var. *fastigiata* Fr., Nyl. *Syn.* I, p. 294, ubi etiam definitur; *Enum. Lich.* p. 99. — *Lichen fastigiatus* Pers. = In Asia occidentali et meridionali (India). — In Africa boreali (Algeria). — In America boreali. — Etiam in Europa.

432. \*\* **R. confirmata** Nyl. *Recogn. Ramal.* p. 40, ubi definitur. = In Oceania (Australia).

433. \*\*\* **R. subcalicaris** Nyl. *Recogn. Ramal.* p. 40 et *Mexic. Plant.* p. 2, ubi definitur,



= In Africa orientali (ins. Mauritii). — In America septentrionali (Mexico et Arkansas).

434. **Ramalina subfraxinea** Nyl. *Recogn. Ramal.* p. 41, ubi definitur. = In Africa orientali (insulis Mauritii et Borbonia). — In America meridionali (Nova Granata; Chili; ins. Juan Fernandez, ubi viget forma peculiaris) et australi (Fuegia, *Lich. Fueg.* p. 25). — In Oceania (ins. Marianis).

**F. firmior** Nyl. *Recogn. Ramal.* p. 41, ubi definitur. = In America tropica (Mexico).

— Var. **subcanaliculata** Nyl. *Recogn. Ramal.* loc. citat., ubi definitur. = In America tropica (Panama et Peruvia).

435. \* **R. polycarpa** Mont., Nyl. *Recogn. Ramal.* p. 42, ubi definitur. = In America tropica (Mexico).

436. \*\* **R. Menziesii** Tuck., Nyl. *Recogn. Ramal.* p. 42, ubi definitur. = In America septentrionali (California).

437. \*\*\* **R. interponens** Nyl. *Recogn. Ramal.* p. 43, ubi definitur. = In America tropica (Nova Granata).

438. \*\*\*\* **R. leiodea** Nyl. *Recogn. Ramal.* p. 43, ubi definitur. *R. calicaris* f. *Eckloni* Spr. Nyl. *N. Caled. Lich. Prodr.* p. 282, *Exposit.* p. 41 et *Syn.* p. 12; in posteriore loco definitur. = In Oceania (Nova Caledonia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 22; Australia; Tasmania; ins. Norfolk).

439. **R. Cumanensis** Fée, Nyl. *Recogn. Ramal.* p. 44, ubi definitur. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 15, *R. calicaris*; Venezuela).

440. **R. bistorta** Nyl. *Recogn. Ramal.* p. 44, ubi definitur. = In America septentrionali (California).

441. **R. sorediantha** Nyl. *Recogn. Ramal.* p. 45, ubi definitur. = In America tropica (insulis Jamaica et Sancto Domingo).

442. **R. Yemensis** Nyl. *Recogn. Ramal.* p. 46, ubi definitur; *R. fraxinea* var. *Yemensis* Ach.; *R. calicaris* f. *Eckloni* Nyl. *Syn.* I, p. 295, ubi etiam definitur, *R. Eckloni* Spr., Nyl. *Enum. Lich.* p. 100. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 5; Promont. Bonæ Spei). — In terris calidioribus et calidis Americæ utriusque, ubi frequens viget (Mexico, *Flora* 1858, p. 378, *R. calicaris* f. *Eckloni* Spr., et *Mexic. Plant.* p. 2; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 16, *R. calicaris* f. *Ecklonii* Spr.; Caracas; in Andibus, *Flora* 1874, p. 71; Bolivia, *Lich. exot.* p. 213 et *Lich. And. Boliv.* p. 371, *R. calicaris* f. *Eckloni* Spr.; Chili, *Addit. Fl. chil.* p. 179, *R. linearis* f. *Eckloni* Mey. et Flot.). — In Oceania (Australia, *Flora* 1886, p. 323; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 22, ubi sporæ definiuntur).

— F. 1. — **latior** Nyl. *Recogn. Ramal.* p. 46, ubi definitur. = In America tropica (Peruvia).

— F. 2. — **sublinearis** Nyl. *Recogn. Ramal.* pp. 46 et 47, ubi definitur. = In America tropica (Columbia, Bolivia) et meridionali (Chili).

— 4. — **membranacea** Nyl. *Recogn. Ramal.* p. 47, ubi definitur. Variat adhuc in Brasilia et in Chili.

443. **R. ovalis** Tayl. et Hook., Nyl. *Recogn. Ramal.* p. 47, ubi definitur. *R. linearis* var. *ambigua* Mont., Nyl. *Addit. Fl. chil.* p. 178. = In America meridionali (Chili). = In Oceania (Tasmania).

444. **R. lanceolata** Nyl. *Recogn. Ramal.* p. 47, ubi definitur. = In America tropica (Brasilia). — In Africa meridionali (promont. Bonæ Spei, ubi viget forma minor).

445. **R. sulcatula** Nyl. *Recogn. Ramal.* p. 48, ubi definitur. = In America tropica (Peruvia).

446. **R. sepiacea** Nyl. *Recogn. Ramal.* p. 48, ubi definitur. — *Physcia sepeacea* Pers.

— *R. scopulorum* var. *sepiacea* Nyl. *Syn.* I, p. 292, exclus. synonym., ubi etiam definitur. = In America australi (ins. Maclovianis; freto Magellanico et usque in Peruviam).

— F. 1. **sorediifera** Nyl. *Recogn. Ramal.* p. 49, ubi definitur. = In America antarctica (Fuegia etc., f. *sorediata* Nyl. *Lich. Fueg.* p. 4).

— F. 2. **terebrata** Nyl. *Recogn. Ramal.* p. 49, ubi definitur; *R. terebrata* Tayl. = In America antarctica (Fuegia, etc.).

— F. 3. **flaccidissima** Nyl. *Recogn. Ramal.* p. 50, ubi definitur; *R. Eckloni* var. *leptotoba* Flot. = In America antarctica (ins. Maclovianis).

447. **Ramalina polymorpha** Ach., Nyl. *Recogn. Ramal.* p. 50 et *Syn.* I, p. 293, ubi definitur; *Enum. Lich.* p. 99. = In Africa boreali (Algeria, *Lich. Algér.* p. 309; australi (ins. Tristan d'Acunha) et occidentali (ins. Teneriffa). — In America boreali et meridionali (Chili, *Add. Fl. chil.* p. 179). — In Oceania (Australia). — Etiam in Europa.

— F. **ligulata** Ach., Nyl. *Lich. Scand.* p. 76 et *Recogn. Ramal.* p. 51, ubi definitur.

— Var. 1. **emplecta** Ach., Nyl. *Recogn. Ramal.* p. 51, ubi definitur. = In America boreali (Alaska, *Lich. Fr. Behr.* p. 85). — Etiam in Europa.

— Var. 2. **capitata** Ach., Nyl. *Recogn. Ramal.* p. 51, ubi definitur. = In Africa orientali (Abyssinia). — Etiam in Europa.

448. **R. pollinaria** Ach., Nyl. *Recogn. Ramal.* p. 52 et *Syn.* I, p. 296, ubi definitur; *Enum. Lich.* p. 100. — *Lichen pollinarius* L. = In Asia saltem occidentali. — In Africa boreali (Algeria, *Lich. Algér.* p. 309; Ægypto, *Lich. Egypt.* p. 2) et occidentali (ins. Caprarum, *Lich. ins. Princip.* p. 1 et *Lich. ins. Guin.* p. 9; ins. St. Helenæ.) — In America tropica (Peruvia, *Lich. exot.* p. 213) et meridionali (Chili, *Addit. Fl. chil.* p. 179). — Etiam in Europa.

— F. 1 — **humilis** Ach., Nyl. *Recogn. Ramal.* p. 53, ubi definitur. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — Etiam in Europa.

— F. 2. — **cariosa** Laur., Nyl. *Recogn. Ramal.* loc. citat. = In Africa meridionali (promont. Bonæ Spei).

— F. 3. — **chilena** Mont., Nyl. *Recogn. Ramal.* loc. citat. = In America meridionali (Chili).

II. — Thallus cortice sæpius transversim vel subreticulatim inæqualis. Stratum corticale amorphum vel subamorphum.

a. — *Medulla K e flavo ferrugineo rubens.*

449. **R. vulcania** Nyl. *Recogn. Ramal.* p. 53, ubi definitur. *R. polymorpha* var. *vulcania* Mont. = In Africa occidentali (ins. Canariis).

b. — *Medulla hydrate kalico non tincta.*

450. **R. Bourgæana** Mont., Nyl. *Recogn. Ramal.* p. 54, ubi definitur. = In Africa occidentali (ins. Canariis).

— F. **sublævigata** Nyl. *Recogn. Ramal.* p. 55, ubi definitur. = In eisdem insulis.

451. **R. evernioides** Nyl. *Prodr. Lich. Gall.* p. 47 et *Recogn. Ramal.* p. 55, ubi definitur; *Enum. Lich.* p. 100. *R. maciformis* Nyl. *Syn.* I, p. 297 pr. p. = In Asia (Palestina). — In Africa boreali (in regione Tunetana, Cyrenaica et insulis Canariis). — Etiam in Europa (Gallia occidentali et Lusitania).

452. **R. maciformis** Nyl. *Recogn. Ramal.* p. 56, ubi definitur; *Syn.* I, p. 297 pro altera parte. — *Parmelia maciformis* Delile. = In Africa boreali (Ægypto, *Lich. Ægypt.* p. 2).

453. **Ramalina crispatula** Despréaux, Nyl. *Recogn. Ramal.* p. 56, ubi definitur. = In Africa boreali (regione Tunetana et ins. Canaria).

454. **R. Webbiai** Mont., Nyl. *Recogn. Ramal.* p. 57 et *Syn.* I, p. 297, tab. VIII, fig. 31, ubi definitur; *R. Webbiana* Mont., Nyl. *Enum. Lich.* p. 100. = In Africa occidentali (ins. Fortunatis, Teneriffa et Canaria).

4. — Stirps *Ramalinæ scopulorum* Nyl.

a. — *Medulla K c flavo ferrugineo tinctorum*.

455. **R. scopulorum** Ach., Nyl. *Recogn. Ramal.* p. 58 et *Syn.* I, p. 292, pr. p., tab. VIII, fig. 29, ubi definitur; *Enum. Lich.* p. 99. — *Lichen scopulorum* Retzius. = In Africa occidentali (insula Madera, *Lich. Madère*, p. 188 et Fortunatis). — Etiam in Europa.

— Var. 1. **incrassata** Nyl. *Recogn. Ramal.* p. 59, ubi definitur. = In Africa (ins. Fortunatis). — Etiam in Europa (Gallia occidentali).

— Var. 2. **nematodes** Nyl. *Recogn. Ramal.* p. 59, ubi definitur; = In Africa (insula Canariensi, *Porto Sancto*).

456. **R. decipiens** Mont., Nyl. *Recogn. Ramal.* p. 59, ubi definitur; *Enum. Lich.* p. 99. = In Africa occidentali (ins. Canaria).

457. **R. subwebbiana** Nyl. *Recogn. Ramal.* p. 60, ubi definitur. = In Africa occidentali (ins. Canariis).

b. — *Medulla hydrate kalico non tinctorum*.

458. **R. cuspidata** Nyl. *Recogn. Ramal.* p. 60, ubi definitur; *R. scopulorum* var. *cuspidata* Ach. = In Africa orientali (ins. Sti Pauli, *Flora* 1886, p. 319) et occidentali (ins. Canariis). — In America boreali. — Etiam in Europa.

— F. **minor** Nyl. *Recogn. Ramal.* p. 61, ubi definitur. = In Africa occidentali (ins. Teneriffa).

— Var. **crassa** (Del.) Nyl. *Recogn. Ramal.* p. 61, ubi definitur. = In Africa occidentali (ins. Teneriffa). — Etiam in Europa (Gallia occidentali).

459. **R. vittata** Nyl. *Recogn. Ramal.* p. 62, ubi definitur. = In Oceania (ins. Philippinis).

460. **R. tingitana** Salzmann, Nyl. *Recogn. Ramal.* p. 62, ubi definitur. = In Africa boreali (Algeria et Tanger) = Etiam in Europa (ins. Corsica).

5. — Stirps *Ramalinæ pusillæ* Le Prév.

a. — *Stratum corticale amorphum*.

461. **R. pusilla** Le Prév., Nyl. *Recogn. Ramal.* p. 63 et *Syn.* I, p. 295, exclus. synonym., ubi definitur; *Enum. Lich.* p. 99. = In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 48) et occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afr.* p. 4 et *Lich. ins. Guin.* p. 9). — In Oceania (ins. Java, *Flora* 1866, p. 130).

b. — *Stratum corticale filamentose compositum*.

462. **R. tasmanica** Nyl. *Recogn. Ramal.* p. 64, ubi definitur. = In Oceania (Tasmania).

463. **R. inflata** Hook. fil. et Tayl., Nyl. *Recogn. Ramal.* p. 65; in *Syn.* I, p. 295 male sub *R. pusilla* ponitur. = In Oceania (ins. Auckland, *Lich. N. Zeland.* 1888, p. 22).



464. **Ramalina geniculata** Hook. et Tayl., Nyl. *Recogn. Ramal.* p. 65, ubi definitur. = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afr.* p. 4 et *Lich. ins. Guin.* p. 9). — In America tropica (Venezuela et Nova Granata) — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 22).

465. \***R. subpusilla** Nyl. *Recogn. Ramal.* p. 66, ubi definitur; medulla K + flavescens vel deinde nonnihil rubescens. = In Asia meridionali (India). — In Oceania (ins. Java).

466. **R. minuscula** Nyl. *Recogn. Ramal.* p. 66, ubi definitur. = In Asia boreali (Lawrencebay, Konyambay, etc., *Lich. Fr. Behr.* pp. 7, 19, 48 et 53). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61, Alaska, *ibid.* p. 85; Terra Nova, ubi frequens). — Etiam in Europa arctica.

— Var. **dendroidella** Nyl. *Recogn. Ramal.* p. 68, ubi definitur. = In Asia (Mantschuria).

467. \***R. pollinariella** Nyl. *Lich. Fr. Behr.* p. 7. **R. minuscula** var. *pollinariella* Nyl. *Recogn. Ramal.* p. 67, ubi definitur. = In Asia boreali (Lawrencebay). — In America boreali (Terra Nova). — Etiam in Europa arctica.

468. **R. intermedia** Del., Nyl. *Recogn. Ramal.* p. 68, ubi definitur. = In America boreali (Terra Nova).

469. **R. pumila** Mont., Nyl. *Recogn. Ramal.* p. 68, ubi definitur. = In Asia (China et India). — In America tropica (Brasilia).

470. **R. javanica** Nyl. *Recogn. Ramal.* p. 69, ubi definitur; **R. pumila** Mont., Nyl. *Flora* 1866, p. 130, ubi etiam definitur. = In Oceania (ins. Java).

471. **R. subgeniculata** Nyl. *Recogn. Ramal.* p. 69, ubi definitur. = In Africa occidentali (insula Madera).

472. **R. Panizzei** de Notar., Nyl. *Recogn. Ramal.* p. 70, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa (Liguria).

473. **R. abyssinica** Nyl. *Recogn. Ramal.* p. 71, ubi definitur. = In Africa orientali (Abyssinia).

#### TRIB. XVIII. — ROCCELLEI.

Gen. XLVI. — Roccella DC.

Subgen. I. — *Combea* de Notar.

*Dactylina mollusca* (Ach.) Nyl. *Flora* 1871, p. 299, est *Roccella* et vix subgeneris dignitatem superat.

474. **C. mollusca** Nyl. *Syn.* I, p. 257, tab. VIII, fig. 1, ubi definitur. — *Parmelia mollusca* Ach. — *Roccella mollusca* Nyl. *Enum. Lich.* p. 97 et *Flora* 1866, p. 199. Stratum corticale CaCl erythrinum evadit. = In Africa meridionali (promont. Bonæ Spei).

Subgen. II. — *Roccella* pr. dict. Nyl.

475. **R. tinctoria** DC., Nyl. *Syn.* I, p. 258, tab. VIII, fig. 2, ubi definitur; *Enum. Lich.* p. 97; *Flora* 1866, p. 199. Stratum corticale CaCl +, præsertim si Lichen juvenilis est. = In Asia meridionali (India). — In Africa boreali (Algeria, *Lich. Algér.* p. 309), orientali (ins. Borbonia, *Lich. exot.* p. 252 et Mauritii), meridionali (promont. Bonæ Spei) et occidentali (Senegambia et ins. Canariis). — In America media et meridionali (Peruvia, *Lich. exot.* p. 211; Chili, *Addit. Fl. chil.* p. 178). — Etiam in Europa meridionali (ins. Maris Mediterranei).

476. **R. hypomecha** Nyl. *Flora* 1866, pp. 199 et 200 in notula; **R. tinctoria** var.

*hypomecha* Ach., Nyl. *Syn.* I. p. 238 et *Lich. exot.* p. 252, ubi definitur; stratum corticale CaCl —. = In Africa tropica occidentali (Angola, *Lich. Angol.* p. 509, ubi, sicut in *Flora* loc. cit., excluditur statio ins. Mauritii quæ in *Syn.* indicatur; hæc referri debet ad præcedentem) et meridionali (promont. Bonæ Spei).

477. **Rocella Gayana** Mont., Nyl. *Syn.* I, p. 259, ubi definitur; *Enum. Lich.* p. 97 et *Flora* 1886, p. 200; thallus CaCl —. = In America meridionali (Chili, *Addit. Fl. chil.* p. 178).

478. **R. phycopsis** Ach., Nyl. *Syn.* I, p. 259, tab. VIII, fig. 3, ubi definitur; *Enum. Lich.* p. 97; *Flora* 1866, p. 199, thallus CaCl +, sed soredia CaCl —. = In Africa boreali (Algeria, *Lich. Algér.* p. 309), orientali (ins. Madagascar, *Lich. exot.* p. 252) et occidentali (ins. Ascensionis; ins. Canariis; ins. Madera, *Lich. Madère*, p. 188). — In America tropica (ins. Cuba, ubi viget forma cum f. *pygmæa* de Notar. fere conveniens, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 12; Peruvia, *Lich. exot.* p. 211). — Etiam in Europa.

— F. *pygmæa* de Notar. et Mont., Nyl. *Syn.* I, p. 259, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 43). = In Africa boreali (Algeria) et in America tropica (ins. Cuba, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 12).

479. **R. intricata** Mont., Nyl. *Syn.* I, p. 259, ubi definitur; *Enum. Lich.* p. 97 et *Flora* 1866, p. 200; thallus CaCl —. = In America meridionali (Chili, *Addit. Fl. chil.* p. 178).

480. **R. leucophæa** Tuck., Nyl. *Syn.* I, p. 260, tab. VIII, fig. 4, ubi definitur; *Flora* 1866, p. 200; thallus CaCl —. = In America septentrionali (California).

481. **R. fuciformis** Ach., Nyl. *Syn.* I, p. 260, tab. VIII, fig. 5, ubi definitur; *Enum. Lich.* p. 97; *Flora* 1866, p. 200. Stratum corticale CaCl —, sed soredia CaCl +. = In Asia Minori. — In Africa orientali (ins. Mauritii) et occidentali (ins. Caprarum, *Lich. ins. Princip.* p. 1 et *Lich. ins. Guin.* p. 9; ins. Canariis; ins. Madera, *Lich. Madère* p. 188). — In America media et meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 12; Peruvia, *Lich. exot.* p. 211) et meridionali (Chili, *Addit. Fl. chil.* p. 178). — Etiam in Europa.

482. **R. Montagnei** Bél., Nyl. *Syn.* I. p. 261, ubi definitur; *Enum. Lich.* p. 97 et *Flora* 1866, p. 199; stratum corticale CaCl +, sed soredia —; thallus K +. = In Asia meridionali (India). — In Africa orientali (ins. Madagascar, *Lich. exot.* p. 252) et occidentali (Angola et Mossanedes, *Lich. Angol.* p. 509 et *Lich. Afric.* p. 130). — In America tropica (Republ. Equatoria, *Prodr. Fl. N. Gran. Addit.* p. 536, in notula). — In Oceania (ins. Java, ubi viget forma angusta, quæ reperitur etiam in ins. Madagascar).

483. **R. sinensis** Nyl. *Syn.* I, p. 261, ubi definitur; *Flora* 1886, p. 199. stratum corticale CaCl —. = In Asia orientali (China).

## Series V. — PARMELIOIDEI.

### TRIB. XIX. — USNEEI.

#### Gen. XLVII. — CHLOREA Nyl.

484. **C. vulpina** Nyl. *Syn.* I, p. 274, tab. VIII, fig. 13, ubi definitur; *Enum. Lich.* p. 98. = In America boreali. — Etiam in Europa.

485. \* **C. californica** Lév., Nyl. *Lich. exot.* p. 217 in notula, ubi definitur; *Enum. Lich.* p. 98. *C. vulpina* var. *californica* Nyl. *Syn.* I, p. 274, ubi etiam definitur. = In America septentrionali (California).

486. **C. canariensis** Nyl. *Syn.* I, p. 275, ubi definitur; *Enum. Lich.* p. 98. — *Alectoria canariensis* Ach. = In Africa occidentali (ins. Canariis).

487. **C. Pœppigii** Nyl. *Syn.* I, p. 275, tab. VIII, fig. 14 et *Lich. Fueg.* p. 5, ubi definitur. — *Neuropogon Pœppigii* Nees et Flot. — *Evernia magellanica* Mont., Nyl. *Addit. Fl. chil.*

p. 178 et *Flora* 1860, p. 42; *Enum. Lich.* p. 99. — *Rhytidocaulon andinum* Nyl. *Lich. exot.* p. 262. = In America australi (Chili; Fuegia; freto Magellanico).

488. *Chlorea flexuosa* Nyl. *Syn.* I, p. 276, ubi definitur; *Enum. Lich.* p. 98. = In Asia meridionali (mont. Himalaya).

489. *C. cladonioides* Nyl. *Syn.* I, p. 276, ubi definitur; *Enum. Lich.* p. 98. = In eadem regione.

490. *C. Soleirolii* Nyl. *Syn.* I, p. 276, tab. VIII, fig. 15, ubi definitur; *Enum. Lich.* p. 98; *Prodr. Lich. Gall.* p. 45. — *Stereocaulon Soleirolii* Duf. = In Africa occidentali (ins. Canariis et in Sierra Leone). — Etiam in Europa (ins. Corsica).

Gen. XLVIII. — USNEA Hoffm.

*Usneæ* habent spermogonia similia ac in *Neuropogo* et *Chlorea*, *Flora* 1860, p. 42, et hæc describuntur in *Nyl. Syn.* I, p. 266.

491. *U. barbata* Fr., *Nyl. Syn.* I, p. 267, ubi definitur; *Enum. Lich.* p. 98. = Cosmopolita et in *Flora* 1855, p. 673 indicatur in Peruvia. Nunc ille vetus typus in plures proprias species dividitur, n<sup>os</sup> 491-503.

492. *U. florida* Hoffm.; *Usnea barbata* var. *florida* Nyl. *Syn.* I, p. 269, ubi definitur; *Enum. Lich.* p. 98. — *Lichen floridus* L. = In Asia (usque ad regionem alpinam montium Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 44), orientali (ins. Borbonia, *Lich. exot.* p. 252; ins. Mauritiï), meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (ins. San Thomé, *Flora* 1866, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 9; Huilla et serra da Chella, *Lich. Afric.* p. 130). — In America tota (Mexico, *Flora* 1858, p. 378 et *Mexic. Plant.* p. 2; ins. Martinica, *Lich. Antill.* p. 6; Peruvia et Bolivia, *Flora* 1874, p. 71, *Lich. exot.* p. 212 et *Lich. And. Boliv.* p. 371; Chili, *Addit. Fl. chil.* p. 178; Fuegia, *Lich. Fueg.* p. 25). — In Oceania (ins. Java; Australia; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245; ins. Taiti, *Lich. exot.* p. 237). — Etiam in Europa.

— *F. dasycera* Nyl. apud Cromb. *Falkl. isl.* p. 226, ubi definitur. = In America australi (ins. Maclovianis).

— Var. *strigosa* Ach., *Nyl. Syn.* I, p. 267, ubi definitur. *Usnea densirostra* Tayl. = In Africa orientali (Abyssinia).

493 \* *U. microcarpa* Pers., *Nyl. Syn.* I, p. 267, ubi definitur. = In Oceania (ins. Sandwich). — Etiam in Europa (Tyrolia).

494. *U. trullifera* Nyl. apud Cromb. *Chall. exped.* p. 224, ubi definitur. = In Oceania (ins. Taiti).

495. *U. hirta* Hoffm.; *U. barbata* var. *hirta* Nyl. *Syn.* I, p. 267, ubi definitur; *Enum. Lich.* p. 98. — *Lichen hirtus* L. = In America boreali et in Europa.

496. *U. xanthopoga* Nyl. *Lich. Campb.* p. 89, *Lich. Fueg.* p. 4 et *Lich. N. Zeland.* 1888, p. 23, ubi definitur. = In Africa orientali (ins. Madagascar, Cromb. *Lich. Madagasc.* p. 409). — In America australi (Staten Island, etc.). — In Oceania (ins. Campbell).

497. *U. dasypoga* Nyl.; *U. barbata* var. *dasypoga* Nyl., *Syn.* I, p. 268, ubi definitur; *Enum. Lich.* p. 98. Ab ea non differt *U. implexa* Ach., *Nyl. Prodr. Fl. N. Gran.* ed 1<sup>a</sup> p. 19 et ed. 2<sup>a</sup> p. 13 in notulis. = In Africa orientali (ins. Madagascar) et occidentali (ins. Madera, *Lich. Madère* p. 188). — In America tota (Alaska, *Lich. Fr. Behr.* p. 85; Chili, *Addit. Fl. chil.* p. 178). — In Oceania (ins. Java). — Etiam in Europa.

498. *U. dasypogoides* Nyl. apud Cromb. *Ins. Rodrig.* p. 433, ubi definitur. = In Africa orientali (ins. Rodriguez).

499. *U. plicata* Hoffm.; *U. barbata* var. *plicata* Nyl. *Syn.* I, p. 268, tab. VIII, fig. 9, ubi



definitur; *Enum. Lich.* p. 98. = Fere æque distributa ac *U. dasypoga* Nyl. in partibus plurimis telluris, modo adhuc frequentior; in America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed 1<sup>a</sup> p. 19 et ed. 2<sup>a</sup> p. 13) et meridionali (Chili, *Addit. Fl. chil.* p. 178). — In Oceania (archipel Mendana, *Lich. iles Marquis.* p. 301; ins. Taiti, *Lich. exot.* p. 237). — Etiam in Europa.

— *F. comosa* Ach., Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur.

— *F. himalayana* Nyl. *Syn.* I, p. 269, ubi definitur. — *U. himalayana* Bab. = In Asia (Himalaya).

500. **U. albopunctata** Nyl. apud Cromb. *Lich. Dillen.* p. 554, ubi definitur. = In Asia tropica (ins. Ceylonia).

501. **U. articulata** Hoffm.; *U. barbata* var. *articulata* Nyl. *Syn.* I, p. 268, ubi definitur; *Enum. Lich.* p. 98. = Vix aliter distributa quam *U. florida* Hoffm. — In Asia. — In Africa boreali (Algeria, *Lich. Alger.* p. 309 et *Prodr. Lich. Gall.* p. 44), meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 10; ins. Canariis). — In America meridionali (Chili, *Addit. Fl. chil.* p. 178). — In Oceania (ins. Java, *Flora* 1866, p. 130, *U. Vriesiana* Mont.; ins. Taiti, *Lich. exot.* p. 237; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 245, et 1888, p. 23; Nova Caledonia, *N. Caled. Lich. Exposit.* p. 40, *Syn.* p. 12 et in hoc posteriore loco definitur, *Flora* 1867, p. 194). — Etiam in Europa.

— Var *intestiniformis* Nyl. *Syn.* I, p. 268, ubi definitur; *U. barbata* var. *intestiniformis* Ach. = In America (Peruvia, *Flora* 1855, p. 673 et *Lich. exot.* p. 212).

502. \* **U. tenerior** Nyl. *Lich. N. Zeland.* 1888, p. 23, ubi definitur. = In Oceania (Nova Zelandia).

503. **U. ceratina** Ach.; *U. barbata* var. *ceratina* Schær., Nyl. *Syn.* I, p. 268, tab. VIII, fig. 8, ubi definitur; *Enum. Lich.* p. 98. = In zonis temperatis et calidis frequens. — In Asia meridionali (India, ubi viget forma peculiaris, *Syn.* I, p. 269). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 252), meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (Guinea, *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 43; ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 10; Huilla, *Lich. Afric.*, p. 130). — In America tropica (Mexico, *Flora* 1858, p. 378 et *Mexic. Plant.* p. 2; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 19 et ed. 2<sup>a</sup> p. 13; Peruvia et Bolivia, *Lich. And. Boliv.* p. 371, et *Flora* 1874, p. 71; Brasilia) et meridionali (Chili, *Addit. Fl. chil.* p. 178, *U. concreta* Mont., Nyl. *Syn.* p. 269, ubi definitur) et australi (Fuegia, *Lich. Fueg.*, p. 5). — In Oceania (ins. Java, *Flora* 1866, p. 130; Taiti, *Lich. exot.* p. 237; Nova Zelandia, *Lich. N. Zeland.* 1861 p. 245, et 1888, p. 23). — Etiam in Europa.

— Var. 1. **concreta** Nyl. *Syn.* I, p. 269, ubi definitur; *U. concreta* Mont. = In America meridionali (Chili).

— Var 2. **scabrosa** Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 19, ed 2<sup>a</sup> p. 13 in notulis, ubi definitur, statur erectiusculum aut juniorem respicit.

504. **U. cornuta** Flot.; *U. barbata* var. *cornuta* Nyl. *Syn.* I, p. 269, tab. VIII, fig. 7, ubi definitur. = In Asia meridionali (India). — In Africa orientali (Abyssinia). — Etiam in Europa (Germania).

505. **U. gracilis** Ach., Nyl. *Syn.* I, p. 270, ubi definitur; *Enum. Lich.* p. 98. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 252). — In America tropica (Nova Granata et Columbia, *Prodr. Fl. N. Gran.* ed 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 14).

506. **U. longissima** Ach., Nyl. *Syn.* I, p. 270, ubi definitur; *Enum. Lich.* p. 98. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2 et *Lich. Fr. Behr.* p. 74; Mantschuria; ex Asia Minori in Himalayam; India). — In Africa orientali (ins. Mauritii), meridionali (Promont. Bonæ Spei, et huc pertinent specimina hujus regionis in Ach. *Lich. Univ.* p. 626 data sub

*U. trichodea* Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 14 in notulis) et occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 9; ins. Canariis). — In America boreali et tropica (Mexico, *Flora* 1858, p. 378; India occidentali; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et 2<sup>a</sup> p. 14, ubi viget forma peculiaris ibi definita. — In Oceania (ins. Java, *Flora* 1866, p. 130, *U. rubiginosa* Mont.; Australia). — Etiam in Europa.

507. **U. trichodea** Ach., Nyl. *Syn.* I, p. 270, ubi definitur; *Enum. Lich.* p. 98; *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20, ed. 2<sup>a</sup> p. 14 in notulis. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asix*, p. 50). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 252; ins. Mauritii, meridionali (promont. Bonæ Spei) et occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 4 et *Lich. ins. Guin.* p. 10). — In America tropica (ins. Cuba). — In Oceania (ins. Java; archipel. Fidji, *Lich. exot.* p. 237, Nukahiva; Nova Scotia; Nova Caledonia, *Lich. N. Caled. Prodr.* p. 282, *Exposit.* p. 40 et *Syn.* p. 12, et in hoc posteriore loco definitur, *Flora* 1867, p. 194; Nova Zelandia).

508. \* **U. leucospilodea** Nyl., Nyl. et Cromb. *Lich. East. Asix* p. 50, ubi definitur. — In Asia orientali (Malacca).

509. **U. jamaicensis** Ach., Nyl. *Syn.* I, p. 270, tab. VIII, fig. 10, ubi definitur; *Enum. Lich.* p. 98. — *Parmelia jamaicensis* Eschw. = In America tropica et fere tota meridionali (Peruvia et Bolivia, *Lich. exot.* p. 212; Chili, *Addit. Fl. chil.* p. 178).

— **F. firma** Nyl. *Lich. exot.* p. 212. = In America tropica (Andibus Quitoënsibus).

510. **U. lævis** Nyl. *Syn.* I, p. 271, ubi definitur. — *Parmelia lævis* Eschw. = In Africa occidentali (Benguella). — In America tropica (mont. Chimborazo; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 14, ubi variat; Republica Equatoria et Brasilia).

511. **U. lacunosa** Wild., Nyl. *Syn.* I, p. 271 ubi definitur; *U. barbata* var. *lacunosa* Nyl. *Enum. Lich.* p. 98. = In Asia meridionali (India). — In America boreali (Michigan) et australi (Fuegia, *Lich. Fueg.* p. 5; Freto Magellanico). — In Oceania (Taïti, *Lich. exot.* p. 237).

512. **U. angulata** Ach., Nyl. *Syn.* I, p. 272, tab. VIII, fig. 11, ubi definitur; *Enum. Lich. Supplém.* p. 334. = In Africa orientali (ins. Madagascar). — In America septentrionali et tropica (Mexico, *Flora* 1858, p. 378; Venezuela; Paraguay) et meridionali (Chili, *Addit. Fl. chil.* p. 178). — In Oceania (Tasmania; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 23).

#### Gen. XLIX. — NEUROPOGON Nees et Flot.

513. **N. melaxanthus** Nyl. *Syn.* I, p. 272, tab. I, fig. 26 et tab. VIII, fig. 12, ubi definitur; *Enum. Lich.* p. 98. = In tota zona arctica. — In America meridionali (in Andibus, Peruvia, *Lich. exot.* p. 212; Bolivia, *Lich. And. Boliv.*, p. 371; Chili, *Addit. Fl. chil.* p. 178) et antarctica (Fuegia, *Lich. Fueg.* 4; insulis Maclovianis et New South Shetland). — In Oceania (Tasmania; Nova Zelandia ubi etiam lignicola fertilis, in Museo parisiensi).

— **F. sulphurea** Nyl. apud Cromb. *Kerguel. Revis.* p. 5. — *Usnea sulphurea* (Muell.) Th. Fr., Tuck. *Syn. North Americ. Lich.* I, p. 40. = In America arctica.

514. **N. ciliatus** Nyl. *Lich. N. Zeland.* 1888, p. 23, ubi definitur. *N. melaxanthus* var. *ciliatus* Nyl. *Lich. N. Zeland.* 1861, p. 245, ubi etiam definitur; *Flora* 1865, p. 237 in notula. = In Oceania (Nova Zelandia).

515. **N. trachycarpus** Stirt., Nyl. *Lich. Fueg.* p. 4, ubi definitur. = In Africa australi ins. Kerguelen). — In America australi (Fuegia; freto Magellanico).

516. **N. Taylori** Nyl. *Syn.* I, p. 273, ubi definitur. — *Usnea Taylori* Hook. fil. — *Alectoria Taylori* Nyl. *Enum. Lich.* p. 98 et *Addit. Fl. chil.* p. 178. — In Africa australi (ins. Kerguelen).

## TRIB. XX. — CETRARIEI.

Gen. L. — CETRARIA Ach. pr. p., Nyl.

517. **C. islandica** Ach., Nyl. *Syn.* I, p. 298, tab. VIII, fig. 32, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 443, thallus K =, CaCl =. — *Lichen islandicus* L. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2; Lawrence ins., *Lich. Fr. Behr.* p. 44) et meridionali (mont. Himalaya). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62), septentrionali (Carolina et Virginia), tropica in alpinis et australi (Cap Horn, *Lich. N. Zeland.* 1888, p. 144). — Etiam in Europa.

— Var. **platyna** Nyl. *Syn.* I, p. 299, ubi definitur; *Cetraria platyna* Ach. = Occurrit cum typo.

518. **C. crispa** Ach., Nyl. *Lich. Fr. Behr.* pp. 7, 19 et 53. *C. islandica* var. *crispa* Nyl. *Syn.* I, p. 299, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 443, reactio thalli est eadem ac in præcedente. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2; Lawrencebay, Konyambay, etc.). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61) et tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 16). — Etiam in Europa.

— F. 1. **inermis** Nyl. *Lich. Fr. Behr.* p. 19, ubi definitur. = In Asia arctica (Konyambay).

— F. 2. **subtubulosa** Fr., Nyl. *Syn.* I, p. 299, ubi definitur; *Flora* 1869, p. 443, eadem thalli reactio. = In Asia boreali (Lawrencebay et Behring ins., *Lich. Fr. Behr.* pp. 7 et 53).

— In America boreali. — Etiam in Europa boreali.

519. **C. Delisei** Nyl. *Lich. Lapp. Orient.* p. 144; *Flora* 1869, p. 444, thallus K =, CaCl =. *C. islandica* var. *Delisei* Schær., Nyl. *Syn.* I, p. 299 et *Lich. Scand.* p. 79, ubi definitur. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Lawrence ins., *Lich. Fr. Behr.* p. 44). — Etiam in Europa.

— Var. 1. **fastigiata** Nyl. in Norrlin *Lapp.* p. 323; *Flora* 1869, p. 443, eadem thalli reactio. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 10). — Etiam in Europa boreali.

— Var. 2. **submedia** Nyl. in Norrlin *Lapp.* p. 323. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 53). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61). — Etiam in Europa boreali.

520. **C. nigricans** Nyl. *Syn.* I, p. 299 et *Flora* 1880, p. 392, ubi definitur; *Flora* 1869, p. 443, thallus K =, CaCl =. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Konyambay, etc., *Lich. Fr. Behr.* pp. 19, 28, 44 et 53). — In America arctica (Port-Clarence, *Lich. Fr. Behr.* p. 61). — Etiam in Europa (Laponia).

521. **C. aculeata** Fr., Nyl. *Syn.* I, p. 300, ubi definitur; *Enum. Lich.* p. 400 et *Flora* 1869, p. 443, thallus K =, CaCl =. = Latius distribuitur quam *C. islandica* et in regionibus minus frigidis descendit. — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 61), meridionali (Chili, *Addit. Fl. chil.* p. 179) et antarctica (Fuegia, *Lich. Fueg.* p. 5; ins. Maclovianis; freto Magellanico, ubi viget forma peculiaris in Nyl. *Syn.* loc. citat. definita). — Etiam in Europa.

— Var. **acanthella** Ach., Nyl. *Syn.* I, p. 300, ubi definitur; *Flora* 1869, p. 443, eadem thalli reactio. = In America australi (Philip Bay, *Lich. Fueg.* p. 5). — Etiam in Europa.

522. **C. epiphorella** Nyl. *Lich. Fueg.* p. 20 et apud Cromb. *Falk. isl.* p. 227, ubi definitur. = In America australi (Sandy Point: freto Magellanico, *Lich. N. Zeland.* 1888, p. 144).

523. **C. odontella** Ach., Nyl. *Syn.* I, p. 301, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 443; thallus K =, CaCl =. = In America boreali ex Nyl. *Enum. Lich.*, sed Tuc-



kerman in *Syn. North Americ. Lich.* I, p. 29 dicit hanc speciem esse dubiam pro America arctica. — Etiam in Europa boreali (Scandinavia).

524. **Cetraria californica** Tuck., *Nyl. Syn.* I, p. 300 in notula et *Flora* 1867, p. 443, ubi definitur; thallus K =, CaCl =. = In America septentrionali (California).

Gen. LI. — PLATYSMA Hoffm. pr. p., Nyl.

1. — Stirps *Platysmatis complicati* Nyl.

525. **P. nivale** Nyl. *Syn.* I, p. 302, tab. VIII, fig. 33, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 442, thallus K =, CaCl =. — *Lichen nivalis* L. = In Asia boreali (Sibiria, *Lich. Middend.* pp. 2 et 4; Konyambay etc., *Lich. Fr. Behr.* pp. 49, 53 et 55; Kamtschatka). — In America arctica (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

526. **P. Tilesii** Nyl. *Lich. Fr. Behr.* p. 62). — *Cetraria Tilesii* Ach., *Nyl. Syn.* I, p. 302. = In America arctica (Port-Clarence). — Etiam in Europa.

527. **P. cucullatum** Hoffm., *Nyl. Syn.* I, p. 302, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 442, thallus K =, CaCl =. — *Lichen cucullatus* Bell. = In Asia boreali (Sibiria, *Lich. Middend.* pp. 2 et 4; Lawrencebay etc., *Lich. Fr. Behr.* pp. 7 et 52). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

528. **P. melalomum** Nyl. *Syn.* I, p. 303, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 442, thallus K =, CaCl =. = In Asia meridionali (mont. Himalaya).

529. **P. rhytidocarpum** Nyl. *Syn.* I, p. 303, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1869, p. 442, thallus K =, CaCl =. — *Cetraria rhytidocarpa* Mont. = In Oceania (ins. Java).

530. **P. megaleium** Nyl. *Flora* 1869, pp. 240 et 443; *P. subperlatum* Nyl. *Flora* 1866, pp. 430, 481 et 200, ubi definitur. — *Parmelia megaleia* Nyl. *Syn.* I, p. 378, ubi definitur; *Parmelia perforata* Mont. et v. d. Bosch. Thallus K ± flavet, CaCl ⊕, id est medulla erythrinosa evadit. = In Africa occidentali (Guinea, *Flora* 1862, p. 475, et 1863, p. 265, et *Lich. ins. Guin.* p. 44, ubi sporæ definiuntur). — In Oceania (ins. Java).

531. **P. collatum** Nyl. *Flora* 1887, p. 434 et apud Hue *Lich. yunn.* in *Bull. Soc. bot. France* 1887, p. 49, ubi definitur. Thallus K (CaCl) ⊕ erythrinose intus tinctus. = In Asia (China).

532. **P. complicatum** Nyl. *Syn.* I, p. 303, ubi definitur. — *Cetraria complicata* Laur. Thallus K =, CaCl =, *Flora* 1869, p. 442. = In Asia (China, Nyl. apud Hue *Lich. yunn.* p. 49). — Etiam in Europa (Bavaria et Austria).

533. **P. Oakesianum** Nyl. *Syn.* I, p. 304, ubi definitur; *Enum. Lich.* p. 400. Thallus K =, CaCl =, *Flora* 1869, p. 442. = In America boreali (Nova Anglia). — Etiam in Europa.

534. **P. citrinum** Nyl. *Syn.* I, p. 304, ubi definitur; *Enum. Lich.* p. 400; *Flora* 1866, p. 430, et 1869, p. 442. — *Cetraria citrina* Tayl. — *Platysma pallescens* Nyl. in *Syn.* I, p. 304 definitum et in *Enum. Lich.* p. 400 indicatum, *Lich. N. Zeland.* 1888, p. 450; *P. Teysmanni* Mont. et v. d. Bosch, Nyl. *Enum. Lich.* p. 400. Thallus K =, CaCl =. = In Oceania (ins. Java).

535. **P. nephromoides** Nyl. *Enum. Lich.* p. 400 et *Flora* 1869, pp. 442 et 443. In *Syn.* I, p. 305 cum sequente perperam jnngitur. Thallus K =, CaCl =. = In Asia meridionali (India).

536. **P. Stracheyi** Nyl. *Syn.* I, p. 305 et *Flora* 1869, p. 443, ubi definitur. — *Cetraria Stracheyi* Bab. Thallus K =, CaCl et melius K (CaCl) ⊕, id est medulla erythrinosa evadit. = In Asia meridionali (India).

537. **Platysma yunnanense** Nyl. apud Hue *Lich. yunn.* II, p. 29; *P. yunnense* Nyl. *Lich. N. Zeland.* 1888, p. 150, ubi definitur; *P. pallescens* Nyl. *Flora* 1887, p. 134, ubi etiam definitur. Thallus K flavet et medulla non tingitur. = In Asia (China).

538. **P. leucostigmeum** Nyl. *Syn.* I, p. 305, ubi definitur; *P. leucostigma* Nyl. *Enum. Lich.* p. 100. — *Cetraria leucostigma* Lév. Thallus K =, CaCl =, *Flora* 1869, p. 442. = In Asia meridionali (mont. Himalaya).

539. **P. Wallichianum** Nyl. *Flora* 1869, p. 443; *P. leucostigmeum* var. *Wallichianum* Nyl. *Syn.* I, p. 306, ubi definitur. — *Sticta Wallichiana* Tayl. — *Parmelia Wallichiana* Nyl. *Enum. Lich.* p. 105. Thallus K =, CaCl =, id est medulla erythrina evadit. = In Asia meridionali (Nepal).

540. **P. globulans** Nyl. *Flora* 1887, p. 134 et apud Hue *Lich. yunn.* I, p. 20, ubi definitur. Medulla CaCl aurantiaco tingitur. = In Asia (China).

#### 2. — Stirps *Platysmatis Richardsonii* Nyl.

541. **P. Richardsonii** Nyl. *Syn.* I, p. 306, ubi definitur; *Flora* 1869, p. 443. — *Cetraria Richardsonii* Hook. — *Evernia Richardsonii* Nyl. *Enum. Lich.* p. 99. — *Parmelia Richardsonii* Nyl. *Flora* 1860, p. 42. Thallus K =, CaCl =. = In America arctica (Port-Clarence, statio quæ in *Lich. Fr. Behr.* omissa datur in *Lich. ins. Guin.* p. 44).

#### 3. — Stirps *Platysmatis sæpincolæ* Hoffm.

542. **P. ciliare** Nyl. *Syn.* I, p. 308, ubi definitur; *Enum. Lich.* p. 100 et *Supplém.* p. 334; *Flora* 1869, p. 443, thallus K ±, CaCl =. — *Cetraria ciliaris* Ach. = In America boreali et tropica (Peruvia, *Lich. exot.* p. 213).

543. **P. orbatum** Nyl. *Flora* 1869, p. 442, ubi definitur in notula. Thallus K =, CaCl =. = In America septentrionali (California).

544. **P. sæpincola** Hoffm., Nyl. *Syn.* I, p. 308, ubi definitur; *Flora* 1869, p. 442, thallus K =, CaCl =. *P. sæpincolum* Nyl. *Enum. Lich.* p. 101. — *Lichen sæpincola* Ehrh. = In Asia boreali et meridionali (mont. Himalaya, ubi viget forma peculiaris). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 62 et 68 in notula; Terra Nova), meridionali (Chili, *Addit. Fl. chil.* p. 179) et australi (freto Magellanico). — In Oceania (ins. Auckland; Nova Zelandia, *Lich. N. Zeland.* p. 1888, p. 24 in notula). — Etiam in Europa.

— **F. fuscus** Nyl. *Lich. Middend.* p. 2 et *Lich. Fr. Behr.* p. 74, ubi definitur. = In Asia boreali (Sibiria).

545. **P. ulophyllum** Nyl. *Flora* 1869, p. 442. *P. sæpincola* var. *ulophyllum* Ach., Nyl. *Syn.* I, p. 309, ubi definitur; *Enum. Lich.* p. 101. Thallus K =, CaCl =, = Occurrit passim cum priore. In America australi (Fuegia, *Lich. Fueg.* p. 25). — Etiam in Europa.

546. **P. Fendlerii** Nyl. *Syn.* I, p. 309, ubi definitur; *Flora* 1869, p. 442, thallus K =, CaCl =. — *Parmelia Fendleri* Tuck., Nyl. *Enum. Lich.* p. 105. = In America boreali (Alabama).

547. **P. Fahlunense** Nyl. *Syn.* I, p. 309, ubi definitur; *Flora* 1869, p. 443, thallus K ±, CaCl =. — *Lichen Fahlunensis* L. — *Parmelia Fahlunensis* Ach., Nyl. *Enum. Lich.* p. 105; *Addit. Fl. chil.* p. 180. — In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 19, 27 et 55) et meridionali (mont. Himalaya). — In America septentrionali (Labrador, ubi viget forma peculiaris in Nyl. *Syn.* I, p. 310 descripta; Groenlandia, *Flora* 1862, p. 81) — Etiam in Europa.

#### 4. — Stirps *Platysmatis juniperini* Nyl.

548. **P. everniellum** Nyl. *Syn.* I, p. 311, ubi definitur; *Enum. Lich.* p. 100; *Flora* 1869, p. 442, thallus K =, CaCl =. = In Asia (mont. Himalaya).

549. **Platysma ambiguum** Nyl. *Syn.* I, p. 311, ubi definitur; *Enum. Lich.* p. 100; *Flora* 1869, p. 442, thallus K =, CaCl =. — *Cetraria ambigua* Bab. = In Asia (mont. Himalaya).

550. **P. juniperinum** Nyl. *Syn.* I, p. 312, tab. VIII, fig. 34, ubi definitur; *Enum. Lich.* p. 100; *Flora* 1869, p. 442, thallus K =, CaCl =. = In America boreali. — Etiam in Europa. — **F. viride** Nyl. *Syn.* loc. citat. — *Cetraria viridis* Schw. = In America boreali.

551. **P. Pinastri** Nyl. *Flora* 1869, p. 442. — *P. juniperinum* var. *Pinastri* Nyl. *Syn.* I, p. 312, ubi definitur; *Enum. Lich.* p. 100. — *Lichen Pinastri* Scop. = In Asia septentrionali (Sibiria, *Lich. Middend.* p. 2, et *Lich. Fr. Behr.* p. 74; Mantschuria). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68 in notula). — Etiam in Europa.

552. **P. aurescens** Tuck., Nyl. *Syn.* I, p. 313 et *Flora* 1869, p. 442, ubi definitur. Thallus K =, CaCl =. = In America boreali (Nova Anglia).

### 5. — Stirps *Platysmatis glauci* Nyl.

553. **P. glaucum** Nyl. *Syn.* I, p. 313, tab. VIII, fig. 35, ubi definitur; *Enum. Lich.* p. 100; *Flora* 1869, p. 442, thallus K ±, CaCl =. — *Lichen glaucus* L. = In Asia usque in Himalayam. — In Africa occidentali (ins. Teneriffa). — In America boreali (Alaska, *Lich. Fr. Behr.* pp. 75 et 85) et meridionali (Chili, *Addit. Fl. chil.* p. 179) et australi (freto Magellanico). — Etiam in Europa.

— **F. coralloideum** Nyl. *Lich. Fueg.* p. 25. — *Cetraria coralloidea* Wallr. = In America arctica (Fuegia). — Etiam in Europa.

— Var. **fallax** Ach., Nyl. *Syn.* I, p. 314, ubi definitur. = In America boreali. — Etiam in Europa.

554. **P. lacunosum** Nyl. *Syn.* I, p. 314, ubi definitur; *Enum. Lich.* p. 100; *Flora* 1869, p. 443, thallus K ±, CaCl =. = In America boreali (Alaska, *Lich. Fr. Behr.* pp. 75 et 85; Terra Nova, etc.).

— Var. 1. **atlanticum** Tuck., Nyl. *Syn.* loc. citat., ubi definitur. = In America boreali.

— Var. 2. **laciniatum** Nyl. *Flora* 1869, p. 443, thallus K =, CaCl =. = In America septentrionali (California).

555. **P. septentrionale** Nyl. *Syn.* I, p. 315 et *Flora* 1869, p. 443, ubi definitur; *Enum. Lich.* p. 100. *P. chrysantum* Nyl. *Enum. Lich. Supplém.* p. 334. — *Cetraria chrysantha* Tuck. Thallus K ±, CaCl =. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2; Lawrencebay, *Lich. Br. Behr.* p. 2) et orientali (Japonia). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62 et freto Kotzebue Sound).

## TRIB. XXI. ALECTORIEI.

### Gen. LII. — ALECTORIA Ach. pr. p., Nyl.

556. **A. Loxensis** Nyl. *Syn.* I, p. 278, tab. VIII, fig. 16, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1860, p. 42, et 1869, p. 444; thallus K =, CaCl =. — *Cornicularia Loxensis* Fée. = In Asia (China, Hue *Lich. yann.* in *Bull. Soc. bot. France* 1887, p. 20). — In America tropica (Mexico; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup>, p. 14; Peruvia, *Lich. exot.* p. 212 (*A. divergens* Nyl.) et p. 261 in notula; Bolivia, *Lich. And. Boliv.* p. 371).

— Var. **atroalbicans** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).

557. **A. divergens** Nyl. *Lich. Scanl.* p. 71, *Lich. Lapp. Orient.* p. 112, *Prodr. Fl. N.*



*Gran.* ed. 1<sup>a</sup> p. 20 et ed. 2<sup>a</sup> p. 14 in notulis et *Lich. Fr. Behr.* p. 73, ubi definitur; *Syn.* I, p. 278 pr. p., tab. VIII, fig. 17; *Enum. Lich.* p. 98; *Flora* 1869, p. 444, thallus K =, CaCl ±. — *Lichen divergens* Wahl. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2, ubi definitur etiam in notula et p. 4; Lawrencebay, etc., *Lich. Fr. Behr.* pp. 7 et 53). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62) et tropica (Mexico, *Flora* 1858, p. 378; Peruvia, *Flora* 1855, p. 673). — Etiam in Europa.

558. **Alectoria divergescens** Nyl. *Flora* 1886, p. 466, *Lich. Fr. Behr.* p. 75 et apud Hue *Lich. yunn.* in *Bull. Soc. bot. France* 1887, p. 20, ubi definitur. = In Asia (China).

559. **A. bicolor** Nyl. *Syn.* I, p. 279, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1869, p. 444, thallus K =, CaCl =. — *Lichen bicolor* Ehrh. = In Asia (mont. Himalaya). — In America arctica. — Etiam in Europa.

— Var. **melaneira** Ach., Nyl. *Syn.* loc. citat., ubi definitur. = Occurrit cum typo.

560. **A. cetrariza** Nyl. *Lich. Fr. Behr.* p. 75, ubi definitur. = In America septentrionali (Oregon).

561. **A. nigricans** Nyl. *Lich. Scand.* p. 71, ubi definitur; *A. divergens* Nyl. *Syn.* I, p. 278 pr. p.; *A. thulensis* Th. Fr., Nyl. *Flora* 1861, p. 372. Reactio in *Flora* 1869 p. 444 est erronea; vera datur apud Hue *Addend. ad Lich. europ.* p. 331, thallus K ±, K (CaCl) =. — *Cornicularia ochroleuca* var. *nigricans* Ach. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Lawrencebay, *Lich. Fr. Behr.* p. 7 (reactio), p. 44 (apothecia et sporæ) et p. 53). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

562. **A. jubata** Ach., Nyl. *Syn.* I, p. 280, tab. VIII, fig. 18 et 29, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1869, p. 444, ubi æque ac pro var. *prolixa* reactio datur erronea; vera invenitur apud Hue *Addend. Lich. europ.* p. 38: thallus K =, CaCl =. — *Lichen jubatus* L. = In Asia boreali (Mantschuria; Sibiria, *Lich. Fr. Behr.* p. 74) et meridionali (mont. Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 309 et *Prodr. Lich. Gall.* p. 45), et occidentali (ins. Canariis). — In America septentrionali et meridionali (Chili, *Addit. Fl. chil.* p. 178). — In Oceania (ins. Java). — Etiam in Europa.

563. **A. chalybeiformis** Ach., Nyl. *Flora* 1869, p. 444; *A. jubata* var. *chalybeiformis* Ach., Nyl. *Syn.* I, p. 280, ubi definitur. — *Lichen chalybeiformis* L. Thallus K =, CaCl = = In Asia boreali (Sibiria, *Lich. Middend.* p. 4). — Etiam in Europa.

— **F. lanestris** Ach., Nyl. *Lich. Scand.* p. 72, ubi definitur; *Flora* 1869, p. 444. — *Lichen lanestris* L. Thallus K =, CaCl =. = In Asia boreali (Sibiria, *Lich. Middend.* pp. 2 et 4). — In America boreali et tropica (Mexico, *Mexic. Plant.* p. 2). — Etiam in Europa.

564. **A. Fremontii** Tuck., Nyl. *Syn.* I, p. 280, ubi definitur; *Flora* 1869, p. 444, thallus K =, CaCl =. = In America septentrionali (California). — Etiam in Europa.

565. **A. sulcata** Nyl. *Syn.* I, p. 281, tab. VIII, fig. 20, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1869, p. 444, thallus K ±, CaCl =. — *Cornicularia sulcata* Lév. = In Asia meridionali (India, mont. Himalaya).

566. **A. ochroleuca** Nyl. *Syn.* I, p. 281, tab. VIII, fig. 21, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1869, p. 444, thallus K =, CaCl =. — *Lichen ochroleucus* Ehrh. = In Alpibus fere totius telluris; in Asia (Sibiria, *Lich. Middend.* p. 4; Lawrencebay, etc., *Lich. Fr. Behr.* pp. 7, 44 et 53; Japonia; Himalaya). — In America utraque (Port-Clarence, *Lich. Fr. Behr.* p. 62; Mexico, *Flora* 1858, p. 378 et *Mexic. Plant.* p. 2; Bolivia, *Lich. And. Boliv.* p. 371; Fuegia, *Lich. Fueg.* p. 25). — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 24). — Etiam in Europa.

567. **A. osteina** Nyl. *Lich. Middend.* p. 2, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1869, p. 444; *A. ochroleuca* f. *osteina* Nyl. *Syn.* I, p. 282, ubi etiam definitur. *Alectoria japonica* Tuck. Thallus K =, CaCl =. = In Asia boreali (Sibiria, *Lich. Fr. Behr.* p. 74). — In America tropica (Mexico, *Flora* 1858, p. 378, *Cornicularia lata* Tayl. et *C. læta* Tayl.).

568. **Alectoria sarmentosa** Ach., Nyl. *Enum. Lich.* p. 98; *Flora* 1869, p. 444; *A. ochroleuca* var. *sarmentosa* Nyl. *Syn.* I, p. 282, ubi definitur. Thallus K=, CaCl±. = In Asia boreali (Siberia, *Lich. Middend.* p. 4). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253) et occidentali (ins. Canariis; ins. Madera, *Lich. Madère* p. 188). — In America boreali et meridionali (Chili, *Addit. Fl. chil.* p. 178). — Etiam in Europa.

— **F. crinalis** Nyl. *Syn.* I, p. 283, ubi definitur; *Flora* 1869, p. 444; *A. crinalis* Ach. thallus K=, CaCl±. = Occurrit passim cum typo.

— Var. **cincinnata** Fr., Nyl. *Flora* 1869, p. 444; *A. ochroleuca* var. *cincinnata* Nyl. *Syn.* I, p. 282, ubi definitur. Thallus K=, CaCl±. = In America boreali (Terra Nova; Groenlandia). — Etiam in Europa boreali.

569. **A. virens** Tayl., Nyl. *Syn.* I, p. 283, ubi definitur; *Enum. Lich.* p. 98; *Flora* 1869, p. 444, thallus K=, CaCl=. = In Asia meridionali (India).

#### Gen. LIII. — DUFOURIA Ach. pr. p., Nyl.

Conferatur Nyl. *Flora* 1871, p. 298-299 : *Circa Dufouream animadversio*. Thallus K=, *Flora* 1869, p. 445 in notula.

570. **D. ramulosa** Hook., Nyl. *Recogn. Ramal.* p. 79, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 19). — In America boreali (Cumberland straits, Rocky mountains). — Etiam in Europa boreali (Spitzberg, *Flora* 1865, p. 212 in notula) et meridionali (Alpibus editissimis).

#### Gen. LIV. — DACTYLINA Nyl.

571. **D. arctica** Nyl. *Syn.* I, p. 286 et *Flora* 1862, p. 81, ubi definitur; *Enum. Lich.* p. 99; *Flora* 1869, p. 445 in notula, thallus K=, K (CaCl) ± erythrinus. — *Dufourea arctica* Hook. = In Asia boreali (Siberia, *Lich. Middend.* p. 4; Lawrence ins., *Lich. Fr. Behr.* p. 44). — In America arctica (Port-Clarence, *Lich. Fr. Behr.* p. 62; Groenlandia).

In *Flora* 1871, p. 299 indicatur cum signo dubii et sine loco *D. obtusata* (Oed.) Ach.

### TRIB. XXII. — PARMELIEI.

#### Gen. LV. — EVERNIA Ach.

572. **E. Prunastri** Nyl. *Syn.* I, p. 285, ubi definitur; *Enum. Lich.* p. 99; *Flora* 1869, p. 445, thallus K±, quæ reactio facilius conspicitur in parte thalli infera. — *Lichen Prunastri* L. = In Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 309; Ægypto, *Lich. Ægypt.* p. 2). — In America boreali et tropica (Peruvia, *Lich. exot.* p. 212, ubi viget forma soediata). — Etiam in Europa.

— **F. pendula** Nyl. *Enum. Lich.* p. 99. = In America. — Etiam in Europa.

573. **E. divaricata** Nyl. *Syn.* I, p. 285, tab. VIII, fig. 22, ubi definitur; *Enum. Lich.* p. 99; *Flora* 1869, p. 445, thallus K±. — *Lichen divaricatus* L. = In Asia minore et in mont. Himalaya. — Etiam in Europa.

574. **E. furfuracea** Mann., Nyl. *Syn.* I, p. 284, ubi definitur; *Enum. Lich.* p. 99; *Flora* 1869, p. 446 et *Mexic. Plant.* p. 2, thallus K±, K (CaCl) ±. — *Lichen furfuraceus* L. = In Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 309; Ægypto, *Lich. Ægypt.* p. 2). — In America præsertim boreali et etiam tropica (Mexico, ubi viget et typus, *Mexic. Plant.* p. 2, et insuper forma macrocarpa; Peruvia, regione Loxensi, *Lich. exot.* p. 212) et meridionali (Chili). — Etiam in Europa.

— **F. Cladonia** Tuck., Nyl. *Syn.* I, p. 285, ubi definitur. = In America septentrionali. 575. \* **Evernia intensa** Nyl. *Lich. Pyr. Orient.* p. 15; medulla CaCl + optime erythrinosa. = In America tropica (Mexico).

576. **E. deversa** Nyl. *Flora* 1885, p. 446 et *Lich. Fr. Behr.* p. 7, ubi definitur; thallus K ±, K (CaCl) ∓, hoc est medulla leviter erythrinosa. = In Asia boreali (Lawrencebay).

577. **E. thamnodes** Flot., Nyl. *Lich. Fr. Behr.* pp. 49 et 62; *E. mesomorpha* Nyl. *Lich. Scand.* p. 74 et *Lich. Middend.* p. 2, ubi definitur; *Flora* 1869, p. 445, thallus K =. = In Asia boreali (Sibiria; Kamtschatka; Konyambay). — In America boreali (Port-Clarence). — Etiam in Europa.

Gen. LVI. — EVERNIOPSIS Nyl. *Flora* 1860, p. 42.

578. **E. trulla** Nyl. *Flora* 1860, p. 42. — *Borrera trulla* Ach. — *Evernia trulla* Mont., Nyl. *Enum. Lich.* p. 99. = In America meridionali (Peruvia, *Lich. exot.* p. 212; Chili, *Addit. Fl. chil.* p. 178).

Gen. LVII. — PARMELIA Ach.

Subgen. I. — *Parmelia* pr. dicta.

1. — Stirps *Parmeliæ caperatae* Ach.

579. **P. sphærospora** Nyl. *Lich. exot.* p. 254 et *Syn.* I, p. 376, ubi definitur; *Enum. Lich.* p. 104. = In Africa orientali (ins. Borbonia et Madagascar) et meridionali (Promont. Bonæ Spei).

580. **P. caperata** Ach., Nyl. *Syn.* I, p. 376, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1885, p. 605 in notula, thallus K ∓, K (CaCl) ∓ nonnihil aurantiaco-erythrinosus. — *Lichen caperatus* L. = In regionibus minus frigidis totius telluris; in Asia (Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 54), orientali (Abyssinia) et meridionali (Promont. Bonæ Spei). — In America utraque (Mexico, *Flora* 1858 p. 379, et *Mexic. Plant.* p. 4; Bolivia, *Lich. exot.* p. 214; Chilli, *Addit. Fl. chil.* p. 180). — In Oceania (ins. Marianis et Sandwich, *Lich. exot.* p. 239; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 24). — Etiam in Europa.

— **F. ramealis** Nyl. *Lich. And. Boliv.* p. 373, ubi definitur. = In America tropica (Bolivia).

581. \* **P. hypomilta** Fée, Nyl. *Syn.* I, p. 377, et *Lich. exot.* p. 215, ubi definitur; *Enum. Lich.* p. 104. = In America tropica (Peruvia).

582. **P. soredica** Nyl. *Lich. Pyr. Orient.* p. 63 in notula, *Flora* 1885, p. 605, et 1886, p. 102, ubi definitur; medulla CaCl +. = In America boreali-occidentali (Saskatschawan).

583. **P. himalayensis** Nyl. *Flora* 1885, p. 605, ubi definitur; medulla CaCl +. = In Asia (Himalaya boreo-occidentali).

584. **P. splendidula** Nyl. *Flora* 1885, p. 605, thallus K<sub>+</sub>, CaCl =; *P. caperata* var. *splendidula* Del. = In America tropica (Peruvia).

585. **P. caperatula** Nyl. *Flora* 1885, p. 606; *P. caperata* var. *caperatula* Nyl, *Syn.* I, p. 377, ubi definitur. = In Oceania (Australia).

586. **P. subcaperatula** Nyl. *Flora* 1885, p. 606, et apud Cromb. *Lich. Austral.* p. 394, ubi definitur. Thallus K =, CaCl =. = In Oceania (Tasmania).

2. — Stirps *Parmeliæ sulphuratae* Nees et Flot.

587. **P. sulphurata** Nees et Flot., Nyl. *Syn.* I, p. 377, ubi definitur; *Enum. Lich.*



*Suppl.* p. 336; *Flora* 1869, p. 291; thallus K  $\pm$ , medulla K (CaCl) + aurantiaca. = In Asia orientali (Birmania et Malacca, Nyl. et Cromb. *Lich. East. Asia* pp. 49 et 51). — In America septentrionali (ins. Guadalupa, *Lich. Antill.* p. 7; ins. Cuba; Guyana), — In Oceania (ins. Java).

588. **Parmelia leucochlora** Tuck., Nyl. *Syn.* p. 392 et *Flora* 1885, p. 606, ubi definitur; *Flora* 1869, p. 293, thallus K  $\pm$ , medulla aurantiaca et K (CaCl) +, eadem reactio. = In America boreali (Arkansas).

589. **P. immiscens** Nyl. *Flora* 1885, p. 606, ubi definitur; thallus K  $\pm$ . = In America tropica (Mexico).

590. **P. persulphurata** Nyl. *Flora* 1885, p. 606, et apud Cromb. *Challeng. Expedit.* p. 219, ubi definitur. Thallus K  $\pm$ . = In America septentrionali (Louisiana) et tropica (ins. Cuba; Brasilia).

591. **P. aurulenta** Tuck., Nyl. *Syn.* I, p. 382 et *Flora* 1885, p. 606, ubi definitur. = In America septentrionali (Alabama, Virginia et Carolina).

592. **P. subaurulenta** Nyl. *Flora* 1885, p. 606, ubi definitur; thallus K  $\pm$ . = In Asia India, Chusan et Japonia).

593. **P. homogenes** Nyl. *Flora* 1885, p. 607, ubi definitur; thallus K  $\pm$ , CaCl =. = In Asia (India).

594. **P. isidiocera** Nyl. *Syn.* I, p. 382, ubi definitur. = In America arctico-occidentali.

### 3. — Stirps *Parmeliæ perlatae* Ach.

595. **P. perforata** Ach., Nyl. *Syn.* I, p. 377, ubi definitur; *Enum. Lich.* p. 404; *Flora* 1866, p. 200, et 1869, p. 291. — *Lichen perforatus* Jacq. Thallus K  $\mp$ , medulla e flavo ferrugineo-sanguinea, CaCl =. = In regionibus minus frigidis totius telluris. — In Africa meridionali (Portu Natali, *Lich. Port Natal*, p. 5) et occidentali (Mucha, Huilla, *Lich. Afric.* p. 130). — In America calidiore et temperata (Mexico, *Flora* 1858, p. 379, et *Mexic. Plant.* p. 3; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 21 ubi definitur, sed hinc auferri debet n.<sup>s</sup> 2666 e coll. Lindig., qui pertinet ad *P. Olivetorum*, infra n<sup>o</sup> 603; Bolivia. *Lich. exot.* p. 215; Brasilia, ubi viget forma latiloba, Nyl. *Syn.* I, p. 379, ad finem *P. hypotropæ*). — In Oceania (Nova Zelandia, *Flora* 1865, p. 337, *Lich. N. Zeland.* 1861, p. 249, et 1888, p. 25, ubi spermatia definiuntur; Taïti, *Lich. exot.* p. 239; Polynesia; ins. Auckland). — Etiam in Europa.

— Var. 1. **cetrata**, Nyl. *Syn.* I, p. 378 et *Lich. And. Boliv.* p. 373, ubi definitur; *P. cetrata* Ach. = In America boreali et meridionali (Bolivia).

— Var. 2. **ciliata** Nyl. loc. citat. = Occurrit passim cum typo.

596. \* **P. hypotropa** Nyl. *Syn.* I, p. 378, ubi definitur; *Flora* 1866, p. 200, et 1869, p. 291, medulla K +, CaCl -. Apud Cromb. *Lich. Dillen.* p. 567 distinguitur ut propria species et datur reactio K  $\pm$ , medulla flavo-rubra. = In America septentrionali tropica (Mexico et Texas, *Mexic. Plant.* p. 3, ubi datur mensura sporarum).

— F. **parmata** Nyl. apud Cromb. *Lich. Dillen.* pp. 568 et 577, ubi datur mensura sporarum.

597. **P. flavescens** Nyl. *Flora* 1885, p. 607, ubi definitur; *P. glaberrima* var. *flavescens* Krempelh., medulla K +, ut in *P. perforata*. = In America tropica (Brasilia).

598. **P. recipienda** Nyl. *Flora* 1885, p. 609, ubi definitur; thallus K  $\pm$ , K (CaCl)  $\mp$ , = In America tropica (Brasilia).

599. **P. perlata** Ach., Nyl. *Syn.* I, p. 379 et apud Morot *Journ. Bot.* 4<sup>er</sup> fev. 1888, p. 33, ubi definitur; *Enum. Lich.* p. 404; *Flora* 1869, p. 290. Lojka *Lichen univ.* n<sup>o</sup> 411. — *Lichen perlatus* L. Thallus K  $\pm$ , flavet et K (CaCl) =, sed in *Flora* 1878, p. 247 dicitur

medullam *P. perlatae*, necnon *ciliatae* et *crinitae* nonnihil erythrinosa K (CaCl) evadere. = Species vastissime distributa, sed e zona arctica exclusa. — In Asia (mont. Himalaya; Calcutta, *Flora* 1867, p. 3, isidiophora). — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 54), orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. San Thomé, *Flora* 1886, p. 171 et *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 10; Serra da Chella, *Lich. Afric.* p. 131). — In America utraque (Mexico, *Flora* 1858, p. 379, et *Mexic. Plant.* p. 3; Peruvia et Bolivia, *Lich. exot.* p. 215; Chili, *Addit. Fl. chil.* p. 180). = In Oceania (Polynesia, *Lich. exot.* p. 239; Nova Caledonia, *Lich. Nov. Caled. Prodr.* p. 282, *Exposit.* p. 43, *Syn.* p. 17, et in hoc posteriore loco definitur, *Flora* 1867, p. 194; Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 24, ubi sporæ definiuntur). — Etiam in Europa.

— Var. 1. **sorediata** Schaer., Nyl. *Syn.* loc. citat., ubi definitur; *Flora* 1885, p. 608 (spermatia). = Distributa æque ac typus.

— Var. 2. **laciniata** Nyl. *Lich. îles Marquis.* p. 301. = In Oceania (archipel. Mendana).

— Var. 3. **ciliata** DC., Nyl. *Syn.* I, p. 380, ubi definitur; *Enum. Lich.* p. 104. In *Flora* 1877, p. 233, hæc habetur ut propria species et cum ea jungitur *P. crinita*; in *Flora* 1885, p. 608 dicitur eam ægre differre a *P. crinita*; in *Flora* 1886, p. 171 perperam distinguitur a *P. perlata* et a *P. crinita*, nam in *Lich. ins. Princip.* p. 2 affirmatur hanc *ciliatam* a *P. perlata* specie non differre, ideoque illa sistit *P. perlatae* formam vel varietatem. Thallus K  $\pm$  K (CaCl) =. = Occurrit cum typo, sed rarius. — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. San Thomé, *Flora* 1886 p. 171 et *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 10, ubi sporæ definiuntur). — In America utraque (Mexico, *Flora* 1858, p. 379). — In Oceania (ins. Sandwich et Nova Zelandia). — Etiam in Europa.

— — **F. excrescens** Nyl. *Flora* 1886 et *Contrib.* locis citat. = In Africa occidentali (ins. San Thomé)

600. **Parmelia crinita** Ach., Nyl. *Syn.* I, p. 380 et apud Morot *Journ. Bot.* loc. citat., ubi definitur; *Lich. exot.* p. 215 in notula; *Enum. Lich.* p. 104; *Flora* 1885, p. 608, ubi spermatia definiuntur; *Flora* 1869, p. 291, thallus K  $\pm$  et K (CaCl) =. = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 10, ubi sporæ et spermatia definiuntur; ins. Principis, *Lich. ins. Princip.* p. 2), — In America tropica ubi non est rara (Mexico, *Flora* 1858, p. 379; Brasilia), — Etiam in Europa.

601. **P. comparata** Nyl. *Flora* 1869, p. 290, ubi sporæ definiuntur. Medulla K + flavet, CaCl —. = Late distribuitur in terris exoticis et viget præsertim in America boreali. — Etiam in Europa (in Gallia variat medulla flavescente, *P. xanthomyela* Nyl. *Flora* 1874, p. 306).

602. **P. cetrarioides** Nyl. apud Morot *Journ. Bot.* 1888, p. 33, ubi definitur. *P. perlata* var. *cetrarioides* Del., Nyl. *Syn.* I, p. 380; *Flora* 1869, p. 290, thallus K  $\pm$  flavescit vel aurantiaco flavescit, CaCl = et in *Lich. Pyr. Orient.* p. 16 medulla K (CaCl) dicitur nonnihil erythrinosa. = In America tropica (Peruvia, *Flora* 1855, p. 673 et *Lich. exot.* p. 215). — In Oceania (Polynesia, *Lich. exot.* p. 239; archipel. Mendana, *Lich. îles Marquis.* p. 301). — Etiam in Europa.

603. **P. Olivetorum** Nyl. apud Morot *Journ. Bot.* 1888, p. 33, ubi definitur. *P. perlata* var. *Olivetorum* Ach. pr. p., Nyl. *Syn.* I, p. 379; *Flora* 1866, p. 200 in notula; *Flora* 1869, p. 289, et *Lich. Pyr. Orient.* p. 16, thallus K  $\pm$ , CaCl =, id est medulla erythrinosa. = In Africa meridionali (Portu Natali, *Lich. Port Natal.* p. 5). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 538, ubi sporæ definiuntur). — Etiam in Europa.

604. **P. latissima** Fée, Nyl. *Syn.* I, p. 380, ubi definitur; *Flora* 1885 p. 603, *P. glaber-*

*rima* Krempelh., ubi sporæ et spermatia definiuntur; *Lich. Pyr. Orient.* p. 16 in notula; *Flora* 1875, p. 448; id 1866, p. 200, medulla CaCl —; 1869, p. 291, medulla *P. latissimæ* K flavescit et *P. glaberrimæ* flavo-rubricose tingitur vel sanguineo-maculatur. = In Africa orientali (ins. Maurilii, *P. cristifera* Tayl.; ins. Seychellis) et meridionali). — In America meridionali calida (Mexico, *Mexic. Plant.* p. 4; Antillis; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 21, ubi definitur; Peruvia, *Flora* 1874, p. 72; Brasilia). — In Oceania (archipel. Mendana, ins. Sandwich). In *Syn. loc.* citat. delenda est habitatio « Java » quæ pertinet ad *Platysma megaleium* Nyl., supra n° 530, *Flora* 1866, p. 130 et *Mexic. Plant.* p. 3 in notulis.

— Var. **sorediata** Nyl. *Syn. loc.* citat. et *Lich. Madère* p. 188. = In Asia et in Africa occidentali (ins. Madera).

605.\* **Parmelia tabacina** Mont., Nyl. et Cromb. *Lich. East. Asia* pp. 49 et 51. = In Asia orientali (Birmania et Malacca).

606. **P. Tinctorum** Despréaux, Nyl. *Lich. Pyr. Orient.* p. 16 in notula, ubi definitur. Thallus CaCl  $\mp$ , medulla fit valde erythrinosa. = Late distribuitur in terris exoticis. — In Asia orientali (Malacca et Japonia, Nyl. et Cromb. *Lich. East. Asia* pp. 51 et 66; China). — In Africa occidentali (ins. San Thomé, *Contrib. da Flora d'Afric.* p. 5; ins.; San Thomé et ins. Principis, *Lich. ins. Guin.* p. 10; Serra da Chella, *Lich. Afric.* p. 131). — In Oceania (Australia, *Lich. N. Zeland.* 1888, p. 26 in notula; Nova Caledonia, *P. Olivetorum* Nyl. *Syn. Lich. N. Caled.* p. 18, ubi definitur et *Flora* 1867, p. 194. Videtur esse etiam *P. perforata* Nyl. *Exposit. Lich. N. Caled.* p. 43, nam pro utraque specie numerus coll. Vieill. est idem, 1805).

607. **P. præperlata** Nyl. *Lich. S<sup>u</sup> Pauli* p. 6 et *Flora* 1886, p. 319, ubi definitur. Thallus K  $\ddagger$  flavet extus intusque. = In Africa orientali (ins. S<sup>u</sup> Pauli).

608. **P. antillensis** Nyl. *Lich. Antill.* p. 7, ubi definitur; *Flora* 1869, p. 291. Thallus K  $\ddagger$ , supra flavo-virescit et medulla miniato-rubet; hæc CaCl —. = In America tropica (ins. Guadalupa).

609. **P. submarginalis** Mich., Nyl. *Flora* 1885, p. 607, ubi definitur; *P. microcarpa* Pers., Nyl. *Syn.* I, p. 380 sub var. *ciliata* Schaer.; *P. perlata* var. *ciliata* (DC.) f. *macrocarpa* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 21. Hæc *P. microcarpa* Pers. ponitur etiam sub. *P. consorte* Nyl. infra n° 664. Thallus K  $\pm$ , CaCl = et K (CaCl) =. In America septentrionali (Carolina) et tropica (Brasilia).

610. **P. corniculans** Nyl. *Flora* 1885, p. 607, ubi definitur Thallus K  $\pm$ , K (CaCl)  $\mp$ , medulla bene erythrinosa apparet. = In Oceania (ins. Java).

611. **P. abyssinica** Nyl. *Flora* 1885, p. 607, ubi definitur. Thallus K  $\pm$ . = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 51). — In Africa orientali (Abysinia).

612. **P. subrugata** Nyl. *Flora* 1885, p. 608, et 1869, p. 291, ubi definitur; *P. latissima* var. *subrugata* Nyl. *Mexic. Plant.* p. 3, ubi definitur in notula. Thallus K  $\pm$ , CaCl  $\mp$ , medulla erythrinosa fit. = In America tropica (Brasilia).

613. **P. nilgherrensis** Nyl. *Flora* 1885, p. 608 et apud Morot *Journ. Bot.* 1888, p. 34, ubi definitur; *Flora* 1869, p. 291, et 1874, p. 247; *Lich. Pyr. Orient.* p. 16 in notula. Thallus K  $\pm$  flavet, K (CaCl)  $\mp$ , medulla erythrinosa evadit. = In Asia meridionali (India). — In Africa meridionali (Promont. Bonæ Spei). — In America tropica (Bolivia). — In Oceania (Australia). — Etiam in Europa (Bavaria, Arn. *Exsicc.* 136<sup>b</sup>).

614. **P. saccatiloba** Tayl., Nyl. *Flora* 1885, p. 608 et apud Morot *Journ. Bot.* 1888, p. 33, ubi definitur; *P. latissima* Krempelh., Nyl. *Lich. Pyr. Orient.* p. 16 in notula; *P. Zollingeri* Hepp, Nyl. *Flora* 1869, p. 291, ubi sub *P. hypotropa* ponitur; *P. perlata* Mont. et v. d. Bosch. *Jav.* p. 16. Medulla K flavet, CaCl dilute vel obsolete erythrinose



reagit. = Late distribuitur in America tropica (Mexico, Brasilia). — In Oceania (ins. Java). — Etiam in Eurōpa (Gallia occidentali; Hispania, *Flora* 1875, p. 448).

615. **Parmelia martinica** Nyl. *Flora* 1885, pp. 609 et 614, ubi definitur. Thallus K  $\dagger$ , CaCl  $\mp$ , medulla erythrinose reagit. = In America tropica (ins. Martinica).

616. **P. neo-caledonica** Nyl. *Flora* 1885, p. 609, ubi definitur; *P. latissima* Nyl. *Syn. Lich. N. Caled.* p. 48, ubi etiam definitur; *Flora* 1867, p. 194. Medulla K —, vel obsolete flavescit, CaCl —. = In Oceania (Nova Caledonia).

617. **P. mesogenes** Nyl. *Flora* 1885, p. 609 ubi definitur. Thallus K  $\pm$  flavet, CaCl =. = In America tropica (Mexico).

618. **P. internexa** Nyl. *Flora* 1885, p. 609, ubi definitur. Thallus K  $\dagger$  flavet. = In America tropica (Brasilia).

619. **P. eciliata** Nyl. *Mexic. Plant.* p. 3 et *Flora* 1885, p. 610, ubi definitur; *P. crinita* var. *eciliata* Nyl. *Flora* 1869, p. 291, ubi etiam definitur. Medulla K  $\dagger$  flavet. = In America tropica (Mexico).

620. **P. cristata** Nyl. *Flora* 1869, p. 291, et 1885, p. 610, ubi definitur. Medulla flavescens K lutescit, CaCl —. = In America tropica (Venezuela).

621. **P. appendiculata** Fée, Nyl. *Syn.* I, p. 381, ubi definitur; *Flora* 1885, p. 610; *Enum. Lich.* p. 404. Medulla K flavescit. = In Africa orientali (ins. Borbonia).

622. **P. urceolata** Eschw.; *P. crinita* var. *urceolata* Nyl. *Syn.* I, p. 381, ubi definitur. = In America tropica (Brasilia). — In Oceania (Australia, *Syn. Lich. N. Ca'ed.* p. 18 in notula).

623. **P. abnuens** Nyl. *Flora* 1885, p. 610, ubi definitur. Medulla CaCl  $\dagger$ , et K (CaCl) magis erythrinosa evadit. = In America tropica (Brasilia; Uruguay).

624. **P. tenuirimis** Tayl., Nyl. *Flora* 1885, p. 610, ubi definitur; *Flora* 1866, p. 200, et 1869, p. 290. Medulla K miniato-rubet, CaCl —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 25, ubi sporæ et spermatia definiuntur; Tasmania)

— Var. **erimis** Nyl. *Flora* 1885, loc. citat., et *Lich. N. Zeland.* 1888, p. 25, ubi definitur. = In Oceania (Nova Zelandia).

625. \***P. rudior** Nyl. *Lich. N. Zeland.* 1888, p. 25, ubi definitur. = In Oceania (Nova Zelandia).

626. **P. præsignis** Nyl. *Lich. Pyr. Orient.* p. 17 in notula et *Flora* 1885, p. 610, ubi definitur. Medulla CaCl erythrinosa. = In America tropica (Mexico).

627. **P. pluriformis** Nyl. *Syn.* I, p. 381 et *Flora* 1869, pp. 417 et 289, ubi definitur. Medulla K —, CaCl  $\dagger$  erythrinosa. = In America tropica (Brasilia).

628. **P. subsumpta** Nyl. *Flora* 1869, pp. 417 et 291, ubi definitur. Medulla K  $\dagger$  flavet et CaCl —. = In America tropica (Brasilia).

629. **P. disparilis** Nyl. *Syn.* I, p. 381, ubi definitur; *Flora* 1869, p. 291. Medulla K  $\dagger$  flavescit, CaCl —. = In Africa orientali (ins. Madagascar).

630. **P. ricasolioides** Nyl. *Flora* 1887, p. 135 et apud Hue *Lich. Yunn.* p. 21, ubi definitur. Medulla K e flavo ferrugineo rubet. = In Asia (China).

631. **P. meiophora** Nyl. *Lich. ins. Guin.* p. 45, ubi definitur; cfr. Hue *Lich. Yunn.* II, p. 31. Thallus K e flavo ferrugineo-croceo tingitur. = In Asia (China, prov. Yun-nan).

#### 4. — Stirps *Parmeliæ tiliaceæ* Ach.

632. **P. tiliacea** Ach., Nyl. *Syn.* I, p. 382, ubi definitur; *Enum. Lich.* p. 404; *Flora* 1866, p. 200, et 1869, p. 289, medulla CaCl erythrinosa evadit. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 51) et meridionali (mont. Himalaya et Nilgherrensibus). — In Africa boreali, orientali (ins. Madagascar), meridionali (Portu Natali, *Lich.*

*Port Natal*, p. 5) et occidentali (ins. Canariis). — In America boreali usque in zonam æquinoctialem (Mexico, *Flora* 1858, p. 379) et in meridionali usque in ins. Juan Fernandez (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (Java; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 26). — Etiam in Europa.

633. **Parmelia galbina** Ach., Nyl. *Syn.* I, p. 383, ubi definitur. = In America boreali.

634. **P. scortea** Ach., Nyl. *Flora* 1869, p. 289; *P. tiliacea* var. *scortea* Nyl. *Syn.* I, p. 383, ubi definitur. Medulla CaCl +. = In Africa boreali (Algeria, *Lich. Algér.* p. 310). — Etiam in Europa.

635. **P. carporrhizans** Tayl., Nyl. *Syn.* I, p. 384, ubi definitur; *Flora* 1869, p. 289; *P. sinuosa* var. *hypothrix* Nyl. *Lich. Algér.* p. 322 et *Prodr. Lich. Gall.* p. 53, ubi etiam definitur; *P. hypothrix* Nyl. *Enum. Lich.* p. 104. Medulla K —, CaCl +. = In Africa boreali (Algeria) et occidentali (ins. Canariis). — Etiam in Europa.

636. **P. atrichoides** Nyl. apud Cromb. *Lich. capens.* p. 167, ubi definitur. Thallus CaCl ±. Affinis est *P. atrichæ* Nyl. *Lich. Pyr. Orient.* p. 17. = In Africa meridionali (Promont. Bonæ Spei).

637. **P. molybdiza** Nyl. apud Cromb. *Lich. capens.* p. 167, ubi definitur. Thallus CaCl ±. = In Africa meridionali (Promont. Bonæ Spei).

638. **P. adducta** Nyl. *Flora* 1885, p. 610, ubi definitur; medulla K —, CaCl —. = In Asia meridionali (India).

639. **P. aptata** Krempelh., Nyl. *Flora* 1869, p. 291; medulla K —, CaCl —. = In Asia (mont. Himalaya, Scoizka; saxicola).

640. **P. subtiliacea** Nyl. *Flora* 1885, p. 614 et *Lich. N. Zeland* 1888, p. 26, ubi definitur; thallus K ±, CaCl =. = In Oceania (Australia, ubi viget forma definita in *Flora* 1886, p. 324; Nova Zelandia).

641. **P. sublævigata** Nyl. *Flora* 1885, p. 611, et 1869, p. 292, ubi definitur; *P. tiliacea* var. *sublævigata* Nyl. *Syn.* I, p. 383, ubi etiam definitur, medulla K + e flavo rubricosa, CaCl —. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 51) et meridionali (India). — In Africa orientali (ins. Seychellis et Madagascar), meridionali (Portu Natali, *Lich. Port Natal* p. 5, ubi sporæ definiuntur) et occidentali (Serra da Chella, *Lich. Afric.* p. 130). — In America utraque, septentrionali (*P. tiliacea* Tuck. *Exsicc.* 70) et tropica (Gualupa, *Lich. Antill* p. 8, ubi sporæ definiuntur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24, ed. 2<sup>a</sup> p. 22 et *Addit.* p. 538, ubi sporæ denuo definiuntur).

642. \* **P. livida** Tayl., Nyl. *Syn.* I, p. 383, ubi definitur; *Enum. Lich.* p. 104, *Flora* 1866, p. 200, 1869, p. 292, et 1885, p. 611; medulla K e flavo rubricosa, CaCl —; vix varietas præcedentis. = In America septentrionali (Nova Aurelia).

643. **P. cubensis** Nyl. *Flora* 1885, p. 611, ubi definitur; thallus K ± dilute flavescens, medulla receptaculi croceæ tincta; medulla K (CaCl) + aurantiaca. = In America tropica (ins. Cuba).

644. **P. meizospora** Nyl. *Flora* 1869, p. 292, et 1885, p. 611, ubi definitur; *P. tiliacea* var. *meizospora* Nyl. *Syn.* I, p. 383, ubi etiam definitur. Medulla K e flavo rubricosa, CaCl =. = In Asia meridionali (India).

645. **P. amazonica** Nyl. *Flora* 1885, p. 611, ubi definitur; medulla K + flavet. = In America tropica (Brasilia).

646. **P. insinuans** Nyl. *Flora* 1885, p. 612, ubi definitur. Thallus K ±, CaCl =. = In America tropica.

647. **P. subfuscescens** Nyl. *Flora* 1885, p. 613, ubi definitur. Thallus K =. = In Africa orientali (ins. Mauritii).

648. **P. subsinuosa** Nyl. *Flora* 1885, p. 613, ubi definitur. Thallus K ±, CaCl =, K (CaCl) ±, medulla erythrinose tingitur. = In America tropica.

649. \* **Parmelia granatensis** Nyl. *Flora* 1885, p. 613, ubi definitur. = In America tropica (Nova Granata).
650. **P. subdissecta** Nyl. *Flora* 1882, p. 452, et Nyl. et Cromb. *Lich. East. Asia* p. 51, ubi definitur. Medulla K (CaCl) erythrinose tingitur. = In Asia orientali (Malacca). — In America tropica (Guyana gallica).
651. **P. atrichella** Nyl. *Flora* 1885, p. 614, ubi definitur. Medulla CaCl erythrinosa evadit. = In America tropica (Nova Granata).
652. **P. scortella** Nyl. *Flora* 1885, p. 615, ubi definitur. Medulla CaCl etiam erythrinose reagit. = In America septentrionali (Texas).
653. **P. lævigata** Ach., Nyl. *Syn.* I, p. 384 et *Flora* 1869, p. 291, *Lich. Antill.* p. 8, *Syn. Lich. N. Caled.* p. 18, ubi definitur; *Flora* 1866, p. 200; thallus K  $\pm$ , K (CaCl)  $\mp$ . = Species vastissime distributa, sed zonas frigidas fugiens. — In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (ins. San Thomé, *Flora* 1886, p. 171, *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 10). — In America utraque (Mexico, *Mexic. Plant.* p. 3; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 582). — In Oceania (Nova Caledonia, *Flora* 1867, p. 194, *Expos. Lich. N. Caled.* p. 43). — Etiam in Europa *P. hispidula* Ach. est *P. lævigata* Ach. juvenilis.
654. **P. neohollandica** Nyl. *Flora* 1886, p. 324 in notula, ubi definitur; thallus K  $\pm$ , medulla lente ferruginascit. = In Oceania (Australia).
655. **P. brasiliiana** Nyl. *Flora* 1885, p. 611, ubi definitur; thallus K  $\mp$ , medulla vix mox tingitur, sed deinde sensim nonnihil lurido-ferruginee maculatur. = In America tropica (Brasilia).
656. **P. boliviana** Nyl. *Flora* 1885, p. 612, ubi definitur. Thallus K  $\pm$ , CaCl =. = In America tropica (Bolivia).
657. **P. peruviana** Nyl. *Flora* 1885, p. 613, ubi definitur. Est fors varietas prioris. = In America tropica (Peruvia) et australi (Patagonia, *Lich. Fueg.* p. 25).
658. **P. texana** Tuck., Nyl. *Flora* 1869, p. 292, et 1885, p. 612, ubi definitur. In *Syn.* I, p. 383, sub *P. tiliacea* Ach. sumitur et definitur. Medulla K —, CaCl —. = In America utraque (Nova Granata, *P. subtiliacea* var. *texana* Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 539). — In Oceania (Nova Zelandia).
659. **P. bahiana** Nyl. *Flora* 1885, p. 612, ubi definitur. Thallus K  $\pm$ , CaCl = et K (CaCl)  $\mp$ , medulla leviter erythrinosa. = In America tropica (Brasilia).
660. **P. chilena** Nyl. *Flora* 1885, p. 612, ubi definitur. Est fors subspecies præcedentis. = In America meridionali (Chili).
661. **P. caroliniana** Nyl. *Flora* 1885, p. 614, ubi definitur. Thallus K  $\pm$ , CaCl =. = In America septentrionali (Carolina).
662. **P. capensis** Nyl. *Flora* 1885, p. 613, ubi definitur. Thallus K  $\pm$ , CaCl =, K (CaCl)  $\mp$ . = In Africa meridionali (Promont. Bonæ Spei).
663. **P. confluescens** Nyl. *Lich. S<sup>u</sup> Pauli* p. 6 et *Flora* 1886, p. 319, ubi definitur. Thallus K  $\pm$ , K (CaCl)  $\mp$ , medulla fit leviter erythrinosa. = In Africa orientali antarctica (ins. S<sup>u</sup> Pauli).
664. **P. consors** Nyl. *Flora* 1869, p. 290, et 1885, p. 613, ubi definitur; *P. microcarpa* Pers. Thallus K  $\pm$ , CaCl =. In America tropica (Brasilia et alibi).
665. **P. homotoma** Nyl. *Flora* 1885, p. 613, ubi definitur; thallus K  $\pm$ , CaCl =. = In America tropica (Brasilia).
666. **P. costaricensis** Nyl. *Flora* 1885, p. 614, ubi definitur; thallus K  $\pm$  et K (CaCl) —. = In America tropica (Costa-Rica).
667. **P. sinuosa** Ach., Nyl. *Enum. Lich.* p. 104; *Flora* 1869, p. 292; *Lich. Antill.* p. 8; *P. lævigata* var. *sinuosa* Nyl. *Syn.* I, p. 384, ubi definitur. — *Lichen sinuosus* Sm. — *Parmelia*



*Despreauxii* Del.; *P. papyrinea* Fée. Thallus K  $\mp$ , medulla e flavo rubricosa evadit, CaCl =. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255). — In America utraque (Mexico, *Flora* 1858, p. 379, et *Mexic. Plant.* p. 3; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 22; Guadalupa, *Lich. Ant.* p. 8 in notula; Peruvia et Bolivia, *Lich. exot.* p. 215 et *Flora* 1855, p. 674; Chili, *Addit. Fl. chil.* p. 180). — In Oceania (archipel. Mendana, *Lich. îles Marquis.* p. 301; Polynesia, *Lich. exot.* p. 239). Edictis in *Syn. Lich. N. Caled.* p. 19, habitatio Novæ Ca'edoniæ indicata in *Syn.* I, p. 385 delenda est. — Etiam in Europa.

668. **Parmelia isidiza** Nyl. *Flora* 1885, p. 612, ubi definitur; thallus K  $\pm$ , medulla e flavo ferruginascit. = In Africa meridionali (Angola) et occidentali (Serra da Chella, *Lich. Afric.* p. 130, ubi etiam definitur).

669. **P. insinuata** Nyl. *Flora* 1886, p. 324, ubi definitur; thallus K (CaCl) + erythrinus. = In Oceania (Australia).

670. **P. revoluta** Nyl. *Flora* 1869, p. 289, et *Lich. Antill.* p. 8, ubi definitur; *P. tiliacea* var. *revoluta* Nyl. *Syn.* I, p. 385, ubi etiam definitur. — *Imbricaria revoluta* Flørke. Thallus K  $\pm$ , medulla CaCl +, erythrinosa. = In Asia meridionali (mont. Himalaya et India). — In Africa orientali (ins. Madagascar), meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (Guinea, *Flora* 1863, p. 265). — In America utraque, ubi abundat (ins. Guadalupa; Bolivia, *Lich. And. Boliv.* p. 373, ubi sporæ definiuntur; Fuegia, *Lich. Fueg.* p. 5). — In Oceania (Australia; Polynesia; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 249, ubi sporæ definiuntur). — Etiam in Europa. *P. endocrocea* Pers. ex ins. Sandwich, est status ejusdem.

671. **P. lævigatula** Nyl. *Flora* 1885, p. 614, ubi definitur; thallus K  $\pm$  et CaCl  $\mp$ . = In America tropica (Guyana et Brasilia).

672. **P. revolutella** Nyl. apud Cromb. *Challeng. expedit.* p. 222, ubi definitur. Medulla CaCl +. = In Africa meridionali (ins. Tristan d'Acunha).

##### 5. — Stirps *Parmeliæ Borreri* Turn.

673. **P. Borreri** Turn., Nyl. *Syn.* I, p. 389, *Lich. Pyr. Orient.* pp. 16 et 17 in notula, ubi definitur; *Flora* 1869, p. 289; *Enum. Lich.* p. 105. Medulla K —, CaCl +. = In Asia (Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 55), meridionali (Promont. Bonæ Spei) et occidentali (ins. Canariis). — In America utraque Mexico, *Flora* 1858, p. 379; Bolivia, *Lich. exot.* p. 215 et *Lich. And. Boliv.* p. 374). — Etiam in Europa.

— Var. **ulophylla** Nyl. *Syn.* I, loc. citat., ubi definitur; *P. rudecta* var. *ulophylla* Ach. = Obvenit passim cum typo.

674. **P. rudecta** Ach., Nyl. *Syn.* I, p. 389, *Lich. Pyr. Orient.* p. 16 in notula, *Lich. exot.* p. 215, *Flora* 1886, p. 323, et *Lich. N. Zeland.* 1888, p. 26, ubi definitur; medulla CaCl +. = In America utraque (Mexico, ubi invenitur typus et forma in *Mexic. Plant.* p. 3 definita; Nova Granata, *P. Borrerii* f. *rudecta* Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 23). — In Oceania (Australia; Nova Zelandia?).

675. **P. subrudecta** Nyl. *Flora* 1886, p. 320, ubi definitur; thallus CaCl  $\mp$ . = In Africa orientali (ins. S<sup>t</sup> Pauli). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 26, ubi spermatia definiuntur).

676. **P. hypoleucites** Nyl. *Flora* 1858, p. 379, et *Syn.* I, p. 389, ubi definitur; *Flora* 1866, p. 200, et 1869, p. 289, medulla K —, CaCl +. = In America tropica (Mexico).

677. **P. Borreroides** Nyl. *Lich. Pyr. Orient.* p. 17 in notula. = In America meridionali.

678. **Parmelia subæquans** Nyl. apud Cromb. *Lich. capens.* p. 167, ubi definitur. = In Africa meridionali (Promont. Bonæ Spei).

679. **P. negata** Nyl. *Lich. Pyr. Orient.* p. 17 in notula, ubi definitur. = In America tropica (Nova Granata).

6. — Stirps *Parmeliæ relicinæ* Fr.

680. **P. relicina** Fr., Nyl. *Syn.* I, p. 386, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1869, pp. 290 et 292, thallus K =, CaCl =; *P. glandulifera* Fée. = In Africa orientali (ins. Bourbonia, *Lich. exot.* p. 255) et occidentali (Serra da Chella, *Lich. Afric.* p. 131). — In America tropica (Guadalupa, *Lich. Antill.* p. 8 in notula; ins. S<sup>o</sup> Domingo; Peruvia, *Lich. exot.* p. 215). — In Oceania (ins. Java; Australia, *Lich. N. Zeland.* 1888, p. 29, ubi indicatur thallum K flavescere leviter, medulla immutata; ins. Marianis, *Prodr. Lich. N. Caled.* p. 280; Nova Caledonia, *Lich. N. Caled. Exposit.* p. 43 et *Syn.* p. 19, ubi definitur, *Flora* 1867, p. 194; in *Prodr. Lich. N. Caled.* adest sub nomine erroneo *P. sinuosa* Ach.).

— Var. **coronata** Nyl. *Syn.* loc. citat., ubi definitur; *P. coronata* Fée, *P. glandulifera* Fée. = In America tropica.

681. \***P. ecoronata** Nyl. *Lich. Andam.* p. 5, ubi definitur. Thallus K —. = In Asia meridionali (ins. Andaman).

682. **P. relicinella** Nyl. *Flora* 1886, p. 615, ubi definitur; *Flora* 1874, p. 72; thallus K =, sed medulla supra nonnihil aurantiaco tingitur. = In America meridionali (Brasilia),

683. **P. limbata** Laur., Nyl. *Syn.* I, p. 386, ubi definitur; thallus K ±, aurantiaco-fulvescens, *Flora* 1869, p. 292. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 22). — In Oceania (Australia; ins. Lord Howe, *Prodr. Lich. N. Caled.* p. 280).

684. **P. sublimbata** Nyl. *Flora* 1885, p. 615, ubi definitur; medulla K + flavet. = In Asia meridionali (India).

685. **P. circumnodata** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 51, ubi definitur. Thallus K ±, medulla flavet. = In Asia orientali (Malacca).

686. **P. intertexta** Mont. et v. d. Bosch *Plant. Jungh.* p. 427 et *Syll.* p. 327. = In Oceania (ins. Java).

687. **P. malaccensis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 52, ubi definitur; thallus K =, vel medulla leviter reagens. = In Asia orientali (Malacca).

688. **P. subrupta** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 51, ubi definitur; thallus K =, CaCl =. = In Asia orientali (Malacca).

7. — Stirps *Parmeliæ cervicornis* Tuck.

689. **P. cervicornis** Tuck., Nyl. *Syn.* I, p. 385, ubi definitur; *Flora* 1866, p. 200, et 1869, p. 292, medulla K —. CaCl —. = In America meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 22, ubi definitur; Brasilia, *Flora* 1869, p. 117). — In Oceania (ins. Sandwich, *Prodr. Lich. N. Caled.* p. 280).

— F. 1. **pulvinata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 22 in notulis; *P. pulvinata* Fée, Nyl. *Enum. Lich.* p. 104; in *Syn.* I, loc. citat. præcedenti jungitur; *P. sinuosa* var. *angustifolia* Mont. = In America tropica (Peruvia, *Flora* 1855, p. 674, et *Lich. exot.* p. 215).

— F. 2. **caraccensis** Nyl. *Prodr. Fl. N. Gran.* locis citat. *P. caraccensis* Tayl., Nyl. *Enum. Lich.* p. 104. In *Syn.* I, loc. citat., jungitur etiam cum *P. cervicorni*; *Flora* 1869, p. 292, medulla K —, CaCl =. In America tropica (Caracas).

690. **Parmelia reducens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 22 ubi definitur, *Addit.* p. 539; *Flora* 1866, p. 200, medulla CaCl —. = In America tropica (Nova Granata).

691. **P. physcioides** Nyl. *Syn.* I, p. 385, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1869, p. 289, medulla CaCl +; hæc reactio in *Flora* 1866, p. 200 errore negatur, æque ac in *P. laevigata*. = In America tropica (Caracas).

692. **P. kamtschadalis** Eschw., Nyl. *Syn.* I, p. 387, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1869, p. 446 in notula; thallus K + flavet, medulla e flavo mox aurantiaco-rubescit vel subcrocea evadit, præcipue in receptaculo. = In Asia (ex India in Kamtschatkam et in China). — In America tropica (Mexico, *Mexic. Plant.* p. 3; Peruvia, *Flora* 1855, p. 674). — In Oceania (ins. Java).

— Var. 1. **americana** Nyl. *Syn.* I, p. 387, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1869, p. 446 in notula; *P. americana* Mont., Nyl. *Addit. Fl. chil.* p. 180, ubi definitur in notula. — *Evernia americana* Mey. et Flot. Eadem reactio ac in typo. = In America utraque (Mexico, *Flora* 1858, p. 379 et *Mexic. Plant.* p. 3; Nova Grana'a, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 23; Peruvia et Bolivia, *Lich. exot.* p. 215 et *Lich. And. Boliv.* p. 374, Chili).

— Var. 2. **fistulata** Nyl. *Syn.* I, loc. citat., ubi definitur; *Enum. Lich.* loc. citat.; *P. fistulata* Tayl. = In America meridionali (Brasilia et Republ. Argentina).

Aliæ variationes hujus Parmeliæ in Peruvia, Caracas etc. in *Syn.* loc. citat. enumerantur. Insuper adest in Asia forma *subamericana* et in America forma *subkamtschadalis*.

#### 8. — Stirps *Parmeliæ saxatilis* Ach.

693. **P. mutabilis** Tayl., Nyl. *Syn.* I, p. 387, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1866, p. 200, et 1869, p. 292, medulla K —, CaCl —. = In Africa meridionali (Promont. Bonæ Spei)

694. **P. saxatilis** Ach., Nyl. *Syn.* I, p. 388, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1869, p. 292, thallus in hac et ejus varietatibus K  $\frac{+}{+}$ , medulla e flavo rubescit. = In Asia frigidiore (Sibiria, *Lich. Middend.* pp. 3 et 4; Lawrencebay et ins., *Lich. Fr. Behr.* pp. 10 et 48). — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 55) et meridionali et usque ad Promont. Bonæ Spei (Portu Natali, *Lich. Port Natal.* p. 5). — In America boreali, meridionali (Chili, *Addit. Fl. chil.* p. 180) et australi (Cap Horn. et ins. Maclovianis). — In Oceania (Tasmania et Nova Zelandia). — Etiam in Europa.

695. \* **P. sulcata** Tayl., Nyl. *Flora* 1869, p. 292; *P. saxatilis* var. *sulcata* Nyl. *Syn.* I, p. 389, ubi definitur. Eadem reactio ac in *P. saxatili*. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 44). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

— F. **contorta** Nyl. *Syn.* I, loc. citat., ubi definitur; *P. contorta* Bory, Nyl. *Enum. Lich.* p. 105. = In Africa boreali (Algeria; *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 56). — In America boreali. — Etiam in Europa (Græcia).

696. \* **P. fraudans** Nyl, *Lich. Scand.* p. 100, ubi definitur; *Flora* 1869, p. 292, reactio ut in *P. saxatili*. = In America boreali (ins. Miquelon). — Etiam in Europa (Suecia).

697. **P. omphalodes** Ach., Nyl. *Lich. Fr. Behr.*, pp. 5, 7, 27 et 44; *P. saxatilis* var. *omphalodes* Nyl. *Syn.* I, p. 388, ubi definitur; *Enum. Lich.* p. 105. — *Lichen omphalodes* L. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Lawrencebay, etc.) — In Africa occidentali (ins. Madera, *Lich. Madère* p. 188). = In America saltem meridionali (Bolivia, *Lich. And. Boliv.* p. 374). — Etiam in Europa.

698. **P. signifera** Nyl. *Lich. N. Zeland.* 1888, p. 25, ubi definitur. Thallus K  $\frac{+}{+}$ , medulla e flavo rubra. = In Oceania (Nova Zelandia).



639. **Parmelia Cunninghamsi** Cromb., Nyl. *Lich. Fueg.* p. 21 et apud Cromb. *Falkl. isl.* p. 228, ubi definitur; = In America antarctica (Patagonia, island Harbour).

9. — Stirps *Parmeliæ polycarpæ* Tayl.

700. **P. polycarpa** Tayl., Nyl. *Syn.*I, p. 390, ubi definitur; *Enum. Lich.* p. 405; *Flora* 1866, p. 200, et 1869, p. 289, medulla K —, CaCl +. = In Oceania (Australia).

701. **P. laceratula** Nyl. *Syn.* I, p. 390, tab. VIII, fig. 48, ubi definitur; *Enum. Lich.* p. 405; *Flora* 1869, p. 289, medulla K —, CaCl +. = In Oceania (Australia).

10. — Stirps *Parmeliæ conspersæ* Ach.

702. **P. conspersa** Ach., Nyl. *Syn.* I, p. 391, ubi definitur; *Enum. Lich.* p. 405; *Flora* 1869, p. 292. — *Lichen conspersus* Ehrh. Medulla K + e flavo rubricosa, CaCl —. = In omnibus terris exoticis montanis, etiam æquinoctialibus; in Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 66). = In Africa boreali (Algeria, *Lich. Algér.* p. 310), orientali (ins. Borbonia, *Lich. exot.* p. 255), meridionali (Promont. Bonæ Spei) et occidentali (ins. Madera, *Lich. Madère* p. 188). — In America utraque (Mexico, *Mexic. Plant.* p. 4; Bolivia, *Lich. exot.* p. 215 et *Lich. And. Boliv.* p. 374; Brasilia, *Prodr. Lich. Gall.* p. 57; Chili, *Addit. Fl. chil.* p. 480; ins. Maclovianis). — In Oceania (archipel. Mendana, *Lich. îles Marquis.* p. 301 et *Lich. exot.* p. 239; Nova Zelandia, *Flora* 1865, p. 337, *Lich. N. Zeland.* 1861, p. 349, et 1888, p. 27; Tasmania et ins. Auckland). — Etiam in Europa.

— F. **isidiata** Anzi, Nyl. et Cromb. *Lich. East. Asia* p. 66. = In Asia orientali (Japonia). — In Oceania (ins. Auckland, *Syn.* loc. citat.). — Etiam in Europa.

— Var. **hypoclysta** Nyl. *Syn.* I, loc. citat., ubi definitur. = In Africa meridionali (Promont. Bonæ Spei) et occidentali (ins. Canariis; ins. Madera *Lich. Madère* p. 188). — Etiam in Europa.

703 \* **P. constrictans** Nyl. apud Cromb. *Lich. capens.* p. 168, ubi definitur. = In Africa meridionali (Promont. Bonæ Spei).

— Var. **eradicata** Nyl. apud Cromb. *Lich. capens.* loc. citat. = Cum typo.

704. **P. subconspersa** Nyl. *Flora* 1869, p. 293. Medulla K —. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 66). — In Africa orientali (ins. Borbonia). — In America meridionali (Brasilia). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 27). — Etiam in Europa.

705. \* **P. perisidiosa** Nyl. apud Stizenb. *Lichen. Afric.* p. 49. = In Africa meridionali (Promont. Bonæ Spei).

706. **P. endomiltodes** Nyl. apud Cromb. *Lich. capens.* p. 168, ubi definitur; medulla K violascit. = In Africa meridionali (Promont. Bonæ Spei).

707. **P. conspersula** Nyl. apud Cromb. *Lich. capens.* p. 168, ubi definitur. = In eadem regione.

708. **P. Mougeotii** Schær., Nyl. *Syn.* I, p. 392, ubi definiuntur; *Enum. Lich.* p. 405. Medulla K flavet, et K (CaCl) erythrina evadit. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (Angola, *Lich. Angol.* p. 509). — In America meridionali (Nova Granata, Brasilia, *Flora* 1864, p. 619; Bolivia, *Lich. And. Boliv.* p. 374 et *Prodr. Lich. Gall.* p. 57). — In Oceania (Nova Zelandia?, *Flora* 1865, p. 337, *Lich. N. Zeland.* 1861 p. 240, et 1888, p. 27). — Etiam in Europa.

709. **P. Mougeotina** Nyl. *Lich. N. Zeland.* 1888, p. 27, ubi definitur. Medulla K flavet, sed CaCl —. = In Oceania (Nova Zelandia).

710. **Parmelia adhærens** Nyl. apud Cromb. *Lich. capens.* p. 168, ubi definitur; medulla K + flavet. = In Africa meridionali (Promont. Bonæ Spei).

711. **P. squamariata** Nyl. apud Cromb. *Lich. capens.* p. 168, ubi definitur; medulla K + e flavo cinnabarina tingitur. = In eadem regione.

— **F. cinerascens** Nyl. apud Cromb. *Lich. capens.* loc. citat. = Cum typo.

712. **P. congruens** Ach., Nyl. *Syn.* I, p. 392 et *Mexic. Plant.* p. 5, ubi definitur; *Flora* 1869, p. 292, medulla K + e flavo rubricose tingitur. = In America septentrionali et tropica (Mexico et alibi).

713. **P. molliuscula** Ach., Nyl. *Syn.* I, p. 393, et *Lich. exot.* p. 245, ubi definitur; *Flora* 1869, p. 292, medulla K + e flavo rubricose tingitur; *Enum. Lich.* p. 105; **P. leonora** Spr., Nyl. *Enum. Lich.* loc. citat. = In Africa meridionali (Promont. Bonæ Spei). — In America utraque (Peruvia).

— Var. **vagans** Nyl. *Pyrenoc.* p. 13 et *Syn.* loc. citat., ubi definitur; *Flora* 1869, p. 293, medulla K + e flavo fuscescit. = In America meridionali (Republ. Equatoria).

714. **P. australiensis** Nyl. apud Cromb. *Lich. Austral.* p. 395, ubi definitur; thallus K (CaCl) ± dilute erythrinus. = In Oceania (Australia).

715. **P. hypoleia** Nyl. *Syn.* I, p. 393, ubi definitur; *Flora* 1869, p. 293, medulla K + vix flavescens, serius violacee tingitur; **P. reticulata** Nees. = In Africa meridionali (Promont. Bonæ Spei).

— Var. **1. crenata** Nyl. *Syn.* I, loc. citat., ubi definitur.

— Var. **2. tenuifida** Nyl. *Syn.* I, loc. citat., ubi definitur. = Utraque in eadem regione.

716. **P. osteoleuca** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25, ed. 2<sup>a</sup> p. 23 et *Addit.* p. 538, ubi definitur; *Flora* 1866, p. 200, et 1869, p. 289, thallus K =, CaCl +. = In America meridionali (Nova Granata; Brasilia, ubi viget forma peculiaris in *Prodr. Fl. N. Gran.* definita).

717. **P. distincta** Nyl. *Lich. And. Boliv.* p. 374, ubi definitur; *Flora* 1869, p. 293, medulla K —. = In America meridionali (Bolivia; Peruvia, ubi viget forma peculiaris, in *Lich. And. Boliv.* loc. citat., definita).

718. **P. centrifuga** Ach., Nyl. *Syn.* I, p. 393, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1869, p. 293, medulla K —. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3; Konyambay, *Lich. Fr. Behr.* p. 27). — In America boreali. — Etiam in Europa.

— Var. **muscivaga** Nyl. *Lich. Fr. Behr.* p. 7. = In Asia boreali (Lawrencebay).

719. **P. incurva** Fr., Nyl. *Syn.* I, p. 394, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1869, p. 293, medulla K —. = In America boreali. — Etiam in Europa.

#### 11. — Stirps *Parmeliæ olivaceæ* Ach.

720. **P. Acetabulum** Dub., Nyl. *Syn.* I, p. 394, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1869, p. 321 in notula, medulla K +, e flavo mox crocea aut ferrugineo-crocea aut subcinnabarina. — *Lichen Acetabulum* Neck. = In Asia Minori (Cilicia). — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 57). — Etiam in Europa.

721. **P. olivacea** Ach., Nyl. *Syn.* I, p. 395, tab. I, fig. 1, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1868, p. 346, medulla CaCl —. — *Lichen olivaceus* L. = In regionibus frigidioribus præcipue vigens. In Asia boreali (Sibiria *Lich. Middend.* pp. 2 et 4; Konyambay, etc., *Lich. Fr. Behr.* pp. 16 et 52) et meridionali (mont Himalaya). — In Africa (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 58, sed forsitan hoc pertinet ad sequentem). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 62 et 68 in notula). — Etiam in Europa boreali.

722. **P. proluxa** Nyl. *Syn.* I, p. 396, ubi definitur; *Flora* 1868, p. 346; **P. olivacea** var.

*prolixa* Ach. Medulla CaCl —. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* pp. 10 et 27) et occidentali. — In Africa boreali (Algeria) et occidentali (Mossamedes, serra do Giraul, *Lich. Afric.* p. 130; ins. Teneriffa). — In Oceania (Australia; Tasmania; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 27). — Etiam in Europa.

— Var. 1. **dendritica** Nyl. *Syn.* I, p. 397, ubi definitur; *Enum. Lich.* p. 105; *P. dendritica* Pers. = In Africa occidentali (Angola, *Lich. Angol.* p. 509). — In Oceania (Nova Zelandia). — Etiam in Europa.

— Var. 2. **pannariiformis** Nyl. apud Lamy *Cat. du Mont-Dore* p. 35; *P. prolixa* var. *panniformis* Nyl. *Syn.* I, loc. citat. et *Lich. Scand.* p. 102, ubi definitur; *Enum. Lich.* p. 105. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 10). — Etiam in Europa.

723. **Parmelia perrugata** Nyl. *Flora* 1885, p. 295, ubi definitur. Thallus K =, CaCl =. = In Oceania (Australia, *Lich. N. Zeland.* 1888, p. 27).

724. **P. Delisella** Nyl. *Lich. Fueg.* p. 21 et apud Cromb. *Falkl. isl.* p. 228, ubi definitur; medulla CaCl + obsolete erythrinosa = In America antarctica (Patagonia, River Gallegos).

725. **P. verruculifera** Nyl. *Flora* 1878, p. 247, ubi definitur. = In Asia (Himalaya). — Etiam in Europa.

726. **P. ryssolea** Nyl. *Syn.* I, p. 397, ubi definitur. — *Dufourea ryssolea* Ach. = In Asia boreali (Sibiria). — Etiam in Europa (Rossia orientali).

#### 12. — Stirps *Parmeliæ stygiæ* Ach.

727. **P. stygia** Ach., Nyl. *Syn.* I, p. 397, ubi definitur; *Enum. Lich.* p. 105. — *Lichen stygius* L. — In *Addit. Fl. chil.* p. 180 ad *Parmelias* relegantur *tristis*, *lanata*, *fahlunensis* (quæ in *Platysmatibus* numeratur) et *stygia*. = In America boreali. — Etiam in Europa.

728. **P. stygiodes** Nyl. apud Cromb. *Kerguel. Land* p. 183, ubi definitur. Thallus K =, medulla flavet. = In Africa australi (ins. Kerguelen).

729. **P. tristis** Nyl. *Enum. Lich.* p. 105; *Lich. Pyr.-Orient.* p. 18. — *Lichen tristis* Web. — *Platysma triste* Nyl. *Syn.* I, p. 307, tab. I, fig. 5, ubi definitur; *Alectoria tristis* Nyl. *Lich. Middend.* p. 3 in notula et *Flora* 1871, p. 299. = In America boreali. — Etiam in Europa.

730. **P. lanata** *Syn.* I, p. 398, ubi definitur; *Enum. Lich.* p. 105. — *Alectoria lanata* Nyl. *Flora* 1871, p. 299. — *Lichen lanatus* L. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 27) — In America boreali. — Etiam in Europa.

731. **P. minuscula** Nyl. *Lich. Fr. Behr.* p. 10. — *Alectoria minuscula* Nyl. *Flora* 1871, p. 299. = In Asia boreali (Lawrencebay). — Etiam in Europa.

732. **P. lichinoidea** Nyl. apud Cromb. *Lich. capens.* p. 169, ubi definitur; medulla K —. = In Africa meridionali (Promont. Bonæ Spei).

733. **P. Dregeana** Hampe, Nyl. *Syn.* I, p. 398, tab. I, fig. 25, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1869, p. 321 in notula, medulla CaCl +, ut in *P. Acetabulo*. = In Africa meridionali (Promont. Bonæ Spei).

734. **P. prolixula** Nyl. apud Cromb. *Lich. capens.* p. 169, ubi definitur; medulla K + e flavo rubricosa. = In eadem regione.

#### Subgen. II. — *Omphalodium* Mey. et Flot.

735. **P. hottentotta** Ach., Nyl. *Syn.* I, p. 399, ubi definitur; *Enum. Lich.* p. 105; *Flora* 1869, p. 321 in notula. — *Lichen hottentottus* Thunb. Medulla CaCl + ut in *P. Acetabulo* Dub. = In Africa meridionali (Promont. Bonæ Spei).



— Var. **pachythalla** Nyl. *Syn.* I, p. 399, ubi definitur; *P. pachythalla* Spr. = In eadem regione.

736. **Parmelia pisacomensis** Nyl. *Syn.* I, p. 319, ubi definitur. — *Omphalodium pisacomense* Mey. et Flot. = In America meridionali (Peruvia, *Lich. exot.* p. 217, ubi definitur in notula).

737. **P. Arizonica** Nyl. in litt. — *Omphalodium Arizonicum* Tuck. *Syn. Lich. North Americ.* I, p. 260. = In America tropica (Brasilia).

Subgen. III. — *Hypogymnia* Nyl. *Flora* 1881, p. 537.

738. **P. physodes** Ach., Nyl. *Syn.* I, p. 400, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1866, p. 200, medulla CaCl —; *Flora* 1869, p. 292, eadem K —, p. 387 K (CaCl) + erythrinosa, p. 416 K + ochracea, K (CaCl) + leviter erythrinosa aut evanescens. — *Lichen physodes* L. — = In Asia boreali (Sibiria, *Lich. Middend.* p. 3) et meridionali (Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 56) et occidentali (ins. Canariis). — In America boreali (versus circumulum æquinoctialem usque in Californiam) et meridionali (Chili, *Addit. Fl. chil.* p. 180; Fretum Magellanicum). — In Oceania (Tasmania; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 28, ubi indicatur reactio medullæ K (CaCl) —). — Etiam in Europa.

— Var. 1. **platyphylla** Ach., Nyl. *Syn.* I, p. 400, ubi definitur. = In Asia Minori (Cilicia). — Etiam in Europa.

— Var. 2. **labrosa** Ach., Nyl. *Syn.* I, p. 401, ubi definitur. = Frequenter cum typo occurrit.

739. **P. vittata** Nyl. *Flora* 1875, p. 106, ubi pr. p. definitur; *P. physodes* var. *vittata* Ach., Nyl. *Syn.* I, p. 400, ubi definitur; *P. duplicata* Ach. = In America meridionali (Chili, *Addit. Fl. chil.* p. 180). — Etiam in Europa.

740. **P. hypotrypodes** Nyl. *Flora* 1874, p. 16, et 1875, p. 106, ubi definitur. = In Asia orientali (China, apud Hue *Lich. Yunn.* pp. 21 et 33). — Etiam in Europa.

741. **P. austerodes** Nyl. *Flora* 1881, p. 537, ubi definitur; *P. physodes* var. *obscurata* Ach., Nyl. *Syn.* I, p. 401, ubi etiam definitur. = In Asia boreali (Sibiria, *Lich. Middend.* pp. 3 et 4; Konyambay etc., *Lich. Fr. Behr.* pp. 41 et 43). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

742. **P. lugubris** Nyl. *Syn.* I, p. 401, ubi definitur; *P. physodes* var. *lugubris* Nyl. *Enum. Lich.* p. 104. = In America antarctica (Fuegia, *Lich. Fueg.* p. 5; spermata illius bifusiformia). — In Oceania (Tasmania; ins. Auckland).

743. **P. enteromorpha** Ach., Nyl. *Syn.* I, p. 401, ubi definitur; *P. physodes* var. *enteromorpha* Nyl. *Enum. Lich.* p. 104. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 85). — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 249, et 1888, p. 28, medulla K (CaCl) rosello tingitur).

744. **P. placorhodioides** Nyl. *Syn.* I, p. 401, ubi definitur; *Enum. Lich.* p. 104; *Flora* 1869, p. 292. — *Cetraria Billardieri* Mont. *Syll.* p. 322. Medulla K —, K (CaCl) rosello tingitur. = In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 28; Tasmania).

745. **P. mundata** Nyl. *Syn.* I, p. 401, ubi definitur; *Flora* 1869, p. 292. — *Evernia mundata* Nyl. *Enum. Lich.* p. 99. Medulla K —, CaCl —. = In Oceania (Tasmania).

746. **P. Delavayi** Hue, Nyl. *Flora* 1887, p. 135 et apud Hue *Lich. Yunn.* p. 21, ubi definitur. Thallus K ±, CaCl ∓. = In Asia (China).

747. **P. alpicola** Th. Fr. *Lichenogr. scand.* p. 125; *P. physodes* var. *alpicola* Nyl. *Lich. Lapp Orient.* p. 120, ubi definitur; apud Hue *Addend. Lich. europ.* p. 47. Thallus K ∓, CaCl ∓. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 10, 27 et 53). — Etiam in Europa.

748. **Parmelia pertusa** Schær., Nyl. *Syn.* I, p. 402, ubi definitur; *Enum. Lich.* p. 404. — *Lichen pertusus* Schrank. In *Flora* 1869, p. 292 indicatur medulla K —, CaCl —; in *Lich. N. Zeland.* 1888, p. 28, medulla CaCl obsolete vel vix rosello tineta. = In Asia (mont. Himalaya). — In America fere tota et frequens in regionibus antarcticis (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (Java; ins. Sandwich, *Lich. exot.* p. 239; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 249; ins. Campbell, *Lich. Campb.* p. 89). — Etiam in Europa.

749. **P. cincinnata** Ach., Nyl. *Syn.* I, p. 403, ubi definitur; *Enum. Lich.* p. 404; *Flora* 1869, p. 292, medulla K +, CaCl —. = In America antarctica (Chili, *Addit. Fl. chil.* p. 180; Fretto Magellanico et Cap Horn; Fuegia, *Lich. Fueg.* p. 5, ubi definiuntur sporæ formæ peculiaris).

750. **P. dispersa** Nyl. *Lich. Fueg.* p. 21 et apud Cromb. *Falkl. isl.* p. 228, ubi definitur. = In America antarctica (Fuegia, Fortune Bay).

751. **P. hypotrypa** Nyl. *Syn.* I, p. 403, ubi definitur; *Enum. Lich.* p. 404; *Flora* 1869, pp. 290 et 292. Thallus K =, CaCl =, K (CaCl) =. = In Asia (mont. Himalaya; China).

— **F. balteata** Nyl. *Lich. N. Zeland.* 1888, p. 150, ubi definitur. = In Asia orientali (China).

752. **P. lophyrea** Ach., Nyl. *Flora* 1869, p. 292; **P. cribellata** Tayl., Nyl. *Syn.* I, p. 403, ubi definitur. = In America boreo-occidentali.

Subgen. IV. — *Anzia* Stizenb. *Flora* 1861, p. 390.

753. **P. angustata** Pers., Nyl. *Syn.* I, p. 403, ubi definitur; *Enum. Lich.* p. 404; **P. moniliformis** Bab., Nyl. *Enum. Lich.* p. 404. = In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 27).

754. **P. colpodes** Ach., Nyl. *Syn.* I, p. 404, *Flora* 1862, pp. 71 et 321, ubi definitur; *Enum. Lich.* p. 404; **P. parasitica** Fée, Nyl. *Lich. exot.* p. 215 in notula. = In America utraque.

— **Var. cristulata** Nyl. *Syn.* I, p. 404 et *Flora* 1862, p. 72, ubi definitur; **P. cristulata** Ach. = In America boreali.

755. **P. semiteres** Mont. et v. d. Bosch, Nyl. *Syn.* I, loc. citat., ubi definitur. = In Oceania (ins. Java).

756. **P. tæniata** Nyl. *Syn.* I, p. 405, *Flora* 1862, pp. 72 et 397, *Lich. exot.* p. 216 et *Prodr. Lich. N. Gran.* ed. 1<sup>a</sup> p. 25, tab. I, fig. 3, et ed. 2<sup>a</sup> p. 23, ubi definitur (definitio sporarum in *Syn.* loc. citat. non est bona); *Enum. Lich.* p. 405. = In America tropica (Nova Granata).

757. **P. leucobates** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 539, ubi definitur. = In America tropica (Nova Granata).

758. **P. leucobatoides** Nyl. *Lich. N. Zeland.* 1888, p. 28 in notula et apud Hue *Lich. Yunn.* p. 22, ubi definitur. = In Asia orientali (China).

759. **P. hypotrachyna** Nyl. *Syn.* I, p. 405, ubi definitur; *Enum. Lich.* p. 404. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 23).

Gen. LVIII. — **PARMELIOPSIS** Nyl.

Subgen. I. — *Parmeliopsis* pr. dict.

760. **P. placorodia** Nyl. *Syn.* II, p. 55, ubi definitur; *Flora* 1869, p. 445, et 1872, p. 247; **Parmelia placorodia** Ach., Nyl. *Enum. Lich.* p. 405. — **Squamaria placorodia** Nyl. *Flora*

1860, p. 546. Thallus K $\ddagger$ . = In America boreali ubi est admodum variabilis. — Etiam in Europa.

— F. **obsessa** Nyl. *Flora* 1869, p. 445; *Parmelia obsessa* Ach., Nyl. *Syn.* I, p. 426. Thallus K $\ddagger$ . = In America boreali.

761. **Parmeliopsis angustior** Nyl. *Syn.* II, p. 56, ubi definitur; *Flora* 1869, p. 445; *Parmelia angustior* Nyl. *Lich. exot.* p. 215, ubi etiam definitur; *Parmelia angustata* Nyl. *Enum. Lich.* p. 405. Thallus K $\ddagger$ . = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 24).

762. **P. ambigua** Nyl. *Syn.* II, p. 54, tab. IX, fig. 40 (1), ubi definitur; *Flora* 1869, p. 445. — *Lichen ambiguus* Wulf. — *Squamaria ambigua* Nyl. *Enum. Lich.* p. 411. Thallus K= = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In Africa boreali (mont. Kabyliæ). — In America boreali (Groenlandia; Port-Clarence, *Lich. Fr. Behr.* pp. 62 et 68 in notula). — Etiam in Europa.

763. **P. aleurites** Nyl. *Syn.* II, p. 54, ubi definitur; *Flora* 1869, pp. 389 et 445. — *Lichen aleurites* Ach. — *Squamaria aleurites* Nyl. *Enum. Lich.* p. 411. Thallus K $\pm$ . = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In America boreali (Groenlandia; Port-Clarence, *Lich. Fr. Behr.* pp. 62 et 68 in notula; Nova Anglia). — Etiam in Europa.

#### Subgen. II. — *Psoromopsis* Nyl.

764. **P. Wrightii** Nyl.; *Parmeliopsis Wrightii* Nyl. *Syn.* II, p. 56, tab. IX, fig. 41, ubi definitur; *Flora* 1869, p. 445. — *Squamaria* et *Physcidia Wrightii* Tuck. Thallus K= = In America tropica (ins. Cuba).

#### Subgen. III. — *Chondropsis* Nyl.

765. **P. semiviridis** Nyl. apud Cromb. *Austral. Lich.* p. 397, ubi definitur. — *Parmeliopsis semiviridis* Nyl. *Syn.* II, p. 57, ubi definitur; *Flora* 1869, p. 445. — *Parmelia semiviridis* Muell., Nyl. *Enum. Lich.* p. 405. Thallus K= = In Oceania (Australia).

### Series VI. — PHYLLODEI.

#### TRIB. XXIII. — STICTEI Nyl. *Lich. Fueg.* p. 34.

##### Subtribus I. — Stictinei.

##### Gen. LIX. — LOBARINA Nyl.

766. **L. scrobiculata** Nyl. *Flora* 1877, p. 233. — *Lichen scrobiculatus* Scop. — *Sticta scrobiculata* Ach., Nyl. *Syn.* I, p. 353, ubi definitur; *Enum. Lich.* p. 402. — *Stictina scrobiculata* Nyl. *Exposit. Lich. N. Caledon.* p. 41 in notula. — *Lobaria scrobiculata* DC., Nyl. *Flora* 1865, p. 297, et *Conspect. Stict.* p. 6. — *Parmelia scrobiculata* Ach.; *Lobaria verrucosa* Hoffm. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3 et *Lich. Fr. Behr.* p. 74). — In Africa occidentali (ins. Teneriffa). — In America septentrionali). — Etiam in Europa.

767. **L. retigera** Nyl. *Flora* 1886, p. 472 et *Contrib. da Fl. d'Afric.* p. 6. — *Sticta retigera* Ach., Nyl. *Syn.* I, p. 351, ubi definitur; *Enum. Lich.* p. 402; *Lobaria retigera* Nyl.

(1) Hæc tabula IX in lucem prodiit anno 1888.



*Flora* 1865, p. 297, et *Conspect. Stict.* p. 6. = In Asia boreali (Sibiria) et meridionali (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253; Madagascar), meridionali (Promont. Bonæ Spei) et occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 10). — In Oceania (ins. Java).

Gen. LX. — STICTINA Nyl. *Flora* 1860, p. 63.

Sectio A. — PSEUDOCYPHELLATE.

a. — *Pseudocyphellæ albæ.*

768. **S. argyracea** Nyl. *Syn.* I, p. 334, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 3. — *Lichen argyraceus* Bory. — *Sticta argyracea* Del., Nyl. *Enum. Lich.* p. 102 et *Supplém.* p. 333. = In Asia meridionali (Cochinchina). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254; Mauriti et Madagascar), meridionali (Promont. Bonæ Spei) et occidentali (ins. San Thomé, *Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 6 et *Lich. ins. Guin.* p. 11). — In America australi (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (ins. Java; ins. Taïti, *Lich. exot.* p. 238; in *Syn.* loc. citat. indicatur Nova Zelandia, sed incertum est an hæc species obveniat in illa regione, *Lich. N. Zeland.* 1888, p. 29).

— F. 1. **rigidula** Nyl. *Lich. Port Natal* p. 5. — *Sticta rigidula* Del. In Nyl. *Syn.* et *Enum. Lich. Supplém.* hæc cum *Stictina argyracea* jungitur. = In Africa meridionali (Portu Natali).

— F. 2. **flavescens** Nyl. — *Sticta flavescens* Del., Nyl. *Syn.* I, loc. citat. et *Lich. exot.* p. 254, ubi definitur; in *Enum. Lich. Supplém.* p. 335 cum typo jungitur. = In Africa orientali (ins. Borbonia).

— F. 3. **sorediifera** Nyl. *Syn.* I, loc. citat., ubi definitur. — *Sticta argyracea* var. *sorediifera* Del. = In Africa orientali (ins. Madagascar). — In America australi (Chili, etc.).

— Var. **crenata** Nyl. *Lich. N. Caledon. Exposit.* p. 41 et *Syn.* p. 13, ubi definitur; *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).

— F. **isidiophora** Nyl. *Lich. N. Caledon. Exposit.* loc. citat., ubi definitur, et *Syn.* loc. citat. = In Oceania (Nova Caledonia).

769. **S. intricata** Nyl. *Syn.* I, p. 334, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 3. — *Sticta intricata* Del., Nyl. *Enum. Lich.* p. 103 et *Supplém.* p. 335; *Sticta Hesseana* Meyer. Forte specie non differt a præcedente. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254), meridionali (Portu Natali, *Lich. Port Natal* p. 5; Promont. Bonæ Spei) et occidentali (ins. Teneriffa). — In America meridionali (ins. Juan Fernandez, ubi viget forma subtus nigricans). — In Oceania (ins. Java).

— F. **Thouarsii** Nyl. *Syn.* I, p. 335 et *Syn. Lich. N. Caled.* p. 13, ubi definitur. — *Sticta Thouarsii* Del., Nyl. *Enum. Lich. Supplém.* p. 335 = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 5), australi (ins. Tristan d'Acunha) et occidentali (ins. Teneriffa). — In America australi (Patagonia, *Lich. Fueg.* p. 26). — In Oceania (Nova Caledonia, *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 29). — Etiam in Europa (Hibernia et Scotia).

— F. 2. **subargyracea** Nyl. *Lich. N. Zeland.* 1888, p. 29, ubi definitur; *Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 6 et *Lich. ins. Guin.* p. 11. = In Africa occidentali (ins. Teneriffa et San Thomé). = In Oceania (Nova Zelandia). — Etiam in Europa (Hibernia).

— Var. 1. **gymnoloma** Nyl. *Syn.* I, p. 335, et *Lich. exot.* p. 238, ubi definitur. = In Africa occidentali (ins. Teneriffa). — In Oceania (ins. Fidji).

— Var. 2. **obscurior** Nyl. *Syn.* loc. citat., ubi definitur. = In Africa australi (ins. Tristan d'Acunha).

770. **Sictina Dozyana** Nyl. *Syn.* I, p. 335, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 3. — *Sticta Dozyana* Mont. et v. d. Bosch., Nyl. *Enum. Lich.* p. 403; *Sticta granulata* Mont. et v. d. Bosch. = In Oceania (ins. Java; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 29).

771. **S. fragillima** Nyl. *Syn.* I, p. 335, ubi definitur; *Flora* 1865, p. 296; *Conspect. Stict.* p. 3. — *Sticta fragillima* Bab., Nyl. *Enum. Lich.* p. 402 et *Supplém.* p. 335. Est forsitan *Sticta cinnamomea* Ach. = In America tropica (Peruvia, *Lich. exot.* p. 214). — In Oceania (ins. Java; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 246 in notula, et 1888, p. 29, ubi sporæ definiuntur).

— **F. sublutescens** Nyl. in litt.; *S. fragillima* f. *lutescens* Krempelh., Nyl. *Lich. N. Zeland.* 1861, p. 246, et 1888, p. 29, ubi definitur. Nomen mutatur quia jam antea datum fuerat, *Sticta lutescens* Tayl. infra n° 796. = In Oceania (Nova Zelandia).

772. \* **S. dissimilis** Nyl. *Lich. N. Zeland.* 1861, p. 246, et 1888, p. 30, ubi definitur; *Conspect. Stict.* p. 3. — *S. fragillima* var. *dissimilis* Nyl. *Syn.* I, p. 336, ubi etiam definitur. = In Oceania (Australia; Nova Zelandia; Tasmania).

773. **S. Hookeri** Nyl. *Syn.* I, p. 336, ubi definitur; *Flora* 1865, p. 296, *Conspect. Stict.* p. 3 et *Lich. N. Zeland.* 1888, p. 30. — *Sticta Hookeri* Bab., Nyl. *Enum. Lich.* p. 403. = In Oceania (Nova Zelandia).

774. **S. faveolata** Nyl. *Syn.* I, p. 337, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 3. — *Sticta faveolata* Del., Nyl. *Enum. Lich.* p. 403. = In America meridionali et australi (Chili, *Addit. Fl. chil.* p. 180; Patagonia et Fuegia, *Lich. Fueg.* p. 26; Fretum Magellanico, ubi viget varietas peculiaris, *Flora* 1855, p. 673).

— Var. **cervicornis** Nyl. *Syn.* p. 337, ubi definitur; *Conspect. Stict.* p. 3. — *Sticta cervicornis* Flot.; *Sticta Richardi* var. *tomentosa* Meyen et Flot. = In America australi (Patagonia et Fuegia, *Lich. Fueg.* p. 26). — In Oceania (ins. Java; ins. Philippinis).

775. \* **S. anthraspis** Nyl. *Syn.* I, p. 337, ubi definitur; *Consp. Stict.* p. 3. — *Sticta anthraspis* Ach. = In America septentrionali (California).

b. — *Pseudocyphellæ flavæ.*

776. **S. compar** Nyl. *Flora* 1866, p. 435 in notula, ubi definitur; *Conspect. Stict.* p. 3. = In America australi (Chili).

777. **S. cærulescens** Nyl. *Syn.* I, p. 338, ubi definitur; *Flora* 1865, p. 296, et *Consp. Stict.* p. 3. — *Sticta cærulescens* Mont., Nyl. *Enum. Lich. Supplém.* p. 335. = In America meridionali (Chili, *Addit. Fl. chil.* p. 180).

778. **S. crocata** Nyl. *Syn.* I, p. 338, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 4. — *Lichen crocatus* L. — *Sticta crocata* Ach., Nyl. *Enum. Lich.* p. 403; *Sticta citrina* Pers. Medulla K. flavet. = In Africa orientali (ins. Mascarenis), meridionali (Promont. Bonæ Spei) et occidentali (ins. S<sup>te</sup> Helenæ; Carnariis). — In America fere tota, temperata et calida. (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 47; Chili, *Addit. Fl. chil.* p. 179). — In Oceania (ins. Java; Australia; ins. Sandwicensibus, ubi viget forma peculiaris in *Lich. exot.* p. 238 et *Syn.* I, p. 339, definita; ins. Taiti, *Prodr. Lich. N. Caled.* p. 282; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 246, et 1888, p. 30). — Etiam in Europa (Britania et Hispania).

— **F. leucosticta** Nyl. — *Sticta leucosticta* Pers., Nyl. *Syn.* I, p. 339 et *Lich. exot.* p. 238, forma cyphellis albicantibus.

779. **S. gilva** Nyl. *Syn.* I, p. 339, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 4. — *Lichen gilvus* Thunb. — *Sticta gilva* Ach., Nyl. *Enum. Lich.* p. 403; *Sticta erythroscypa* Tayl.; *S. Eckloni* Spr.: *S. Zeiheri* de Notar. et *S. Molkenbærii* Mont. = In

Africa meridionali (Promont. Bonæ Spei). — In America meridionali (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (ins. Java; Australia; Tasmania).

780. **Stictina carpoloma** Nyl. *Syn.* I, p. 339, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 4. — *Sticta carpoloma* Del., Nyl. *Enum. Lich.* p. 103 et *Supplém.* p. 335; *Sticta gyrosa* Flot. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254). — In America australi (Fuegia, *Lich. Fueg.* p. 26; Chili, *Addit. Fl. chil.* p. 180; Freto Magellanico, et in his duabus posterioribus regionibus viget forma obscurior). — In Oceania (ins. Java; Polynesia, *Lich. exot.* p. 238; Nova Zelandia, *Lich. N. Zeland* 1888, p. 30).

— F. **Desfontainii** Nyl. *Syn.* I, p. 340, ubi definitur. — *Sticta Desfontainii* Del.

— Var. 1. **sclerophylla** Nyl. *Enum. Lich. Supplém.* p. 335. = In America australi (Freto Magellanico).

— Var. 2. **albocyphellata** Nyl. *Syn.* I, p. 340, ubi definitur. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254) et meridionali (Portu Natali, *Lich. Port Natal*, p. 5).

781. **S. Mougeotiana** Nyl. *Syn.* I, p. 340, ubi definitur; *Flora* 1865, p. 296, et *Conspect. Stict.* p. 4. — *Sticta Mougeotiana* Del., Nyl. *Enum. Lich.* p. 103. Medulla K —. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254; Mauritii et Madagascar) et occidentali (ins. S<sup>æ</sup> Helenæ). — In America tropica (Guyana) et australi (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (Australia; Taïti; in Nova Zelandia est dubia, *Lich. N. Zeland.* 1888, p. 30).

— Var. 1. **xantholoma** Nyl. *Syn.* I, p. 341 et *Syn. Lich. N. Caledon.* p. 14, ubi definitur. — *Sticta xantholoma* Nyl. *Lich. exot.* p. 254, ubi etiam definitur. = In Africa orientali (ins. Borbonia). — In Oceania (Nova Caledonia; pro hac regione in *Exposit. Lich. N. Caledon.* p. 41 et in *Flora* 1867, p. 194 typus errore indicatur).

— Var. 2. **aurigera** Nyl. *Syn.* I, p. 341 et *Syn. Lich. N. Caled.* p. 14, ubi definitur. — *Sticta aurigera* Del., Nyl. *Lich. exot.* pp. 238 et 254, ubi etiam definitur; *Enum. Lich.* p. 103 in notula, *Sticta xanthosticta* Pers. = In eisdem locis ac typus; in Africa orientali (ins. Borbonia). — In Oceania (ins. Java, *Flora* 1866, p. 130; ins. Sandwich; Nova Caledonia).

— Var. 3. **albocyphellata** Nyl. *Syn.* loc. citat. et *Lich. exot.* p. 254, ubi definitur. = In Africa orientali (ins. Borbonia).

782. **S. (Parmostictina) hirsuta** Nyl. *Lich. Scand.* p. 95 et *Expos. Lich. N. Caled.* p. 41 in notulis, ubi definitur; *Lich. Fueg.* p. 26; *Flora* 1865, p. 296, et 1875, p. 363; *Conspect. Stict.* p. 4. — *Sticta hirsuta* Mont pr. p. (altera pars pertinet ad *Stictam obvolutam* Ach., infra n<sup>o</sup> 848); *Sticta obvoluta* Nyl. *Addit. Fl. chil.* p. 179 et *Enum. Lich.* p. 103). = In America tropica (Brasilia), meridionali (Chili) et australi (Patagonia et Fuegia).

— Var. **denudata** Nyl. — *Sticta obvoluta* var. *denudata* Nyl. *Addit. Fl. chil.* p. 179. = In America meridionali (Chili).

783. \* **S. (Parmostictina) Guillemirii** Nyl. *Lich. Fueg.* p. 26 in notula et *Lich. N. Zeland.* 1888, p. 37; *Stictina hirsuta* var. *Guillemirii* Nyl. *Lich. Scand.* p. 95 et *Exposit. Lich. N. Caled.* p. 41, ubi definitur in notulis. — *Sticta Guillemirii* Mont.; *Sticta hirsuta* var. *Guillemirii* Mont.; *Sticta obvoluta* var. *Guillemirii* Nyl. *Syn.* I, p. 362, ubi definitur; *Flora* 1866, p. 299; *Conspect. Stict.* p. 8 et *Enum. Lich.* p. 103. = In America tropica (Brasilia) et meridionali (Chili, *Addit. Fl. chil.* p. 179 et *Flora* 1855, p. 673; ins. Juan Fernandez).

784. **S. (Parmostictina) astictina** Nyl. *Lich. N. Zeland.* 1888, p. 30, ubi definitur. = In Oceania (Nova Zelandia).

Sectio B. — CYPHELLATÆ.

a. — *Thallus varie expansus haud stipitatus.*

785. **S. cometia** Nyl. *Syn.* I, p. 341, ubi definitur; *Flora* 1865, p. 296, et *Conspect.*



*Stict.* p. 4. — *Sticta cometia* Ach., Nyl. *Enum. Lich.* p. 103. = In America tropica (Peruvia, *Lich. exot.* p. 213, *Flora* 1856, p. 673, et 1874, p. 71).

786. **Stictina Humboldtii** Nyl. *Syn.* I, p. 341, ubi definitur; *Flora* 1865, p. 296 et *Conspect. Stict.* p. 4. — *Sticta Humboldtii* Hook., Nyl. *Enum. Lich.* p. 102. = In America tropica (Mexico; Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 536, n<sup>o</sup> 707 coll. Lindig, *Flora* 1864, p. 618 et *Lich. exot.* p. 214, *S. tomentella* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 18).

787. **S. tomentella** Nyl. *Syn.* I, p. 342, ubi definitur; *Flora* 1865, p. 296 et *Conspect. Stict.* p. 4. — *Sticta tomentella* Nyl. *Enum. Lich.* p. 102. = In America tropica (Peruvia).

788. **S. gyalocarpa** Nyl. *Syn.* I, p. 342, ubi definitur; *Flora* 1865, p. 296 et *Conspect. Stict.* p. 4. — *Sticta gyalocarpa* Nyl. *Enum. Lich. Supplém.* p. 335. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 18; in *Conspect. Stict.* indicatur in Peruvia).

— Var. **hirta** Nyl. *Syn.* I, loc. citat., ubi definitur; *Flora* 1865 p. 396. — *Sticta gyalocarpa* var. *hirta* Nyl. *Enum. Lich. Supplém.* p. 335; *Sticta cyathicarpa* Nyl. *Enum. Lich.* p. 102 et *Flora* 1858, p. 379; *Sticta obvoluta* Hook. = In America tropica (Mexico).

789. **S. Kunthii** Nyl. *Syn.* I, p. 342, ubi definitur; *Flora* 1856, p. 396 et *Conspect. Stict.* p. 4. — *Sticta Kunthii* Hook., Nyl. *Enum. Lich. Supplém.* p. 335; *S. gyalocarpa* Leight. *Lich. Amaz.*, 60; *Sticta cyathicarpa* Del. = In America tropica montana (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22, ed. 2<sup>a</sup> pp. 18 et 130 et *Addit.* p. 537; Peruvia, *Lich. exot.* p. 214 et *Flora* 1874, p. 71, et in hoc posteriore loco sporæ definiuntur; Venezuela; Brasilia).

— Var. **pilosella** Nyl. *Prodr. Fl. N. Granat.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 18, ubi definitur et *Addit.* p. 537; *Flora* 1865 et *Conspect. Stict.* locis citat. = In America tropica (Nova Granata).

790. **S. Lenormandii** Nyl. *Syn.* I, p. 343, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta Lenormandi* v. d. Bosch.; *Sticta laciniata* var. *Lenormandi* Nyl. *Enum. Lich. Supplém.* p. 335 et *Lich. exot.* p. 213. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22, ed. 2<sup>a</sup> p. 18 et *Addit.* p. 537; Peruvia).

— F. **laevis** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 18, ubi definitur. = In America tropica (Nova Granata).

791. **S. tomentosa** Nyl. *Syn.* I, p. 343, ubi definitur; *Flora* 1865, p. 296 et *Conspect. Stict.* p. 4. — *Lichen tomentosus* Sw. — *Sticta tomentosa* Ach., Nyl. *Enum. Lich.* p. 103. = In Africa meridionali (Portu Natali, *Lich. Port Natal*, p. 5). — In America tropica (Mexico, *Flora* 1858, p. 379, et *Mexic. Plant.* p. 4; Nova Granata, *Prodr. Fl. N. Granat.* ed. 1<sup>a</sup> p. 22, ed. 2<sup>a</sup> p. 18 et *Addit.* p. 537; Peruvia et Bolivia, *Flora* 1855, p. 673, *Lich. exot.* p. 214 et *Flora* 1874, p. 71).

— F. **leucoblepharis** Nyl. *Conspect. Stict.* p. 4 in notula. — *Sticta leucoblepharis* Tuck. et Mont. In *Lich. exot.* p. 214 cum typo jungitur. = In America tropica (Nova Granata).

— Var. **dilatata** Nyl. *Syn.* I, p. 344 et *Lich. And. Boliv.* p. 372, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta tomentosa* var. *dilatata* Nyl. *Enum. Lich. Supplém.* p. 335. Arcte vel nimis accedit ad *S. Lenormandii*, supra n<sup>o</sup> 790. = In Asia meridionali (India). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 22; Bolivia).

792. \* **S. pericarpa** Nyl. *Syn.* I, p. 343, ubi definitur. — *Sticta pericarpa* Nyl. *Lich. exot.* p. 214, ubi etiam definitur; *Enum. Lich.* p. 102. — *Stictina tomentosa* var. *pericarpa* Nyl. *Flora* 1865, p. 296 et *Conspect. Stict.* p. 5. = In America tropica (Peruvia, *Flora* 1874, p. 71).

793. \*\* **Stictina impressula** Nyl. *Flora* 1874, p. 71; *S. tomentosa* var. *impressula* Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 537, ubi definitur. = In America tropica (Nova Granata; Boliva).

794. **S. quercizans** Nyl. *Syn.* 1, p. 344 et *Syn. Lich. N. Caledon.* p. 14, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Lobaria quercizans* Mich. pr. p. — *Sticta quercizans* Ach. pr. p., Nyl. *Lich. exot.* p. 253, ubi definitur; *Enum. Lich.* p. 102; *Sticta Weigelii* Ach., quod nomen præferendum esset, Nyl. *Conspect. Stict.* p. 5, *Syn. Lich. N. Caled.* p. 14 et *Lich. Antill.* p. 7. Ab illa non differt *Sticta Jamesoni* Mont., quæ definitur in *Conspect. Stict.* p. 5 in notula et quæ in *Lich. And. Boliv.* p. 372 in notula refertur ad *Stictinum umbilicariiformem* Hochst.; nec *Sticta leucosticta* Hampe, nec etiam *Sticta Chinchonæ* Del., Nyl. *Enum. Lich. Supplém.* p. 335 et *Lich. exot.* p. 213. = In Asia meridionali. — In Africa tropica, orientali (ins. Borbonia, etc.) et occidentali (Guinea, *Flora* 1863, p. 265). — In America, ubi late distribuitur, tropica (Mexico, *Flora* 1858, p. 379 et *Mexic. Plant.* p. 4; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 49; Peruvia, *Flora* 1855, p. 673 et *Lich. exot.* p. 213) et australi (Fuegia, *Lich. Fueg.* p. 5; Fretum Magellanicum, *Flora* 1855, p. 673). — In Oceania (ins. Java; ins. Sandwich, *Lich. exot.* p. 238; ins. Taïti, *Prodr. Lich. N. Caled.* p. 280; Nova Caledonia, *Exposit. Lich. N. Caledon.* p. 41, et *Flora* 1866, p. 194).

— F. **Beauvoisii** Nyl. — *Sticta Beauvoisii* Del., Nyl. *Syn.* 1, p. 345, et *Lich. exot.* p. 253, ubi definitur; *Lich. exot.* p. 238; *Enum. Lich. Supplém.* p. 335. = In Africa orientali. — In America tropica. — In Oceania.

— Var. **peruviana** Nyl. *Syn.* 1, p. 345, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta sylvatica* var. *peruviana* Del. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 19; Peruvia, *Lich. exot.* p. 214 et *Flora* 1874, p. 71).

— Var. 2. **schizophylliza** Nyl. *Lich. Antill.* p. 7, ubi definitur. = In America tropica (Guadalupa).

795. \* **S. Gaudichaudii** Nyl. *Syn.* 1, p. 345, ubi definitur; *S. quercizans* var. *Gaudichaudii* Nyl. *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Sticta Gaudichaudii* Del., Nyl. *Enum. Lich.* p. 103 et *Supplém.* p. 335. = In America australi (Fuegia, *Lich. Fueg.* p. 5; ins. Maclovianis et Fretum Magellanicum).

796. \*\* **S. lutescens** Nyl. *Syn.* 1, p. 346, ubi definitur; *S. quercizans* var. *lutescens* Nyl. *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta lutescens* Tayl., *S. xanthostieta* Pers., Nyl. *Enum. Lich.* p. 103. Ab hac non differt *Sticta brasiliensis* Del. = In Oceania (ins. Java).

797. \*\*\* **S. strictula** Nyl. *Syn. Lich. N. Caledon.* p. 14, ubi definitur; *S. quercizans* var. *strictula* Nyl. *Syn.* 1, p. 345, ubi etiam definitur; *Sticta damæcornis* var. *strictula* Nyl. *Lich. exot.* p. 238 et p. 253 et *Enum. Lich.* p. 102. = In Africa orientali (ins. Borbonia, Mauritii et Madagascar). — In Oceania (Polynesia).

798. **S. macrophylla** Nyl. *Flora* 1869, p. 118 in notula — *Sticta macrophylla* Bory, Del.; *Sticta damæcornis* var. *macrophylla* Bab., Nyl. *Syn.* 1, p. 356, ubi definitur; *Flora* 1865, p. 298 et *Consp. Stict.* p. 7; *Enum. Lich.* p. 102 pr. p. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253 ubi legitur: *macrophylla* Hook., loco *macrophyllæ* Bor., Del.; ins. Mauritii et Madagascar).

— Var. **speirocarpa** Nyl. *Flora* 1869, loc. citat., ubi definitur. = In Oceania (Australia).

799. **S. Ambavillaria** Nyl. *Syn.* 1, p. 346, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Lichen Ambavillarius* Bory. — *Sticta Ambavillaria* Del., Nyl. *Enum. Lich.* p. 102. — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253; Madagascar) et meridionali (Promont. Bonæ Spei). — In Oceania (ins. Sandwicensibus, *Lich. exot.* p. 237).

— Var. **papyrina** Nyl. *Syn.* I, p. 346, ubi definitur. — *Sticta Ambavillaria* var. *papyrina* Nyl. *Enum. Lich.* p. 102. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253; Madagascar).

800. **Stictina limbata** Nyl. *Syn.* I, p. 346, ubi definitur; *Enum. Lich.* p. 102; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Lichen limbatus*. = In Europa.

— Var. 1. **subflavida** Bab., Nyl. *Lich. N. Zeland.* 1888, p. 31. Dubitatur an sit recte determinata. = In Oceania (Nova Zelandia).

— Var. 2 **umbilicariiformis** Nyl. *Syn.* I, p. 347, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Sticta umbilicariiformis* Hochst. = In Africa orientali (Abysinia).

801. **S. andensis** Nyl. *Flora* 1864, p. 617; *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 537; *Conspect. Stict.* p. 5; *S. limbata* var. *umbilicariiformis* f. *andensis* Nyl. *Flora* 1865, p. 297; *S. umbilicariiformis* Nyl. *Lich. And. Boliv.* p. 372, ubi definitur. = In America tropica (Nova Granata; Bolivia).

— **F. dividens** Nyl. *Lich. And. Boliv.* p. 372, ubi definitur. = In America tropica (Bolivia).

802. **S. fuliginosa** Nyl. *Syn.* I, p. 347, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Lichen fuliginosus* Dieks. — *Sticta fuliginosa* Del., Nyl. *Enum. Lich.* p. 102 et *Supplém.* p. 335. = In Africa orientali (ins. Borbonia) et occidentali (Guinea, *Flora* 1863, p. 265). — In America tropica (Mexico, *Flora* 1858, p. 379; Nova Granata, *Prodr. Fl. N. Granat.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 19; Peruvia, *Lich. exot.* p. 214; Bolivia, *Lich. And. Boliv.* p. 273) et australi (Chili, *Addit. Fl. chil.* p. 180; Patagonia et Fuegia, *Lich. Fueg.* p. 26). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 246, et 1888, p. 31). — Etiam in Europa.

— **F. 1. obvoluta** Nyl. *Syn.* I, 347, ubi definitur; *Sticta obvoluta* Del., Nyl. *Enum. Lich. Supplém.* p. 335. = In America frequens, sed in Europa rara.

— **F. 2. Wildenovii** Nyl. *Syn.* I, pp. 347 et 348, ubi definitur; *Sticta Wildenowii* Del., Nyl. *Enum. Lich. Supplém.* p. 335. = In America.

803. **S. sylvatica** Nyl. *Syn.* I, p. 348, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Lichen sylvaticus* L. — *Peltigera* et *Pulmonaria sylvatica* Hoffm. — *Sticta sylvatica* Ach., Nyl. *Enum. Lich.* p. 102. = In Africa boreali (Algeria). — In America boreali. — Etiam in Europa.

804. **S. Dufourii** Nyl. *Syn.* I, p. 348, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta Dufourei* Del., Nyl. *Enum. Lich.* p. 102. = In Africa boreali (ins. Madera, *Lich. Madère* p. 188; ins. Canariis). — Etiam in Europa.

b. — *Thalhus substipitatus* vel *stipitatus*.

805. **S. Boschiana** Nyl. *Syn.* I, p. 348, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Sticta Boschiana* Mont., Nyl. *Enum. Lich.* p. 102. = In Oceania (ins. Java).

806. **S. filicina** Nyl. *Syn.* I, p. 349, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 5. — *Sticta filicina* Ach. pr. p., Nyl. *Enum. Lich.* p. 102; *Sticta biatora* de Notar. et *Sticta caerulea* de Notar. = In Asia meridionali (India, ubi variat, *Flora* 1865, p. 297). — In America tropica (Jamaica) et australi (Chili, *Addit. Fl. chil.* p. 180; Patagonia et Fuegia, *Lich. Fueg.* p. 26). — In Oceania (ins. Java; ins. Taïti, *Lich. exot.* p. 237). In *Syn.* loc. citat. indicatur in Nova Zelandia, sed hic de *Sticta Filice* Nyl. agitur, *Lich. N. Zeland.* 1888, p. 32, in notula et infra n<sup>o</sup> 836.

— **F. latissima** Nyl. apud Croub. *Falkl isl.* p. 229, ubi definitur. = In America australi (fretum Magellanicum).



— Var **stenoloba** Nyl. *Conspect. Stict.* p. 5. — *Sticta filicina* var. *lineariloba* Mont. = In Oceania (ins. Java).

807. **Stictina marginifera** Nyl. *Syn. Lich. N. Caled.* p. 44, ubi definitur; *S. filicina* var. *marginifera* Nyl. *Syn.* I, p. 349, *Lich. N. Caled. Prodr.* p. 282 et *Exposit.* p. 41; *Conspect. Stict.* p. 5 : — *Sticta marginifera* Mont. = In America meridionali (Chili). — In Oceania (Nova Caledonia, *Flora* 1867, p. 194; in *Lich. N. Zeland.* 1888, p. 32 in notula cum *S. filicina* Nyl. jungitur).

808. **S. filicinella** Nyl. *Syn.* I, p. 349, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 6; *Enum. Lich.* p. 402 = In America tropica (Venezuela; Columbia).

809. **S. ciliaris** Nyl. *Syn.* p. 350, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta ciliaris* Mont. et v. d. Bosch. = In Oceania (ins. Java).

810. **S. orbicularis** Nyl. *Syn.* loc. citat., ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta filicina* var. *orbicularis* Mey. et Flot., *Sticta marginalis* Bor., Nyl. *Lich. exot.* p. 253, ubi etiam definitur; *Enum. Lich.* p. 402; *Sticta fungoides* Hepp et *Sticta pusilla* Meisn. = In Africa orientali (ins. Borbonia).

811. **S. peltigerella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 49, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. = In America tropica (Nova Granata).

#### Subtribus II. — Eustictei.

#### Gen. LXI. — LOBARIA Nyl.

812. **L. pulmonacea** Nyl. *Flora* 1865, p. 297 et *Conspect. Stict.* p. 6. — *Lichen pulmonarius* L. — *Sticta pulmonacea* Ach., Nyl. *Syn.* I, p. 351, tab. VIII, fig. 44, ubi definitur; *Enum. Lich.* p. 402. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4). — In Africa boreali (Algeria, *Lich. Algér.* p. 310), meridionali (promont. Bonæ Spei) et occidentali (ins. Canariis; ins. Madera, *Lich. Madère* p. 488). — In America septentrionali præcipue et etiam tropica (Peruvia, *Lich. exot.* p. 213). — In Oceania (Australia). — Etiam in Europa.

Tres hujus speciei varietates : 1<sup>o</sup> *agregata* Del., 2<sup>o</sup> *papillaris* Del. et 3<sup>o</sup> *hypomela* Del. in Nyl. *Syn.* p. 352 describuntur, sed Gallia tantum pro eis observandis citatur (1). In America lecta fuerunt specimina *Celidio Stictarum* Tul. infestata, quæ sistunt *Stictam pulmonaceam* var. *pleurocarpam* Ach., et genera *Deliseam* et *Plectocarpon* Fée.

813. **L. linita** Nyl. *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta linita* Ach., Nyl. *Syn.* I, p. 353, ubi definitur; *Enum. Lich.* p. 402. = In Asia boreali (Laurencebay, etc., *Lich. Fr. Behr.* pp. 8, 44, ubi cephalodia et sporæ definiuntur, et p. 53). — In America boreali (Port-Clarence, Alaska, *Lich. Fr. Behr.* pp. 62 et 86). — Etiam in Europa.

— Var. **ochroleuca** Nyl. *Syn.* loc. citat. ubi definitur. = In America arctica.

#### Gen. LXII. — STICTA Ach. pr. p.

##### Sectio A. — CYPHELLATE, CYPHELLIS THELOTREMOIDEIS VEL URCEOLATIS.

##### a. — *Thallus varie expansus non stipitatus.*

814. **S. carpolomoides** Nyl. *Syn.* I, p. 354 et *Lich. N. Caledon. Exposit.* p. 41 necnon *Syn.* p. 45, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 6. — *Sticta filicina* Mont. et v. d. Bosch e Java, Nyl. *Conspect. Stict.* p. 5 in notula. = In Oceania (ins. Java; Nova

(1) D<sup>r</sup> E. Stizenberger in *Lich. ins. Maderæ*, Coimbricæ, 1887, notat in ins. Madera varietates *papillarem* et *hypomelam*.

Caledonia, *Flora* 1867, p. 194 et n<sup>os</sup> 79 e coll. Vieill. in *Prodr. Lich. Caled.* p. 282 sub *S. filicina* var. *marginifera* Nyl. positus).

815. **Sticta lineariloba** Nyl. *Syn.* I, p. 355, ubi definitur; *Flora* 1865, p. 297 et *Conspect. Stict.* p. 6. — *Sticta filicina* var. *lineariloba* Mont. *Chil.* p. 122 non *Jav.* = In America meridionali (Chili) et australi (Patagonia et Fuegia, *Lich. Fueg.* p. 26).

— Var. **hypopsila** Nyl. *Syn.* I, p. 355, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat. — *Sticta filicina* var. *lineariloba* subvar. *hypopsila* Mont. *Chil.* loc. citat. = In America tropica (Venezuela, *Lich. exot.* p. 213) et meridionali (Chili).

816. **S. dichotomoides** Nyl. *Syn.* I, p. 355, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat.; *Sticta damæcornis* var. *linearis* Mont., Nyl. *Lich. exot.* p. 238, ubi definitur; *Prodr. Lich. N. Caled.* p. 280 et *Enum. Lich.* p. 102. = In Oceania (ins. Taïti).

817. **S. damæcornis** Ach., Nyl. *Syn.* I, p. 356, ubi definitur; *Enum. Lich.* p. 102, *Flora* 1865, p. 297 et *Conspect. Stict.* p. 6. — *Lichen damæcornis* Swartz. — *Platysma cornu damæ* Hoffm. et *Sticta macrophylla* Schær. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253; ins. Mauritii et Madagascar), meridionali (promont. Bonæ Spei) et occidentali (ins. Madera, *Lich. Madère*, p. 188). — In America tropica (Mexico, *Flora* 1858, p. 379; Peruvia et Bolivia, *Flora* 1855, p. 673 et *Lich. exot.* p. 213) et australi (Patagonia et Fuegia, *Lich. Fueg.* p. 26). — In Oceania (ins. Java; Australia; ins. Taïti, *Lich. exot.* p. 237). — Etiam in Europa (Hibernia).

— F. 1. **canariensis** Nyl. *Syn.* I, loc. citat., ubi definitur; *Conspect. Stict.* p. 6. — *Sticta canariensis* Del. = In Africa occidentali (ins. Canariis). — In America tropica (India occidentali et Brasilia).

Ab hac forma *canariensi* non differt *Sticta macrophylla* Hook., Nyl. *Syn.* I, loc. citat., *Enum. Lich.* p. 102 pro Java tantum; pro insulis Africæ orientalis vide supra n<sup>o</sup> 798. Illa *S. macrophylla* Hook. indicatur in America tropica (Mexico, *Flora* 1858, p. 379; Bolivia, *Lich. exot.* p. 213). — In Oceania (ins. Java; Polynesia, *Lich. exot.* p. 238 et *Lich. îles Marquis.* p. 301).

— F. 2. **rufa** Nyl. *Enum. Lich.* p. 102; *Sticta rufa* Del. *Hist. des Lich.* p. 47, tab. 2, fig. 4. = In America tropica, ubi late distribuitur (Mexico, *Flora* 1858, p. 379, et *Mexic. Plant.* p. 4).

— F. 3. **subdiluta** Nyl. *Flora* 1869, p. 117, ubi definitur. = In America tropica (Brasilia).

— Var. 1. **sinuosa** Nyl. *Syn.* I, p. 356, ubi definitur; *Flora* 1865, p. 298 et *Conspect. Stict.* p. 7; *Sticta sinuosa* Pers., Nyl. *Enum. Lich.* p. 102. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 20, ubi sporæ definiuntur; Bolivia, *Lich. exot.* p. 213). — In Oceania (ins. Philippinis; Polynesia, *Lich. exot.* p. 238).

— Var. 2. **subscrobiculata** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 537, ubi definitur. = In America tropica (Nova Granata).

818. \* **S. glomuligera** Nyl. *Mexic. Plant.* p. 4, ubi definitur. = In America tropica (Mexico).

819. \*\* **S. subsinuosa** Nyl. *Flora* 1869, p. 118, ubi definitur; *Lich. N. Zeland.* 1888, p. 32 in notula. = In America tropica (Brasilia).

820. \*\*\* **S. diluta** de Notar., Nyl. *Flora* 1869, p. 118, ubi definitur. In *Conspect. Stict.* p. 6 in notula cum *S. damæcorni* Ach. jungitur. = In America tropica (Brasilia).

821. **S. laciniata** Ach., Nyl. *Syn.* I, p. 354 et *Flora* 1869, p. 118, ubi definitur; *Enum. Lich.* p. 103, *Flora* 1865, p. 297 et *Conspect. Stict.* p. 6. — *Lichen laciniatus* Swartz. = In America tropica (Mexico, *Mexic. Plant.*, p. 4; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23, ed. 2<sup>a</sup> p. 19 et *Addit.* p. 537; Peruvia, *Lich. exot.* p. 213; Brasilia).

— Var. 4. **denudata** Nyl. *Syn.* loc. citat., ubi definitur; *Enum. Lich. Supplém.*

- p. 335. = In America tropica (Venezuela; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 20).
- Var. 2. **laeviuscula** Nyl. *Syn.* loc. citat., ubi definitur; *Enum. Lich.* p. 103. = In America tropica (Mexico, *Flora* 1858, p. 379; Venezuela et Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 20, et in hoc posteriore loco adhuc definitur).
822. \* **Sticta boliviana** Nyl. *Flora* 1874, p. 71, ubi definitur pr. p.; *Sticta laciniata* var. *dilatata* Nyl. *Lich. And. Boliv.* p. 373, ubi definitur. = In America tropica (Bolivia).
823. \*\* **S. patula** Del. *Hist. des Lich.* p. 122, tab. 13, fig. 50, Nyl. *Flora* 1869, p. 118 in notula, et 1874, p. 71. = In America tropica (Chimborazo).
824. \*\*\* **S. granatensis** Nyl. *Flora* 1874, p. 71, ubi definitur; *Sticta laciniata* var. *dilatata* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 19. = In America tropica (Nova Granata).
825. **S. orizabana** Nyl. *Flora* 1869, p. 118 in notula, ubi definitur. = In America tropica (Mexico).
826. **S. caperata** Bory, Nyl. *Flora* 1869, p. 118 in notula et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 20 in notula, ubi definitur; *Sticta damæcornis* var. *caperata* Nyl. *Syn.* I, p. 357, pr. p., ubi etiam definitur; *Flora* 1865, p. 298 pr. p. et *Conspect. Stict.* p. 7 pr. p. = In Africa occidentali (ins. Borbonia, *Lich. exot.* p. 253; Madagascar).
- Var. **javanica** Nyl. *Flora* 1869, p. 218 in notula, ubi definitur; *Sticta damæcornis* var. *caperata* Nyl. *Enum. Lich.* p. 102, sed in *Syn.* I, *Flora* 1865 et *Conspect. Stict.* locis citat. pr. p. tantum; *Sticta patula* Mont. et v. d. Bosch. = In Oceania (ins. Java et Philippinis; Polynesia, *Lich. exot.* p. 237, ubi definitur pr. p. sub nomine: *S. caperata*).
827. \* **S. subcaperata** Nyl. *Lich. N. Zeland.* 1888, p. 31, ubi definitur; Lojka *Lich. univ.* n<sup>o</sup> 116. *S. damæcornis* var. *subcaperata* Nyl. *Lich. N. Zeland.* 1861, p. 247 et *Flora* 1865 p. 298 in notula, ubi definitur, et p. 337 in notula; *Conspect. Stict.* p. 7. Est forsitan *S. sinuosa* Bab., cui adjungitur var. *papyracea* Bab. = In Oceania (Nova Zelandia).
828. **S. internectens** Nyl. *Lich. N. Zeland.* 1888, p. 32, ubi definitur. = In Oceania (Nova Zelandia).
829. **S. dichotoma** Del., Nyl. *Enum. Lich.* p. 102, *Flora* 1865 et *Conspect. Stict.* locis citat., et *Flora* 1869, p. 118 in notula, ubi definitur pr. p.; *S. damæcornis* var. *dichotoma* Nyl. *Syn.* I, p. 357, ubi definitur. = In Africa orientali (ins. Borbonia et Mauritii).
830. **S. plumbea** Del., Nyl. *Syn.* I, p. 357 et *Flora* 1869, p. 118 in notula, ubi definitur. = In Africa orientali (ins. Borbonia, Mauritii et Madagascar).
831. **S. platyphylla** Nyl. *Syn.* I, p. 357, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat.; *Enum. Lich.* p. 102. = In Asia meridionali (India).
832. **S. platyphylloides** Nyl. *Lich. N. Zeland.* 1888, p. 32 in notula et apud Hue *Lich. Yunn.* p. 21, ubi definitur. = In Asia orientali (China).
833. **S. variabilis** Ach., Nyl. *Syn.* I, p. 357, ubi definitur; *Enum. Lich.* p. 102, *Flora* 1865, p. 293 et *Conspect. Stict.* p. 7. — *Lichen variabilis* Bory. — *S. chloroleuca* Hook. et Tayl. et *S. propaginea* Tayl. = In Africa orientali (Borbonia, *Lich. exot.* p. 254; ins. Mauritii) et meridionali (Portu Natali, *Lich. Port Natal*, p. 5). — In Oceania (ins. Java: Australia; ins. Taïti et Fidji, *Lich. exot.* p. 238; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 32).
- Var. 1. **Boryana** Nyl., *Syn.* loc. citat. et *Lich. exot.* p. 254, ubi definitur; *Enum. Lich.* p. 102; *S. Boryana* Del. = In Africa orientali (ins. Borbonia et Madagascar)
- Var. 2. **glaberrima** Nyl.; *S. glaberrima* Laur., Nyl. *Syn.* I, p. 358, ubi definitur; *S. variabilis* var. *linearifolia* Nyl. *Lich. exot.* p. 254, ubi etiam definitur. = In Africa orientali (ins. Mauritii).
834. **S. hypopsiloides** Nyl. *Lich. N. Caledon. Exposit.* p. 42 et *Syn.* p. 15, ubi definitur;



*Flora* 1865, p. 298 et *Conspect. Stict.* p. 7; *Flora* 1867, p. 194; *S. damæcornis* var. *dichotoma* Nyl. *Prodr. Lich. N. Caledon.* p. 282. = In Oceania (Nova Caledonia).

835. **Sticta cinereo-glauc**a Tayl., Nyl. *Syn.* I, p. 358, ubi definitur; *Enum. Lich.* p. 102; *Flora* 1865 et *Conspect. Stict.* locis citat. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 34).

b. — *Thallus stipitatus.*

836. **S. Filix** Nyl. *Lich. N. Zeland.* 1861, p. 246, et 1888, p. 32, ubi definitur; *Flora* 1865, p. 298 et *Conspect. Stict.* p. 7; *Sticta filicina* Ach. pr. p. — *Sticta filicina* Nyl. *Syn.* I, p. 349, quoad Novam Zelandiam tantum. — *Platysma Filix* Hoffm. *Plant. Lich.* III, p. 1, tab. 55, fig. 1 et 2; *Lichen Filix* Sw. = In Oceania (Nova Zelandia).

837. \* **S. parvula** Nyl. *Lich. N. Zeland.* 1888, p. 33, ubi definitur; *Conspect. Stict.* p. 7; *S. Filix* var. *parvula* Nyl. *Lich. N. Zeland.* 1861, p. 247, ubi etiam definitur; *Flora* 1865, pp. 298 et 337 in notula. = In Oceania (Nova Zelandia).

838. **S. latifrons** Richard, Nyl. *Lich. N. Zeland.* 1861 p. 246, et 1888, p. 33, et *Flora* 1874, p. 72, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat.; *Sticta filicina* var. *latifrons* Nyl. *Enum. Lich.* p. 102. In *Syn.* I, p. 349, perperam ponitur sub *Stictina filicina*. = In Oceania (Nova Zelandia).

— Var. **Menziesii** Nyl. *Lich. N. Zeland.* 1861, p. 246 in notula, et 1888, p. 34, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat.; *Sticta Menziesii* Hook. fil.; *Sticta filicina* var. *Menziesii* Nyl. *Enum. Lich.* p. 102. Hæc etiam in *Syn.* I, loc. citat. perperam ponitur sub *Stictina filicina* et ibi definitur. = In Oceania (Nova Zelandia).

Sectio B. — PSEUDOCYPHELLATÆ.

a. — *Pseudocyphellæ citrinæ.*

839. **S. endochrysea** Del., Nyl., *Syn.* I, p. 358, ubi definitur; *Flora* 1865, p. 298 et *Conspect. Stict.* p. 7; *S. endochrysa* Nyl. *Enum. Lich.* p. 103; *Sticta Lechleri* Flot. = In America australi (Chili, *Addit. Fl. chil.* p. 179, et ibi viget forma thallo intus albo; Fuegia, *Lich. Fueg.* p. 5).

— F. 1. **angustiloba** Mont., Nyl. *Syn.* I, p. 359, ubi definitur. = In America australi (Chili).

— F. 2. **imbricatula** Nyl. *Syn.* I, p. 359, ubi definitur; *Sticta imbricatula* Tayl. = In America australi (ins. Juan Fernandez).

— F. 3. **pubescens** Nyl. *Syn.* I, loc. citat., ubi definitur; *Sticta pubescens* Pers. = In America australi (ins. Maclovianis). *Sticta Feei* Del., Nyl. *Syn.* I, p. 359, ubi definitur, *Enum. Lich. Supplém.* p. 335, in America septentrionali ponitur a Delise, sed hæc valde dubia remanet, et quapropter hoc nomen forsitan delendum.

840. \* **S. vaccina** Mont., Nyl. *Syn.* I, p. 359, ubi definitur; *Enum. Lich.* p. 103; *Sticta endochrysea* var. *vaccina* Mont., Nyl. *Flora* 1865 et *Conspect. Stict.* locis citat. = In America australi (Chili, *Addit. Fl. chil.* p. 180; Patagonia et Fuegia, *Lich. Fueg.* p. 26).

841. **S. nitida** Tayl., Nyl. *Syn.* I, p. 359, ubi definitur; *Enum. Lich.* p. 102 et *Supplém.* p. 335; *Flora* 1865 et *Conspect. Stict.* locis citat.; *Sticta flabellata* Mont., Nyl. *Addit. Fl. chil.* p. 180. = In America australi (Chili; Patagonia, *Lich. Fueg.*, p. 26).

842. **Urvillei** Del., Nyl. *Syn.* I, p. 360, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat., *Sticta d'Urvillei* Del., Nyl. *Enum. Lich.* p. 103; *S. endochrysa* Hook. fil. = In America australi (Chili; ins. Maclovianis; Fretum Magellanicum). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 247, et 1888, p. 35).

— Var. 1. **orygmæoides** Nyl. *Syn.* I, loc. citat., ubi definitur; *Enum. Lich. Supplém.* p. 335; *Flora* 1865 et *Conspect. Stict.* locis citat.; *S. orygmæa* Del. et pro magna parte *S. d'Urvillei* Bab. = In America australi (in eisdem regionibus ac typus, insuper in Patagonia et Fuegia, *Lich. Fueg.* p. 26).

— Var. 2. **flavicans** Nyl. *Syn.* I, loc. citat., ubi definitur; *Enum. Lich. Supplém.* p. 335; *Flora* 1865 et *Conspect. Stict.* locis citat.; Arn. *Exsicc.* n° 1200. *Sticta flavicans* Hook. et Tayl. = In America australi (Patagonia et Fuegia, *Lich. Fueg.* p. 26; ins. Maclovianis; cap Horn; freto Magellanico). — In Oceania (ins. Nukahiva; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 247, et 1888, p. 35).

— Var. 3. **Colensoi** Nyl. *Syn.* I, p. 360 et *Lich. N. Zeland.* 1888, p. 35, ubi definitur; *Flora* 1865, p. 298 et *Conspect. Stict.* p. 7; *S. Colensoi* Bab., Nyl. *Enum. Lich.* p. 103. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 247; Tasmania).

843. **Sticta orygmæa** Ach., Nyl. *Syn.* I, p. 360 et *Syn. Lich. N. Caled.* p. 16, ubi definitur; *Enum. Lich.* p. 103; *Flora* 1865, p. 298, et *Conspect. Stict.* p. 2; Arn. *Exsicc.* 1214 et Lojka *Lich. univ.* n° 117. = In America meridionali (Chili, *Addit. Fl. chil.* p. 179) et australi (Patagonia, *Lich. Fueg.* p. 26; freto Magellanico, *Flora* 1855, p. 673 et ibi viget typus et varietas fronde margine microphylo diviso). — In Oceania (Nova Caledonia, *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 247, et 1888, p. 35; ins. Auckland; ins. Campbell, *Lich. Campb.* p. 89).

844. **S. (Parmosticta) aurata** Ach., Nyl. *Syn.* I, p. 361, tab. I, fig. 8, et *Syn. Lich. N. Caled.* p. 16, ubi definitur; *Enum. Lich.* p. 103, *Flora* 1865, p. 298, *Conspect. Stict.* p. 8 et *Flora* 1875, p. 363. — *Nephroma auratum* Pers.; *Telephora aurea* Gœb. = In Asia tropica. — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254 et aliis ins. Mascarenis; Madagascar), meridionali (Portu Natali, *Lich. Port Natal* p. 5; Promont. Bonæ Spei) et occidentali (ins. S. Helenæ; ins. Canariis; Madera, *Lich. Madère*, p. 188). — In America tropica (Mexico, *Flora* 1858, p. 379, et *Mexic. Plant.* p. 4; Guadalupa, *Lich. Antill.* p. 7; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 20; Bolivia, *Lich. exot.* p. 214 et *Lich. And. Boliv.* p. 373). — In Oceania (Australia; ins. Taïti, *Lich. exot.* p. 238; Nova Caledonia, *Exposit. Lich. N. Caledon.* p. 43, et *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 35). — Etiam in Europa.

— **F. aurora** Nyl. *Syn.* loc. citat., ubi definitur, et *Lich. exot.* p. 254; *S. aurora* de Notar. et *S. clathrata* ejusdem.

— Var. 1. **angustata** Nyl. *Syn.* I, et *Lich. exot.* locis citat., ubi definitur; *S. angustata* Del. = In Africa orientali (ins. Borbonia; Madagascar). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 35).

— Var. 2. **pallens** Nyl. *Syn.* I, loc. citat., ubi definitur. = In Oceania (Nova Zelandia).

845. **S. (Parmosticta) rubella** Hook. et Tayl., Nyl. *Syn.* I, p. 361, ubi definitur; *Enum. Lich. Supplém.* p. 335, *Flora* 1865, p. 298 et *Conspect. Stict.* p. 8. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 247, et 1888, p. 35; Tasmania).

846. **S. (Parmosticta) granulata** Bab., Nyl. *Lich. N. Zeland.* 1861, p. 247, et 1888, p. 36, ubi definitur; *Flora* 1865 et *Conspect. Stict.* locis citat.; *Stictina granulata* Nyl. *Syn.* I, p. 340, ubi etiam definitur; *Sticta Richardi* var. *granulata* Nyl. *Enum. Lich. Supplém.* p. 335; *Exposit. Lich. N. Caledon.* p. 41 in notula. = In America australi (freto Magellanico, *Lich. N. Zeland.* 1888, p. 444). — In Oceania (Nova Zelandia; Tasmania).

847. **S. (Parmosticta) glauco-lurida** Nyl. *Flora* 1867, p. 438, et *Lich. N. Zeland.* 1888, p. 36, ubi definitur; *Conspect. Stict.* p. 8; Arn. *Exsicc.* 1199. = In Oceania (Nova Zelandia).

848. **S. (Parmosticta) obvoluta** Ach., Nyl. *Syn.* I, p. 362, *Lich. Scand.* p. 95 et *Exposit. Lich. N. Caledon.* p. 41 in notulis et *Lich. Fueg.* p. 26, ubi definitur; *Flora* 1865.

p. 299 et *Conspect. Stict.* p. 8. = In America australi (Patagonia et Fuegia; Fretum Magellanico). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 36).

b. — *Pseudocyphellæ albæ.*

849. **Sticta dissimulata** Nyl. *Syn.* I, p. 362 et *Lich. N. Zeland.* 1888, p. 37, ubi definitur; *Flora* 1865, p. 299 et *Conspect. Stict.* p. 8; *Sticta Richardi* Mont. et v. d. Bosch *Jav.* n° 11, non *Sylog.*; *Sticta sulphurea* Schær. et pr. p. *Sticta dichotoma* Mont. et v. d. Bosch *Jav.* n° 12; hæc posterior indicatur in *Conspect. Stict.* p. 7 in notula. Medulla K —. = In America australi (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (ins. Java, *Flora* 1866, p. 130; Nova Zelandia).

850. \* **S. multifida** Laur., Nyl. *Lich. N. Zeland.* 1888, p. 37, ubi definitur; *Flora* 1865, et *Conspect. Stict.* locis citat.; Arn. *Exsicc.* 1198; Lojka *Lich. univ.* n° 118. *Sticta dissimulata* var. *multifida* Nyl. *Syn.* I, p. 363 et *Lich. N. Zeland.* 1861, p. 248, ubi definitur etiam; *Sticta cinereo-glaucæ* Hampe. = In Oceania (ins. Java, *Flora* 1866, p. 130; Australia; Polynesia; Nova Zelandia).

851. **S. fossulata** Duf., Nyl. *Syn.* I, p. 363, ubi definitur; *Flora* 1865, p. 299 et *Conspect. Stict.* p. 8; Arn. *Exsicc.* 1215; Lojka *Lich. Univ.* n° 119; *S. Flotowiana* Laur.; *S. impressa* Tayl. et *S. carpoloma* Rich. Medulla K —. = In America australi (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (Australia; Tasmania; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 248, et 1888, p. 37).

— F. 1. **linearis** Nyl. *Syn.* I, p. 364, ubi definitur; *Sticta linearis* Hook. et Tayl. = In Oceania (Tasmania).

— F. 2. — **Richardii** Nyl. *Syn.* I, p. 364, *Lich. N. Zeland.* 1888, p. 37 et *Flora* 1865, p. 290, ubi definitur; *Conspect. Stict.* p. 8; *Sticta Richardi* Bab., Mont., Nyl. *Enum. Lich.* p. 103. Medulla K —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 248).

— Var. **subcyphellata** Nyl. *Syn.* I, p. 364 et *Lich. N. Zeland.* 1888, p. 37, ubi definitur; *Flora* 1865, p. 299 et *Conspect. Stict.* p. 8. An sit *S. Richardi* (Mont.) Nyl. *Addit. Fl. chilens.* p. 180? = In Africa orientali (ins. Madagascar). — In America australi (Chili). — In Oceania (Nova Zelandia).

852. **S. cellulifera** Tayl., Nyl. *Lich. N. Zeland.* 1888, p. 38, ubi definitur; *S. foveolata* var. *cellulifera* Bab., Nyl. *Syn.* I, p. 364, ubi definitur; *Flora* 1865, p. 299 et *Conspect. Stict.* p. 8. Medulla K flavet. = In Oceania (Nova Zelandia).

— F. **Billardieri** Nyl. *Lich. N. Zeland.* 1888, p. 37, ubi definitur; *Sticta Billardieri* Del. *Stict.* p. 99, tab. 8, fig. 35. In Nyl. *Syn.* I, p. 363 cum typo jungitur; dein p. 364, æque in *Flora* 1869 et *Conspect. Stict.* locis citat., *S. Labillardieri* vocatur. Medulla K + flavet. = In America meridionali australi (Chili, *Addit. Fl. chil.* p. 180). — In Oceania (Tasmania; Nova Zelandia).

853. **S. physciospora** Nyl. *Syn.* I, p. 364, *Lich. Campb.* p. 89 et *Lich. N. Zeland.* 1888, p. 38, ubi definitur; Lojka *Lich. univ.* n° 120; *S. fossulata* var. *physciospora* Nyl. *Flora* 1865 et *Conspect. Stict.* locis citat.; *Sticta impressa* Tayl. = In America australi (Patagonia et Fuegia, *Lich. Fueg.* p. 23). — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 248; ins. Auckland; ins. Campbell).

854. **S. subvariabilis** Nyl. *Flora* 1867, p. 439, et *Lich. N. Zeland.* 1888, p. 38, ubi definitur; *Conspect. Stict.* p. 8. = In Oceania (Nova Zelandia).

855. **S. punctulata** Nyl. *Syn.* I, p. 364, ubi definitur; *Enum. Lich.* p. 102, *Flora* 1865, p. 299 et *Conspect. Stict.* p. 8; *Sticta quercifolia* Tayl., *S. canariensis* Schær. et *S. dichotoma* Mont. pr. p. (hæc posterior in *Conspect. Stict.* p. 7 in notula). = In Asia meridionali (ins. Ceylonia). — In Oceania (ins. Java; Philippinis).



856. **Sticta homœophylla** Nyl. *Flora* 1867, p. 439, et *Lich. N. Zeland.* 1888, p. 38, ubi definitur; *Conspect. Stict.* p. 8. = In Oceania (Nova Zelandia).

857. **S. subcoriacea** Nyl. *Lich. N. Zeland.* 1888, p. 34, ubi definitur et ibi hoc systematico loco ponenda dicitur; *Lich. N. Zeland.* 1861, p. 247, et *Flora* 1863, p. 298 in notula, ubi definitur; *Conspect. Stict.* p. 7; *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

858. **S. prolificans** Nyl. *Lich. N. Caledon. Exposit.* p. 42 et *Syn.* p. 16, æque ac *Flora* 1866, p. 131, ubi definitur; *Flora* 1865, p. 299 et *Conspect. Stict.* p. 8; *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).

859. **S. Freycineti** Del., Nyl. *Syn.* I, p. 365 et *Conspect. Stict.* p. 9, ubi definitur; *Enum. Lich.* p. 103 et *Flora* 1863, p. 299; Lojka *Lich. univ.* n° 121; *Sticta glabra* Hook. et Tayl. = In omnibus regionibus antarcticis abunde distributa. In America australi (Chili, *Addit. Fl. chil.* p. 180; ins. Juan Fernandez; Fuegia, *Lich. Fueg.* p. 5; ins. Maclovianis; Fretum Magellanicum). — In Oceania (Australia; Tasmania; Nova Zelandia, *Lich. N. Zelandie* 1861, p. 248, et 1888, p. 39; ins. Auckland; ins. Campbell, *Lich. Campb.* p. 89).

*Sticta Delisea* Fée, *S. pseudosticta* Fée, *S. Freycinetii* var. *Delisea* Bab., Nyl. *Enum. Lich.* p. 103 est typus, ut dicitur in *Syn.* I, loc. citat., apotheciis *Celidio* parasita contaminatis.

— Var. **isidioloma** Nyl. *Conspect. Stict.* p. 9 et *Lich. N. Zeland.* 1888, p. 39, ubi definitur; *Flora* 1865, p. 199. = In Oceania (Nova Zelandia).

860. \* **S. lactucæfolia** Nyl. *Lich. N. Zeland.* 1888, p. 39; *S. Freycineti* var. *lactucæfolia* Nyl. *Flora* 1863, p. 299, *Conspect. Stict.* p. 9 et *Lich. Fueg.* p. 26; *S. Freycinetii* var. *fulvo-cinerea* Nyl. *Syn.* I, p. 365, ubi definitur; *Enum. Lich.* p. 103 et *Addit. Fl. chil.* p. 180; *Sticta fulvo-cinerea* Mont.; *S. Freycinetii* var. *latifolia* Flot. — *Parmelia lactucæfolia* Flot. = In America australi (Chili; Patagonia et Fuegia; fretum Magellanicum; cap Horn).

861. **S. episticta** Nyl. *Flora* 1863, p. 299, *Lich. N. Zeland.* 1861, p. 248, et 1888, p. 39 et apud Knight *Contrib. N. Zeal.* p. 367, ubi definitur; *Conspect. Stict.* p. 9 et *Flora* 1865, p. 339 in notula. = In Oceania (Nova Zelandia).

862. \* **S. amphisticta** Knight loc. citat., Nyl. *Lich. N. Zeland.* 1888, p. 40, ubi definitur; Lojka *Lich. univ.* n° 115; Zwackh *Exsicc.* 892. = In Oceania (Nova Zelandia).

863. **S. asticta** Nyl. *Syn. Lich. N. Caledon.* p. 17, ubi definitur; *Flora* 1867, p. 194, et *Conspect. Stict.* p. 9. = In Oceania (Nova Zelandia).

### Subtribus III. — Pseudostictici.

#### Gen. LXIII. — RICASOLIA de Notar.

Hujus generis spermatia delineantur in *Syn.* I, tab. VIII, fig. 46<sup>b</sup>.

864. **R. Wrightii** Nyl. *Syn.* I, p. 336 et *Bot. Zeit.* 1861, p. 337, ubi definitur; *Conspect. Stict.* p. 9. — *Sticta Wrightii* Tuck. Thallus K ±, supra flavescit, *Flora* 1869, p. 314. = In Asia orientali (Sibiria?; Japonia).

865. **R. coriacea** Nyl. *Syn.* I, p. 366, *Lich. N. Zeland.* 1888, p. 40 et *Conspect. Stict.* p. 9, ubi definitur; *Enum. Lich.* p. 103; *Flora* 1863, p. 337 in notula; *Sticta coriacea* Hook. et Tayl. Thallus K =, vel medulla leviter rosea evadit, *Flora* 1869, p. 314. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 248).

866. \* **R. elaphocera** Nyl. *Lich. N. Zeland.* 1888, p. 41, ubi definitur; *R. coriacea* var. *elaphocera* Nyl. *Conspect. Stict.* p. 9. Thallus K =, *Flora* 1869, p. 314. = In Oceania (Nova Zelandia).

867. **R. discolor** Nyl. *Syn.* I, p. 367, ubi definitur; *Enum. Lich.* p. 103 et *Conspect.*

*Stict.* p. 9. — *Sticta discolor* Mont. Thallus K ±, supra flavet, *Flora* 1869, p. 314. = In Asia meridionali (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 254, ubi sporæ definiuntur; ins. Madagascar).

868. **Ricasolia Schærerii** Nyl. *Syn.* I, p. 367, ubi definitur; *Enum. Lich. Supplém.* p. 336 et *Conspect. Stict.* p. 9. — *Sticta Schæreri* Mont. et v. d. Bosch.; *Parmelia stictæformis* Schær.; *Sticta laciniata* var. *macrophylla* Hepp. Thallus K ±, *Flora* 1869, p. 314. = In Oceania (ins. Java et Borneo).

869. **R. glaberrima** de Notar., Nyl. *Syn.* I, p. 367, ubi definitur; *Enum. Lich.* p. 103 et *Conspect. Stict.* p. 9. Thallus K =, *Flora* 1869, p. 314. = In America tropica (Brasilia).

870. **R. platyloba** Nyl. *Flora* 1869, p. 314; *R. herbacea* var. *platyloba* Nyl. *Syn.* I, p. 370, ubi definitur. Est affinis *R. glaberrimæ* de Notar., Nyl. in litt. Thallus K ±. = In America tropica (Mexico seu Nova Hispania).

871. **R. dichroa** Nyl. *Lich. exot.* p. 254 et *Syn.* I, p. 368, ubi definitur; *Enum. Lich. Supplém.* p. 336 et *Conspect. Stict.* p. 9 Thallus. K ±, *Flora* 1869, p. 314. = In Africa orientali (ins. Madagascar; Borbonia).

872. **R. glomulifera** de Notar., Nyl. *Syn.* I, p. 368, ubi definitur; *Enum. Lich.* p. 103 et *Conspect. Stict.* p. 9. — *Lichen glomuliferus* Lightf.; *Lobaria glomulifera* Hoffm.; *Parmelia glomulifera* Ach.; *Sticta glomulifera* Del.; *Lichen amplissimus* Scop.; *Parmelia amplissima* Schær. Thallus K ±, *Flora* 1869 p. 314. = In Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 54). — In America boreali. — In Oceania (Nova Zelandia?, *Lich. N. Zeland.* 1888, p. 41). — Etiam in Europa.

— Var. **exsecta** Nyl. *Syn.* I, p. 369, ubi definitur. = In Asia (Mantschuria).

873. **R. intermedia** Nyl. *Flora* 1858, p. 379 et *Syn.* I, p. 369, ubi definitur; *Enum. Lich.* p. 103 et *Conspect. Stict.* pp. 9 et 10 in notula et *Flora* 1869, p. 314. Medulla CaCl erythrinosa evadit. = In America tropica (Mexico).

874. \* **R. subcorrosa** Nyl. *Mexic. Plant.* p. 4, ubi definitur; *R. intermedia* var. *subcorrosa* Nyl. *Conspect. Stict.* p. 9. Thallus K ±, medulla CaCl erythrinosa, *Flora* 1869, p. 314. = In America tropica (Mexico).

875. **R. herbacea** de Notar., Nyl. *Syn.* I, p. 369, tab. I, fig. 6 et tab. VIII, fig. 46, ubi definitur; *Enum. Lich.* p. 103 et *Conspect. Stict.* p. 9. — *Lichen herbaceus* Huds.; *Lobaria* et *Pulmonaria herbacea* Hoffm., *Parmelia herbacea* Ach., *Sticta herbacea* Del., *Lichen lætevirens* Lightf., *Parmelia lætevirens* Schær. et *Sticta lætevirens* Mass. Thallus K =, *Flora* 1869, p. 314. = In Africa occidentali (ins. Madera, *Lich. Madère*, p. 188; ins. Azoreis) et meridionali (Promont. Bonæ Spei). — In America boreali. — Etiam in Europa.

876. **R. adscripta** Nyl. *Lich. N. Zeland.* 1861, p. 248, et 1888, p. 41, ubi definitur; *Conspect. Stict.* p. 9; Lojka *Lich. univ.* n° 413; *R. herbacea* f. *adscripta* Nyl. *Lich. N. Zeland.* 1861, p. 248, et *Flora* 1863, p. 299, ubi definitur et p. 337 in notula. Spermogonia parte infera thalli inveniuntur, *Flora* 1867, p. 439. Thallus K =, *Flora* 1869, p. 314. = In Oceania (Nova Zelandia).

877. **R. dissecta** Nyl. *Syn.* I, p. 370, ubi definitur; *Enum. Lich.* p. 104 et *Conspect. Stict.* p. 10. — *Sticta dissecta* Ach.; *Sticta peltigera* Del.; *Sticta straminea* Fée et *S. denudata* Tayl. Thallus K ± et spermogonia in parte infera thalli ponuntur, *Flora* 1869, p. 314. = In America tropica (Mexico; Venezuela; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23, ed. 2<sup>a</sup> p. 20 et *Addit.* p. 537; Peruvia et Bolivia, *Flora* 1853, p. 673 et *Lich. exot.* p. 214; Brasilia).

— Var. **minor** Nyl. *Syn.* I, p. 371, ubi definitur. = In America tropica.

878. **R. Fendlerii** Nyl. *Lich. ex t.* p. 214, ubi definitur; *Conspect. Stict.* p. 10; *R. erosa* Nyl. *Syn.* I, p. 371, ubi definitur; *R. dissecta* var. *coronata* Nyl. in Mus. pariens. — *Sticta Fendleri* Mont. et Tuck.; *Parmelia crenulata* Eschw. Thallus K =, vel supra leviter flavescit.

= In America tropica (Venezuela; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 (*R. erosa* Eschw. ?) et ed. 2<sup>a</sup> p. 20; Brasilia) et australi (Chili, *Addit. Fl. chil.* p. 180).

879. **Ricasolia Berteroana** Nyl. *Addit. Fl. chil.* p. 180. — *Sticta Berteroana* Mont. *Sylog.* p. 327. = In America australi (ins. Juan Fernandez).

880. **R. corrosa** Nyl. *Syn.* I, p. 371, ubi definitur; *Enum. Lich.* p. 104 et *Conspect. Stict.* p. 10. — *Sticta dissecta* var. *corrosa* Ach.; *Platysma dissectum* Hoffm., *Lichen dissectus* Swartz, *Sticta dissecta* Swartz et videtur esse *Sticta læviuscula* Del. Thallus K ±, *Flora* 1869, p. 314. = In America tropica (Mexico, *Flora*, 1858, p. 379; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23 et ed. 2<sup>a</sup> p. 20; Peruvia, *Lich. exot.* p. 214).

881. **R. subdissecta** Nyl. *Lich. exot.* p. 214 et *Syn.* I, p. 372, ubi definitur; *Conspect. Stict.* p. 10, Thallus K ±, *Flora* 1869, loc. citat. = In America tropica (Mexico; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23, ed. 2<sup>a</sup> p. 20 et *Addit.* p. 538; Peruvia; Bolivia).

— F. 1. **scrobiculata** Nyl. *Flora* 1864, p. 618, et *Prodr. Fl. N. Gran. Addit.* p. 538. = In America tropica (Nova Granata).

— F. 2. **deplanata** Nyl. *Flora* 1864, p. 618; et *Prodr. Fl. N. Granat. Addit.* p. 538, ubi definitur. = In America tropica (Nova Granata).

882. **R. pallida** Nyl. *Syn.* I, p. 372 et *Lich. And. Boliv.* p. 373, ubi definitur; *Enum. Lich. Supplém.* p. 336 et *Conspect. Stict.* p. 10. — *Sticta pallida* Hook.; *Ricasolia Kunthii* Nyl. *Enum. Lich.* p. 104 et *Supplém.* p. 336; *Sticta Kunthii* Del. Thallus K ±, *Flora* 1869, loc. citat. = In America tropica (Venezuela; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 23, et ed. 2<sup>a</sup> p. 21; Peruvia, *Lich. exot.* p. 214; Bolivia) et australi (Chili).

883. **R. crenulata** Nyl. *Syn.* I, p. 372, ubi definitur; *Enum. Lich.* p. 104 et *Conspect. Stict.* p. 10. — *Parmelia crenulata* Hook.; *Sticta crenulata* Del. Thallus K ±, *Flora* 1869, loc. citat. = In America tropica (Nova Granata, *Prodr. Fl. N. Granat. Addit.* p. 538, ubi sporæ definiuntur, et *Flora* 1864, p. 618; Peruvia, *Lich. exot.* p. 214; Bolivia, *Lich. And. Boliv.* p. 373). — In Oceania (ins. Sandwicensibus, *Lich. exot.* p. 238).

884. **R. erosa** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 21 et *Addit.* p. 538, ubi sporæ definiuntur; *Conspect. Stict.* p. 10. — *Parmelia erosa* Eschw.; *Ricasolia crenulata* var. *stenospora* Nyl. *Lich. exot.* p. 254 et *Syn.* I, p. 373, ubi definitur; *Sticta Raveneli*, *R. Ravenelii* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24, ubi sporæ definiuntur; *Flora* 1865, p. 299. Thallus K ±, *Flora* 1869, p. 314. = In Africa orientali (ins. Borbonia et Mauriti) et meridionali (Promont. Bonæ Spei). — In America septentrionali (Alabama; Carolina), et tropica (ins. Cuba; Brasilia; Nova Granata).

— Var. 1. **Casarettiana** Nyl. *Flora* 1869, p. 314. — *Sticta Casarettiana* de Notar. Thallus K ±. Definitur in *Syn.* I, p. 373 et in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 24 et ed. 2<sup>a</sup> p. 21 in notulis. = In America tropica (Brasilia).

— Var. 2. **subherbacea** Nyl. *Flora* 1869, p. 314. Thallus K ±. = In America boreali.

885. **R. sublævis** Nyl. *Flora* 1868, p. 231, et 1886, p. 172, *Contrib. da Fl. d'Africa* p. 6, et *Lich. ins. Guin.* p. 11, ubi definitur; *Conspect. Stict.* et *Flora* 1869, loc. citat. Thalli medulla CaCl + erythrinosa. = In Africa orientali (ins. Borbonia; Mauriti), meridionali (Portu Natali, *Lich. Port Natal* p. 5) et occidentali (ins. Madera, *Lich. Madère* p. 188). — In America tropica.

886. **R. interversans** Nyl. *Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 6 et *Lich. ins. Guin.* p. 11, ubi definitur. Medulla K (CaCl) + erythrinosa. = In Africa occidentali (ins. San Thomé).

887. **R. Montagnei** Nyl. *Syn.* I, p. 373, *Flora* 1867, p. 439 in notula, *Conspect. Stict.* p. 10, *Lich. N. Zeland.* 1861, p. 248, et 1888, p. 41, ubi definitur; *Lojka Lich. univ.* n° 114. Medulla K (CaCl) erythrinosa evadit. = In Oceania (Nova Zelandia).



## TRIB. XXIV. — PELTIGEREI.

## Subtrib. I. — Peltigerinei.

## Gen. LXIV. — NEPHROMIUM Nyl.

Hujusce tribus Peltigerorum divisio legitur in *Flora* 1882, p. 457, et 1884, p. 219, *Le Naturaliste* 1<sup>er</sup> janvier 1884, et *Lich. Fueg.* p. 31.

888. **N. tomentosum** Nyl. *Syn.* I, p. 319, ubi definitur; *Enum. Lich.* p. 101. — *Peltigera tomentosa* Hoffm. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In Africa boreali (Algeria, *Lich. Algér.* p. 310, *Nephroma resupinatum* Ach.). — In America boreali. — Etiam in Europa.

889. **N. helveticum** Nyl. *Flora* 1865, p. 428; *N. tomentosum* var. *helveticum* Nyl. *Syn.* I, p. 329, ubi definitur; *Enum. Lich.* p. 101. — *Nephroma helvetica* Ach. = In Asia (China, *Lich. N. Zeland.* 1888, p. 43, ubi sporæ definiuntur; mont. Himalaya). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 253) et meridionali (Promont. Bonæ Spei). — In America boreali et tropica (Mexico, *Flora* 1858, p. 378, et *Mexic. Plant.* p. 2; Bolivia, *Lich. And. Boliv.* p. 372 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 17 in notula). — In Oceania (ins. Java). — Etiam in Europa.

— Var. **rufum** Nyl. *Lich. N. Zeland.* 1888, p. 43, ubi definitur; *N. lævigatum* var. *rufum* Nyl. *Syn.* I, p. 321, ubi definitur. — *Nephroma resupinatum* var. *rufum* Bab. = In Oceania (Nova Zelandia).

890. **N. lævigatum** Ach., Nyl. *Syn.* I, p. 320, ubi definitur; *Enum. Lich.* p. 101. — *Peltidea lævigata* Sommerf. = In Africa boreali (Algeria, *Lich. And. Boliv.* p. 367 in notula) et meridionali (Promont. Bonæ Spei) et occidentali (ins. Canariis; ins. Madera, *Lich. Madère* p. 188). — In America boreali et maxime australi. — In Oceania (ins. Java). — Etiam in Europa.

891. **N. parile** Nyl. *Lich. Fr. Behr.* pp. 54 et 55; *N. lævigatum* var. *parile* Nyl. *Syn.* I, p. 320, ubi definitur. — *Lichen parilis* Ach. = In Asia boreali (Behring ins.). — In America meridionali (Chili, *Addit. Fl. chil.* p. 179, *Nephroma resupinatum* var. *papyraceum* Ach.). — Etiam in Europa.

892. **N. sublævigatum** Nyl. *Syn.* I, p. 321, ubi definitur. = In America tropica (Mexico).

893. **N. plumbeum** Nyl. *Syn.* I, p. 321, ubi definitur; *Enum. Lich.* p. 101. — *Nephroma plumbeum* Mont. = In America meridionali (Chili, *Addit. Fl. chil.* p. 179; Fuegia, *Lich. Fueg.* p. 26).

894. **N. celluloseum** Nyl. *Syn.* I, p. 321, ubi definitur; *Enum. Lich.* p. 101. — *Peltidea cellulosa* Ach. = In America meridionali (Chili, *Addit. Fl. chil.* p. 179; ins. Juan Fernandez) et australi (Fuegia, *Lich. Fueg.* p. 5; freto Magellanico). — In Oceania (Tasmania, *Lich. N. Zeland.* 1888, p. 43. Statio: Nova Zelandia, in *Syn.* loc. citat. est incerta).

895. **N. Lyallii** Nyl. *Syn.* I, p. 322 et *Lich. N. Zeland.* 1888, p. 43, ubi definitur. — *Nephroma Lyallii* Bab. = In Oceania (Nova Zelandia).

## Gen. LXV. — PELTIGERA Hoffm. pr. max. p., Ach.

896. **P. malacea** Fr., Nyl. *Syn.* I, p. 323, ubi definitur; *Enum. Lich.* p. 101. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2 et *Lich. Fr. Behr.* p. 74) et meridionali (Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 310) et australi (ins. Kerguelen). — In America boreali et australi (Ushuwaia, *Lich. Fueg.* p. 5). — Etiam in Europa.

897. **Peltigera polydactyloides** Nyl. *Flora* 1863, p. 265, ubi definitur. = In Africa occidentali (Guinea).

898. **P. canina** Hoffm., Nyl. *Syn.* I, p. 324, ubi definitur; *Enum. Lich.* p. 101. — *Lichen caninus* L. = In Asia a mont. Himalaya in zonam arcticam. — In Africa boreali (Algeria, *Lich. Algér.* p. 310) et occidentali (ins. Canariis). — In Americæ borealis parte septentrionali (Groenlandia, *Flora* 1862, p. 82) et in montibus tropicæ (Mexico, *Mexic. Plant.* p. 2) et meridionalis (Venezuela; mont. Chimborazo; Bolivia; Chili, *Addit. Fl. chil.* p. 179). — Etiam in Europa.

899. **P. membranacea** Nyl. *Lich. Fr. Behr.* p. 74; *P. canina* var. *membranacea* Ach., Nyl. *Syn.* loc. citat., ubi definitur. = In omnibus fere partibus telluris. In Asia (Sibiria, *Lich. Middend.* p. 2). — In Africa occidentali (ins. Madera, *Lich. Madère* p. 188; ins. Canariis). — In America utraque (Mexico, *Mexic. Plant.* p. 3; Bolivia, *Lich. And. Boliv.* p. 371, ubi forma definitur). — Etiam in Europa.

900. **P. microdactyla** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 536, ubi definitur. = In America tropica (Nova Granata).

901. **P. rufescens** Hoffm., Nyl. *Syn.* I, p. 324, tab. I, fig. 27, ubi definitur; *Enum. Lich.* p. 101. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2; Konyambay, *Lich. Fr. Behr.* p. 20) et meridionali (Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 310) et orientali (Abyssinia) et occidentali (Guinea, *Flora* 1863, p. 265). — In America boreali et montana tota (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 17; Bolivia, *Lich. exot.* p. 213, *Lich. And. Boliv.* p. 371) et meridionali (Chili, *P. canina* Mont. *Chil.* p. 227, Nyl. *Lich. exot.* p. 262). — In Oceania (Polynesia; ins. Sandwich, *Lich. exot.* p. 237; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 237). — Etiam in Europa.

— Var. **sorediifera** Nyl. *Lich. Fueg.* p. 5. = In America australi (Fuegia).

902. **P. spuria** DC., Nyl. *Syn.* I, p. 325, ubi definitur. — *Lichen spurius* Ach. = In Asia boreali (Sibiria, *P. rufescens* var. *spuria* Nyl. *Lich. Middend.* p. 2). — In Oceania (Tasmania; Nova Zelandia). — Etiam in Europa.

903. **P. pulverulenta** Tayl., Nyl. *Syn.* I, p. 325, ubi definitur; *P. rufescens* var. *pulverulenta* Nyl. *Enum. Lich.* p. 101. = In America boreali (freto Kotzebue) et tropica (Venezuela; Columbia; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 17).

904. **P. scabrosa** Th. Fr.; definitur in Nyl. *Lich. Scand.* p. 89 sub nomine: *P. pulverulenta* Tayl. Hæc *P. scabrosa* Th. Fr. identica dicitur *P. pulverulenta* Tayl. in *Lich. Scand.* loc. citat. (1861) et in *Flora* 1861, p. 372, sed ab ea disjungitur in *Prodr. N. Gran.* locis citat. (1863). = In Asia boreali (Sibiria, *Lich. Middend.* p. 2; Lawrence et Behring ins., *Lich. Fr. Behr.* pp. 44 et 54). — In America boreali (Groenlandia, *Flora* 1862, p. 82 sub nomine: *P. pulverulenta* Tayl.; Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa arctica.

905. **P. leptoderma** Nyl. *Syn.* I, p. 325, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 22 et ed. 2<sup>a</sup> p. 17, ubi definitur; *Solorina leptoderma* Nyl. *Enum. Lich.* p. 101. = In Africa orientali antartica (ins. S<sup>u</sup> Pauli, *Flora* 1866, p. 320). — In America tropicali (Nova Granata; sine loco indicato in Mus. parisiens. lecta a Bonpland).

906. **P. polydactyla** Hoffm., Nyl. *Syn.* I, p. 326, ubi definitur; *Enum. Lich.* p. 101. — *Lichen polydactylus* Neck. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2 et *Lich. Fr. Behr.* p. 74) et in aliis Asiæ partibus. — In Africa (ins. Borbonia, *Lich. exot.* p. 253, et usque in Promont. Bonæ Spei). — In America tota exceptis regionibus mere tropicis (Mexico, *Flora* 1858, p. 379; Nova Granata, *Prodr. Fl. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 17; Peruvia, *Lich. exot.* p. 213; Chili, *Addit. Fl. chil.* p. 179) et australi (Gebel Island, *Lich. Fueg.* p. 5). — In Oceania (ins. Sandwich, *Lich. exot.* p. 237; Nova Zelandia et ins. Campbell.). — Etiam in Europa.

— Var. 1. **microcarpa** Ach., Nyl. *Syn.* I, p. 327, ubi definitur. = Occurrit passim cum typo.

— Var. 2. **melanocoma** Ach., Nyl. *Syn.* I, p. 327, ubi definitur; *P. melanocoma* Mont. et v. d. Bosch. = In Oceania (ins. Java).

— Var. 3. **lophyra** Nyl. *Lich. Scand.* p. 90, ubi definitur. — *Peltidea horizontalis* var. *lophyra* Ach. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2). — In America boreali. — Etiam in Europa.

— Var. 4. **subspuria** Nyl. *Lich. Madère* p. 188. = In Africa occidentali (ins. Madera).  
907. \* **Peltigera dolichorrhiza** Nyl. *Flora* 1874, p. 71; *P. polydactyla* var. *dolichorrhiza* Nyl. *Syn.* I, p. 327, ubi definitur; *Lich. And. Boliv.* p. 372. = In Africa tropica (Guinea, *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 44) et antarctica (ins. Amstelodami, *Lich. S<sup>ti</sup> Pauli* p. 7 et *Flora* 1886, p. 322). — In America boreali et tropica (Mexico, *Mexic. Plant.* p. 3; mont. Andibus; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 21 et ed. 2<sup>a</sup> p. 130). — In Oceania (ins. Java; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 43, ubi sporæ definiuntur).

908. **P. horizontalis** Hoffm., Nyl. *Syn.* I, p. 327, tab. VIII, fig. 39, ubi definitur; *Enum. Lich.* p. 101. — *Lichen horizontalis* L. = In Africa occidentali (ins. Madera, *Lich. Madère* p. 188). — In America septentrionali frigidiore (ins. freti Behringii, *Lich. Fr. Behr.* p. 85). — Etiam in Europa.

#### Gen. LXVI. — SOLORININA Nyl.

909. **S. simensis** Nyl. *Le Naturaliste* 1884, 1<sup>er</sup> janvier et *Flora* 1882, p. 219. — *Solorina simensis* Hochst., Nyl. *Syn.* I, p. 330, ubi definitur; *S. saccata* var. *simensis* Nyl. *Enum. Lich.* p. 101. = In Asia (China; mont. Himalaya et Nilgherrensibus). — In Africa orientali (Abyssinia).

— Var. **limbata** Nyl. *Syn.* loc. citat. = In Africa orientali (Abyssinia).

910. **S. crocoides** Nyl. *Le Naturaliste* et *Flora* 1882, locis citat. = In Asia (Himalaya).

911. **S. soreidiifera** Nyl. *Le Naturaliste* et *Flora* 1882, locis citat. — *Solorina soreidiifera* Nyl. *Syn.* I, p. 331, ubi definitur. = In Africa meridionali (Promont. Bonæ Spei).

#### Subtrib. II. — Peltidei.

#### Gen. LXVII. — NEPHROMA Ach. pr. p., Nyl.

912. **N. arcticum** Fr., Nyl. *Syn.* I, p. 316, tab. I, fig. 36, ubi definitur; *Enum. Lich.* p. 101. — *Lichen arcticus* L. = In zona arctica Asiæ (Sibiria, *Lich. Middend.* p. 4), Americæ (Alaska, *Lich. Fr. Behr.* p. 75) et Europæ. Indicatur etiam in America meridionali (Chili, *Addit. Fl. chil.* p. 179).

913. **N. antarcticum** Nyl., *Syn.* I, p. 317, tab. VIII, fig. 37, ubi definitur. — *Lichen antarcticus* Jacq. = In America antarctica (in tota Fuegia, *Lich. Fueg.* p. 5; Fretto Magellanico).

914. **N. homalodes** Nyl. *Lich. N. Zeland.* 1888, p. 43, ubi definitur. Medulla K e flavo aurantiace tingitur. = In Oceania (Nova Zelandia).

915. **N. australe** A. Richard, Nyl. *Syn.* I, p. 318 et *Lich. N. Zeland.* 1888, p. 44, ubi definitur. *N. pallens* Nyl. *Enum. Lich.* p. 101; *N. antarcticum* var. *tenue* Nyl. *Syn.* I, p. 317, ubi definitur et *Lich. N. Zeland.* 1861, p. 246. Medulla K —. = In America australi (ins. Juan Fernandez). — In Oceania (Nova Zelandia).

916. **N. expallidum** Nyl. *Flora* 1862, p. 529; *Nephromium expallidum* Nyl. *Syn.* I, p. 318 et *Flora* 1865, p. 448, ubi definitur; *Flora* 1862, p. 529. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa boreali.



917. **Nephroma analogicum** Nyl. *Lich. Fueg.* p. 21 et apud Cromb. *Falk. isl.* p. 231, ubi definitur; thallus K + chrysophanice reagens. = In America australi (Port Grappler in Otter Islands).

918. **N. schizocarpum** Nyl. *Syn.* I, p. 318, ubi definitur; *Enum. Lich.* p. 401; *N. resupinata* var. *pruinosa* Mont. *Medulla K* —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 44).

## Gen. LXVIII. — PELTIDEA Nyl.

919. **P. apthosa** Ach., Nyl. *Flora* 1862, p. 529. — *Peltigera apthosa* Hoffm., Nyl. *Syn.* I, p. 323, tab. VIII, fig. 38, ubi definitur; *Enum. Lich.* p. 401. — *Lichen apthosus* L. = In Asia boreali (Sibiria, *Lich. Middend.* p. 2 et usque in Mantschuria). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

— **F. verrucosa** Nyl. *Lich. Middend.* p. 4. — *Peltigera apthosa* f. *verrucosa* Nyl. *Lich. Scand.* p. 88, ubi definitur. — *Lichen verrucosus* Web. = In Asia boreali (Sibiria; Behring ins., *Lich. Fr. Behr.* p. 54). — Etiam in Europa boreali.

— Var. **leucophlebia** Nyl. *Lich. Middend.* pp. 2 et 4. — *Peltigera apthosa* var. *leucophlebia* Nyl. *Syn.* I, p. 323, ubi definitur; = In Asia boreali (Sibiria; Lawrencebay, *Lich. Fr. Behr.* p. 8). — Etiam in Europa.

920. **P. venosa** Ach., Nyl. *Flora* 1866, p. 416. — *Peltigera venosa* Hoffm., Nyl. *Syn.* I, p. 328, ubi definitur; *Enum. Lich.* p. 401. — *Lichen venosus* L. = In Asia arctica (Konyambay, *Lich. Fr. Behr.* p. 20). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

## Gen. LXIX. — SOLORINA Ach.

921. **S. crocea** Ach., Nyl. *Syn.* I, p. 329, tab. VIII, fig. 40, ubi definitur; *Enum. Lich.* p. 401. — *Lichen croceus* L. = In tota zona arctica Asiae usque in Himalaya. — In America boreali (ins. Freti Behringii, *Lich. Fr. Behr.* p. 85.) — Etiam in Europa.

922. **S. saccata** Ach., Nyl. *Syn.* I, p. 330, tab. VIII, fig. 41, ubi definitur; *Enum. Lich.* p. 401. — *Lichen saccatus* L. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* pp. 49 et 20). — In America boreali. — Etiam in Europa.

923. \* **S. spongiosa** Nyl. *Lich. Fr. Behr.* p. 62; *S. saccata* var. *spongiosa* Nyl. *Syn.* I, p. 331, ubi definitur; *S. limbata* Sommerf., Nyl. *Enum. Lich.* p. 401. — *Lichen spongiosus* Sm. = In America septentrionali (Port-Clarence, Terra Nova et Wellington Channel) et meridionali (Republica Aequatoria). — Etiam in Europa.

924. **S. embolima** Nyl. *Flora* 1884, p. 219 et *Lich. Fr. Behr.* p. 49, ubi definitur. = In Asia boreali (Konyambay).

## Trib. XXV. — Physciei.

## Gen. LXX. — PHYSCIA Schreb.

## A. — Species everniiformes.

925. **P. flavicans** DC., Nyl. *Syn.* I, p. 406, ubi definitur; *Enum. Lich.* p. 406. — *Lichen flavicans* Sw. Thallus et epithecium K +, *Flora* 1869, p. 321. = In Asia tropica. — In Africa orientali (ins. S<sup>ci</sup> Mauritii), australi et occidentali (ins. S<sup>ci</sup> Helenæ; Ascensionis; San Thomé, *Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 41; ins. Canariis). — In America boreali (Terra Nova), tropica (Mexico, *Flora* 1858, p. 319 et *Mexic. Plant.* p. 5; Martinica, *Lich. Antill.* p. 9; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 24; Peruvia et Bolivia, *Lich. exot.* p. 216 et *Lich. And. Boliv.* p. 374) et meri-

dionali (Chili, *Addit. Fl. chil.* p. 181). — In Oceania (ins. Java; Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 44). — Etiam in Europa occidentali.

— Var. **crocea** Nyl. *Syn.* I, p. 407, ubi definitur; *P. crocea* Nyl. *Enum. Lich.* p. 106. — *Cornicularia crocea* Ach. = In America.

*Evernia stellata* Mont. et Flot. est forsitan forma hujus speciei, Nyl. *Lich. exot.* p. 216.

926. **Physcia exilis** Mich., Nyl. *Lich. exot.* p. 216; *P. flavicans* var. *exilis* Nyl. *Syn.* I, p. 407, ubi definitur; *Enum. Lich.* p. 106. — *Borreria exilis* Ach. = In America septentrionali et tropica (Peruvia, *Flora* 1874, p. 72; Brasilia, *Flora* 1869, p. 118).

927. **P. subexilis** Nyl. apud Cromb. *Austral. Lich.* p. 396 et *Lich. N. Zeland.* 1888, p. 45, ubi definitur. = In Oceania (Australia),

928. **P. acromela** Nyl. *Syn.* I, p. 407, ubi definitur; *Flora* 1869, p. 321, thallus et epithecium K +. — *Borreria acromela* Pers. = In America tropica (Brasilia; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 24, ubi viget forma ibi definita).

929. **P. nodulifera** Nyl. *Syn.* I, p. 407, ubi definitur; *Flora* 1869, p. 321, eadem thalli reactio. = In America tropica (Bolivia, *Lich. And. Boliv.* p. 374).

930. **P. peruensis** Nyl. *Syn.* I, p. 407, ubi definitur, *Flora* 1869, p. 321, eadem thalli reactio. — *Borreria pubera* var. *peruensis* Ach. = In America tropica (Peruvia).

931. **P. villosa** Dub., Nyl. *Syn.* I, p. 407, tab. VIII, fig. 49, ubi definitur; *Enum. Lich.* p. 106. Thallus K =, epithecium K +, *Flora* 1869, p. 321. = In Africa boreali (Algeria, *Lich. Algér.* p. 322, *Parmelia villosa* Ach., et *Prodr. Lich. Gall.* p. 59; Ægypto, *Lich. Ægypt.* p. 3), orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. Canariis). — In America tropica (Peruvia, *Lich. exot.* p. 216). — Etiam in Europa meridionali.

— F. **brevior** Nyl. *Syn.* I, p. 408, ubi definitur; = In Africa boreali (Ægypto, *Lich. Ægypt.* p. 3, et Cyrenaica).

932. **P. cymbalifera** Tuck., Nyl. *Syn.* I, p. 408, ubi definitur; *Flora* 1869, p. 321, thallus et epithecium K +. — *Parmelia cymbalifera* Eschw. = In America meridionali (Repubblica Argentina).

933. **P. intricata** Schær., Nyl. *Syn.* I, p. 408, tab. VIII, fig. 50, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 322, thallus K =. — *Lichen intricatus* Desfontaine. = In Africa boreali (Algéria, *Lich. Algér.* p. 322 et *Prodr. Lich. Gall.* p. 59) et occidentali (ins. Canariis). — Etiam in Europa.

— Var. 1 **cylindrica** Mont., Nyl. *Syn.* I, p. 409, ubi definitur. = In Africa occidentali (ins. Canariis). — Etiam in Europa (Peloponneso).

— Var. 2. **ephebea** Nyl. *Syn.* I, loc. cit., ubi definitur; *Enum. Lich.* p. 106 et *Flora* 1869, p. 321, eadem thalli reactio. — *Borreria ephebea* Ach. = In America meridionali (Peruvia).

#### B. — *Species parmeliiformes.*

##### 1. — Stirps *Physcia chrysophthalmæ* DC.

934. **P. hypoglauca** Nyl. *Syn.* p. 409, tab. VIII, fig. 51, ubi definitur; *Flora* 1869, p. 321, thallus et epithecium K +. — *Niorma derelecta* Mass. = In Africa meridionali (Promont. Bonæ Spei). — In America tropica et meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 25, ed. 2<sup>a</sup> p. 24 et *Addit.* p. 539; Bolivia, *Lich. And. Boliv.* p. 374).

935. **P. chrysophthalma** DC., Nyl. *Syn.* I, p. 410, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 321, thallus et epithecium K +. — *Lichen chrysophthalmus* L. = In Africa boreali (Algeria, *Lich. Algér.* p. 310 et *Prodr. Lich. Gall.* p. 60) et occidentali (ins. Canariis). — In America boreali et meridionali (Bolivia, *Lich. And. Boliv.* p. 374; Chili, *Addit. Fl. chil.* p. 181). — In Oceania (Australia; ins. Taïti, *Lich. exot.* p. 239; Nova Zelandia,

*Lich. N. Zeland.* 1861, p. 249, et 1888, p. 45; in hoc posteriore loco sporæ definiuntur).

— Etiam in Europa.

— Var. 1. **pubera** Nyl. *Syn.* I, loc. citat., ubi definitur; *Enum. Lich.* p. 106. — *Borrera pubera* Ach. = In Africa meridionali (Promont. Bonæ Spei). — In America meridionali.

— Var. 2. **capensis** Nyl. *Syn.* I, loc. citat., ubi definitur; *Enum. Lich.* p. 106. — *Borrera capensis* Ach. = In Africa meridionali (Promont. Bonæ Spei).

— Var. 3. **denudata** Nyl. *Syn.* I, loc. citat., ubi definitur. — *Lobaria denudata* Hoffm. = In Africa occidentali.

## 2. — Stirps *Physicæ parietinæ* de Notar.

936. **P. parietina** de Notar., Nyl. *Syn.* I, p. 410, ubi definitur; *Enum. Lich.* p. 106. — *Lichen parietinus* L. Thallus et epithecium K +, *Flora* 1869, p. 321. = In Asia boreali, temperata (India). — In Africa boreali (Algeria, *Lich. Algér.* p. 310, *Prodr. Lich. Gall.* p. 60 et *Flora* 1878, p. 344; Ægypto, *Lich. Ægypt.* p. 3 et *Flora* 1876, p. 281) et occidentali (ins. Madera, *Lich. Madère* p. 188). — In America fere tota (Port-Clarence, *Lich. Fr. Behr.* p. 75; Alaska, *ibid.* p. 86; Bolivia, *Lich. exot.* p. 216; Chili). — In Oceania (Australia, *Flora* 1864, p. 266, ubi definitur, *Ph. ligulata* Koerb., et *Prodr. Lich. N. Caled.* p. 180; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 249, et 1888, p. 45, et in hoc posteriore loco sporæ definiuntur; ins. Lord Howe, *Lich. exot.* p. 239 et *Prodr. Lich. N. Caled.* p. 280). — Etiam in Europa.

— Var. 1. **aureola** Nyl. *Syn.* I, p. 411, ubi definitur. — *Parmelia aureola* Ach. = Præcipue in maritimis. In Africa orientali antarctica (ins. Sti Pauli, *Lich. Sti Pauli* p. 5 et *Flora* 1886, p. 320). — Etiam in Europa.

— Var. 2. **ectanea** Nyl. *Syn.* loc. citato, ubi definitur; *Enum. Lich.* p. 106. — *Parmelia ectanea* Ach. = In Africa boreali (Algeria; Ægypto, *Lich. Ægypt.* p. 3). — In America meridionali (Chili). — In Oceania (Australia). — Etiam in Europa.

— Var. 3. **polycarpa** Nyl. *Syn.* I, loc. citat., ubi definitur; *Enum. Lich.* p. 106. — *Lichen polycarpus* Ehrh. — *Parmelia candelaria* var. *polycarpa* Ach. = In America boreali. — Etiam in Europa.

— Var. 4. **subgranulosa** Nyl. *Flora* 1876, p. 281, ubi definitur. = In Africa boreali (Ægypto).

937. \***P. lychnea** Nyl. *Lich. Scand.* p. 107, ubi definitur; *P. parietina* var. *lychnea* Nyl. *Syn.* I, p. 411, ubi definitur. — *Parmelia candelaria* var. *lychnea* Ach. = In Asia boreali, (Sibiria, *Lich. Middend.* p. 4; Lawrence ins., *Lich. Fr. Behr.* p. 49). — In America boreali et meridionali (Bolivia, *Lich. And. Boliv.* p. 375) et australi (Ushuwaia, *Lich. Fueg.* p. 6 et ins. Maclovianis, *ibid.* p. 26, et apud Cromb. *Falkl. isl.* p. 231, *P. polycarpa*). — Etiam in Europa.

Huic in *Syn.* I, p. 412 jungitur forma saxicola *pygmæa* Nyl. — *Borrera pygmæa* Bor.

938. **P. flammea** Nyl. *Syn.* I, p. 412, tab. VIII, fig. 52, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1860, p. 42, et 1871, p. 299; *Addit. Fl. chil.* p. 178; *Flora* 1869, p. 321, thallus et epithecium K +. — *Lichen flammeus* L. = In Africa meridionali (Promont. Bonæ Spei):

939. **P. holoxantha** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 539 in notula et *Lich. Port Natal* p. 5 in notula, ubi definitur; *Flora* 1869, p. 321, thallus et epithecium K +. = In Africa meridionali.

## 3. — Stirps *Physicæ euplocæ* Tuck.

940. **P. euploca** Tuck., Nyl. *Syn.* I, p. 413, ubi definitur; *Enum. Lich. Supplém.* p. 336; *Flora* 1869, p. 322, thallus K =. = In America septentrionali (Texas).



4. — Stirps *Physiciæ ciliaris* DC.

941. **P. ciliaris** DC., Nyl. *Syn.* I, p. 414, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 322, thallus K =. — *Lichen ciliaris* L. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — In Africa boreali (Algeria, *Lich. Algér.* p. 311, *Prodr. Lich. Gall.* p. 60 et *Flora* 1878, p. 344), orientali (Abyssinia) et occidentali (ins. Canariis). — In America septentrionali et meridionali (Peruvia, *Lich. exot.* p. 216). — Etiam in Europa.

— Var. **saxicola** Nyl. *Syn.* loc. citat., ubi definitur; *Enum. Lich.* p. 106. = In eisdem terris ac typus et etiam in ins. Madera, *Lich. Madère* p. 188; ins. Canariis.

942. **P. erinacea** Nyl. *Flora* 1869, p. 322; *P. ciliaris* var. *erinacea* Nyl. *Syn.* I, p. 414, ubi definitur; *P. leucomela* var. *erinacea* Nyl. *Enum. Lich.* p. 106. — *Borreria erinacea* Ach. Thallus supra K flavet, medulla autem K obsolete vel vix flavescit. = In America septentrionali (California).

943. **P. leucomela** Mich., Nyl. *Syn.* I, p. 414, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 321, thallus K  $\frac{+}{-}$ . — *Lichen leucomelas* L. Hæc species nomine anteriore vocari deberet: *P. atrosetigera*, nam est *Lichen atrosetiger* Broter. (1804), Nyl. *Expos. Lich. N. Caledon.* p. 43. = In Asia (India). — In Africa boreali (Algeria), orientali (Abyssinia; ins. Borbonia, *Lich. exot.* p. 255, *Lichen comosus* Bory), meridionali (Promont. Bonæ Spei; Portu Natali, *Lich. Port Natal* p. 5) et occidentali (Guinea, *Flora* 1862, p. 475, 1863, p. 265, et *Lich. ins. Guin.* p. 44; ins. Canariis; ins. Madera, *Lich. Madère* p. 188). — In America utraque, boreali Septentrionem versus non ultra Carolinam et Californiam; (Mexico, *Flora* 1858, p. 379 et *Mexic. Plant.* p. 5; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 24; ins. Guadalupa, *Lich. Antill.* p. 9; Peruvia, *Flora* 1855, p. 674; Bolivia, *Lich. And. Boliv.* p. 375; Chili, *Addit. Fl. chil.* p. 181). — In Oceania (ins. Java, *Flora* 1866, p. 131; ins. Taïti; Nova Zelandia). — Etiam in Europa.

— F. **albo-ciliata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 24. = In America tropica (Nova Granata).

944. **P. angustifolia** Nyl. *Flora* 1886, p. 172, *P. leucomela* var. *angustifolia* Nyl. *Syn.* I, p. 415, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 321, thallus K  $\frac{+}{-}$ . — *Parmelia leucomela* var. *angustifolia* Mey. et Flot. = In Asia meridionali (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. San Thomé, *Contrib. da Fl. d'Afr.* p. 5 et *Lich. ins. Guin.* p. 11; ins. S<sup>te</sup> Helenæ). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 24, ubi etiam definitur; Peruvia et Bolivia, *Lich. And. Boliv.* p. 375, ubi definitur, et *Lich. exot.* p. 216) et meridionali (Chili, *Addit. Fl. chil.* p. 181). — In Oceania (ins. Java, *Flora* 1866, p. 131; ins. Taïti, *Lich. exot.* p. 231; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 45). — Etiam in Europa.

945. **P. latifolia** Nyl. *Flora* 1869, p. 322; *P. leucomela* var. *latifolia* Mey. et Flot., Nyl. *Syn.* I, p. 415, ubi definitur. Thallus K supra flavet, et medulla obsolete vel vix flavescit. = In America tropica (Mexico, *Mexic. Plant.* p. 5; Peruvia et Bolivia, *Lich. And. Boliv.* p. 375, ubi definitur, et *Lich. exot.* p. 216).

— Var. **subcomosa** Nyl. *Flora* 1869, p. 322; *P. leucomela* var. *subcomosa* Nyl. *Syn.* I, p. 415, ubi definitur. = In America.

946. **P. podocarpa** Nyl. *Flora* 1869, p. 322; *P. leucomela* var. *podocarpa* Nyl. *Syn.* I, p. 415, ubi definitur; *Enum. Lich.* p. 106. — *Parmelia podocarpa* Bél. Medulla et pagina infera thalli K mox crocee vel croceo-ferrugineo tinguntur. = In Asia meridionali (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255, ubi definitur). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25). — In Oceania (ins. Java).

947. **P. podocarpioides** Nyl. apud Cromb. *Chall. Exped.* p. 225, ubi definitur; thallus K  $\frac{+}{-}$ , medulla e flavo mox croceo-ferruginascens. = In Oceania (ins. Taïti).

948. **Physcia comosa** Nyl. *Syn.* I, p. 416, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 322, thallus K  $\frac{+}{-}$ . — *Parmelia comosa* Eschw. = In America calidiore vel calida (Pennsylvania; Mexico, *Flora* 1858, p. 379; Peruvia et Bolivia, *Flora* 1855, p. 674, *Lich. exot.* p. 216, *Lich. And. Boliv.* p. 375, et in hoc posteriore loco definitur; Brasilia).

949. **P. barbifera** Nyl. *Syn.* I, p. 416, ubi definitur; *Flora* 1869, p. 322, thallus K  $\frac{+}{-}$ . = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 172 et *Contrib. da Fl. d'Afric.* p. 5). — In America tropica (Peruvia, *Flora* 1874, p. 72).

950. **P. speciosa** Fr., Nyl. *Syn.* I, p. 416, ubi definitur; *Enum. Lich.* p. 106; *Flora* 1869, p. 322, thallus K  $\frac{+}{-}$ . — *Lichen speciosus* Wulf. — *Parmelia flabellata* Fée et *P. compacta* Fée. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 67 et *Lich. Jap.* (1) p. 32) et meridionali (India). — In Africa boreali (Algeria, *Lich. Algér.* p. 311), orientali (ins. Borbonia, *Lich. exot.* p. 255), orientali antarctica (ins. S<sup>ti</sup> Pauli, *Flora* 1886, p. 320), meridionali (Portu Natali, *Lich. Port Natal* p. 6) et occidentali (Guinea, *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 44; ins. San Thomé, *Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 12; Huilla, *Lich. Afric.* p. 131). — In America utraque (Mexico, *Flora* 1858, p. 379; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25, ubi viget forma peculiaris; Peruvia et Bolivia, *Lich. exot.* p. 216; Fuegia, *Lich. Fueg.* p. 26). — In Oceania (Java; Australia, *Flora* 1886, p. 324; ins. Taïti, *Lich. exot.* p. 239; archipel. Mendana, *Lich. îles Marquis.* p. 301). — Etiam in Europa.

— F. 1 **cinerascens** Nyl. *Syn.* I, loc. citat., ubi definitur. = In Africa orientali (Abyssinia).

— F. 2. **alba** Nyl. *Lich. exot.* p. 216, ubi definitur. — *Parmelia alba* Fée. = In America tropica (Peruvia).

— F. 3. **isidiophora** Nyl. *Syn.* I, loc. citat. = In America tropica (ins. Guadalupa et Martinica, *Lich. Antill.* p. 9). — In Oceania (ins. Java).

— Var. **dactyliza** Nyl. *Syn.* I, loc. citat., ubi definitur. = In Africa occidentali (Guinea, *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 44). — In America tropica (Peruvia).

951. **P. corallophora** Nyl. *Lich. ins. Guin.* p. 12, ubi definitur; thallus K  $\frac{+}{-}$ . *P. coralliphora* Nyl. *Syn.* I, p. 418; *P. corallifera* Nyl. *Flora* 1886, p. 172 et *Contrib. da Fl. d'Afric.* p. 5. — *Parmelia corallophora* Tayl. = In Africa occidentali (ins. San Thomé). — In America tropica (Peruvia).

952. **P. hypoleuca** Nyl. *Lich. N. Zeland.* 1888, p. 45; *P. speciosa* var. *hypoleuca* Ach., Nyl. *Syn.* I, p. 417, ubi definitur. — *Parmelia lævigata* var. *bifida* Eschw. *Lich. Brasil.* p. 20. Medulla K —. In *Lich. Antill.* p. 9 indicatur reactio K  $\frac{+}{-}$ . = In Asia meridionali (India). — In Africa orientali (ins. Borbonia) meridionali (Promont. Bonæ Spei) et occidentali (Guinea, *Flora* 1862, p. 475, ins. San Thomé, *Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 12; Serra de Chella *Lich. Afric.* p. 131). — In America utraque (Mexico, *Mexic. Plant.* p. 5; ins. Martinica et Guadalupa, *Lich. Antill.* p. 9; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26, ed. 1<sup>a</sup> pp. 25 et 130; Peruvia, *Lich. exot.* p. 216. *Parmelia lamelligera* Tayl.). — In Oceania (ins. Java; Nova Caledonia, *Lich. N. Caled. Syn.* p. 19, ubi definitur, et *Expos.* p. 43, *Flora*, 1867, p. 194; ins. Java; ins. Marianis et Taïti; Nova Zelandia).

(1) Lichenes Japoniæ. *Accedunt Observationibus Lichenes insulæ Labuan. Parisiis* 1890. — Illud cel. Nylander opus, in quo pars secunda Lichenum a cl. Almqvist in expeditione navis *Vega* ab illustrissimo Nordenskiöld ducta collectorum enumeratur describiturque, quum jam pars nostri libri typis mandata erat, mense octobri in lucem prodit. Species japoniæ et americanæ, quæ ad genera jam exposita pertinent, ad calcem hujus voluminis locum obtinebunt. Remanet nunc ampla collectio ex insula Ceylonia in eadem expeditione facta studio subjicienda.

— **F. granulifera** Nyl. *Syn.* loc. citat. — *Parmelia granulifera* Ach. = Obvenit passim cum typo.

953. **Physica domingensis** Ach., Nyl. *Syn.* I, pp. 417 et 423, ubi definitur. = In America tropica (ins. Guadalupa et Martinica, *Lich. Antill.* p. 9; ins. S<sup>u</sup> Thomæ, *Flora* 1880, p. 127). — In Oceania (archipel. Mendana, *Lich. îles Marquis.* p. 301, *P. mollescens* Nyl.).

— **F. isidiophora** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25. = In America tropica (Nova Granata).

954. **P. obscurata** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).

955. **P. obesa** Nyl. *Syn.* I, p. 418, ubi definitur; *P. papulosa* Nyl. *Enum. Lich.* p. 107. — *Parmelia obesa* Pers.; *Parmelia papulosa* Mont. = In Oceania (ins. Sandwich, *Lich. exot.* p. 239).

— **F. cæσιο-crocata** Nyl. *Syn.* I, loc. citat., ubi definitur. — *Parmelia cæσιο-crocata* Menziensius. = In Africa australi (Promont. Bonæ Spei).

956. **P. dispansa** Nyl. *Syn.* I, p. 418, ubi definitur; *Flora* 1869, p. 322, thallus K<sup>+</sup>. = In Asia orientali (China).

957. **P. firmula** Nyl. *Syn.* I, p. 418, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1869, p. 322, thallus K<sup>+</sup>. = In Asia (India et Himalaya).

##### 5. — Stirps *Physicæ stellaris* Fr.

958. **P. psathyra** Tuck., Nyl. *Syn.* I, p. 422, ubi definitur; *Flora* 1869, p. 322, thallus K<sup>+</sup>. = In America tropica (ins. Cuba).

959. **P. Leana** Tuck., *Syn.* I, p. 423, ubi definitur. — *Parmelia Leana* Tuck. = In America boreali (Ohio).

960. **P. crispa** Nyl. *Syn.* I, p. 423, ubi definitur; *P. domingensis* Nyl. *Enum. Lich.* p. 106, æque ac in pluribus e sequentibus operibus. — *Parmelia crispa* Pers.; *Parmelia domingensis* Mont. Thallus K<sup>+</sup>. = In Asia orientali (Japonia, *Lich. Jap.* p. 33, ubi definitur). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. Principis, *Lich. ins. Guin.* p. 12; Senegambia). — In America tropica (Mexico, *Flora* 1858, p. 379; Brasilia, *Flora* 1869, p. 419. — In Oceania (ins. Labuan, *Lich. Jap.* p. 110; Polynesia, *Lich. exot.* p. 239; Nova Caledonia, *Flora* 1867, p. 194, *Syn. Lich. N. Caled.* p. 19, ubi definitur).

— **F. rosella** Nyl. *Syn. Lich. N. Caled.* p. 19, ubi definitur. = In Oceania (Nova Caledonia).

961. **P. galactophylla** Nyl. *Lich. ins. Guin.* p. 12; *P. speciosa* var. *galactophylla* Tuck.; *P. leucomela* var. *galactophylla* Nyl. *Syn.* I, p. 415, ubi definitur; *P. latifolia* var. *galactophylla* Nyl. *Flora* 1867, p. 322 et *Mexic. Plant.* p. 5. Thallus K extus intusque flavet. = In Africa occidentali (ins. San Thomé). — In America septentrionali (Carolina et Louisiana).

962. **P. dilatata** Nyl. *Syn.* I, p. 423, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1869, p. 322, thallus K<sup>+</sup>. = In Africa orientali (Abyssinia) et occidentali (Guinea, *Flora* 1862, p. 475 et *Lich. ins. Guin.* p. 44). — In America tropica (Nova Granata, *Flora* 1864, p. 618 et *Prodr. Fl. N. Gran. Addit.* ed. 2<sup>a</sup> p. 539, ubi sporæ definiuntur).

963. **P. integrata** Nyl. *Syn.* I, p. 424, ubi definitur. = In America tropica (Mexico). — In Oceania (ins. Marianis).

964. **T. phæocarpa** Nyl. *Syn.* I, p. 424, ubi definitur. = In America tropica (Brasilia et Bolivia).

965. **P. major** Nyl. *Flora* 1858, p. 379, et *Syn.* I, p. 424, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1869, p. 321, thallus K<sup>+</sup>. = In America tropica (Mexico).



— Var. **isidiosa** Nyl. *Syn. loc. citat.*, ubi definitur; *Enum. Lich.* p. 107. = In eadem regione.

966. **Physcia stellaris** Fr., Nyl. *Syn.* I, p. 424, ubi definitur; *Enum. Lich.* p. 107. — *Lichen stellaris* L. Thallus K ±, Nyl. apud Hue *Addend. Lich. europ.* p. 52; in *Flora* 1879, p. 322 errore indicatur K †. — *Parmelia formosa* Fée. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — In Africa boreali (Algeria, *Lich. Algér.* p. 311 et *Prodr. Lich. Gall.* p. 61 et *Flora* 1878, p. 344) et meridionali. — In America utraque (Mexico, *Flora* 1858, p. 379 et *Mexic. Plant.* p. 5; Bolivia, *Lich. exot.* p. 216, *Lich. And. Boliv.* p. 375). — In Oceania (Nova Zelandia) *Lich. N. Zeland.* 1888, p. 45, ubi sporæ definiuntur). — Etiam in Europa.

= F. 1. **radiata** Ach., Nyl. *Lich. Scand.* p. 111, ubi definitur. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 249, et 1888, p. 45). — Etiam in Europa.

— F. 2. **rosulata** Ach., Nyl. *Lich. Scand.* p. 111, ubi definitur. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 46). — Etiam in Europa.

967. \* **P. leptalea** DC., Nyl. *Flora* 1878, p. 345; *P. stellaris* var. *leptalea* Nyl. *Syn.* I, p. 425, ubi definitur; *Flora* 1878, p. 344; *P. stellaris hispida* Fr., Nyl. *Enum. Lich.* p. 107. = *Parmelia leptalea* Ach. Thallus K ±, Nyl. apud Hue *Addend. Lich. europ.* p. 52. = In Africa boreali (Algeria). — Etiam in Europa.

968. \*\* **P. albinea** Nyl. *Lich. Fr. Behr.* p. 27; *P. stellaris* f. *albinea* Nyl. *Syn.* I, p. 425, ubi definitur; *Enum. Lich.* p. 107. — *Parmelia albinea* Ach. Thallus K ±. = In Asia boreali (Konyambay) et orientali (Japonia, *Lich. Jap.* p. 32). — Etiam in Europa.

969. \*\*\* **P. albo-plumbea** Nyl. *Syn.* I, p. 425, ubi definitur; forsitan jungenda est cum *P. albinea*. — *Parmelia albo-plumbea* Tayl. = In Oceania (Australia).

970. \*\*\* **P. tenella** Nyl. *Lich. Pyr.-Orient.* p. 31; *P. stellaris* var. *tenella* Nyl. *Syn.* I, p. 426, ubi definitur; *Enum. Lich.* p. 107. = *Lichen tenellus* Scop. Thallus ±, *Flora* 1870, p. 38. = In Africa boreali (Algeria). — Etiam in Europa.

971. \*\*\*\* **P. subobscura** Nyl. *Flora* 1869, p. 389; *P. stellaris* var. *subobscura* Nyl. *Syn.* I, p. 426 et *Lich. Scand.* p. 111, ubi definitur; *Flora* 1860, p. 38. = In Africa boreali (Algeria, *Flora* 1878, p. 344). = In America boreali (ins. Miquelon). — Etiam in Europa boreali.

972. **P. tribacia** Nyl. *Flora* 1881, p. 537; *P. stellaris* f. *tribacia* Nyl. *Syn.* I, p. 425, ubi definitur. — *Lecanora tribacia* Ach. Thallus K ±, Nyl. apud Hue *Addend. Lichenogr. europ.* pp. 53 et 332. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68) et tropica (Nova Granata, *Ph. stellaris* var. *tenella* Scop., corticola, collect. Lindig. 731, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25). — Etiam in Europa.

973. **P. aipolia** Nyl. *Flora* 1870, p. 38; *Ph. stellaris* var. *aipolia* Nyl. *Lich. Scand.* p. 111, ubi definitur. — *Parmelia aipolia* Ach. Thallus K †. = In America tropica (Nova Granata, *Ph. stellaris* (L.), saxicola, collect. Lindig. 712, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25, ubi sporæ definiuntur). — Etiam in Europa.

974. **P. tribacoides** Nyl. *Flora* 1874, p. 307, ubi definitur; *Ph. stellaris* (L.), corticola, collect. Lindig. 2602, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25). — Etiam in Europa.

975. **P. melops** Nyl. *Flora* 1874, p. 16 et apud Hue *Addend. Lichen. europ.* p. 53. — *Parmelia melops* Duf. Thallus K †. = In Asia boreali (Konyamby et Lawrence insula, *Lich. Fr. Behr.* pp. 27 et 48). — In America boreali (Alaska, *Lich. Behr.* p. 86, ubi indicatur errato reactio thalli K ±). — Etiam in Europa.

976. **P. callosa** Nyl. *Flora* 1869, pp. 419 et 389, ubi definitur; thallus K †. = In America septentrionali (California).

977. **P. erosula** Nyl. *Flora* 1880, p. 427, ubi definitur; thallus K †. = In America tropica (ins. Sancti Thomæ).

978. **Physciaastroidea** Fr., Nyl. *Syn.* I, p. 426, ubi definitur; *Enum. Lich.* p. 407; *Flora* 1869, p. 322, thallus K  $\pm$ . — *Parmelia astroidea* Clem. = In Africa boreali. — Etiam in Europa.

979. \* **P. obsessa** Nyl. *Syn.* I, p. 426, ubi definitur; *P. stellaris* var. *obsessa* Nyl. *Enum. Lich. Supplém.* p. 336. — *Parmelia obsessa* Mont. Thallus K  $\pm$ . = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 42). — In America tropica (Mexico, *Flora* 1858, p. 379 et *Mexic. Plant.* p. 6, in hoc posteriore loco et in duobus sequentibus sporæ definiuntur; Guadalupa, *Lich. Antill.* p. 9; Nova Granata, *Prodr. Fl. N. Gran.* ed 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25; Peruvia, *Lich. exot.* p. 216). = In Oceania (ins. Java, *Flora* 1866, p. 431).

980. **P. cæsia** Fr., Nyl. *Syn.* I, p. 426, ubi definitur; *Enum. Lich.* p. 407; *Flora* 1869, p. 322, thallus K  $\pm$ . — *Lichen cæsius* Hoffm. = In Asia boreali (Konyambay et Lawrence ins., *Lich. Fr. Behr.* pp. 27 et 48) et orientali (Japonia, *Lich. Jap.* p. 33). — In Africa boreali (Algeria, *Lich. Algér.* p. 311). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 86) et tropica (ins. Sancti Thomæ, *Flora* 1880, p. 427). — Etiam in Europa.

981. **P. cæsitia** Nyl. apud Norrlin *Torn. Lapp.* p. 326; thallus K  $\pm$ . = In Asia boreali (Konyambay, *Lich. Fr. Behr.* 27). — Etiam in Europa.

#### 6. — Stirps *Physiciæ pulverulentæ* Fr.

982. **P. glauco-virescens** Nyl. *Syn.* I, p. 419, ubi definitur; *Flora* 1869, p. 322, thallus K =. = In America australi (Morton Bay).

983. **P. pulverulenta** Fr., Nyl. *Syn.* I, p. 419, ubi definitur; *Enum. Lich.* p. 407; *Flora* 1869, p. 321, thallus K =. = *Lichen pulverulentus* Schreb. = In Asia orientali (Japonia, *Lich. Jap.* p. 33). — In Africa boreali (Algeria, *Lich. Algér.* p. 311). — In America boreali. — Etiam in Europa.

— V. 1. **pityrea** Nyl. *Syn.* I, p. 420, ubi definitur; *Enum. Lich.* p. 407. — *Lichen pityreus* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 311). — Etiam in Europa.

— Var 2. **angustata** Nyl. *Syn.* I, loc. cit., ubi definitur; *Enum. Lich.* p. 407. — *Lichen angustatus* Hoffm. = In Africa boreali (Algeria, *Lich. Algér.* p. 311). — In Oceania (ins. Sandwich). — Etiam in Europa.

984 \* **P. muscigena** Nyl. *Enum. Lich.* p. 407; *P. pulverulenta* var. *muscigena* Nyl. *Syn.* I, p. 420, ubi definitur. — *Lichen muscigenus* Wahlenb. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Lawrence ins. et Konyambay, *Lich. Fr. Behr.* pp. 8 et 49). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62, ubi apothecia definiuntur). — Etiam in Europa.

— Var. **glaucescens** (Wahlenb.) Nyl. *Lich. Fr. Behr.* p. 49. = In Asia boreali (Konyambay).

985. \*\* **P. venusta** Nyl. *Syn.* I, p. 421, ubi definitur. — *Parmelia venusta* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 311 et *Flora* 1878, p. 345) et occidentali (ins. Madera, *Lich. Madère* p. 188). — Etiam in Europa.

986. **P. detersa** Nyl. *Flora* 1878, p. 344; *P. pulverulenta* var. *detersa* Nyl. *Syn.* I, p. 420, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

987. **P. palmulata** Mich., Nyl. *Lich. Jap.* p. 33, ubi definitur; *Ph. detonsa* Nyl. *Syn.* I, p. 421, ubi definitur; *Enum. Lich.* p. 407. — *Lecanora palmulata* Ach. — *Parmelia detonsa* Fr. Thallus K =, *Flora* 1869, p. 322. = In Asia orientali (Japonia). — In America boreali.

988. **P. aquila** Fr., Nyl. *Syn.* I, p. 422, ubi definitur; *Enum. Lich.* p. 407; *Flora* 1869, p. 322, thallus K =. — *Lichen aquilus* Ach. = In Asia (Himalaya). — Etiam in Europa.

989. **P. balanina** Nyl. *Lich. Fr. Behr.* pp. 40 et 55. — *Lichen balaninus* Wahlenb., Nyl.

*Lich. Scand.* p. 110, ubi definitur. Potius fere *Lecanora* ob sterigmata subsimplicia. = In Asia boreali (Lawrencebay). — Etiam in Europa arctica.

7. — Stirps *Physciæ obscuræ* Fr.

990. **P. obscura** Fr., *Nyl. Syn.* I, p. 427, ubi definitur; *Flora* 1862, p. 355 (spermatia); *Enum. Lich.* p. 107. — *Lichen obscurus* Ehrh. Thallus K =, *Flora* 1869, p. 322. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 27). — In Africa boreali (Algeria, *Lich. Algér.* p. 311). — In America utraque (Peruvia, *Lich. exot.* p. 216). — In Oceania (Nova Zelandia). — Etiam in Europa.

— F. **glabrior** Nyl. *Lich. Jap.* p. 33. = In Asia orientali (Japonia).

— Var. 1. **virella** Nyl. *Syn.* I, p. 427, ubi definitur. — *Lichen virellus* Ach. = Occurrit passim cum typo.

— Var. 3. **ulotrighoides** Nyl. *Prodr. Fl. N. Gran.* ed 1<sup>a</sup> et 2<sup>a</sup> p. 26, ubi definitur. = In America tropica (Nova Granata).

— Var. 3. **compacta** Nyl. *Syn.* I, p. 428, ubi definitur; *P. aquila* var. *compacta* Nyl. *Enum. Lich.* p. 107. = In America arctica.

991. **P. obscuriuscula** Nyl. *Lich. N. Zeland.* 1888, p. 46, ubi definitur. = In Oceania (Nova Zelandia).

992. **P. ulothrix** Nyl. *Enum. Lich.* p. 107; *P. obscura* var. *ulothrix* Fr., *Nyl. Syn.* I, p. 428, ubi definitur. — *Lichen ulothrix* Ach. = Distribuitur fere æque ac typus. In Asia orientali (Japonia, *Lich. Jap.* p. 33). — In Africa boreali (Algeria, *Lich. Algér.* p. 311).

993. **P. elapheia** Nyl. *Lich. Middend.* p. 3 et *Lich. Fr. Behr.* p. 74, ubi definitur. = In Asia boreali (Sibiria).

994. **P. lithothea** Nyl. *Flora* 1877, p. 354 in notula; *P. cycloselis* var. *lithothea* Ach. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 27). — Etiam in Europa.

— Var. **sciastra** Nyl. *Flora* 1877, p. 354 in notula; *P. obscura* var. *sciastra* Nyl. *Syn.* I, p. 428, ubi definitur. — *Parmelia sciastra* Ach. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 27) et orientali (Japonia, *Lich. Jap.* p. 34). — In America utraque (Port-Clarence, *Lich. Fr. Behr.* p. 69; Nova Anglia; Bolivia, *Lich. And. Boliv.* p. 375). — Etiam in Europa.

995. **P. affixa** Nyl. apud Cromb. *Lich. capens.* p. 170, ubi definitur. = In Africa meridionali (Promont. Bonæ Spei).

996. **P. endococcina** Nyl. *Flora* 1877, p. 354 in notula. — *Parmelia endococcina* Kœrber *Parerg. lichenolog.* p. 36; Arn. *Exsicc.* 533. = In Asia orientali (Japonia, *Lich. Jap.* p. 33). — In America tropica (Nova Granata, *Ph. obscura* f. *endochrysea* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 26 et ed. 2<sup>a</sup> p. 25, ubi thallus definitur, collect. Lindig. 2536). — Etiam in Europa.

997. **P. endochrysea** Nyl. *Flora* 1875, p. 442. — *Parmelia endochrysea* Hampe, *Nyl. Syn.* I, p. 427 et *Lich. Jap.* p. 33, ubi thallus definitur. = In America tropica (ins. S<sup>u</sup> Thomæ).

998. **P. setosa** Nyl. *Syn.* I, p. 429, ubi definitur; *Flora* 1869, p. 322, thallus K =. — *Parmelia setosa* Ach. — Est e *Lich. Port-Natal* p. 6 *Parmelia hispidula* Ach. quæ sistit *P. atricapillam* Tayl., *Nyl. Enum. Lich.* p. 104 et *Supplém.* p. 336, *Flora* 1858, p. 379. Hæc *P. hispidula* in *Lich. Scand.* p. 99 *Parmeliæ scortezæ* Ach. falso identica dicitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 33; China, Nyl. et Cromb. *Lich. East. Asia* p. 62) et meridionali (India). — In Africa meridionali (Portu Natali, *Lich. Port-Natal* p. 6). — In America utraque calidiore (Mexico, *Mexic. Plant.* p. 5). — In Oceania (ins. Java). — Etiam in Europa (Italia etu sitani *Flora* 1862, p. 475 in notula).

999. **P. sparsa** Nyl. *Syn.* I, p. 429, ubi definitur. — *Parmelia sparsa* Tayl.; *Parmelia viridis* Mont., *Physcia viridis* Nyl. *Enum. Lich.* p. 107. = In Africa occidentali (ins. S<sup>u</sup> Vincentii). — In America tropica (ins. Cuba).



1000. **Physcia obscurascens** Nyl. *Syn.* I, p. 429, ubi definitur; *Flora* 1869, p. 322; *Ph. subobscura* Nyl. *Enum. Lich.* p. 107. Thallus K =. = In America tropica (Brasilia).

8. — Stirps *Physciæ adglutinatæ* Nyl.

1001. **P. adglutinata** Nyl. *Syn.* I, p. 428 et *Flora* 1862, p. 355, 1866, p. 181, 1869, p. 322, ubi definitur; *Enum. Lich.* p. 107; thallus K =. — *Parmelia adglutinata* Flörke = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — In America utraque (Nova Anglia; Nova Granata, *Prodr. Fl. N. Gran.* in utraque ed. p. 26, ubi sporæ definiuntur).

— **F. minor** Nyl. *Syn.* I, p. 429 et *Prodr. Fl. N. Gran.* locis citat. — *Parmelia minor* Fée. = In America tropica (Nova Granata).

1002. \* **P. syncolla** Tuck., Nyl. *Syn.* I, p. 428, ubi definitur; *Flora* 1869, p. 322, thallus K =. = In America tropica (ins. Cuba; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 27, tab. I, fig. 4, ed. 2<sup>a</sup> p. 26, ubi sporæ et spermatia definiuntur).

1003. **P. plinthizā** Nyl. *Lich. N. Zeland.* 1861, p. 249, et 1888, p. 46, ubi definitur; *Flora* 1865, p. 337 in notula, et 1869, p. 322. Thallus K =. = In Oceania (Nova Zelandia).

9. — *Physciæ pictæ* Nyl.

1004. **P. picta** Nyl. *Syn.* I, p. 430, tab. VIII, fig. 53, ubi definitur; *Flora* 1866, p. 322; *P. plumosa* Nyl. *Enum. Lich.* p. 106 et *Supplém.* p. 336; *P. applanata* Nyl. *Enum. Lich.* p. 107. — *Lichen pictus* Sw. — *Parmelia plumosa* Tayl.; *Parmelia applanata* Fée; *P. minor* Fée. Thallus K ±. = In Asia orientali (Japonia, *Lich. Jap.* p. 34, China, Birmania et Malacca, Nyl. et Cromb. *Lich. East. Asia* pp. 67, 62, 49 et 52) et meridionali (Calcutta, *Flora* 1867, p. 3, ubi sporæ definiuntur (f. isidiophora Nyl.); ins. Andaman, *Lich. Andam.* p. 5; ins. Ceylonia). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255) et occidentali (ins. Principis et ins. Caprarum, *Lich. ins. Principis* p. 2 et *Lich. ins. Guin.* p. 12). — In America utraque tropica et subtropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> *Addit.* p. 540, ubi sporæ definiuntur; *Flora* 1864, p. 619; Peruvia, *Lich. exot.* p. 216; Chili, *Addit. Fl. chil.* pp. 163 et 181). — In Oceania (ins. Java, *Flora* 1866, p. 131; Australia, *Lich. N. Zeland.* 1861, p. 253 in notula et forma definita in *Flora* 1886, p. 324; archipel. Mendana, *Lich. îles Marquis.* p. 301; Polynesia, *Ph. plumosa* (Tayl.), quæ definitur, et Taïti, *Ph. applanata* Fée, Nyl. *Lich. exot.* p. 239; Nova Caledonia, *Lich. N. Caledon.* *Syn.* p. 19, ubi definitur; *Prodr.* p. 282 et *Exposit.* p. 43, *Flora* 1867, p. 194; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 46).

— Var. **leucothrix** Nyl. *Syn.* I, p. 430, ubi definitur; *Enum. Lich.* p. 107. — *Parmelia leucothrix* Tayl. = In Africa occidentali.

1005. **P. subpicta** Nyl. apud Cromb. *Lich. capens.* p. 171, ubi definitur. = In Africa meridionali (Promont. Bonæ Spei).

1006. **P. ægialita** Nyl. *Exposit. Lich. N. Caled.* p. 43 in notula, ubi definitur; *Flora* 1869, p. 322. *P. confluens* Nyl. *Syn.* I, p. 430, ubi definitur, et *Enum. Lich.* p. 107. — *P. Adscensionis* Nyl. apud Cromb. *Chall. Exped.* p. 212. — *Parmelia ægialita* Ach. *Method.* p. 192; *Lecanora ægialita* Ach. *Syn. Lich.* p. 179; *Parmelia confluens* Fr.; *Lecanora Adscensionis* Ach. *Syn. Lich.* p. 179; Thallus K ±. = In Asia meridionali. — In Africa meridionali (Promontorio Viridi et ins. Ascensionis). — In Oceania (Polynesia, Taïti, Nukahiva, *Lich. exot.* p. 239 et *Lich. îles Marquis.* p. 301, *Lecanora confluens* Fr.).

1007. **P. cæsio-picta** Nyl. *Lich. Jap.* p. 34, ubi definitur = In Asia orientali (Japonia, Nagasaki); China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — In Africa orientali antarctica (ins. S<sup>ti</sup> Pauli, *Lich. S<sup>ti</sup> Pauli* p. 1 et *Flora* 1886, p. 320).

# LICHENES EXOTICOS

A PROFESSORE W. NYLANDER DESCRIPTOS VEL RECOGNITOS

ET IN HERBARIO MUSEI PARIENSIS PRO MAXIMA PARTE ASSERVATOS

IN ORDINE SYSTEMATICO DISPOSUIT

A. M. HUE

ROTHOMAGENSIS SACERDOS.

(Suite.)

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## TRIB. XXVI. — PYXINEI.

Gen. LXXI. — PYXINE Nyl.

In *Flora* 1864, p. 488, dicitur Pyxineos supprimendos et cum Physciis jungendos esse, sed in *Flora* 1886, p. 172 admittitur adhuc hæc tribus.

1008. **P. Meissnerii** Tuck., Nyl. *Syn.* II, p. 1, *Lich. exot.* p. 155 in notula et *Lich. Antill.* p. 9, ubi definitur; thallus K =. = In Asia orientali (Japonia, *Lich. Jap.* p. 34) et meridionali (Calcutta, *Flora* 1867, p. 3). — In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 6) et occidentali (ins. San Thomé, *Flora* 1886, p. 472, *Contrib. da Fl. d'Afric.* p. 5 et *Lich. ins. Guin.* p. 13). — In America tropica (ins. Guadalupa; Cuba; Nova Granata, *Prodr. Fl. N. Gran.* p. 27 in utraque edit.; Brasilia). — In Oceania (ins. Java, *Flora* 1866, p. 131, ubi definitur).

1009. **P. Cocoës** Nyl. *Syn.* II, p. 2, tab. IX, fig. 1 et 2, et *Lich. Antill.* p. 10, ubi definitur; *Enum. Lich.* p. 108. — *Pyxine Cocoës* Sw.; thallus K =. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 52) et meridionali (Calcutta, *Flora* 1867, p. 3, ubi definitur). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 255, ubi sporæ definiuntur) et meridionali (Portu Natali, *Lich. Port Natal*, p. 6). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 27 et ed. 2<sup>a</sup> p. 26; Chili mitiore). — In Oceania (ins. Taiti et Nukahiva, *Lich. exot.* p. 239; Nova Caledonia, *Flora* 1867, p. 194, *Lich. N. Caled. Syn.* p. 20, ubi definitur, et *Exposit.* p. 43).

— Var. **cæsiopruinosa** Nyl. *Syn.* II et *Lich. Antill.* locis citat., ubi definitur; *P. soredata* var. *cæsiopruinosa* Tuck. = In America boreali (Carolina et Georgia).

1010. **P. petricola** Nyl. apud Cromb. *Ins. Rodrig.* p. 435, ubi definitur; thallus K =. = In Africa orientali (ins. Rodriguez).

1011. **Pyxine endochrysin** Nyl. *Lich. Jap.* p. 34, ubi definitur; thallus K = vel supra leviter flavescit. = In Asia orientali (Japonia).

1012. **P. sorediata** Fr., Nyl. *Lich. Antill.* p. 10 et *Lich. Andam.* p. 6; *Enum. Lich.* p. 108 in notula; *P. Cocoës* var. *sorediata* Nyl. *Syn.* II, p. 2, ubi definitur. — *Lecidea sorediata* Ach.; *Parmelia sorediata* Tuck; thallus K ±. = In Asia orientali (Japonia, *Lich. Jap.* p. 34; Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 52) et meridionali (ins. Ceylonia). — In Africa occidentali (Huilla et serra da Chella, *Lich. Afric.* p. 131). — In America tropica (Antillis; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 27, ed. 2<sup>a</sup> p. 26 atque *Addit.* p. 540, et in hoc posteriore loco definitur, *Flora* 1864, p. 619) et meridionali (Chili. *Addit. Fl. chil.* p. 163, *Lecidea sorediata* Ach., ubi definitur). — In Oceania (ins. Taïti et Nukahiva, *Lich. exot.* p. 239 et *Lich. iles Marquis.* p. 302; Nova Caledonia).

1013. **P. Meissnerina** Nyl. *Lich. Andam.* p. 5, ubi definitur; thallus K ±. = In Asia meridionali (ins. Andaman, Bengalia, etc.). — In Oceania (Nova Caledonia, *P. Meissnerii* Tuck., Nyl. *Flora* 1869, p. 194, *Lich. N. Caled. Prodr.* p. 282, *Exposit.* p. 43, *Syn.* p. 20 et in hoc posteriore loco definitur).

1014. **P. retirugella** Nyl. *Lich. exot.* p. 240, *Syn.* II, p. 3, *Lich. Antill.* p. 10, ubi definitur; *Enum. Lich.* p. 108; thallus K ±. = In Oceania (ins. Taïti; ins. Nukahiva, *Lich. iles Marquis.* p. 301, *Parmelia retirugella*; Nova Caledonia, *Flora* 1869, p. 294, *Lich. N. Caled. Prodr.* p. 283, *Exposit.* p. 43, *Syn.* p. 20, et in hoc posteriore loco definitur).

1015. **P. coccifera** Nyl. *Syn.* II, p. 3 et *Lich. Antill.* p. 10, ubi definitur; *Enum. Lich.* p. 108. — *Parmelia coccifera* Fée; thallus K ≠ violacee dissolvitur. = In America tropica. — In Oceania (ins. Java).

#### TRIB. XXVII. — GYROPHOREI.

Gen. LXXII. — **UMBILICARIA** Hoffm., Nyl. in *Flora* 1875, p. 303.

Subgen. I. — *Umbilicaria* pr. dict. Nyl. in *Flora* 1878, p. 247.

1016. **U. pustulata** Hoffm., Nyl. *Syn.* II, p. 4, tab. IX, fig. 3, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1860, p. 417, et 1869, p. 388. — *Lichen pustulatus* L.; thallus CaCl ≠. = In Asia boreali. — In Africa boreali (ins. Madera, *Lich. Madère* p. 188). — In America septentrionali et tropica (Mexico, *Mexic. Plant.* p. 5). — Etiam in Europa.

— **F. minor** Nyl. apud Cromb. *Lich. capens.* p. 171. = In Africa meridionali (promont. Bonæ Spei).

1017. **U. papulosa** Nyl. in *Flora* 1858, p. 380; *Enum. Lich.* p. 107; *U. pustulata* var. *papulosa* Nyl. *Syn.* II, p. 5, ubi definitur; *Flora* 1860, p. 417, et 1869, p. 388. — *Gyrophora papulosa* Ach.; thallus CaCl ≠. = In America utraque, sed præsertim boreali (Mexico, *Flora* 1858, p. 380; Peruvia, *Lich. exot.* p. 217).

1018. \*\* **U. membranacea** Laur., Nyl. *Syn.* I, p. 5, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1019. **U. pennsylvanica** Hoffm., Nyl. *Syn.* II, p. 5, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1860 et 1869, locis citat.; thallus CaCl ≠. = In Asia (montibus elevatioribus Caucaso, *Flora* 1886, p. 466, Uralensibus, Kolyvan et Himalaya). — In America boreali (Groenlandia; ins. Miquelon, etc.).

1020. **U. dictyiza** Nyl. *Syn.* II, p. 5, ubi definitur; *Flora* 1860 et 1869 loc. citat.; thallus CaCl ≠. = In America boreali (e Carolina boreali usque in Terram Novam).

1021. **U. rubiginosa** Pers., Nyl. *Syn.* II p. 6, ubi definitur; *Flora* 1860 et 1869 locis citat.; thallus; K ± violaceo-purpureus. = In Africa meridionali (promont. Bonæ Spei).



Subgen. II. — *Agyrophora* Nyl. in *Flora* 1878, p. 247.

1022. **A. atropuinos**a Nyl. in *Flora* 1878, p. 247. — *Umbilicaria atropuinos*a Schær., Nyl. *Syn.* II, p. 6, tab. IX, fig. 4, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 388, thallus K =, CaCl =. = In Americæ montibus (in Unalasccha adest forma in Nyl. *Syn.* loc. citat. definita). — Etiam in Europæ alpibus.

Gen. LXXIII. — *Gyrophora* Ach., Nyl. in *Flora* 1875, p. 303.

1. — Stirps *Gyrophoræ reticulatæ* Nyl.

1023. **G. reticulata** Nyl. — *Umbilicaria atropuinos*a var. *reticulata* Schær., Nyl. *Syn.* II, p. 6, ubi definitur; *Flora* 1860, p. 418, et 1869, p. 388 in notula et p. 389, thallus CaCl  $\frac{+}{-}$ . = In Americæ utriusque montibus (Mexico, *Flora* 1858, p. 380; Chili, *Addit. Fl. chil.* p. 181). — Etiam in Europæ summis alpibus Helvetiæ, Delphinatus et Pyrenæorum.

1024. **G. lecanocarpoides** Nyl. — *Umbilicaria lecanocarpoides* Nyl. *Syn.* II, p. 7, ubi definitur; *Flora* 1860, p. 418, et 1869, p. 388, thallus CaCl  $\pm$ . = In Asia (mont Himalaya).

1025. **G. haplocarpa** Nyl. — *Umbilicaria haplocarpa* Nyl. *Syn.* II, p. 8, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, 1863, p. 604 in notula, et 1869, p. 389, thallus CaCl  $\frac{+}{-}$  vel  $\mp$ . = In Americæ meridionalis montibus (Peruvia, *Lich. exot.* p. 217 et Bolivia *Lich. And. Boliv.* p. 376, in quibus locis etiam definitur).

1026. **G. rugifera** Nyl. — *Umbilicaria rugifera* Nyl. *Syn.* II, p. 14, ubi definitur; *Flora* 1869, p. 388, thallus CaCl  $\pm$ . = In Asia boreali (Sibiria orientali).

1027. **G. dichroa** Nyl. — *Umbilicaria dichroa* Nyl. in *Flora* 1855, p. 674 (errore in *Syn.* indicatur 1858), *Syn.* II, p. 8, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 389, thallus CaCl  $\frac{+}{-}$  vel  $\mp$ . = In America tropica (Peruvia et Bolivia, *Lich. exot.* p. 217, ubi etiam definitur).

2. — Stirps *Gyrophoræ vellereæ* Ach.

1028. **G. ptychophora** Nyl. — *Umbilicaria ptychophora* Nyl. in *Flora* 1869, p. 388; thallus K =, CaCl =. = In Asia (Caucaso orientali) et in Europa (Gallia).

1029. **G. calvescens** Nyl. — *Umbilicaria calvescens* Nyl. *Syn.* II, p. 8, tab. IX, fig. 5, ubi definitur; *Flora* 1860, p. 418, et 1869, p. 389, thallus CaCl  $\frac{+}{-}$  vel  $\mp$ . = In America meridionali (Peruvia et Bolivia, *Lich. And. Boliv.* p. 375, ubi definitur).

— Var. 1. **subvellerea** Nyl. in litt.; var. *subvellea* Nyl. *Syn.* II, p. 9, ubi definitur; *Flora* 1860, p. 418. = In America tropica (Bolivia).

— 2. **hypomelæna** Nyl. *Syn.* loc. citat., ubi definitur; *Flora* 1860, loc. citat. = In America tropica (Peruvia).

1030 **G. vellerea** Nyl. *Lich. N. Zeland.* 1888, p. 144; *Gyrophora vellea* Ach. — *Umbilicaria vellea* Nyl. *Syn.* II, p. 9, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 389; thallus CaCl  $\frac{+}{-}$  vel  $\mp$ . = In Americæ utriusque montibus (Peruvia, *Flora* 1855, p. 674). — Etiam in Europa.

— Var. 1. **Dillenii** Nyl. — *Umbilicaria vellea* var. *Dillenii* Nyl. *Lich. Scand.* p. 114 et *Flora* 1869, p. 389; *U. Dillenii* Tuck., Nyl. *Syn.* II, p. 9; *Enum. Lich.* p. 108; *Flora* 1860, p. 418; thallus CaCl  $\frac{+}{-}$  vel  $\mp$ . = In America septentrionali (Canada).

— Var. 2. **diffRACTA** Nyl. in *Flora* 1869, p. 389; eadem thalli reactio. = In Europa arctica (Norvegia boreali, Alten; legit Zetterstedt).

— Var. 3. **angulata**. Nyl. — *Umbilicaria angulata* Tuck., Nyl. *Syn.* II, p. 10. = In America septentrionali.

1031. **Gyrophora spodochoa** Nyl. — *Umbilicaria spodochoa* Hoffm., Nyl. *Syn.* II, p. 10, tab. IX, fig. 6 et 7, ubi definitur; *Flora* 1869, p. 389; *U. spodochoa* Nyl. *Flora* 1860, p. 418. — *Lichen spadochrous* Ehrh.; thallus CaCl  $\frac{+}{+}$  vel  $\frac{-}{-}$ . = In Africa (Kabylia) — In America boreali. — Etiam in Europa.

— Var. 1. **gyrina** Nyl. *Syn.* II, loc. citat., ubi definitur. = In Africa occidentali (ins. Madera, *Lich. Madère* p. 188). — In America meridionali (Bolivia, *Lich. And. Boliv.* p. 376). — Etiam in Europa.

— Var. 2. **mammulata** Nyl.; *G. mammulata* Ach. — *Umbilicaria mammulata* Nyl. *Enum. Lich.* p. 107; *U. spodochoa* var. *mammulata* Nyl. *Syn.* II, p. 11, ubi delenda dicitur hæc varietas, sed indicatur in opere *Synopsi* posteriore, in *Flora* 1869, p. 389. Thallus CaCl  $\frac{+}{+}$  vel  $\frac{-}{-}$ . = In America septentrionali.

1032. **G. crustulosa** Ach. — *Umbilicaria spodochoa* var. *crustulosa* Nyl. *Syn.* II, p. 11, ubi definitur; *Flora* 1869, p. 389, thallus CaCl  $\frac{+}{+}$  vel  $\frac{-}{-}$ . = In Africa occidentali (ins. Madera, *Flora* 1875, p. 448). — Etiam in Europa.

1033. **G. papillosa** Nyl. — *Umbilicaria papillosa* Nyl. *Syn.* II, p. 11, ubi definitur; *Flora* 1860, loc. citat. = In Asia (mont Himalaya).

1034. **G. tylorrhiza** Nyl. — *Umbilicaria tylorrhiza* Nyl. *Lich. Lapp. orient.* p. 122, et *Flora* 1887, p. 135, ubi definitur; *Flora* 1869, p. 389; thallus CaCl  $\frac{+}{+}$ . = In Asia orientali (China). — Etiam in Europa.

1035. **G. yunnana** Nyl. in *Flora* 1887, p. 135, ubi definitur, et apud Hue *Lich. Yun.* p. 24; thallus CaCl  $\frac{-}{-}$ . = In Asia (China, prov. Yun-nan, ubi est corticola).

1036. **G. hirsuta** Ach. — *Umbilicaria hirsuta* Fr., Nyl. *Syn.* II, p. 11, tab IX, fig. 8, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 389. Thallus CaCl  $\frac{+}{+}$  vel  $\frac{-}{-}$ . = In Asia boreali (Sibiria, *Lich. Middend.* p. 3, ubi forma minor definitur). — In America utraque (Peruvia, *Lich. exot.* p. 217). — Etiam in Europa.

— Var. **papyria** Ach. — *Umbilicaria papyria* Nyl. *Flora* 1860, p. 418; *U. hirsuta* var. *papyria* Nyl. *Lich. Scand.* p. 115, ubi definitur. = In America tropica (Mexico, *Mexic. Plant.* p. 5). — Etiam in Europa.

1037. **G. stygia** Tayl. — *Umbilicaria stygia* Nyl. *Flora* 1860 p. 418. = In America australi (ins. Maclovianis).

1038. **G. aprina** Nyl. — *Umbilicaria aprina* Nyl. in *Flora* 1865, p. 604 in notula, et 1869, p. 388; *U. syagroderma* Nyl. in *Flora* 1860, p. 418; thallus CaCl  $\frac{\pm}{\pm}$ . = In Africa orientali (Abyssinia).

### 3. — Stirps *Gyrophoræ proboscideæ* Ach.

1039. **G. proboscidea** Ach. — *Umbilicaria proboscidea* DC., Nyl. *Syn.* II, p. 12, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 388; thallus CaCl  $\frac{\pm}{\pm}$ . = In Asia boreali (Konyambay et Lawrence ins., *Lich. Fr. Behr.* pp. 27 et 49) et meridionali (Himalaya). — In America boreali (Mexico, *Mexic. Plant.* p. 5). — Etiam in Europa.

1040. **G. arctica** Ach. — *Umbilicaria arctica* Nyl. *Syn.* II, p. 13, ubi definitur; *U. hyperborea* var. *arctica* Nyl. *Enum. Lich.* p. 107; *Flora* 1869, p. 389, thallus CaCl  $\frac{+}{+}$  vel  $\frac{-}{-}$ . = In alpinis et maritimis totius zonæ arcticæ. — In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 80). — In America boreali et etiam tropica (Mexico, *Mexic. Plant.* p. 5). — Etiam in Europa.

1041. **G. cylindrica** Ach. — *Lichen cylindricus* L. — *Umbilicaria cylindrica*. Dub., Nyl. *Syn.* II, p. 13, tab. IX, fig. 10, ubi definitur; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 388; thallus K =, CaCl =. = In Africa orientali (Abyssinia). — In America septentrionali. — In Oceania (Australia). — Etiam in Europa.

— Var. **Delisei** Nyl. — *Umbilicaria Delisei* Despréaux, Nyl. *Syn.* II, p. 14, ubi definitur;

*Flora* 1869, p. 388, thallus K =, CaCl =. = In America arctica (Groenlandia, Terra Nova). — Etiam in Europa.

4. — Stirps *Gyrophoræ polyphyllæ* Turn. et Borr.

1042. **Gyrophora Mühlenbergii** Ach. — *Umbilicaria Mühlenbergii* Tuck., Nyl. *Syn.* II, p. 45, tab. IX, fig. 11, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1860, p. 418, et 1869, p. 389; thallus CaCl  $\frac{+}{-}$  vel  $\frac{-}{+}$ . = In Asia boreali (Sibiria, *Lich. Fr. Behr.* p. 74 et *Lich. Middend.* p. 3). — In America utraque præsertim boreali (Groenlandia; Terra Nova; ins. Miquelon) et tropicæ in montibus (Peruvia, *Lich. exot.* p. 217, ubi etiam definitur).

1043. **G. diffissa** Nyl. *Lich. Fueg.* p. 23. — *Umbilicaria Mühlenbergii* var. *diffissa* Nyl. *Addit. Fl. chil.* p. 149 et *Syn.* II, p. 10, ubi definitur; *Enum. Lich.* p. 107. = In America meridionali (Chili).

1044. **G. erosa** Ach. — *Lichen erosus* Web. — *Umbilicaria erosa* Hoffm., Nyl. *Syn.* II, p. 45, tab. IX, fig. 12; *Enum. Lich.* p. 108; *Flora* 1860, p. 418, et 1869, p. 388; thallus K =, CaCl =. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 27). — In America septentrionali et boreo-occidentali. — Etiam in Europa.

1045. **G. torrida** Ach. — *Umbilicaria erosa* var. *torrida* Nyl. *Syn.* II, p. 46, ubi definitur; medulla K (CaCl) erythrinose reagit. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 28) et orientali (Japonia, *Lich. Jap.* p. 35). — Etiam in Europa.

1046. **G. phæa** Nyl. — *Umbilicaria phæa* Tuck. *Lich. Califor.* p. 115, Nyl. *Flora* 1869, p. 389, thallus CaCl  $\frac{+}{-}$  vel  $\frac{-}{+}$ . = In America septentrionali (California).

1047. **G. hyperborea** Ach. — *Umbilicaria hyperborea* Hoffm., Nyl. *Syn.* II, p. 46, tab. IX, fig. 13, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1860, p. 418, et 1869, p. 389; thallus CaCl  $\frac{+}{-}$  vel  $\frac{-}{+}$ . = In Asia boreali (Konyambay et Behring ins., *Lich. Fr. Behr.* pp. 28 et 55). — In America utraque (Labrador, ubi variat; Mexico, *Flora* 1858, p. 379, mont. Chimborazo; mont Pichincha, *Lich. exot.* p. 217). — Etiam in Europa.

1048. **G. flocculosa** Turn. et Borr. — *Lichen flocculosus* Wulf. — *Umbilicaria flocculosa* Hoffm., Nyl. *Syn.* II, p. 47, ubi definitur; *Flora* 1860 et 1869 locis citat.; *U. polyphylla* var. *deusta* Fr., Nyl. *Enum. Lich.* p. 107. Thallus CaCl  $\frac{+}{-}$  vel  $\frac{-}{+}$ . = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 28). — In America boreali. — Etiam in Europa.

1049. **G. polyphylla** Turn. et Borr. — *Lichen polyphyllus*. L. — *Umbilicaria polyphylla* Schrad., Nyl. *Syn.* II, p. 48, tab. IX, fig. 14, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1860 p. 418, et 1869 p. 389 (melius dicenda *G. glabra* Ach.); ei levis saltem reactio medullaris CaCl versus stratum gonidiale vulgo conspicitur. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 55). — In America utraque (Bolivia, *Lich. exot.* p. 217). — Etiam in Europa.

1050. **G. polyrrhiza** Nyl. — *Lichen polyrrhizus*. — *Umbilicaria polyrrhiza* Fr., Nyl. *Syn.* II, p. 49, ubi definitur; *Enum. Lich.* p. 107; *Flora* 1860, et 1869 loc. citat.; thallus CaCl  $\frac{+}{-}$  vel  $\frac{-}{+}$ . = In Asia (mont Himalaya). — Etiam in Europa.

1051. **G. sclerophylla** Nyl. — *Umbilicaria sclerophylla* Nyl. *Flora* 1862, p. 82, ubi definitur; *Flora* 1869, p. 388, thallus K =, CaCl =. = In America boreali (Groenlandia).

Gen. LXXIV. — DERMATICUM Nyl.

1052. **D. Thunbergii** Nyl. *Enum. Lich.* p. 116. — *Endocarpon Thunbergii* Ach.; *Umbilicaria flavo-virescens* Leigh. *On a new species of Umbilicaria*, in *Linnean Society's Journal, Botany*, tom. X, p. 34, ubi a cel. Nylander definitur, et plate IV, fig. 17-28. = In Africa meridionali (promont. Bonæ Spei).



## Series VII. — LECANO-LECIDEODEI.

TRIB. XXVIII. — PANNARINEI Nyl. *Lich. Fueg.* p. 26 in notula et p. 31.

## Subtrib. I. — Pannariei.

## Gen. LXXV. — PANNARIA Del.

1053. **P. lurida** Nyl. *Syn.* II, p. 28, ubi definitur; *Enum. Lich.* p. 409 et *Supplém.* p. 339; *Disposit. Psorom. et Pannar.* p. 294. — *Collema luridum* Mont. — *Parmelia Russelii* Tuck. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 256; ins. Madagascar). — In America boreali (Nova Anglia) et tropica (ins. Guadalupa, *Lich. Antill.* p. 40). — In Oceania (ins. Sandwich, *Lich. exot.* p. 240; ins. Philippinis; forsitan in ins. Java. Nova Caledonia indicatur in *Syn.* II, loco citat., sed hæc species in operibus de Lichenibus Novæ Caledoniæ tractantibus deest).

1054. **P. gemmascens** Nyl. *Lich. Jap.* p. 36, ubi definitur. = In Asia orientali (Japonia).

1055. **P. subcinnata** Nyl. *Lich. Fueg.* p. 6 et apud Croub. *Falkl. isl.* p. 231, ubi definitur. = In America australi (Fuegia).

1056. **P. pannosa** Del., Nyl. *Syn.* II, p. 29, ubi definitur; *Enum. Lich.* p. 409; *Disposit. Psorom. et Pannar.* p. 294. — *Lichen pannosus* Sw., = In terris æquinoctialibus, in Asia orientali (Malacca, Nyl. et Croub. *Lich. East. Asia* p. 52). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 256). — In America meridionali (ins. Guadalupa, *Lich. Antill.* p. 40; Nova Granata, *Prodr. Fl. N. Gran.* p. 27 in utraque edit.; in aliis terris calidis abundat, *Lich. exot.* p. 218). — In Oceania (ins. Java, *Flora* 1866, p. 431; Polynesia, *Lich. exot.* p. 240, *Parmelia Sandwichiana* Pers., in ins. Sandwich et in ins. Tahouata adest forma peculiaris; archipel. Mendana, *Lich. îles Marquis.* p. 301; Nova Caledonia, *Flora* 1867, p. 194, *Lich. N. Caled. Prodr.* p. 283, *Exposit.* p. 44, et *Syn.* p. 21, in quo definitur).

1057. **P. rubiginosa** Del., Nyl. *Syn.* II, p. 29, tab. IX, fig. 15, ubi definitur; *Enum. Lich.* p. 409; *Disposit. Psorom. et Pannar.* p. 294. — *Lichen rubiginosus* Thunb. = In Asia orientali (Japonia, *Lich. Jap.* p. 36) et meridionali (India). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 256), meridionali (promont. Bonæ Spei) et occidentali (ins. Madera, *Lich. Madère* p. 188). — In America utraque (ins. Guadalupa, *Lich. Antill.* p. 40; Bolivia, *Lich. And. Boliv.* p. 376; Chili, *Addit. Fl. chil.* p. 181). — In Oceania (Australia; delenda est Nova Caledonia, *Flora* 1867, p. 194, *Exposit. Lich. N. Caled.* p. 44, quæ pertinet ad *P. fulvescentem* Nyl.). — Etiam in Europa. Errore hæc species in ins. San Thomé Africae occidentalis indicata fuit, cf. *Lich. ins. Guin.* p. 13.

— **F. cinerascens** Nyl. apud Croub. *Ins. Rodrig.* p. 436. = In Africa orientali (ins. Rodriguez).

— Var. 1. **radiata** Nyl. *Lich. exot.* p. 256 et *Syn.* II, p. 30 ubi definitur; *Enum. Lich.* p. 409. = In Africa orientali (ins. Borbonia), — In America media et meridionali.

— Var. 2. **conoplea** Nyl. *Syn.* II, loco citat., ubi definitur; *Disposit. Psorom. et Pannar.* p. 294; *Enum. Lich.* p. 409. — *Parmelia conoplea* Ach. = In America meridionali (Chili, *Addit. Fl. chil.* p. 181). — Etiam in Europa.

— Var. 3. **dispartita** Nyl. apud Croub. *Ins. Rodrig.* p. 436, ubi definitur. = In Africa orientali (ins. Rodriguez.)

1058. \***P. fulvescens** Nyl. *Syn.* II, p. 28; *Enum. Lich.* p. 409; *Disposit. Psorom. et Pannar.* p. 294. — *Parmelia fulvescens* Mont. = In America antarctica (fretum Magellanicum, *Lich. exot.* p. 263, et *Lich. N. Zeland.* 1888, p. 145). — In Oceania (ins. Taiti et Nukahiva,

*Lich. exot.* p. 240, ubi definitur et *Lich. îles Marquis.* p. 301; Nova Caledonia, *Flora* 1867, p. 194, *Lich. N. Caledon. Exposit.* p. 44 et *Syn.* p. 21, et in hoc definitur, collect. Vieill. n° 1810, proindeque ad hanc speciem referri debet *P. rubiginosa* Nyl. *Exposit. Lich. N. Caled.* p. 44 et *Flora* 1867, p. 194 sub eodem numero data).

1059. \*\* **Pannaria prolifera** Nyl. *Lich. N. Zeland.* 1888, p. 48, ubi definitur. = In Oceania (Nova Zelandia).

1060. **P. pholidota** Nyl. *Syn.* II, p. 30, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 294. — *Parmelia pholidota* Mont. = In Africa occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 13). — In America utraque (Mexico; Bolivia, *Lich. exot.* p. 218; Chili, *Addit. Fl. chil.* p. 182 et *Flora* 1855, p. 674; Fuegia et ins. Juan Fernandez, *Lich. Fueg.* p. 26 in notula).

1061. **P. immixta** Nyl. *Lich. N. Zeland.* 1861, p. 249, et 1888, p. 48, ubi definitur. = In Oceania (Nova Zelandia, *Flora* 1865, p. 337 in notula).

— F. **gyrantha** Nyl. *Lich. N. Zeland.* 1888, p. 49, ubi definitur. = In Oceania (Nova Zelandia).

1062. **P. luridula** Nyl. apud Cromb. *Ins. Rodrig.* p. 436, ubi definitur. = In Africa orientali (ins. Rodriguez).

1063. **P. imbricata** Nyl. *Syn.* II, p. 31, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 294. = In Oceania (Tasmania).

1064. **P. leucosticta** Nyl. *Syn.* II, p. 34, ubi definitur; *Enum. Lich. Supplém.* p. 336; *Disposit. Psorom. et Pannar.* p. 294. — *Parmelia leucosticta* Tuck. = In Africa occidentali (ins. Madera, *Lich. Madère* p. 183). — In America boreali fere tota (Nova Anglia, etc.).

— Var. **isidiopsis** Nyl. apud Cromb. *Lich. capens.* p. 171, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1065. **P. holospoda** Nyl. *Lich. N. Zeland.* 1888, p. 49, ubi definitur; *P. leucosticta* Nyl. *Lich. N. Zeland.* 1861, p. 250, ubi definitur. = In Oceania (Nova Zelandia).

1066. **P. brunnea** Mass., Nyl. *Syn.* II, p. 31, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 294. — *Lichen brunneus* Sw. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 8, 20, 45 et 54) et orientali (Japonia, *Lich. Jap.* p. 36). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

— Var. **crenulans** Nyl. *Lich. Jap.* p. 36, ubi definitur. = In Asia orientali (Japonia).

1067. **P. placodiopsis** Nyl. apud Cromb. *Kerguel. land* p. 183, ubi definitur. = In Africa australi (ins. Kerguelen).

1068. **P. obscurior.** Nyl. apud Cromb. *Kerguel. land* loc. citat., ubi definitur. = In eadem insula.

1069. **P. nebulosa** Nyl. *Syn.* II, p. 32, tab. IX, fig. 17, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 294. — *Patellaria nebulosa* Hoffm. = In Africa boreali (Algeria, *Flora* 1878, p. 345). — Etiam in Europa.

1070. **P. asperella** Nyl. — *Lecanora asperella* Hampe, Nyl. *Enum. Lich.* p. 113. = In Africa australi (promont. Bonæ Spei).

1071. **P. elæina** Nyl. *Syn.* II, p. 33, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 295; *Addit. Fl. chil.* p. 181 in notula. — *Parmelia elæina* Wahlenb. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 28). — Etiam in Europa (Laponia).

1072. **P. superior** Nyl. *Syn. Lich. N. Caled.* p. 22, ubi definitur; *Flora* 1867, p. 194. = In Oceania (Nova Caledonia).

Gen. LXXVI. — PANNULARIA Nyl. in *Flora* 1879, p. 360.

Subgen. I. — *Pannularia* pr. dicta Nyl.

1073. **P. rubiginascens** Nyl. apud Cromb. *Austral. Lich.* p. 397, ubi definitur. = In Oceania (Australia).

1074. **P. microphylla** Nyl. — *Lichen microphyllus* Sw. — *Pannaria microphylla* Mass., Nyl. *Syn.* II, p. 34, tab. IX, fig. 19-21, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 295. = In Asia (mont. Himalaya). — In Africa boreali (Algeria, *Lich. Algér.* p. 312). — In America utraque (Chili, *Addit. Fl. chil.* p. 150, ubi definitur; *Flora* 1885, p. 674). — Etiam in Europa.

1075. **P. microphylloides** Nyl. — *Pannaria microphylloides* Nyl. *Addit. Fl. chil.* p. 150 et *Syn.* II, p. 36, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 295. = In America meridionali (Chili).

1076. **P. interfixa** Nyl. in *Flora* 1885, p. 446, et *Lich. Fr. Behr.* p. 8, ubi definitur. = In Asia boreali (Lawrencebay).

1077. **P. triptophylla** Nyl. — *Lecidea triptophylla* Ach. — *Pannaria triptophylla* Nyl. *Syn.* II, p. 36, tab. IX, fig. 23, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 295. = In America boreali. — Etiam in Europa.

1078. \* **P. nigra** Nyl. apud Stizenb. *Lich. helvet.* p. 82. — *Lichen niger* Huds. — *Pannaria nigra* Nyl. *Syn.* II, p. 36, tab. IX, fig. 24-26, ubi definitur et *Disposit. Psorom. et Pannar.* p. 295; *P. triptophylla* var. *nigra* Nyl. *Enum. Lich.* p. 109. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 28). — In Africa boreali (Algeria, *Lich. Algér.* p. 323, ubi sporæ definiuntur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 69). — In Oceania (Nova Zelandia, *Flora* 1865, p. 337, et *Lich. N. Zeland.* 1861, p. 250, ubi sporæ definiuntur, et 1888, p. 51). — Etiam in Europa.

1079. **P. nigro-cincta** Nyl. — *Parmelia nigro-cincta* Mont. — *Pannaria nigro-cincta* Nyl. *Syn.* II, p. 39, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 295. = In Africa occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 13, ubi sporæ definiuntur). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> pp. 27 et 81, atque ed. 2<sup>a</sup> p. 27, ubi sporæ definiuntur, æque ac in sequente loco; Brasilia, *Flora* 1869, p. 119; Peruvia et Bolivia, *Lich. exot.* p. 218) et meridionali (Chili, *Addit. Fl. chil.* p. 182; ins. Juan Fernandez). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 50, ubi sporæ definiuntur).

1080. \* **P. obliterans** Nyl. *Lich. N. Zeland.* 1888, p. 50, ubi definitur. = In Oceania (Nova Zelandia).

1081. **P. nigro-cinerea** Nyl. — *Pannaria nigro-cinerea* Nyl. *Syn.* II, p. 39, ubi definitur; *Disposit. Psorom. et Pannar.* loc. citat. = In Oceania (ins. Borneo).

1082. **P. amphibela** Nyl. *Lich. N. Zeland.* 1888, pp. 50 et 51, ubi definitur. = In Oceania (Nova Zelandia).

1083. **P. gymnocheila** Nyl. *Lich. N. Zeland.* 1861, p. 250, et 1888, p. 51, ubi definitur: *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

1084. **P. Muscorum** Del. — *Lecanora Muscorum* Ach. — *Pannaria Muscorum* Nyl. *Syn.* II, p. 40, tab. IX, fig. 28, ubi definitur; *Enum. Lich.* p. 109; *Disposit. Psorom. et Pannar.* p. 295. = In America australi (ins. Maclovianis). — In Oceania (Nova Zelandia). — Etiam in Europa.

1085. **P. stellata** Nyl. — *Coccocarpia stellata* Tuck. — *Pannaria stellata* Nyl. *Syn.* II, p. 40, ubi definitur; *Disposit. Psorom. et Pannar.* p. 295 = In America boreali (Carolina).



1086. **Pannularia asterella** Nyl. — *Pannaria asterella* Nyl. in *Flora* 1869, p. 419, ubi definitur. = In America meridionali (Brasilia).

1087. **P. crossophylla** Nyl. — *Pannaria crossophylla* Tuck., Nyl. *Syn.* II, p. 40, ubi definitur; *Disposit. Psorom. et Pannar.* p. 295. = In America septentrionali (Nova Anglia).

Subgen. II. — *Coccocarpia* Pers.

1088. **C. Gayana** Nyl. *Syn.* II, p. 41, ubi definitur; *Disposit. Psorom. et Pannar.* p. 295. — *Pannaria Gayana* Nyl. *Enum. Lich.* p. 408. — *Parmelia Gayana* Mont. = In America meridionali (Chili, *Addit. Fl. chil.* p. 181). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 46).

— Var. **melacarpina** Nyl. *Lich. N. Zeland.* 1888, p. 47, ubi definitur. = In Oceania (Nova Zelandia).

1089. **C. homalantha** Nyl. *Syn. Lich. N. Caled.* p. 23, ubi definitur; in *Flora* 1867, p. 495. = In Oceania (Nova Caledonia).

1090. **C. plumbea** Nyl. *Syn.* II, p. 42, ubi definitur; *Enum. Lich.* p. 409. — *Lichen plumbeus* Lightf. = In Africa boreali (Algeria, *Lich. Algér.* p. 312 et *Prodr. Lich. Gall.* p. 66, *Pannaria plumbea* Del.) et occidentali (ins. Madera, *Lich. Madère* p. 188). — Etiam in Europa.

1091 **C. molybdæa** Pers., Nyl. *Syn.* II, p. 42, tab. IX, fig. 29, ubi definitur; *Enum. Lich.* p. 409. Forsan melius dicenda *C. parmelioides* Hook., Nyl. *Syn. Lich. N. Caled.* p. 22 in notula. — *Solorina circinarioides* Fée. — *Circinaria Cocoës* Fée. = In omnibus terris tropicis. In Asia orientali (Japonia, *Lich. Jap.* p. 35; Malacca et Japonia, Nyl. et Cromb. *Lich. East. Asia* pp. 54 et 67) et meridionali (ins. Andaman, *Lich. Andam.* p. 6). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 257) et occidentali (ins. San Thomé, *Contrib. da Fl. d'Afric.* p. 6 et *Lich. ins. Guin.* p. 43). — In America utraque (Pennsylvania; Mexico, *Flora* 1858, p. 380; ins. Guadalupa, *Lich. Antill.* p. 11; Nova Granata, *Prodr. Fl. N. Gran.* p. 27 in utraque edit.; Peruvia, *Lich. exot.* p. 218). — In Oceania (ins. Java, *Flora* 1866, p. 131; Polynesia, *Lich. exot.* p. 240; Nova Caledonia, *Flora* 1867, p. 495, *Lich. N. Caled. Prodr.* p. 283, *Exposit.* p. 44, *Syn.* p. 22, et in hoc posteriore loco definitur).

— Var. 1. **cronia** Nyl. *Syn.* II, p. 43, et *Prodr. Fl. N. Gran.* p. 27 in utraque edit., ubi definitur. — *Parmelia cronia* Tuck. = In America utraque calida (Nova Granata; Brasilia, *Flora* 1869, p. 419).

— Var. 2. **polyphylla** Nyl. *Syn.* II, p. 43, et *Exposit. Lich. N. Caled.* p. 44; *Coccocarpia polyphylla* Pers. = In Oceania (Nova Caledonia).

— Var. 3. **tenuior** Nyl. apud Krempelh. in *Flora* 1876, p. 76. = In Africa orientali (ins. Mauritii).

1092. \* **C. incisa** Pers., Nyl. *Lich. îles Marquis.* p. 301, et *Enum. Lich.* p. 409; *C. molybdæa* var. *incisa* Nyl. *Syn.* II, p. 43, et *Syn. Lich. N. Caled.* p. 22, ubi definitur. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 54) et meridionali (ins. Andaman, *Lich. Andam.* p. 6). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* p. 27 in utraque editione). — In Oceania (ins. Java; ins. Nukahiva, *Lich. exot.* p. 240; ins. Marianis; Nova Caledonia, *Flora* 1867, p. 495).

— F. 1. **palumbina** Nyl. *Syn. Lich. N. Caled.* p. 22, ubi definitur; *Flora* 1867, p. 495. = In Oceania (Nova Caledonia).

— F. 2. **pellita** Nyl. *Syn.* II, p. 43; *Prodr. Fl. N. Gran.* p. 27 in utraque edit.; *Syn. Lich. N. Caled.* p. 22. — *Parmelia pellita* Sw. = In America tropica (Nova Granata).

1893. **Coccocarpia periptera** Nyl. *Lich. N. Zeland.* 1888, p. 47, et apud Knight *Lich. N. Zeal.* 1874, p. 361, ubi definitur. = In Oceania (Nova Zelandia).

1094. **C. aurantiaca** Nyl. in *Flora* 1866, p. 131, ubi definitur; *C. molybdæa* var. *aurantiaca* Nyl. *Syn.* II, p. 43, ubi definitur; *Enum. Lich.* p. 109. — *Solorina aurantiaca* Hook. fil. et Tayl. Forte rectius nominanda *C. vitellina*, *Solorina vitellina* Fée, Nyl. *Syn. Lich. N. Caled.* p. 22. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 54). — In America tropica (Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed 2 p. 27). — In Oceania (ins. Java; Nova Caledonia, *Flora* 1867, p. 195, *Lich. N. Caled. Exposit.* p. 44 et *Syn.* p. 22, et in hoc definitur; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 47, ubi etiam definitur).

1095. **C. smaragdina** Pers., Nyl. *Syn.* II, p. 43, ubi definitur; *Enum. Lich.* p. 109. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 54). — In Oceania (ins. Java; ins. Marianis, *Lich. exot.* p. 240; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 47, ubi etiam definitur).

1096. **C. azurella** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 54, ubi definitur. = In Asia orientali (Malacca).

1097. **C. epitripta** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 54, ubi definitur. = In eadem regione.

1098. **C. ciliolata** Mont., Nyl. *Syn.* II, p. 43, tab. IX, fig. 30, ubi definitur; *Enum. Lich.* p. 109, *Flora* 1866, p. 180 in notula. = In Asia orientali tropica (Singapoure, legit Almquist, Nyl. in litt. — In Oceania (ins. Taïti, *Lich. exot.* p. 240).

1099. **C. erythrocarpa** Nyl. *Syn.* II, p. 44, ubi definitur; *Disposit. Psorom. et Pannar.* p. 295. — *Pannaria erythrocarpa* Del., Nyl. *Enum. Lich.* p. 108. = In Africa orientali (ins. Borbonia et Madagascar, *Lich. exot.* p. 256, ubi etiam definitur).

Gen. LXXVII. — LEIODERMA Nyl.

1100. **L. pycnophorum** Nyl. *Lich. N. Zeland.* 1888, p. 47, ubi definitur. = In Oceania (Nova Zelandia).

Gen. LXXVIII. — ERIODERMA Fée.

Hoc genus, ob arthrosterigmata, ad subtribum Pannarieorum pertinet, Nyl. *Lich. Pyr. Orient.* p. 56 in notula.

1101. **E. unguigerum** Nyl. *Syn.* II, p. 47, tab. IX, fig. 32, et *Lich. exot.* p. 257, ubi definitur; *Enum. Lich.* p. 110 et *Supplém.* p. 336. — *Lichen unguigerus* Bory. = In Africa orientali (ins. Borbonia) et occidentali (ins. Sanctæ-Helenæ).

1102. **E. meiocarpum** Nyl. *Syn.* II, p. 47, tab. IX, fig. 33, ubi definitur. = In Asia meridionali (India, mont. Nilgherrensibus).

1103. **E. vellerigerum** Nyl. *Lich. N. Zeland.* 1888, p. 144, ubi definitur; *E. velligerum* Tuck. *Syn.* II, p. 143, et *E. polycarpum* Nyl. *Lich. Fueg.* p. 26. = In America australi (freto Magellanico; Port-Otway).

1104. **E. polycarpum** Fée, Nyl. *Syn.* II, p. 43, *Lich. exot.* p. 257, et *Syn. Lich. N. Caled.* p. 23, ubi definitur; *Enum. Lich.* p. 110 et *Supplém.* p. 336. = In Africa orientali (ins. Borbonia). — In America tropica (ins. Cuba). = In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

— Var. **hypomelænum** Nyl. *Syn.* II, p. 48, ubi definitur. = In Africa orientali (ins. Borbonia).

1105. **E. Wrightii** Tuck., Nyl. *Syn.* II, p. 48, ubi definitur; *E. polycarpum* var. *mexicanum* Nyl. *Enum. Lich.* p. 110. = In America tropica (Mexico; ins. Cuba, ubi viget forma peculiaris; ins. Guadalupa, *Lich. Antill.* p. 10).

— Var. **limbatum** Nyl. in *Flora* 1869, p. 419, ubi definitur. = In America tropica (Brasilia).

1106. **Erioderma chilense** Mont., Nyl. *Syn.* II, p. 48, ubi definitur; *Enum. Lich.* p. 410. = In America meridionali (Chili, *Addit. Fl. chil.* p. 181).

Subtrib. II. — **Heppiei.**

Gen. LXXIX. — **HEPPIA** Næg.

1107. **H. virescens** Nyl. *Syn.* II, p. 45, tab. IX, fig. 31, ubi definitur; *Enum. Lich.* p. 410. — *Solorina virescens* Despréaux. = In Africa occidentali (ins. Canariis). — In America boreali. — Etiam in Europa.

1108. **H. planescens** Nyl. *Syn.* II, p. 46, ubi definitur. = In America septentrionali (Texas).

1109. **H. reticulata** Nyl. in *Flora* 1878, p. 339, ubi sporæ definiuntur; *H. solorinoides* Nyl. *Syn.* II, p. 46, ubi definitur; *Enum. Lich.* p. 410; *Endocarpion reticulatum* Duf., Nyl. *Pyrenoc.* p. 17; *Lecanora solorinoides* Nyl. *Lich. Algér.* p. 323; *Lecidea reticulata* Nyl. *Lich. Ægypt.* p. 6 in notula, et in his tribus posterioribus locis adhuc definitur. *Lecidea* e stirpe *L. mamillaris*, in *Flora* 1860, p. 546. = In Asia occidentali (Syria). — In Africa boreali (Algeria). — Etiam in Europa (Hispania).

1110. **H. turgida** Nyl. *Lich. Pyr.-Orient.* p. 56 in notula et *Flora* 1878, p. 339. — *Endocarpion turgidum* Ach. = In Africa boreali (Algeria). — Etiam in Europa.

1111. **H. Guepini** Nyl. — *Endocarpiscum Guepini* Nyl. in *Flora* 1864, p. 487 in notula. — *Endocarpion Guepini* Moug., Nyl. *Pyrenoc.* p. 13, ubi definitur. Ab hâc specie forsitan non differt *Endocarpiscum Bolanderi* Tuck. *Syn. Lich. North Americ.* I, p. 414, Nyl. *Lich. Jap.* p. 404. = In America septentrionali. — In Oceania (Australia). — Etiam in Europa.

1112. **H. crispatula** Nyl. in *Flora* 1878, p. 339, ubi definitur. = In Africa boreali (Algeria).

1113. **H. obscuratula** Nyl. in *Flora* 1878, p. 339, ubi definitur. = In eadem regione.

1114. **H. psammophila** Nyl. in *Flora* 1878, p. 339, ubi definitur. = In eadem regione.

1115. **H. arenivaga** Nyl. *Lich. Jap.* p. 404, ubi definitur; *H. polyspora* Tuck. *Syn. Lich. North Americ.* I, p. 415. = In America septentrionali.

1116. **H. congregata** Nyl. — *Endocarpiscum congregatum* Nyl. *Lich. Angol.* p. 519, ubi definitur. = In Africa occidentali (Angola).

1117. **H. Rodriguesii** Cromb., Nyl. apud Cromb. *Ins. Rodrig.* p. 436, ubi definitur. = In Africa orientali (ins. Rodriguez).

1118. **H. meiolepis** Cromb., Nyl. apud Cromb. *Challeng. Exped.* p. 212, ubi definitur. — *Endocarpiscum aterrimum* Stirt. = In Africa occidentali (Arsenario promontorio, cap Vert).

1119. **H. omphaliza** Nyl. in *Bull. of the Torrey Bot. Club*, 1889, p. 106, et *Lich. ins. Guin.* p. 46, ubi definitur. = In America septentrionali (California).

Gen. LXXX. — **PELTULA** Nyl.

1120. **P. radicata** Nyl. *Lich. algeriens* p. 316, *Lich. Algér.* p. 322, *Prodr. Lich. Gall.* p. 93 et in *Flora* 1878, p. 339, ubi definitur; *Enum. Lich.* p. 416. = In Africa boreali (Algeria).

Gen. LXXXI. — **HETERINA** Nyl. in *Flora* 1874, p. 70.

1121. **H. tortuosa** Nyl. *Syn.* I, p. 138 et tab. IV, fig. 22, *Recogn. Ramal.* p. 79 et



in *Flora* 1874, p. 70, ubi definitur; *Enum. Lich.* p. 91. — *Dufourea tortuosa*, Nees = In Americæ tropicæ planitie, ad flumen Orinoco, in Guyana).

TRIB. XXIX. — LECANO-LECIDEI.

Subtrib. I. — Lecanorei.

Gen. LXXXII. — PSOROMA Nyl.

1122. **P. euphyllum** Nyl. *Syn.* II, p. 21, in *Flora* 1868, p. 372, et *Lich. N. Zeland.* 1888, p. 53, ubi definitur; *Disposit. Psorom. et Pannar.* p. 293. = In Oceania (Nova Zelandia).

1123. **P. pyxinoides** Nyl. *Lich. N. Zeland.* 1888, p. 53, ubi definitur. = In Oceania (Nova Zelandia).

1124. **P. Hypnorum** Fr., Nyl. *Syn.* I, tab. I, fig. 4, et II, p. 22, ubi definitur; *Enum. Lich.* p. 102; *Disposit. Psorom. et Pannar.* p. 293. — *Lichen Hypnorum* Sm. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 8, *Lecanora Hypnorum* Nyl.). — In America boreali frigida et antarctica (Chili, *Addit. Fl. chil.* p. 181; Fuegia, *Lich. Fueg.* p. 6; freto Magellanico, *Lich. exot.* p. 262; ins. Maclovianis). — Etiam in Europa.

— **F. deaurata** Ach., Nyl. *Syn.* II, p. 22, ubi definitur. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 63 et 68 in notula). — Etiam in Europa.

1125. \* **P. ciliatum** Nyl. — *Lecanora ciliata* Ach. — *Parmelia paleacea* Fr. — *Psoroma paleaceum* Nyl. *Syn.* II, p. 22, et *Lich. Scand.* p. 122, ubi definitur; *Enum. Lich.* p. 108; *Disposit. Psorom. et Pannar.* p. 293; *Addit. Fl. chil.* p. 181. = In America antarctica (ins. Maclovianis). — Etiam in Europa (Dania).

1126. **P. hirsutululum** Nyl. apud Cromb. *Kerguel. land.* p. 184, ubi definitur. = In Africa australi (ins. Kerguelen).

1127. **P. coralloideum** Nyl. *Syn.* II, p. 23, et *Lich. N. Zeland.* 1888, p. 54, ubi definitur; *Disposit. Psorom. et Pannar.* p. 294; *P. Hypnorum* var. *coralloideum* Nyl. *Enum. Lich.* p. 108. = In Oceania (Nova Zelandia).

1128. **P. araneosum** Nyl. *Syn.* II, p. 23, *Lich. N. Zeland.* 1888, p. 53, et *Lich. Campb.* p. 89, ubi definitur; *Disposit. Psorom. et Pannar.* p. 294; Lojka *Lich. univers.* n° 123; *P. subpruinolum* Nyl. *Enum. Lich.* p. 108. — *Parmelia rubiginosa* var. *araneosa* Bab. — *Lecanora araneosa* Nyl. in *Flora* 1868, p. 372, ubi definitur. = In Oceania (Nova Zelandia; ins. Campbell).

1129. **P. hispidulum** Nyl. in *Flora* 1855, p. 674, et *Syn.* II, p. 23, ubi definitur; *Enum. Lich.* p. 108; *Disposit. Psorom. et Pannar.* p. 294. = In America meridionali frigida (Chili, *Lich. exot.* p. 263; Fuegia, *Lich. Fueg.* p. 26).

1130. **P. cylindrophorum** Nyl. *Syn.* II, p. 24, ubi definitur; *Disposit. Psorom. et Pannar.* p. 294. — *Parmelia cylindrophora* Tayl. — *Physcia cylindrophora* Nyl. *Enum. Lich.* p. 106. = In Asia meridionali (India).

1131. **P. asperellum** Nyl. *Syn.* II, p. 24, ubi definitur. — *Lecanora asperella* Hampe, Nyl. *Enum. Lich.* p. 113. = In Africa meridionali (promont. Bonæ Spei), = In Oceania (Australia, Nyl. apud Cromb. *Austral. Lich.* p. 398, ubi etiam definitur).

1132. **P. soccatum** (R. Br.) Nyl. *Lich. Fueg.* p. 6 et apud Cromb. *Austral. Lich.* p. 398, ubi definitur; thallus K —. = In America australi (Patagonia). — In Oceania (Australia; Tasmania; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 55).

1133. **P. sphinctrinum** Nyl. *Syn.* II, p. 24, ubi definitur; *Enum. Lich.* p. 108; *Disposit. Psorom. et Pannar.* p. 294. — *Parmelia sphinctrina* Mont. = In Africa orientali (ins. Borbonia et Mauriti) et meridionali (promont. Bonæ Spei, *Lich. exot.* p. 256). — In America

antarctica (Chili, *Addit. Fl. chil.* p. 181; Fuegia, *Lich. Fueg.* p. 26). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195, *Lich. N. Caled. Exposit.* p. 44, *Syn.* p. 23, et in hoc definitur; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 250, et 1888, p. 51; Tasmania; ins. Campbell, *Lich. Campb.* p. 89).

— Var. 1. **crispellum** Nyl. *Syn.* II, p. 25, et *Lich. N. Zeland.* 1888, p. 52, ubi definitur; *Enum. Lich.* p. 408. = In Oceania (Nova Zelandia; ins. Campbell, *Lich. Campb.* p. 89, *P. pholidotoides* var. *crispellum*, ubi definitur).

— Var. 2. **leprolomum** Nyl. *Lich. N. Zeland.* 1888, p. 52, ubi definitur; *P. sphinctrinum* var. *leproloma* Nyl. *Lich. Campb.* p. 89, ubi definitur. = In Oceania (Nova Zelandia; ins. Campbell).

— Var. 3. **microphyllizans** Nyl. *Syn.* II, p. 25, et *Lich. N. Zeland.* 1888, p. 52, ubi definitur. = In Oceania (Nova Zelandia).

1134. \* **Psoroma discernens** Nyl. *Lich. Jap.* p. 110, ubi definitur; *P. sphinctrinum* var. *discretum* Nyl. *Syn.* II, p. 25, ubi definitur; necnon *Disposit. Psorom. et Pannar.* p. 294; thallus K—. = In America meridionali (Chili). — In Oceania (ins. Labuan).

1135. \*\* **P. allorrhizum** Nyl. — *Lecanora allorrhiza* Nyl. in *Flora* 1868, p. 373, ubi definitur. = In Oceania (Nova Zelandia).

1136. \*\*\* **P. pholidotoides** Nyl. *Lich. N. Zeland.* 1888, p. 52, ubi definitur; *Ps. sphinctrinum* var. *pholidotoides* Nyl. *Lich. N. Zeland.* 1861, p. 250, ubi definitur. = In Oceania (Nova Zelandia).

1137. **P. subhispidulum** Nyl. *Lich. exot.* p. 256 et *Syn.* II, p. 25, ubi definitur; *Enum. Lich.* p. 408; *Disposit. Psorom. et Pannar.* p. 294. = In Africa orientali (ins. Borbonia).

— Var. **isidiiforme** Nyl. *Lich. exot.* et *Syn.* II, locis citat., ubi definitur; = In eadem regione.

1138. **P. pallidum** Nyl. *Syn.* I, tab. I, fig. 23, et II, p. 25, ubi definitur; *Enum. Lich.* p. 408; *Disposit. Psorom. et Pannar.* p. 294. = In America antarctica (freto Magellanico, *Lich. exot.* p. 263 et *Lich. N. Zeland.* 1888, p. 54, ubi pr. p. definitur, et p. 145).

1139. **P. xanthomelanum** Nyl. *Syn.* II, p. 26, *Lich. Campb.* p. 89, et *Lich. N. Zeland.* 1888, p. 54, ubi definitur; *Enum. Lich.* p. 408; *Disposit. Psorom. et Pannar.* p. 294. = In America antarctica (freto Magellanico). — In Oceania (Nova Zelandia).

1140. **P. Buchanani** Nyl. in *Flora* 1886, p. 326, et *Lich. N. Zeland.* 1888, p. 54, ubi definitur. — *Thysanothecium Buchanani* Knight. = In Oceania (Nova Zelandia).

Gen. LXXXIII. — PSOROMARIA Nyl. *Lich. N. Zeland.* 1888, p. 55.

1141. **P. descendens** Nyl. — *Psoroma descendens* Nyl. *Lich. N. Zeland.* 1888, p. 55, et *Lich. Fueg.* p. 7, ubi definitur. = In Oceania (Nova Zelandia).

1142. **P. subdescendens** Nyl. — *Psoroma subdescendens* Nyl. *Lich. Fueg.* p. 7, ubi definitur. = In America australi (Ushawaia).

Gen. LXXXIV. — GYMNODERMA Nyl.

1143. **G. coccocarpum** Nyl. *Syn.* II, p. 26, tab. IX, fig. 34, ubi definitur; in *Flora* 1860, p. 546. = In Asia meridionali (mont. Himalaya).

Gen. LXXXV. — LECANORA Ach.

1. — *Placodium* DC.

Spermatia recta, oblonga vel bacilliformia, arthrosterigmatibus brevi-articulatis infixa.

— In speciebus hujus stirpis et sequentis, quarum thallus est flavus, stratum corticale et epithecium K purpurascunt.

A. — *Sporæ placodiomorphæ.*

1144. **Lecanora elegans** Ach. — *Lichen elegans* Link. — *Placodium elegans* DC., Nyl. *Lich. Scand.* p. 136 et in *Flora* 1883, p. 105, ubi definitur; *Enum. Lich.* p. 111. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Lawrencebay etc., *Lich. Fr. Behr.* pp. 10, 28 et 55). — In Africa orientali (Abyssinia). — In America utraque (Alaska, *Lich. Fr. Behr.* p. 86; Peruvia, *Lich. exot.* p. 219; Bolivia, *Lich. And. Boliv.* p. 377). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 58). — Etiam in Europa.

— Var. 1. **tenuis** Ach. *Syn. Lich.* p. 183, Nyl. in *Flora* 1883, p. 105, ubi definitur. — *Lichen elegans* var. *tenuis* Wahlenb. *Fl. lappon.* p. 417. — *Placodium elegans* var. *tenuis* Nyl. *Lich. Scand.* p. 137, ubi definitur. = In America boreali (Alaska, *Lich. Fr. Behr.* p. 86). — Etiam in Europa.

— Var. 2. **compacta** Arnold, Nyl. in *Flora* 1883, p. 105, ubi definitur; *Lich. Fueg.* p. 27. = In America australi (Chili et Fuegia). — Etiam in Europa.

1145. \* **L. lucens** Nyl. *Lich. N. Zeland.* 1888, p. 145, ubi definitur; *L. elegans* f. *lucens* Nyl. apud Cromb. *Kerguel land.* p. 184, ubi etiam definitur. = In Africa australi (ins. Kerguelen).

1146. **L. subelegans** Nyl. apud Cromb. *Challeng. Expedit.* p. 218, ubi definitur. = In Africa occidentali (ins. Teneriffa).

1147. **L. elegantissima** Nyl. *Lich. Angol.* p. 510, ubi definitur. = In Africa occidentali tropica (Angola; Mossamedes et Serra de Giraul, *Lich. Afric.* p. 131).

1148. **L. flavo-rubens** Nyl. *Lich. Angol.* p. 510, ubi definitur. — *Placodium flavo-rubens* Nyl. *Enum. Lich.* p. 111. = In Africa occidentali (promontorio Viridi, Nyl. apud Cromb. *Challeng. Expedit.* p. 212).

1149. **L. granulosa** Nyl. *Lich. Fr. Behr.* pp. 55 et 86. — *Amphiloma granulorum* J. Mueller. = In Asia boreali (Behring insula). — In America boreali (Alaska). — Etiam in Europa.

1150. **L. scopularis** Nyl. in *Flora* 1883, p. 105, ubi definitur; Norrlin *Herb. Lich. Fennix* n° 380. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10 et 28) et orientali (Japonia, *Lich. Jap.* p. 37). — In America boreali (Terra Nova). — Etiam in Europa boreali.

1151. \* **L. lobulata** Sommerf., Nyl. in *Flora* 1883, p. 105, ubi definitur; *Enum. Lich.* p. 111. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10, 28, 44, 49 et 56) et orientali (Japonia, *Lich. Jap.* p. 37, ubi sporæ definiuntur). — In Africa occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 13). — In America et forsitan in meridionali (Chili, *Physcia parietina* var. *lobulata* Mont., Nyl. *Addit. Fl. chil.* p. 181). — Etiam in Europa.

1152. \*\* **L. sublobulata** Nyl. — *Placodium sublobulatum* Nyl. *Lich. Fueg.* p. 7, ubi definitur. = In America australi (Staten Island).

1153. **L. pertenuescens** Nyl. *Lich. ins. Princip.* p. 3 et *Lich. ins. Guin.* p. 13, ubi definitur. = In Africa occidentali (ins. Principis).

1154. **L. murorum** Ach. — *Lichen murorum* Hoffm. — *Placodium murorum* DC., Nyl. *Lich. Scand.* p. 136 et in *Flora* 1883, p. 106, ubi definitur; *Enum. Lich.* p. 111. = Cosmopolita. — In Africa boreali (Algeria, *Lich. Algér.* p. 311, *Prodr. Lich. Gall.* p. 73 et *Quelq. Lich. Algér.* p. 216; Ægypto. *Lich. Ægypt.* p. 3, ubi sporæ definiuntur) et orientali (ins. Mauriti, ubi viget forma definita in *Lich. exot.* p. 257). — In America meridionali (Peruvia, *Lich. exot.* p. 219; Chili, *Addit. Fl. chil.* p. 182). — Etiam in Europa.



— Var. 1. **obliterata** Nyl. *Lich. Scand.* p. 136, ubi definitur. — *Lichen obliteratus*. = In America meridionali (Nova Granata, *Flora* 1864, p. 619, et *Prodr. Fl. N. Gran. Addit.* p. 540). — Etiam in Europa.

— Var. 2. **miniata** Nyl. *Lich. Scand.* p. 136 et in *Flora* 1883, p. 106, ubi definitur. — *Lichen miniatus* Hoffm. = In America meridionali (Chili, *Addit. Fl. chil.* p. 154). — Etiam in Europa. Illæ ambæ varietates pertinent potissime ad *L. lobulatam* Sommerf., supra n° 1151, Nyl. in litt.

— Var. 3. **evanescens** Nyl. *Enum. Lich.* p. 111. = In America australi (ins. Maclovianis).

1155. **Lecanora kobeana** Nyl. *Lich. Jap.* p. 36, ubi definitur. = In Asia orientali (Japonia).

1156. **L. lepidoplaca** Nyl. apud Cromb. *Challeng. Expedit.* p. 212, ubi definitur. = In Africa occidentali (promontorio Viridi).

1157. **L. cirrochroa** Nyl. — *Placodium cirrochroum* Hepp, Nyl. *Lich. Scand.* p. 137, ubi definitur. = In America tropica (Bolivia, *Lich. And. Boliv.* p. 377). — Etiam in Europa.

1158. **L. chrysochroa** Nyl. — *Psora chrysochroa* Mont. — *Placodium chrysochroum* Nyl. *Lich. exot.* p. 219; *Enum. Lich.* p. 111. = In America tropica (Bolivia, *Lich. And. Boliv.* p. 377; Peruvia).

1159. **L. callopisma** Ach. *Lichenogr. univ.* p. 437. — *Placodium callopismum* Nyl. *Lich. Scand.* p. 137, *Lich. Ægypt.* p. 3, in *Flora* 1876, p. 282, et 1883 p. 107, ubi definitur; *Enum. Lich.* p. 111. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 63). — In Africa boreali (Ægypto). — Etiam in Europa.

1160. **L. leptopisma** Nyl. *Lich. Jap.* p. 37, ubi definitur. = In Asia orientali (Japonia).

1161. **L. teicholyta** Ach., Nyl. in *Bull. Soc. bot. Fr.* 1866, p. 366. — *Placodium teicholytum* DC., Nyl. *Prodr. Lich. Gall.* p. 73, ubi definitur; *Enum. Lich.* p. 111. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216). — Etiam in Europa.

1162. **L. Lallavei** Nyl. *Prodr. Lich. Gall.* p. 77, ubi definitur; *Enum. Lich.* p. 112. — *Lecidea Lallavei* Clem. — *Lecanora erythrocarpia* (Pers.) et var. *Lallavei* Nyl. *Lich. Algér.* p. 311. = In Africa boreali (Algeria). — Etiam in Europa.

1163. **L. eugyra** Nyl. — *Placodium eugyrum* Tuck., Nyl. *Enum. Lich. Supplém.* p. 336. « *Thallus* (†) rufescens vel obscure fulvo-rufescens, sat tenuis, ambitu radiosus, flavidus et obsolete albo-suffusus. Apothecia læte fulvo-rufa, plana vel epithecio concaviusculo, mediocria vel minora; sporæ ellipsoideæ, placodiomorphæ, longit. 0,011-12, crass. 0,006 milim. Affinis *L. callopismæ* Ach., sed colore diverso specie distinguenda videtur. » = In America septentrionali (Texas).

1164. **L. rugosula** Nyl. — *Placodium rugosulum* Nyl. *Addit. Fl. chil.* p. 153, ubi definitur (sporæ placodinæ vel uniseptatæ); *Enum. Lich.* p. 111. = In America meridionali (Chili). — In Oceania (Tasmania).

#### B. — Sporæ uniseptatæ.

1165. **L. scorigena** Nyl. *Lich. Angol.* p. 510 et *Syn.* II, tab. IX, fig. 44; *Enum. Lich.* p. 111. — *Evernia scorigena* Mont. = In Africa occidentali (ins. Canariis et Angola).

1166. **L. coralloides** Nyl. *Lich. Angol.* p. 510, ubi definitur. — *Placodium coralloides* Tuck.; thallus K +. = In America septentrionali (California).

1167. **L. cladodes** Nyl. *Lich. N. Zeland.* 1888, p. 58 in notula. — *Placodium cladodes* Tuck. *Syn. North Americ. Lich.* I, p. 169. = In America septentrionali (Rocky Mountains).

(†) Omnes Lichenum definitiones, quæ in hoc opere reperiuntur, cel. Nylander tribuendæ sunt.

1168. **Lecanora Etesiae** Nyl. in *Flora* 1885, p. 439, et *Lich. Fr. Behr.* p. 53, ubi definitur, et p. 40. = In Asia boreali (Behring ins.).

C. — *Sporæ simplices.*

1169. **L. fulgens** Ach. *Lichenogr. univ.* p. 437. — *Lichen fulgens* Sw. — *Placodium fulgens* Nyl. *Lich. Scand.* p. 137 et *Lich. Ægypt.* p. 3, ubi definitur; *Enum. Lich.* p. 111. = In Africa boreali (Algeria, *Lich. Algér.* p. 311, *Prodr. Lich. Gall.* p. 74 et *Flora* 1878, p. 340; Ægypto). — In Oceania (Nova Zelandia?, *Lich. N. Zeland.* 1888, p. 58). — Etiam in Europa.

1170. \* **L. bracteata** Nyl. in *Flora* 1882, p. 534. — *Psora bracteata* Hoffm. — *Lecanora fulgens* var. *bracteata* Ach. — *Placodium bracteatum* Nyl. *Lich. Scand.* p. 137, ubi definitur; *Placodium fulgens* var. *bracteatum* Nyl. *Enum. Lich.* p. 111. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 20). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 58, ubi sporæ definiuntur). — Etiam in Europa.

1171. **L. Drummondii** Nyl. — *Placodium Drummondii* Nyl. *Enum. Lich.* p. 111. — *Sticta Drummondii* Tayl. Est vix nisi varietas saxicola *L. fulgentis* Ach. = In Oceania (Australia).

1172. **L. aurea** Nyl. *Lich. N. Zeland.* 1888, p. 58. — *Parmelia aurea* A. Rich., Bab. *Lich. of N. Zeal.* p. 27. = In Oceania (Nova Zelandia).

1173. **L. constipans** Nyl. *Lich. N. Zeland.* 1888, p. 58 in notula, ubi definitur. = In America septentrionali (California).

2. — Stirps *Lecanoræ cerinæ* Ach.

Spermatia recta arthrosterigmatibus infixæ.

A. — *Sporæ placodiomorphæ vel raro uni-septatæ aut simplices.*

1174. **L. cinnabarina** Ach., Nyl. in *Flora* 1864, p. 266 et apud Cromb. *Lich. capens.* p. 171, ubi definitur. — *Placodium murorum* var. *cinnabarinum* Nyl. *Addit. Fl. chil.* p. 154, ubi definitur; *Enum. Lich.* p. 111. — *Placodium capense* Mass.; illius thallus est sæpe fere placodioideum. = In Africa meridionali (promont. Bonæ Spei; Portu Natali, *Lich. Port Natal* p. 6) et occidentali (Angola, *Lich. Angol.* p. 511, ubi sporæ definiuntur). — In America tropica (India occidentali) et meridionali (Chili). — In Oceania (Australia; ins. Nukahiva, *Lich. exot.* p. 241). — Etiam in Europa (Gallia meridionali, *Prodr. Lich. Gall.* p. 74 et Italia).

— Var. **perminiata** Nyl. apud Cromb. *Lich. capens.* p. 171, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1175. **L. cinnabariza** Nyl. apud Cromb. *Lich. capens.* p. 172, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1176. **L. subfulgescens** Nyl. in *Flora* 1876, p. 510, ubi definitur. = In America tropica (ins. Cuba).

1177. **L. holochracea** Nyl. apud Cromb. *Lich. capens.* p. 171. = In Asia (India; Himalaya boreo-occidentali).

1178. **L. citrina** Ach. — *Placodium citrinum* Flot., Nyl. *Lich. Scand.* p. 136, ubi definitur; *P. murorum* var. *citrinum* Hoffm., Nyl. *Addit. Fl. chil.* p. 154, ubi etiam definitur; *Enum. Lich.* p. 111. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 63). — In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216; Ægypto, *Lich. Ægypt.* p. 3). — In America utraque (Mexico, *Flora* 1858, p. 380; Chili). — Etiam in Europa.

1179. **Lecanora interfulgens** Nyl. in *Flora* 1878, p. 340, ubi definitur. = In Africa boreali (Algeria).

1180. **L. aurantiaca** Nyl. *Lich. Scand.* p. 142 et *Lich. Lapp. orient.* p. 127, ubi definitur; *Enum. Lich.* p. 112. — *Lichen aurantiacus* Lightf.; thallus licet flavus K parum vel vix purpurascit. = In Asia orientali (Japonia, *Lich. Jap.* p. 37; China, Nyl. et Cromb. *Lich. East. Asia* p. 63) et meridionali (Calcutta, ubi invenitur forma cujus sporæ definiuntur in *Flora* 1867, p. 4). — In Africa boreali (Algeria, *Lich. Algér.* p. 312, *Prodr. Lich. Gall.* p. 76 et *Flora* 1878, p. 344). — In America meridionali (Nova Granata, *Prodr. Fl. N. Gran.* p. 28 in utraque edit.; Peruvia, *Lich. exot.* p. 219, *Lecidea disjuncta* Fée). — In Oceania (ins. Sandwich, *Lich. exot.* p. 241; Nova Caledonia, *Flora* 1867, p. 195, *Syn. Lich. N. Caled.* p. 23, in quo definitur forma peculiaris); Nova Zelandia, *Lich. N. Zeland.* 1888, p. 59, ubi sporæ definiuntur). — Etiam in Europa.

— **F. fulva** (Schwein.) Nyl. *Lich. Port Natal* p. 6. = In Africa meridionali (Portu Natali).

1181. \* **L. erythrella** Nyl., Nyl. et Cromb. *Lich. East. Asia* pp. 63 et 67; *L. aurantiaca* var. *erythrella* Nyl. *Lich. Algér.* p. 325 et *Lich. Scand.* p. 142, ubi definitur; *Enum. Lich.* p. 112. — *Parmelia erythrella* Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 37, ubi sporæ definiuntur; China). — In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 76; Ægypto, *Lich. Ægypt.* p. 4). — In America meridionali (Nova Granata, *Flora* 1864, p. 619, et *Prodr. Fl. N. Gran. Addit.* p. 540, ubi sporæ definiuntur). — In Oceania (Nova Zelandia, *Flora* 1865, p. 338, *Lich. N. Zeland.* 1861, p. 250, et 1888, p. 59, et in duobus posterioribus locis sporæ definiuntur). — Etiam in Europa.

1182. **L. ochracea** Nyl. *Enum. Lich.* p. 112; *L. aurantiaca* var. *ochracea* Nyl. *Lich. Algér.* p. 325 et *Prodr. Lich. Gall.* p. 76, ubi definitur. — *Lecidea ochracea* Schær.; = In Africa boreali (Algeria). — In America tropica (India occidentali). — Etiam in Europa (Gallia meridionali).

1183. **L. leucerythrella** Nyl. *Lich. Jap.* p. 38, ubi definitur. = In Asia orientali (Japonia).

— Var. **cæσιο-rufescens** Nyl. *Lich. Jap.* p. 39, ubi definitur. = In eadem regione.

1184. **L. fulgescens** Nyl. *Lich. Sti Pauli* p. 6 et in *Flora* 1886, p. 320, ubi definitur. = In Africa orientali antarctica (ins. Sti Pauli).

1185. **L. subunicolor** Nyl. apud Cromb. *Lich. capens.* p. 172 et *Kerguel. land* p. 184, ubi definitur. = In Africa australi (promont. Bonæ Spei et ins. Kerguelen).

1186. **L. aurantiella** Nyl. apud Cromb. *Ins. Rodrig.*, p. 437, ubi definitur. = In Africa orientali (ins. Rodriguez).

1187. **L. erythrantha** Tuck., Nyl. *Prodr. Fl. N. Gran.* p. 28 in utraque edit.; ubi definitur. = In America tropica (Nova Granata).

1188. **L. crocantha** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).

1189. **L. conjungens** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).

1190. **L. russeola** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 28 et ed. 2<sup>a</sup> p. 29, ubi definitur. = In America tropica (Nova Granata).

1191. **L. cerina** Ach., Nyl. *Lich. Scand.* p. 144, ubi definitur; *Enum. Lich.* p. 112. — *Lichen cerinus* Ehrh. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 10). — In Africa boreali (Algeria, *Lich. Algér.* p. 312, *Prodr. Lich. Gall.* p. 75, et *Flora* 1878, p. 344). — In America meridionali (Brasilia, *Flora* 1869, p. 119). — In Oceania (Australia, *Flora* 1864, p. 269). — Etiam in Europa.

1192. **L. Stillicidiorum** Nyl.; *L. cerina* var. *Stillicidiorum* Nyl. *Lich. Scand.* p. 144,



ubi definitur; *Enum. Lich.* p. 112. — *Lichen Stillicidiorum* Oed. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 8, 20, 44 et 54). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63). — Etiam in Europa.

— **F. chloroleuca** (Sm.) Nyl. *Lich. Fr. Behr.* p. 63. = In America boreali (Port-Clarence).

1193. \*\* **Lecanora hæmatites** Chaubard, Nyl. *Prodr. Lich. Gall.* p. 75, ubi definitur; *Enum. Lich.* p. 112. = In Africa boreali (Algeria, *Flora* 1878, p. 344).

1194. **L. cerinella** Nyl. in *Flora* 1878, p. 344, ubi sporæ definiuntur; (sporis 8-16<sup>nis</sup>). = In Africa boreali (Algeria). — Etiam in Europa (ins. Corsica).

1195. **L. carnella** Nyl. *Lich. Fueg.* p. 7, ubi definitur; thallus K +. = In America australia (Fuegia).

1196. **L. benguellensis** Nyl. *Lich. Angol.* p. 511, ubi definitur. = In Africa occidentali (Angola).

1197. **L. Encephalarti** Krempelh., Nyl. in *Flora* 1867, p. 4, ubi definitur. = In Asia meridionali (Calcutta).

1198. **L. glauco-fuscula** Nyl. apud Cromb. *Ins. Rodrig.* p. 437, ubi definitur; epithecium K +. = In Africa orientali (ins. Rodriguez).

1199. **L. aphanotripta** Nyl. *Lich. Jap.* p. 104, ubi definitur. = In America tropica (Mexico).

1200. **L. pyracea** Nyl. *Lich. Scand.* p. 145, ubi definitur; *L. cerina* var. *biatorina* Nyl. *Enum. Lich.* p. 112. — *Parmelia cerina* var. *pyracea* Ach. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 8) et orientali (Japonia, *Lich. Jap.* p. 37). — In America utraque (Port-Clarence, *Lich. Fr. Behr.* pp. 63 ac 68 in notula et 69; *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 29 et ed. 2<sup>a</sup> p. 30, ubi sporæ definiuntur; Bolivia, *Lich. And. Boliv.* p. 377). — In Oceania (Nova Zelandia, *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 251, et 1888, p. 59, ubi sporæ definiuntur; ibi pertinet probabiliter *L. cerina* var. *rupestris* Nyl. *Enum. Lich.* p. 112, collect. Colenso n° 5285). — Etiam in Europa.

— **F. pyrithroma** Nyl.; *L. rupestris* f. *pyrithroma* Ach., Nyl. *Lich. Scand.* p. 145. = In Africa boreali (Ægypto, *Flora* 1876, p. 282, et *Lich. Ægypt.* p. 4) et occidentali (Angola, *Lich. Angol.* p. 51, et in duobus posterioribus locis sporæ definiuntur). — Etiam in Europa.

1201. **L. subpyracea** Nyl. *Lich. N. Zeland.* 1888, p. 59, ubi definitur. = In Oceania (Nova Zelandia).

1202. **L. Jungermanniae** Nyl. *Lich. Fr. Behr.* pp. 8, 20 et 54; *L. fulvo-lutea* Nyl. *Lich. Scand.* p. 146, ubi definitur; *L. fusco-lutea* Nyl. *Enum. Lich.* p. 112. — *Lichen Jungermanniae* Wahlenb. = In Asia boreali (Lawrencebay etc.). — In America boreali (Groenlandia, *Flora* 1862, p. 82). — Etiam in Europa.

1203. **L. cyphelliformis** Cromb., Nyl. apud Cromb. *Challeng. Expedit.* p. 220, ubi definitur. = In Africa australi (ins. Kerguelen).

1204. **L. sinapisperma** DC., Nyl. *Lich. Armoricae et Delphinatus* p. 398 in notula et in *Bull. Soc. bot. France* 1863, p. 262, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 20). — Etiam in Europa.

1205. **L. tetraspora** Nyl. *Lich. Armor. et Delphin.* p. 397 et in *Bull. Soc. bot. France* 1863, p. 262, ubi definitur; sporæ 4 in thecis. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 20). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 62). — Etiam in Europa.

1206. **L. vitellinula** Nyl. in *Flora* 1863, p. 305, et *Lich. Lapp. orient.* p. 127, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 39, ubi adhuc definitur; China, Nyl. et Cromb. *Lich. East. Asia* p. 63). — Etiam in Europa.

1207. **L. gilvella** Nyl. in *Flora* 1876, p. 282, ubi definitur. = In Africa boreali (Ægypto).

1208. **L. cerodes** Nyl. in litt.; *L. subcerina* Nyl. in *Flora* 1876, p. 382, ubi definitur;

*L. subcerata* Stizenb. *Lichenæa africana* p. 99. Prius horum nominum mutandum erat, utpote jam adhibitum infra n° 1245; posterius autem rejiciendum videtur, quia minus recte hujus speciei indoli congruit; non enim de cera ipsa, sed tantum de hujus substantiæ colore hic agitur. = In Africa boreali (Ægypto).

1209. **Lecanora vitellinella** Nyl. apud Cromb. *Kerguel. land* p. 184, ubi definitur. = In Africa australi (ins. Kerguelen).

1210. **L. pyropœcila** Nyl. apud Cromb. *Lich. capens.* p. 172, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1211. **L. irrubata** Nyl. *Lich. Fr. Behr.* p. 69. — *Lecidea rupestris* var. *irrubata* Ach., Nyl. *Lich. Scand.* p. 147, ubi definitur. = In America boreali (Port-Clarence). — Etiam in Europa.

— f. **terricola** Nyl.; *L. irrubata* f. *terrestris* Nyl. *Lich. Fr. Behr.* p. 20, ubi definitur pr. p. — *Lecidea rupestris* f. *terricola* Anzi *Catal. Lich. Sondr.* p. 78. = In Asia boreali (Konyambay). — Etiam in Europa.

1212. **L. calva** Nyl. *Lich. Scand.* p. 147, ubi definitur. — *Lichen calvus* Dicks. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 28). — Etiam in Europa.

1213. **L. globulificans** Nyl. in *Flora* 1884, p. 212, et *Lich. Fr. Behr.* p. 28, ubi definitur. = In Asia boreali (Konyambay).

1214. **L. phlogina** Nyl. *Prodr. Lich. Gall.* p. 78, ubi definitur; *Enum. Lich.* p. 112. — *Parmelia citrina* var. *phlogina* Ach. — *Parmelia parietina* var. *citrinella* Fr., Nyl. *Lich. Algér.* p. 310; apothecia K purpurascunt, *Flora* 1866, p. 201. = In Africa boreali (Algeria). — Etiam in Europa.

1215. **L. variabilis** Ach., Nyl. in *Flora* 1868, p. 164. — *Lichen variabilis* Pers. — *Placodium variabile* Nyl. *Lich. Scand.* p. 138, ubi definitur; *Pl. circinatum* var. *variabile* Nyl. *Enum. Lich.* p. 111. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216). — Etiam in Europa.

— Var. **percæna** Nyl. — *Lecidea percæna* Ach. — *Placodium variabile* var. *percænum* Nyl. *Lich. Scand.* p. 138. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216). — Etiam in Europa.

1216. **L. ferruginea** Nyl. *Lich. Scand.* p. 143, ubi definitur; *Enum. Lich.* p. 112. — *Lichen ferrugineus* Huds. = In Africa boreali (Algeria, *Lich. Algér.* p. 313, *Lecidea ferruginea* Schær., Nyl. *Prodr. Lich. Gall.* p. 76 et *Flora* 1878, p. 345), orientali (ins. Borbonia, *Lich. exot.* p. 257) et occidentali (ins. Madera, *Lich. Madère* p. 189). — Etiam in Europa.

— Var. **nigricans** Tuck., Nyl. *Lich. Scand.* p. 143, ubi definitur; in *Flora* 1880, p. 388 in notula, non *Lich. Lapp. orient.* p. 128. = In America boreali (Nova Anglia).

1217. \* **L. refecta** Nyl. in *Flora* 1880, p. 388 in notula; *L. ferruginea* Nyl. *Syn. Lich. N. Caled.* p. 24, ubi definitur; in *Flora* 1867, p. 195 et *Exposit. Lich. N. Caled.* p. 44. = In Oceania (Nova Caledonia).

1218. **L. ferruginella** Nyl. *Lich. Ægypt.* p. 4, ubi definitur. = In Africa boreali (Ægypto).

1219. **L. commutans** Nyl. *Lich. Jap.* p. 38, ubi definitur. = In Asia orientali (Japonia).

1220. **L. phæantha** Nyl. *Syn. Lich. N. Caled.* p. 24, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

1221. **L. subferruginea** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 28 et ed. 2<sup>a</sup> p. 29, ubi definitur. = In America tropica (Nova Granata).

1222. **L. poliotera** Nyl. in *Flora* 1869, p. 70, ubi definitur; thallus K +. = In Asia meridionali (Bengalia).

1223. **L. albido-fusca** Nyl. *Lich. ins. Princip.* p. 2 et *Lich. ins. Guin.* p. 14, ubi definitur; thallus K flavet. = In Africa occidentali (ins. Principis).

1224. **Lecanora albido-pallens** Nyl. *Lich. ins. Guin.* p. 14, ubi definitur; thallus K flavet. = In Africa occidentali (ins. Principis et ins. San Thomé).
1225. **L. præmicans** Nyl. apud Cromb. *Lich. capens.* p. 172, ubi definitur. = In America meridionali (promont. Bonæ Spei).
1226. **L. lamprocheila** Nyl. apud Lamy *Catal. Lich. Mont-Dore* p. 61; *Patellaria lamprocheila* DC. = In Asia orientali (Japonia). — Etiam in Europa.
1227. **L. cæsio-rufa** Nyl. in *Flora* 1880, p. 388 in notula; *L. ferruginea* f. *cæsio-rufa* Nyl. *Lich. Lapp. orient.* p. 128, ubi definitur. — *Lecidea cæsio-rufa* Ach. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 5, 8, 16, 28, 44, ubi sporæ definiuntur, et p. 52) et orientali (Japonia, *Lich. Jap.* p. 38). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 86). — Etiam in Europa.
1228. \* **L. cinnamomea** Th. Fr., Nyl. *Lich. Fr. Behr.* p. 52; *L. ferruginea* var. *cinnamomea* Nyl. *Lich. Lapp. orient.* p. 127, ubi definitur; *Flora* 1880, p. 388 in notula. = In Asia boreali (Behring ins.). — Etiam in Europa boreali.
1229. **L. cæsio-rufella** Nyl. in *Flora* 1885, p. 442, et *Lich. Fr. Behr.* p. 54, ubi definitur. = In Asia boreali (Behring ins.). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 63 et 68 in notula).
1230. **L. phæocarpodes** Nyl. *Lich. Jap.* p. 37, ubi definitur; thallus K —. = In Asia orientali (Japonia).
1231. **L. spodioplaça** Nyl. *Lich. Jap.* p. 38, ubi definitur. = In Asia orientali (Japonia).
1232. **L. leptozona** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 52, ubi definitur. = In Asia orientali (Malacca).
1233. **L. diphasia** Nyl. *Enum. Lich. Supplém.* p. 336. — *Placodium diphasium* Tuck. *Syn. North Americ. Lich.* I, p. 178. = In America septentrionali (Texas).
1234. **L. camptidia** Tuck., Nyl. *Prodr. Fl. N. Gran.* p. 29 in utraque edit., ubi definitur. = In America boreali (e Pennsylvania usque in Texas).
1235. **L. pallidior** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).
1236. **L. carneo-fusca** Nyl. apud Cromb. *Ins. Rodrig.* p. 438, ubi definitur. = In Africa orientali (ins. Rodriguez).
1237. **L. tabidella** Nyl. *Lich. Jap.* p. 39, ubi definitur; thallus K —. = In Asia orientali (Japonia).
1238. **L. phæa** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 30, ubi definitur. = In America tropica (ins. Cuba).
1239. **L. diducta** Nyl. in *Flora* 1864, p. 609 in notula, et *Prodr. Fl. N. Gran. Addit.* p. 540, ubi definitur. = In America tropica (Nova Granata).  
— **F. albicans** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 541, ubi definitur. Hæc forma ægre distinguitur a *Lecanora polypæna* Nyl., *Lecidea polypæna* Ach., ex Hispania. = In America tropica (Nova Granata).
1240. **L. floridana** Tuck., Nyl. in *Flora* 1869 p. 419, et *Syn. Lich. N. Caled.* p. 25, ubi definitur. = In America tropica (Brasilia).
1241. **L. melantha** Nyl. *Syn. Lich. N. Caled.* p. 24, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).
1242. **L. diplacia** Ach., Nyl. in *Flora* 1880, p. 127, ubi definitur. = In America tropica (India occidentali).
1243. **L. subsequestra** Nyl. in *Flora* 1880, p. 127, ubi definitur. = In America tropica (ins. S<sup>ti</sup> Thomæ).



B. — Sporæ 8<sup>nae</sup>, 3-4 loculares.

1244. **Lecanora Brebissonii** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 29 et ed. 2<sup>a</sup> p. 30, *Lich. And. Boliv.* p. 377 et *Syn.* II, tab. IX, fig. 45, ubi definitur; *Enum. Lich.* p. 412. — *Lecidea Brebissonii* Fée. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 219; Bolivia). — In Oceania (ins. Sandwich, *Lich. exot.* p. 244).

1245. **L. erythroleuca** Nyl. *Prodr. Fl. N. Gran.* locis citat. et *Lich. And. Boliv.* p. 378 in notula, ubi definitur. = In America meridionali (Nova Granata).

— Var. **subcerina** Nyl. in *Flora* 1869, p. 419, ubi definitur. = In America tropica (Brasilia).

1246. \* **L. erythroleucoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 29 et ed. 2<sup>a</sup> p. 30, ubi definitur. = In America tropica (Nova Granata).

1247. **L. quadrilocularis** Nyl. *Lich. And. Boliv.* p. 378 in notula; *Lecidea quadrilocularis* Nyl. *Lich. exot.* p. 224, ubi definitur; *Enum. Lich.* p. 423. = In America meridionali (Bolivia).

1248. **L. homologa** Nyl. *Lich. N. Zeland.* 1861, p. 251, et 1888, p. 59, ubi definitur; in *Flora* 1865, p. 337 in notula; thallus et epithecium K —. = In Oceania (Nova Zelandia).

C. — Sporæ 2-8<sup>nae</sup>, 4-10 loculares.

1249. **L. domingensis** Ach., Nyl. *Lich. Port Natal* p. 6, *Lich. Antill.* p. 41 et *Lich. Fueg.* p. 8, ubi sporæ definiuntur; *Prodr. Fl. N. Gran. Addit.* p. 558 in notula; *Enum. Lich.* p. 423, *Lecidea domingensis* Nyl.; thallus K purpurascit. = In Asia meridionali (Bengalia, *Flora* 1869, p. 70). — In Africa meridionali (Portu Natali). — In America tropica (ins. Guadalupa) et meridionali (Argentina).

— **F. inexplicata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 558 in notula. — *Lecidea domingensis* f. *inexplicata* Nyl. *ibid.* ed. 1<sup>a</sup> p. 48 et ed. 2<sup>a</sup> p. 67, ubi definitur. = In America tropica (Nova Granata).

1250. \* **L. flavidula** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 68, ubi definitur. — *Lecidea flavidula* Tuck. = In America tropica (ins. Cuba).

1251. \*\* **L. leprolyta** Nyl. in *Flora* 1869, p. 70, ubi definitur. = In Asia meridionali (Bengalia).

1252. \*\*\* **L. flavo-crocea** Nyl. *Lich. Port Natal* p. 6, ubi definitur. — *Lecidea flavo-crocea* Nyl. *Enum. Lich.* p. 423. = In Africa australi (promont. Bonæ Spei).

1253. **L. aureola** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 68, ubi definitur. — *Lecidea aureola* Tuck. = In America tropica (ins. Cuba).

3. — Stirps *Lecanoræ diphyis* Nyl.

Sporæ 8<sup>nae</sup> placodiomorphæ; spermata in typo et ibi in *L. propiore* et *L. diphyella* arcuata et sterigmatibus infixa; in *L. diphyode* autem et in ejus affinibus hic enumeratis, recta, arthrosterigmatibus munita.

1254. **L. propior** Nyl. *Lich. N. Zeland.* 1888, p. 60 et fig. 45, ubi definitur; epithecium K —. = In Oceania (Nova Zelandia).

1255. **L. diphyella** Nyl. apud Cromb. *Kerguel. land* p. 184, ubi definitur; hypothecium et perithecium K purpurascenti-dissolvuntur. = In Africa australi (ins. Kerguelen).

1256. **L. Kurzii** Nyl. *Lich. Andam.* p. 6, ubi definitur; thallus K —. — *Pyrenodesmia Kurzii* Krempelth. = In Asia meridionali (ins. Andaman).

1257. **Lecanora apostatica** Nyl. apud Cromb. *Ins. Rodrig.* p. 437, ubi definitur; thallus K flavet. = In Africa orientali (ins. Rodriguez).

1258. \* **L. obliquans** Nyl. apud Cromb. *Ins. Rodrig.* p. 438, ubi definitur. = In Africa orientali (ins. Rodriguez).

#### 4. — *Candelaria* Nyl.

Nec thallus nec apothecia Lichenum hujus stirpis, licet coloris flavi, reactionem acidi chrysophanicum purpurascens K ostendunt. Nyl. *Lich. Lapp. orient.* p. 130 in notula.

Sterigmata longa et simplicia; spermata recta. Thecae polysporae vel sporae 8<sup>ae</sup>; haec incolores, simplices vel 1-septatae.

1259. **L. crenata** Nyl. *Lich. Lapp. orient.* p. 130, ubi definitur; *L. crenulata* Nyl. *Lich. Scand.* p. 140, ubi definitur. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 28, 44 et 49). — Etiam in Europa boreali.

1260. **L. placodizans** Nyl. *Lich. Fr. Behr.* pp. 8, 10, 28 et 56; *L. vitellina* var. *placodizans* Nyl. *Lich. Scand.* p. 290, ubi definitur. = In Asia boreali (Lawrencebay, etc.). — Etiam in Europa boreali.

1261. **L. decrenata** Nyl. in *Flora* 1885, p. 443 et *Lich. Fr. Behr.* p. 10, ubi definitur. = In Asia boreali (Lawrencebay).

1262. **L. vitellina** Ach., Nyl. *Lich. Scand.* p. 141 et *Syn.* II, tab. IX, fig. 46 et 47, ubi definitur; *Enum. Lich.* p. 112. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10, 28, 49 et 56) et orientali (Japonia, *Lich. Jap.* p. 39). — In Africa occidentali (Angola, *Lich. Angol.* p. 511). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 377) et australi (ins. Maclovianis, *Lich. exot.* p. 263). — In Oceania (Nova Zelandia, *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 251, atque 1888, p. 60). — Etiam in Europa.

1263. **L. epixantha** Nyl. *Lich. Aegypt.* p. 4 et in *Flora* 1876, p. 282, ubi definitur; *Lich. Scand.* p. 141; *Lecidea epixantha* Ach. = In Africa boreali (Algeria, *Flora* 1878, p. 345; Aegypto). — In America australi (Fuegia, *Lich. Fueg.* p. 7). — Etiam in Europa.

1264. **L. Spraguei** Tuck., Nyl. *Lich. Jap.* p. 105, ubi definitur. = In America tropica (Colorado).

1265. **L. laciniosa** Nyl. in *Flora* 1881, p. 454. — *Parmelia laciniosa* Duf. — *Physcia candelaria* Nyl. *Syn.* I, p. 412, ubi definitur; *Enum. Lich.* p. 106. — *Lecanora candelaria* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 539 in in notula. — *Lichen concolor* Dicks. = In Asia orientali (Japonia, *Lich. Jap.* p. 39). — In America boreali. — Etiam in Europa.

— Var. **substellata** Nyl.; *L. substellata* Ach. *Syn. Lich.* p. 192 (in ejusdem auctoris *Lichenogr. univers.* p. 517 vocatur *substellaris*). — *Physcia candelaria* var. *substellata* Nyl. *Syn.* I, p. 413, ubi definitur. = In America utraque (Nova Granata, *Prodr. Fl. N. Granat.* ed. 1<sup>a</sup> p. 25 et ed. 2<sup>a</sup> p. 24). — Etiam in Europa.

1266. \* **L. fibrosa** Nyl. — *Parmelia fibrosa* Fr. — *Physcia fibrosa* Nyl. *Syn.* I, p. 412, ubi definitur. — *Physcia candelaria* var. *stellata* (Tuck.) Nyl. *Enum. Lich.* p. 106. = In America boreali (Ohio etc.).

1267. **L. callopizodes** Nyl. *Lich. ins. Guin.* p. 45, ubi definitur; Hue *Lich. Yunn.* II, p. 37. = In Asia (China, prov. Yun-nan).

#### 5. — Stirps *Lecanoræ holophææ* Nyl. *Lich. And. Boliv.* p. 377 in notula.

Sporae 8<sup>ae</sup> incolores, 1-septatae; spermata recta arthrosterigmatibus infixa.

1268. **L. holophæa** Nyl. *Lich. Armorice et Delphinatus* p. 408, in *Bull. Soc. Bot. de*

France 1861, p. 755, et *Lich. Pyren.-Orient.* p. 52, ubi definitur. — *Parmelia holophæa* Mont. — *Lecidea sublivida* Nyl. *Enum. Lich. Supplém.* p. 337. = In Africa boreali (Algeria, *Lich. And. Boliv.* p. 367 in notula). — Etiam in Europa.

6. — Stirps *Lecanoræ sophodis* Ach.

Spermatia recta, mediocria arthrosterigmatibus infixa.

A. — *Sporæ fuscæ 1-septatæ.*

1. — *Thallus flavescens vel citrinus.*

1269. **Lecanora oreina** Ach., Nyl. *Lich. Scand.* p. 447 et *Enum. Lich.* p. 415, ubi definitur. Sterigmata simplicia breviuscula. = In America boreali. — Etiam in Europa.

1270. **L. thiomela** Nyl. in *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 232, et 1888, p. 61, ubi definitur; thallus K et CaCl —. = In Oceania (Nova Zelandia).

1271. **L. xanthophæa** Nyl. *Lich. Jap.* p. 41, ubi definitur; thallus flavo-virescens K magis flavens. = In Asia orientali (Japonia). — In America septentrionali (ditione Tennessee, Nyl. in litt.).

2. — *Thallus cinerascens aut fuscescens vel albus.*

1272. **L. nimbosa** Nyl. *Lich. Scand.* p. 448, ubi definitur. — *Parmelia nimbosa* Fr. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 20). — Etiam in Europa boreali.

1273. **L. mniarœa** Ach.; *L. turfacea* var. *mniarœa* Nyl. *Lich. Scand.* p. 451 et *Lich. Lapp. orient.* p. 131, ubi definitur. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 5, 20 et 52). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63). — Etiam in Europa.

— Var. **pachnea** Ach., Nyl. *Lich. Fr. Behr.* p. 63, ubi definitur. = In America boreali (Port-Clarence).

1274. **L. mniarœiza** Nyl. in *Flora* 1870, p. 33, ubi definitur; thallus K † flavet. = In America septentrionali (California). — Etiam in Europa.

1275. **L. turfacea** Nyl. *Lich. Scand.* p. 450 et fig. 5 atque *Lich. Lapp. orient.* p. 131, ubi definitur; *Enum. Lich.* p. 415. — *Lichen turfaceus* Wahlenb. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 8, 20 et 54). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63). — Etiam in Europa.

1276. **L. discolorans** Nyl. in *Flora* 1868, p. 347. — *Lecidea discolor* Hepp *Flecht. europ.* 319 et 320, Nyl. *Flora* 1880, p. 127, ubi hæc inter Lecideas e stirpe *L. spurie* Schær. annumeratur, et apud Hue *Addend. Lichenogr. europ.* p. 219, ubi sporæ definiuntur; Anzi *Langob.* 193; thallus K flavet. = In Asia orientali (Japonia, *Lich. Jap.* p. 39, ubi sporæ denuo definiuntur). — In America tropica (ins. S<sup>ti</sup> Thomæ Antillarum). — Etiam in Europa.

1277. **L. Quintana** Nyl. *Lich. ins. Guin.* p. 24, ubi definitur; thallus K flavet. = In Africa occidentali (ins. Principis).

1278. **L. moziana** Nyl. *Lich. Jap.* p. 40, ubi definitur; thallus K —. = In Asia orientali (Japonia).

1279. **L. sophodes** Ach., Nyl. *Lich. Scand.* p. 448, *Lich. Algér.* p. 325 et *Addit. Fl. chil.* p. 456, ubi definitur; *Enum. Lich.* p. 415; *Flora* 1869, p. 412, thallus K =. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 46) et orientali (Japonia, *Lich. Jap.* p. 40). — In



Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 93) et occidentali (Angola, *Lich. Angol.* p. 511, ubi adhuc definitur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 63 et 68 in notula) et meridionali (Chili). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195, *Lich. N. Caled. Prodr.* p. 283, *Exposit.* p. 44 et *Syn.* p. 25, atque in hoc ultimo loco definitur). — Etiam in Europa.

— F. **ocellata** Nyl. in *Flora* 1866, p. 131, ubi definitur. — *Urceolaria ocellata* Ach., Nyl. *Lich. Scand.* p. 150. = In Oceania (ins. Java).

— Var. 1. **atro-albida** Nyl. *Lich. Port Natal* p. 6, ubi definitur. = In Africa meridionali (Portu Natali).

— Var. 2. **abolescens** Nyl. apud Stizenb. *Lichen. afric.* p. 105. = In Africa occidentali (ins. Madera).

1280. **Lecanora subalbida** Nyl. *Lich. Jap.* p. 40, ubi definitur; thallus K —. = In Asia orientali (Japonia).

1281. **L. exigua** Nyl.; *L. periclea* var. *exigua* Ach.; *L. sophodes* var. *exigua* Nyl. *Lich. Scand.* p. 158, *Lich. Lapp. orient.* p. 131 et *Lich. Ægypt.* p. 4, ubi definitur. = In Africa boreali (Ægypto). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 378). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 61, ubi etiam definitur). — Etiam in Europa.

— F. **læviuscula** Nyl. *Lich. Jap.* p. 40, ubi definitur; thallus K —. = In Asia orientali (Japonia).

1282. **L. milliaria** Nyl. *Lich. Jap.* p. 105, ubi definitur. — *Rinodina milliaria* Tuck. = In America septentrionali (New Bedford).

1283. **L. lævigata** Nyl. *Lich. Fr. Behr.* p. 20; *L. sophodes* var. *lævigata* Ach., Nyl. *Lich. Scand.* p. 148, ubi definitur; *Enum. Lich.* p. 115. = In Asia boreali (Konyambay). — In Africa boreali (Algeria, *Flora* 1878, p. 345, ubi sporæ definiuntur). — Etiam in Europa.

1284. **L. Roboris** Duf.; *L. sophodes* var. *Roboris* Nyl. *Lich. Scand.* p. 149, ubi definitur; *Flora* 1869, p. 412, thallus K +. = In Africa boreali (Algeria, *Flora* 1878, p. 345), meridionali (Portu Natali, *Lich. Port Natal* p. 6) et occidentali (ins. Madera, *Lich. Madère* p. 189). — Etiam in Europa.

1285. **L. intrusa** Nyl. in *Flora* 1867, p. 4, ubi definitur. — *Lecidea intrusa* Krempelh. = In Asia meridionali (Calcutta). — In Oceania (Nova Caledonia, *Syn. Lich. N. Caled.* p. 25, ubi etiam definitur, *Flora* 1867, p. 195).

1286. **L. colobina** Ach. *Lichenogr. univers.* p. 358; *L. sophodes* var. *colobina* Nyl. *Lich. Scand.* p. 149 et in *Flora* 1869, p. 4, ubi definitur; *L. horiza* Flot. = In Asia meridionali (Calcutta). = Etiam in Europa.

1287. **L. colobinoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 30 et ed. 2<sup>a</sup> p. 31, ubi definitur. = In America tropica (Nova Granata).

1288. **L. Ascociscana** Tuck. *Syn. North Americ. Lich.* I, p. 206, Nyl. *Enum. Lich. Supplém.* p. 336. « Thallus minute squamulosus, squamulis adpressis, sæpe concretescentibus, apothecia margine thallino leviter crenulato; paraphyses graciles; sporæ fuscae, 4-septatae, majusculæ, longit. 0,025-32 et crass. 0,011-15 millim. » = In America septentrionali (Nova Anglia, super cortices et saxa).

1289. **L. confragosa** Nyl. in *Flora* 1870, p. 38; *L. sophodes* var. *confragosa* Nyl. *Lich. Scand.* p. 149, ubi definitur. — *Parmelia confragosa* Ach.; thallus K flavet. = In Asia orientali (Japonia, *Lich. Jap.* p. 40, ubi adhuc definitur). — In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216, ubi sporæ definiuntur) et occidentali (ins. Caprarum, *Lich. ins. Princip.* p. 3 et *Lich. ins. Guin.* p. 15). — Etiam in Europa.

1290. **L. infuscata** Nyl. *Addit. Fl. chil.* p. 156, ubi definitur; *Enum. Lich.* p. 115. = In America meridionali (Chili).

1291. **L. miivina** Nyl. *Lich. Scand.* p. 150, ubi definitur; *Enum. Lich.* p. 115. — *Parme-*

*lia milvina* Wahlenb. = In Asia orientali (Japonia, *Lich. Jap.* p. 41). — In Africa orientali antaretica (ins. S<sup>ti</sup> Pauli, *Lich. ins. S<sup>ti</sup> Pauli* p. 6 et *Flora* 1886, p. 320, ubi sporæ definiuntur). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 87). — Etiam in Europa.

— F. **Cacuminum** Th. Fr., Nyl. *Lich. Fr. Behr.* p. 28. = In Asia boreali (Konyambay).

1292. **Lecanora subconfragosa** Nyl. *Lich. Pyren.-Orient.* p. 20, ubi definitur; thallus K —. = In Asia orientali (Japonia, *Lich. Jap.* p. 40, ubi sporæ definiuntur). — Etiam in Europa.

1293. **L. teichophila** Nyl. apud Stizenb. *Lich. helvet.* p. 409; *L. sophodes* var. *teichophila* Nyl. in *Flora* 1863, p. 78 et in *Bull. Soc. bot. Fr.* 1866, p. 367, ubi definitur. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216). — Etiam in Europa.

1294. **L. subsophodes** Nyl. *Enum. Lich.* p. 115. « Thallus pallide fuscescens, tenuissimus vel obsoletus; apothecia fusco-nigra, sat parva, margine thallino sordide pallido crenulato; sporæ fuscae, 1-septatae, majusculæ, longit. 0,032-38 et crass. 0,013-22 millim.; paraphyses graciles. Gelatina hymenialis iodo intensive cœrulescens. Specie distincta a *L. sophode* Ach. margine thallino apotheciorum crenulato et sporis majoribus. » = In America arctica, super corticem, ex herb. Hooker (Franklin).

1295. **L. erysiphæa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 30 et ed. 2<sup>a</sup> p. 31, ubi definitur. = In America tropica (Nova Granata).

1296. **L. peloleuca** Nyl. in *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 251, et 1888, p. 61, ubi definitur. = In Oceania (Nova Zelandia).

1297. **L. endochrysodes** Nyl. *Lich. Fueg.* p. 8 et apud Cromb. *Falkl. isl.* p. 232, ubi definitur; medulla croceo-lutescens K purpurascit. = In America australi (Fuegia).

1298. **L. subanceps** Nyl. *Lich. ins. Princip.* p. 3 et *Lich. ins. Guin.* p. 15, ubi definitur; thallus K —. = In Africa occidentali (ins. Caprarum).

1299. **L. æquata** Ach., Nyl. in *Flora* 1884, p. 392. — *Lecidea æquata* Nyl. in *Flora* 1868, p. 347; *Lecidea stigmatea* Ach.; *Lecidea disciformis* var. *stigmatea* Nyl. *Lich. Algér.* p. 331 et *Prodr. Lich. Gall.* p. 141, ubi definitur; *Enum. Lich.* p. 126. = In Africa boreali (Algeria). — In Oceania (Australia). — Etiam in Europa.

1300. **L. æqualis** Nyl. — *Lecidea æqualis* Nyl. in *Flora* 1869, p. 70, ubi definitur; thallus K flavescit. = In Asia meridionali (Bengalia).

1301. **L. Bischoffii** Nyl. in *Flora* 1878, pp. 340 et 342. — *Psora Bischoffii* Hepp. = In Africa boreali (Algeria). — Etiam in Europa.

1302. **L. confragosula** Nyl. apud Cromb. *Lich. capens.* p. 172, ubi definitur; thallus K —. = In Africa meridionali (promont. Bonæ Spei).

1303. **L. præfinita** Nyl. *Lich. ins. Princip.* p. 3 et *Lich. ins. Guin.* p. 15, ubi definitur; thallus K —. = In Africa occidentali (ins. Principis).

1304. **L. compensata** Nyl. *Lich. Jap.* p. 41, ubi definitur; thallus K =, CaCl =. = In Asia orientali (Japonia).

#### B. — Sporæ fuscae 1-septatae.

1305. **L. pyreniospora** Nyl. *Lich. Scand.* p. 251 et fig. 6, ubi definitur. = In Europa.

— F. **paupercula** Nyl. *Lich. N. Zeland.* 1888, p. 62. = In Oceania (Nova Zelandia).

1306. **L. diplinthia** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 30, ed. 2<sup>a</sup> p. 31 et *Addit.* p. 541, ubi definitur. = In America tropica (Nova Granata). — Etiam in Europa (in ins. Sargia, prope Guernesey, adest f. *terrestris* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 541).

1207. **L. homobola** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 541 et in *Flora* 1868, p. 347, ubi definitur. = In America tropica (Nova Granata).

7. — Stirps *Lecanoræ disparatæ* Nyl.

Sporæ 8<sup>næ</sup> incolores 4-septatæ; spermatia recta; arthrosterigmata brevi-articulata.

1308. **Lecanora disceptans** Nyl. in *Flora* 1884, p. 212, atque *Lich. Fr. Behr.* pp. 28 et 69, ubi definitur. = In Asia boreali (Konyambay). — In America boreali (Port-Clarence).

1309. **L. glauco-livescens** Nyl. apud Cromb. *Lich. capens.* p. 173, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1310. **L. elæophæa** Nyl. apud. Cromb. *Lich. capens.* p. 173, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

8. — Stirps *Lecanoræ badiæ* Ach.

Sporæ incolores simplices; spermatia bacillaria arthrosterigmatibus, articulis sæpe 4-6, infixa. Nyl. *Lich. Pyren.-Orient.* p. 10.

A. — Sporæ 8<sup>næ</sup> in thecis.

1311. **L. badia** Ach., Nyl. *Lich. Scand.* p. 170, ubi definitur; *Enum. Lich.* p. 115. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 57). — In America tropica (Peruvia, *Lich. exot.* p. 220). — Etiam in Europa.

— Var. 1. **cinerascens** Nyl. *Lich. Scand.* p. 170, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 29). — Etiam in Europa.

— Var. 2. **fusco-brunnea** Nyl. *Addit. Fl. chil.* p. 156, ubi definitur. = In America meridionali (Chili).

1312. **L. biatoriza** Nyl. *Lich. And. Boliv.* p. 378, ubi definitur. = In America tropica (Bolivia).

1313. **L. margarodes** Nyl. in *Flora* 1864, p. 265, ubi definitur. — *Zeora margarodes* Koerb. = In Oceania (Australia).

1314. **L. psaromela** Nyl. apud Cromb. *Lich. capens.* p. 174, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

B. — *Thecæ polysporæ.*

1315. **L. multifera** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31 et tab. I, fig. 6, atque ed. 2<sup>a</sup> p. 34 necnon *Adlit.* p. 545, ubi definitur; *L. scrupulosa* var. *microspora* Nyl. *Enum. Lich.* p. 114; thallus K —. = In America tropica (Nova Granata; Brasilia, *Flora* 1869, p. 120, ubi sporæ cœcūniuntur).

9. — *Placopsis* Nyl.

Hoc subgenus definitur in *Lich. And. Boliv.* p. 376 Sporæ 8<sup>næ</sup> simplices; sterigmata simplicia; spermatia arcuata vel subrecta.

1316. **L. gelida** Ach. — *Lichen gelidus* L. — *Squamaria gelida* Nyl. *Lich. Scand.* p. 134 et *Syn.* II, tab. IX, fig. 39, ubi definitur; *Enum. Lich.* p. 111, et *Flora* 1861, p. 718; thallus CaCl + erythrinosus. = In Asia orientali (Japonia, *Lich. Jap.* p. 42). — In America utraque (Alaska, *Lich. Fr. Behr.* p. 86; Bolivia, *Lich. And. Boliv.* p. 376; Chili, *Addit. Fl. chil.* p. 182; Fuegia, *Lich. Fueg.* p. 8). — In Oceania (Nova Zelandia, *Flora* 1863, p. 337, *Lich. N. Zeland.* 1861, p. 250, et 1888, p. 57, et in hoc posteriore loco definitur). — Etiam in Europa.



— **F. lateritia** Nyl. apud Cromb. *Kerguel. land* p. 184, ubi definitur. — *Squamaria lateritia* Nyl. *Enum. Lich.* p. 111 et *Flora* 1861, p. 718. = In Africa australi (ins. Kerguelen).

1317. **Lecanora subgelida** Nyl. *Lich. Campb.* p. 89 et *Lich. N. Zeland.* 1888, p. 57, ubi definitur; thallus CaCl erythrinus. = In Oceania (ins. Campbell).

1318. **L. hiulca** Nyl. *Lich. N. Zeland.* 1861, p. 251 in notula. — *Squamaria hiulca* Nyl. *Addit. Fl. chil.* p. 153, ubi definitur; *Enum. Lich.* et *Flora* 1861, locis citat. = In America meridionali (Chili).

1319. **L. rhodocarpa** Nyl. *Lich. N. Zeland.* 1861, p. 251. — *Squamaria rhodocarpa* Nyl. *Lich. And. Boliv.* p. 376, ubi definitur; thallus CaCl +. = In America meridionali (Bolivia). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 56, ubi denuo definitur).

1320. **L. rhodomma** Nyl. *Lich. N. Zeland.* 1888, p. 56, ubi definitur. = In Oceania (Nova Zelandia).

— Var. **argillacea** Nyl. apud Stizenb. *Neuseeland. Lich.* in *Flora* 1889, p. 366; Lojka *Lich. univ.* n° 127. — *Lecanora argillacea* Knight. = In Oceania (Nova Zelandia).

1321. **L. perrugosa** Nyl. in *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, pp. 250 et 251 in notula, necnon 1888, p. 57, ubi definitur; Lojka *Lich. univ.* n° 126; thallus CaCl +. = In America australi (Fuegia, *Lich. Fueg.* p. 8). — In Oceania (Nova Zelandia).

1322. **L. albida** Nyl. *Lich. N. Zeland.* 1861, p. 251 in notula. — *Squamaria albida* Krempelh., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 146, ubi definitur. = In Oceania (ins. Java).

1323. **L. macrophthalma** Nyl. in *Flora* 1858, p. 489 in notula, 1886, p. 320, et apud Cromb. *Kerguel. Revis.* p. 6, ubi definitur; *Enum. Lich. Supplém.* p. 336. — *Urceolaria macrophthalma* Tayl.; thallus CaCl erythrinose reagit. = In Africa orientali antarctica (ins. Sti Pauli, *Flora* 1886, p. 320) et australi (ins. Kerguelen, et ibi viget etiam forma peculiaris a Nyl. apud Cromb. *Kerguel. land* p. 185 definita).

1324. **L. parellina** Nyl. *Addit. Fl. chil.* p. 257, ubi definitur; *Enum. Lich.* p. 113. = In America meridionali (Chili).

1325. **L. subparellina** Nyl. *Lich. ins. Guin.* p. 45, ubi definitur; *L. parellina* Nyl. *Enum. Lich.* p. 113 pro parte; thallus K (CaCl) erythrinus evadit. = In Oceania (ins. Java; Nova Zelandia).

1326. **L. cribellans** Nyl. *Lich. Jap.* p. 42, ubi definitur; thallus K (CaCl) erythrinus. = In Asia orientali (Japonia).†

#### 10. — *Squamaria* DC.

Sporæ 8<sup>næ</sup> simplices et incolores; spermatia longissima plus minusve arcuata; sterigmata simplicia.

1327. **L. crassa** Ach. — *Lichen crassus* Huds. — *Squamaria crassa* DC., Nyl. *Syn.* I, tab. I, fig. 19, et II, p. 58, ubi definitur; *Enum. Lich.* p. 110; *Flora* 1861, p. 718. = In Asia occidentali (Syria). — In Africa boreali (Algeria, *Lich. Algér.* p. 311, *Prodr. Lich. Gall.* p. 69, et *Flora* 1878, pp. 342 et 345) et occidentali (ins. Madera, *Lich. Madère* p. 189; ins. Canariis). — Etiam in Europa.

— Var. 1. **liparia** Nyl. — *Lecanora rubina* var. *liparia* Ach. — *Squamaria crassa* var. *liparia* Nyl. *Syn.* II, p. 58, ubi definitur; *Squamaria chrysoleuca* var. *liparia* Nyl. *Enum. Lich.* p. 110 et *Lich. exot.* p. 218. — *Parmelia Dufourii* Fr. = In Asia occidentali (Syria). — In Africa boreali (Algeria) et orientali (Abyssinia). — In America meridionali (Peruvia). — Etiam in Europa.

— Var. 2. **melaloma** Nyl. — *Squamaria crassa* var. *melaloma* Nyl. *Syn.* II, p. 58,

ubi definitur; *Squamaria chrysoleuca* var. *melaloma* Nyl. *Enum. Lich.* p. 110. — *Parmelia crassa* var. *melaloma* Ach. = In Africa orientali (Abyssinia). — Etiam in Europa.

— Var. 3. **nitidiuscula** Nyl. *Syn.* II, p. 59, ubi definitur; Stizenb. *Lich. afric.* p. 88. = In Africa occidentali (ins. Canariis).

1328. **Lecanora gypsacea** Nyl. — *Lichen gypsaceus* Sm. — *Squamaria gypsacea* Nyl. *Syn.* II, p. 59, ubi definitur; *Enum. Lich.* p. 110 et *Flora* 1861, p. 718. = In Africa boreali (Algeria, *Lich. Algér.* p. 311 et *Prodr. Lich. Gall.* p. 69). — Etiam in Europa.

1329. **L. lentigera** Ach. — *Lichen lentiger* Web. — *Squamaria lentigera* DC., Nyl. *Syn.* II, p. 60, ubi definitur; *Enum. Lich.* et *Flora* 1861, locis citat. = In Asia occidentali (Transcaucasia). — In Africa boreali (Algeria, *Lich. Algér.* et *Prodr. Lich. Gall.* locis citat.) et occidentali (ins. Madera, *Lich. Madère*, p. 189). — Etiam in Europa.

— F. **Deserti** (Ehrenb.) Nyl. *Lich. Ægypt.* p. 3, ubi definitur. = In Africa boreali (Ægypto).

1330. **L. chrysoleuca** Ach. — *Lichen chrysoleucus* Sm. — *Squamaria chrysoleuca* Nyl. *Syn.* II, p. 60, ubi definitur; *Enum. Lich.* et *Flora* 1861, locis citat., atque *Flora* 1860, p. 546. = In Asia (mont. Himalaya). — In America boreali (Groenlandia). — Etiam in Europa.

— Var. **opaca** Ach. — *Squamaria chrysoleuca* var. *opaca* Nyl. *Addit. Fl. chil.* p. 182, ubi definitur. = In America meridionali (Chili).

1331. **L. melanophthalma** Ramond *Mém. Mus.* XIII, p. 249 (1825). — *Squamaria melanophthalma* DC. *Fl. fr.* II, p. 376, Nyl. *Syn.* II, p. 61, ubi definitur; *Flora* 1860 et 1861, locis citat. = In Asia occidentali (Asia minore et Persia). — In Africa orientali (Abyssinia). — In America utraque (Groenlandia *Flora*, 1862, p. 82; Chili). — Etiam in Europa.

1332. **L. peltata** Nyl. — *Squamaria peltata* DC., Nyl. *Syn.* II, p. 62, ubi definitur; *Enum. Lich.* et *Flora* 1860 et 1861, locis citat. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 215). — Etiam in Europa.

— Var. **lævior** Nyl. *Syn.* II, 63, ubi definitur. = In Africa orientali (Abyssinia).

1333. **L. scythica** Nyl. — *Squamaria scythica* Nyl. *Syn.* II, p. 64, ubi definitur; *Flora* 1861, p. 718 = In Asia (Scythia).

1334. **L. squamulosa** Nyl. — *Squamaria squamulosa* Nyl. *Syn.* II, p. 64 et *Addit. Fl. chil.* p. 152, ubi definitur; *Enum. Lich.* p. 110 et *Flora* 1861, p. 718. = In America meridionali (Chili).

1335. **L. cartilaginea** Ach. — *Squamaria cartilaginea* DC., Nyl. *Syn.* II, p. 64, tab. IX, fig. 37, ubi definitur; *Enum. Lich.* p. 110 et *Flora* 1861, p. 718. = In Asia. — Etiam in Europa.

1336. **L. straminea** Ach. — *Parmelia straminea* Wahlenb. — *Squamaria straminea* Nyl. *Lich. Scand.* p. 134 et *Syn.* II, tab. IX, fig. 38, ubi definitur; *Enum. Lich.* p. 111 et *Flora* 1861, p. 718. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 29 et 49). — In America boreali. — Etiam in Europa boreali.

1337. **L. contractula** Nyl. *Lich. Lapp. orient.* p. 126 et *Lich. Jap.* p. 42, ubi definitur. = In Asia boreali (Lawrence insula etc. *Lich. Fr. Behr.* pp. 49 et 56) et orientali (Japonia). — Etiam in Europa boreali.

1338. **L. saxicola** Ach. — *Lichen saxicola* Poll. — *Squamaria saxicola* Nyl. *Lich. Scand.* p. 133 et *Addit. Fl. chil.* p. 152, ubi definitur; *Enum. Lich.* p. 110 et *Flora* 1861, p. 718. = Cosmopolita; in Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 29) et orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 62). — In Africa boreali (Algeria, *Lich. Algér.* p. 311, *Prodr. Lich. Gall.* p. 70 et *Quelq. Lich. Algér.* p. 215). — In America meridionali (Chili). — In Oceania (Polynesia, *Lich. exot.* p. 240). — Etiam in Europa.

— Var. **Garovaglii** Nyl. *Lich. Armor. et Delphin.* p. 397, et in *Bull. Soc. bot. Fr.* 1863,

p. 261. — *Placodium Garovaglii* Kœrb. *Parerg. Lichen.* p. 54. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 215). — Etiam in Europa.

1339. **Lecanora leptopismodes** Nyl. *Lich. Jap.* p. 42, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).

1340. **L. lobulosa** Nyl. in litt. — *Squamaria lobulata* Nyl. *Enum. Lich.* p. 110 et in *Flora* 1861, p. 718, nomen mutatur utpote jam adhibitum a Sommerfelt. Cfr. supra n° 1151. = In Asia (mont. Himalaya).

1341. **L. coccocarpiopsis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 62, ubi definitur. = In Asia orientali (China).

#### 11. — Stirps *Lecanoræ alphoplacæ* Ach.

Sporæ 8<sup>ae</sup> incolores, simplices; paraphyses articulatae; spermatia cylindrica mediocria; sterigmata simplicia vel brevi-articulata.

1342. **L. alphoplaca** Nyl. *Lich. Scand.* p. 152, ubi definitur. — *Parmelia alphoplaca* Wahlenb. = In America boreali. — Etiam in Europa.

1343. **L. circinata** Ach., Nyl. *Lich. Scand.* p. 152, ubi definitur. — *Placodium circinatum* Nyl. *Lich. Algér.* p. 311, *Prodr. Lich. Gall.* p. 72 et *Enum. Lich.* p. 111; *Flora* 1873, p. 18, thallus K —. — *Lichen circinatus* Pers. = In Asia. — In Africa boreali (Algeria). — Etiam in Europa.

— Var. **myrrhina** Nyl. *Prodr. Lich. Gall.* et *Enum. Lich.* locis citat.; *Lecanora myrrhina* Ach.; *L. miltina* de Notar. et Mont., Nyl. *Lich. Algér.* p. 311. = In Africa boreali (Algeria). — Etiam in Europa.

#### 12. — Stirps *Lecanoræ subfuscae* Ach.

Sporæ vulgo 8<sup>ae</sup> incolores, simplices, raro 1-septatae, in unica specie globulosae; spermatia acicularia, gracilia, arcuata, sterigmata simplicia.

##### A. — *Thallus albus vel albidus* K —.

1344. **L. galactina** Ach., Nyl. *Lich. N. Zeland.* 1888, p. 62. — *Squamaria galactina* Nyl. *Lich. Scand.* p. 134, ubi definitur; *Flora* 1861, p. 718; *L. subfusca* var. *muralis* Nyl. *Enum. Lich.* p. 114. = In Oceania (Nova Zelandia). — Etiam in Europa.

— **F. obliterascens** Nyl. *Lich. Jap.* p. 43, ubi definitur. = In Asia orientali (Japonia).

1345. **L. dispersa** Nyl. *Lich. Lapp. orient.* p. 181 et in *Bull. Soc. bot. France* 1866, p. 368, ubi definitur. — *Lichen dispersus* Pers. — *Squamaria galactina* var. *dispersa* Nyl. *Lich. N. Zeland.* 1861, p. 251, ubi sporæ definiuntur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 29) et orientali (Japonia, *Lich. Jap.* p. 43, ubi sporæ adhuc definiuntur). — In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216, non *Lichen crenulatus* Dicks., cfr. Nyl. *Lich. Scand.* p. 162). — In Oceania (Nova Zelandia, *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1888, p. 62). — Etiam in Europa.

1346. **L. compendiosa** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 63, ubi definitur; thallus K —. = In Asia orientali (China).

1347. **L. kergueliensis** Nyl. apud Cromb. *Kerguel. Revis.* p. 5. — *Urceolina kergueliensis* Tuck. in *Bull. Torrey Bot. Club*, vol. VI, n° 10. = In Africa antarctica (ins. Kerguelen).



B. — *Thallus cinerascens* K *flavens*.

1348. **Lecanora galactiniza** Nyl. apud Cromb. *Lich. capens.* p. 173, ubi definitur; thallus K +. = In Africa australi (promont. Bonæ Spei).

1349. **L. carneo-lutescens** Nyl. in *Flora* 1858, p. 380, ubi definitur; *Enum. Lich.* p. 113. = In America tropica (Mexico).

1350. **L. subfusca** Ach., Nyl. *Lich. Scand.* p. 159, ubi definitur; *Enum. Lich.* p. 114. Thallus K flavet, et eadem reactio in omnibus ejus formis et varietatibus adest, *Flora* 1866, p. 234. = In Asia orientali (Japonia, *Lich. Jap.* p. 43, ubi sporæ definiuntur). — In Africa boreali (Algeria, *Lich. Algér.* p. 312, *Prodr. Lich. Gall.* p. 85 et *Flora* 1878, p. 345) et orientali (ins. Borbonia, *Lich. exot.* p. 257). — In America utraque (Mexico, *Flora* 1858, p. 380; Peruvia, *Lich. exot.* p. 219; Chili, *Addit. Fl. chil.* p. 183). — In Oceania (Taïti, *Lich. exot.* p. 241; Nova Caledonia, *Prodr. Lich. N. Caled.* p. 283). — Etiam in Europa.

— **F. sylvestris** Nyl. *Lich. Madère* p. 189 et apud Cromb. *Challeng. expedit.* p. 215, et in hoc posteriore loco sporæ definiuntur. = In Africa occidentali (ins. Madera). — In America septentrionali (ins. Bermudis).

— Var. 1. **argentata** Ach., Nyl. *Lich. Scand.* p. 160, ubi definitur. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31 et ed. 2<sup>a</sup> p. 32). — In Oceania (ins. Java, *Flora* 1866, p. 131). — Etiam in Europa.

— Var. 2. **glabra** Nyl. *Lich. Lapp. orient.* p. 132 in notula; *L. subfusca* var. *glabrata* Ach. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In Africa occidentali (ins. Madera, *Lich. Madère* p. 189). — Etiam in Europa.

— Var. 3. — **campestris** Schær.; *L. subfusca* var. *subangulosa* Nyl. apud Krempelh. in *Flora* 1868, p. 232, teste Stizenb. *Lich. afric.* p. 111. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 57) et orientali (Japonia, *Lich. Jap.* p. 43). — In Africa occidentali (ins. Madera, *Lich. Madère* p. 189). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 62). — Etiam in Europa.

— Var. 4. **expansa** Nyl. *Lich. Scand.* p. 161 et *Lich. Jap.* p. 43, ubi definitur; *L. atra* var. *expansa* Ach. = In Asia orientali (Japonia). — Etiam in Europa.

— Var. 5. **pumicicola** Nyl. apud Cromb. *Ins. Rodrig.* p. 438, ubi definitur. = In Africa orientali (ins. Rodriguez).

— Var. 6. **circumplumescens** Nyl. in *Flora* 1886, p. 324, ubi definitur. = In Oceania (Australia).

— Var. 7. **prosecha** Ach., Nyl. *Prodr. Fl. N. Gran. Addit.* p. 543 in notula, ubi definitur. = In America tropica (India occidentali).

1351. \* **L. bogotana** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 543, ubi definitur; thallus K +. = In America tropica (Nova Granata).

1352. \*\* **L. subcrenulata** Nyl. *Lich. ins. Guin.* p. 15, ubi definitur; *L. subfusca* var. *subcrenulata* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 542, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 43, ubi sporæ definiuntur) et meridionali (Bengalia, *Flora* 1869, p. 70). — In America tropica (Nova Granata; Brasilia, *Flora* 1869, p. 120).

1353. **L. phæophthalma** Nyl. in *Flora* 1858, p. 489 in notula et *Lich. ins. Guin.* p. 16, ubi definitur; *Enum. Lich. Supplém.* p. 336; thallus K flavet. Forsan non specie distincta a *L. subfusca* Ach.; = In Africa occidentali (ins. San Thomé). — In Oceania (ins. Taïti).

1354. **L. allophana** Ach.; *L. subfusca* var. *allophana* Nyl. *Lich. Scand.* p. 160, *Lich. Lapp. orient.* p. 132 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31, ed. 2<sup>a</sup> pp. 32 et 130 ac *Addit.* p. 541, ubi definitur; thallus K +. = In Africa occidentali (Guinea, *Flora* 1863, p. 265; ins. Madera, *Lich. Madère* p. 189). — In America tropica (Nova Granata). — Etiam in Europa.

1355. **L. horiza** Ach., Nyl. in *Flora* 1881, p. 107; *L. parisiensis* Nyl. in *Bull. Soc. bot.*

*France* 1866, p. 368, ubi definitur. = In Africa boreali (Algeria, *Flora* 1878, p. 345). — Etiam in Europa.

1356. **Lecanora chlarona** Nyl.; *L. distincta* var. *chlarona* Ach.; *L. subfusca* var. *chlarona* Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 130 et *L. albella* var. *chlarona* Nyl. *ibid. Addit.* p. 543 ac *Lich. Scand.* p. 160, ubi definitur; *L. byssiplacea* Fée, Nyl. *Lich. exot.* p. 219 in notula. = In Asia orientali (Japonia, *Lich. Jap.* p. 44) et meridionali (Bengalia, *Flora* 1869, p. 70. — In Africa boreali (Algeria, *Flora* 1878, p. 345). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 63 et 68 in notula) et meridionali (Nova Granata; Brasilia, *Flora* 1869, p. 119, et *Syn. Lich. N. Caled.* p. 26 in notula). — In Oceania (Australia, *Flora* 1864, p. 268, ubi etiam exstat forma peculiaris definita in *Flora* 1886, p. 324). — Etiam in Europa.

1357. **L. chlarodes** Nyl. *Lich. Pyren.-Orient.* p. 53 in notula, ubi definitur. = In Africa occidentali (ins. Madera).

1358. **L. chlaroterodes** Nyl. in *Flora* 1876, p. 508, ubi definitur; thallus K +. = In America tropica (ins. Cuba).

1359. **L. chlaronella** Nyl. apud Cromb. *Challeng. exped.* p. 215, ubi definitur. = In America septentrionali (ins. Bermudis).

1360. **L. chlarotera** Nyl. *Lich. Pyren.-Orient.* p. 20, ubi definitur in notula. — *Parmelia subfusca* Mont. *Phytogr. canar.* p. 115; Bourgeau *Plant. canar.* n° 634, Nyl. in litt. = In Asia orientali (Japonia, *Lich. Jap.* p. 44). — In Africa occidentali (ins. Madera, Mandon *Lich. ins. Mader.* n° 2, *L. chlarona* Ach., Nyl. *Lich. Madère* p. 189 et Stizenb. *Lich. afric.* p. 113). — Etiam in Europa.

1361. **L. rugosa** Ach., Nyl. in *Flora* 1872, p. 250 in notula, et 1883, p. 107 (et non in *Flora* 1881 ut in *Addend. Lichenogr. europ.* p. 86 errore scripsi). — *Lichen rugosus* Pers. = In Asia orientali (Japonia, *Lich. Jap.* p. 44, ubi pro parte definitur). — Etiam in Europa.

1362. **L. præferenda** Nyl. in litt.; *L. albella* var. *præferenda* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 544, ubi definitur; thallus K +. = In America tropica (Nova Granata).

1363. **L. subgranulata** Nyl. apud Cromb. *Ins. Rodrig.* p. 439; *L. subfusca* var. *subgranulata* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 542 et *Syn. Lich. N. Caled.* p. 26, ubi definitur; thallus K +. = In America tropica (ins. Guadalupa, ubi viget forma peculiaris in *Lich. Antill.* p. 11 definita; Nova Granata, ubi « Habitat Cune, ad cortices arborum, altit. 1208 metr. (Lindig) »; nam, ut monet d<sup>r</sup> Stizenb. de *Lecanora subfusca* p. 9, stationes *L. subgranulatae* et *L. coilocarpæ* errore typographico inversæ sunt in *Addit. Fl. N. Gran.*). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 62, ubi pr. p. definitur).

1364. **L. perithioides** Nyl. in *Flora* 1876, p. 508, ubi definitur; thallus K +. = In America tropica (ins. Cuba).

1365. **L. achroa** Nyl. apud Cromb. *Ins. Rodrig.* p. 439, ubi definitur. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 63). — In Africa orientali (ins. Rodriguez). — Var. **phæachroa** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 63. = In Asia orientali (China).

1366. **L. achroella** Nyl. apud Cromb. *Ins. Rodrig.* p. 439, ubi definitur. = In Africa orientali (ins. Rodriguez).

1367. **L. hypocrocina** Nyl. in *Flora* 1876, p. 509, ubi definitur; thallus K + = In America tropica (ins. Cuba).

1368. **L. atrynea** Nyl.; *L. subfusca* f. *atrynea* Ach., Nyl. *Lich. Scand.* p. 161 et *Lich. Lapp. orient.* p. 132, ubi definitur. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10 et 49). — In America utraque (Groenlandia, *Flora* 1862, p. 83; Nova Granata, *Flora* 1864, p. 619; Bolivia, *Lich. And. Boliv.* p. 378). — Etiam in Europa.

— F. 1. **melacarpa** Nyl. in Norrlin *Lapp.* p. 330. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 62). — Etiam in Europa.

- F. 2. **melacarpiza** Nyl. *Lich. Jap.* p. 44, ubi definitur. = In Asia orientali (Japonia).  
 — Var. **cenisia** Nyl.; *L. cenisia* Ach.; *L. cenisea* Ach., Nyl. *Lich. Scand.* p. 161, ubi definitur; *Enum. Lich.* p. 114. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10, 29 et 49). — Etiam in Europa.
1369. **Lecanora gangalea** Ach., Nyl. *Lich. Scand.* p. 161, ubi definitur; *L. subfusca* f. *gangalea* Ach., Nyl. *Lich. Madère* p. 189. = In Africa occidentali (ins. Madera). — Etiam in Europa.
1370. **L. gangaleoides** Nyl. in *Flora* 1872, p. 354, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 44). — In Africa occidentali (ins. Madera). — In Oceania (Australia, *Flora* 1886, p. 324). — Etiam in Europa.
1371. **L. subgangaliza** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 67 et Nyl. *Lich. Jap.* p. 44, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).
1372. **L. gangalizodes** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 52, ubi definitur. = In Asia orientali (Malaeca).
1373. **L. coilocarpa** Ach.; *L. subfusca* var. *coilocarpa* Nyl. *Lich. Scand.* p. 160 et *Prodr. Fl. N. Gran. Addit.* p. 543, ubi definitur. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68 in notula) et meridionali (Nova Granata, *Flora* 1864, p. 619, in qua regione, e dictis supra n° 1363 « Habitat Bogota ad saxa, altit. 2,680 metr., coll. Lindig, 160; Uruguay, *Lich. Fueg.* p. 10). — Etiam in Europa.
1374. **L. epibrya** Ach.; *L. epibryon* Ach.; *L. subfusca* f. *epibrya* Nyl. *Lich. Scand.* p. 161 et *Lich. Lapp. orient.* p. 132, ubi definitur; *Enum. Lich.* p. 114. = In Asia boreali (Lawrencebay, etc. *Lich. Fr. Behr.* pp. 8 et 20). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63). — Etiam in Europa.
1375. **L. granulata** Nyl. *Lich. ins. Guin.* p. 16 in notula, ubi definitur; *Enum. Lich.* p. 114 et in *Flora* 1866, p. 131 in notula. Vix distincta a *L. rugosa* var. *coronata* (Mull.). = In Africa orientali (ins. Madagascar).
1376. \* **L. dissoluta** Nyl. in *Flora* 1866, p. 131, ubi definitur. = In Oceania (ins. Java).
1377. **L. fusco-coccinea** Nyl. *Lich. exot.* p. 257, ubi definitur; *Enum. Lich.* p. 114. = In Africa orientali (ins. Borbonia).
1378. **L. sulphureo-atra** Nyl. in herb. Thuret; *Enum. Lich.* p. 114. « Similis *L. subfusca* Ach. sed thallo flavo (fere citrino), areolato, areolis planiusculis sat contiguis (interdum subtiliter angulosis), hypothallo nigro, apotheciis nigris (parvis vel mediocribus). » = In Africa occidentali (ins. Canariensi Gomera (Despréaux) super saxa).
1379. **L. subflavicans** Nyl. apud Cromb. *Ins. Rodrig.* p. 438, ubi definitur. = In Africa orientali (ins. Rodriguez).
1380. **L. albella** Ach., Nyl. *Lich. Scand.* p. 162, *Lich. Lapp. orient.* p. 133 et in *Flora* 1872, p. 365, ubi definitur; *L. subfusca* var. *albella* Nyl. *Enum. Lich.* p. 114. — *Lichen albellus* Pers. = In Asia boreali (Siberia, *Lich. Middend.* p. 3 et *Lich. Fr. Behr.* p. 74). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 257). — In America tropica (Mexico, *Flora* 1858, p. 380) et meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31 et ed. 2<sup>a</sup> p. 33; Chili, *Addit. Fl. chil.* p. 183). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 62, ubi sporæ et spermatia definiuntur). — Etiam in Europa.
1381. **L. angulosa** Ach., Nyl. *Lich. Scand.* p. 161, *Lich. Pyren.-Orient.* p. 21 et *Prodr. Fl. N. Gran. Addit.* p. 544, ubi definitur. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 7, *L. albella* f. *angulosa*). — In Oceania (Nova Caledonia, *L. subfusca* var. *angulosa* Nyl. *Flora* 1867, p. 195, *Syn. Lich. N. Caled.* p. 26, et in hoc definitur). — Etiam in Europa.
1382. **L. cæσιο-rubella** Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31, ed. 2<sup>a</sup> p. 33 et *Addit.* p. 545 atque *Syn. Lich. N. Caled.* p. 27, ubi definitur; *Enum. Lich.* p. 114;



thallus K +. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 257, *L. farinacea* Fée et *L. leprosa* Fée). — In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 220, *L. pallido-flava* Fée). — In Oceania (Australia, *Flora* 1864, p. 268, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 193).

1383. **Lecanora sublivida** Nyl. in *Flora* 1867, p. 193; *L. subfusca* var. *sublivida* Nyl. *Syn. Lich. N. Caled.* p. 26, ubi definitur. = In Oceania (Nova Caledonia).

1384. **L. glaucomodes** Nyl. in *Flora* 1876, p. 509, ubi definitur; thallus K +. = In America tropica (ins. Cuba).

— **F. conflectens** Nyl. apud Cromb. *Challeng. expedit.* p. 215, ubi definitur. = In America septentrionali (ins. Bermudis).

1385. **L. homaloplaca** Nyl. *Lich. Angol.* p. 512, ubi definitur; thallus K +. = In Africa occidentali (Angola).

1386. **L. glaucoma** Ach., Nyl. *Lich. Scand.* p. 159, ubi definitur; *Enum. Lich.* p. 114; *Lich. Pyren.-Orient.* p. 20, epithecium CaCl citrino-flavens. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 10). — In Africa boreali (Algeria, *Lich. Algér.* p. 312 et *Prodr. Lich. Gall.* p. 85). — In America meridionali (Bolivia, *Lich. And. Boliv.* p. 378). — Etiam in Europa.

— Var. **corrugata** Nyl. *Lich. algeriens.* p. 317, *Lich. Algér.* 324 et *Prodr. Lich. Gall.* p. 86, ubi definitur; *Enum. Lich.* p. 114. = In Africa boreali (Algeria). — Etiam in Europa (Gallia).

1387. \***L. bicincta** Ramond *Mém. Mus.* XIII, p. 248 (1825), Nyl. *Lich. Pyren.-Orient.* p. 20. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 215). — Etiam in Europa.

1388. \*\***L. subradiosa** Nyl. *Lich. Pyren.-Orient.* p. 20, ubi definitur; thallus CaCl +. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* pp. 5 (forma), 18, 29 et 49 (alia forma). — Etiam in Europa.

1389. \*\*\***L. perspersa** Nyl. in *Flora* 1885, p. 440, et *Lich. Fr. Behr.* p. 56, ubi definitur; reactiones ut in præcedenti. = In Asia boreali (Behring insula).

1390. **L. subcarnea** Nyl. *Lich. ins. Princip.* p. 3 et *Lich. ins. Guin.* p. 16, ubi definitur; *L. glaucoma* var. *subcarnea* Nyl. *Lich. Scand.* p. 159, ubi etiam definitur; *Enum. Lich.* p. 114. — *Lichen subcarneus* Sw.; thallus K flavet; epithecium CaCl —. = In Africa occidentali (ins. Principis). — In Oceania (Nukahiva, *Lich. exot.* p. 241). — Etiam in Europa.

1391. **L. vincentina** Nyl. apud Cromb. *Challeng. expedit.* p. 212, ubi definitur; thallus K + flavescit. = In Africa occidentali (Arsenario promontorio, cap Vert).

1392. **L. glaucodea** Nyl. in *Flora* 1864, p. 619 in notula, *Prodr. Fl. N. Gran. Addit.* p. 544, ubi definitur. = In America tropica (Nova Granata).

1393. **L. flavo-virens** Fée, Nyl. *Lich. Port Natal* p. 7; *L. æruginosa* Nyl. *Addit. Fl. chil.* p. 157 et *Prodr. Fl. N. Gran. Addit.* p. 544, ubi definitur; *Enum. Lich.* p. 114.; *L. subfusca* var. *pelidnocarpa* Mont.; *L. byssioplaca* Fée. Dicitur in *Lich. exot.* p. 219, hanc *L. flavovirentem* statum esse *L. subfusca*. = In Africa meridionali (Portu Natali, ubi viget forma peculiaris in *Lich. Port Natal* loc. citat. definita). — In America meridionali (Chili). — In Oceania (Nova Zelandia, *Flora* 1867, p. 440).

1394. **L. blanda** Nyl. *Lich. exot.* p. 219, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 30, ed. 2 p. 32 et *Addit.* p. 541 ac *Lich. And. Boliv.* p. 378, ubi definitur; *Enum. Lich.* p. 114; *Flora* 1866, p. 234, thallus CaCl + e flavo cito purpurascit. = In America tropica (Nova Granata, Peruvia et Bolivia).

1395. **L. leucoma** Nyl. in *Flora* 1864, p. 268, ubi definitur. = In Oceania (Australia).

1396. **L. granifera** Ach., Nyl. *Syn. Lich. N. Caled.* p. 28, ubi definitur; *Enum. Lich.* p. 114; *Prodr. Fl. N. Gran. Addit.* p. 545; thallus K nonnihil flavescit; hypothecium fuscum. = In Asia meridionali (Calcutta, *Flora* 1867, p. 4). — In Africa occidentali (ins. San Thomé,

*Flora* 1886, p. 172, *Contrib. da Fl. d'Afric.* p. 6 et *Lich. ins. Guin.* p. 17, ubi sporæ definiuntur). — In America tropica (ins. Cuba, *Flora* 1866, p. 290, ubi vigent species typica et forma accedens ad *Lecideam aurigeram* Fée, quæ specie non differt; Peruvia, *Lich. exot.* p. 220, *L. soredifera* Fée). — In Oceania Nova Caledonia, *Flora* 1867, p. 195, et *Exposit. Lich. N. Caled.* p. 44).

— Var. 1. **leucotropa** Nyl. *Lich. Antill.* p. 11, ubi definitur. = In America tropica (ins. Guadalupa).

— Var. 2. **coronulans** Nyl. in *Flora* 1874, p. 72, ubi definitur. = In America tropica (Brasilia).

1397. **Lecanora subæruginosa** Nyl. in *Flora* 1866, p. 290; *L. granifera* var. *subæruginosa* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31, ed. 2<sup>a</sup> p. 33 et *Addit.* p. 545, ubi definitur; thallus K nonnihil flavescit = In America tropica (Nova Granata).

1398. **L. prægranifera** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 53, ubi definitur; thallus intus flavescens K magis flavet. = In Asia orientali (Malacca).

1399. **L. egranulosa** Nyl. in *Flora* 1876, p. 509, ubi definitur. = In America tropica (ins. Cuba).

1400. \* **L. coronulata** Nyl. in litt.; *L. coronulans* Nyl. in *Flora* 1876, p. 510, ubi definitur. Nomen mutatur, quia jam datum fuit, supra n° 1396. = In America tropica (ins. Cuba).

1401. **L. mesoxantha** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31, ed. 2<sup>a</sup> p. 33 et *Addit.* p. 545, ubi definitur; thallus K nonnihil flavescit. = In America tropica (Nova Granata).

1402. **L. concilians** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31, ed. 2<sup>a</sup> p. 33 et *Addit.* p. 545, ubi definitur; thallus K+, hypothecium fusco-rufescens. = In America tropica (Nova Granata).

1403. **L. endophæa** Nyl. *Lich. N. Caled. Exposit.* p. 44 et *Syn.* p. 29, ubi definitur; in *Flora* 1867, p. 195; hypothecium fuscum. = In Oceania (Nova Caledonia) (1).

1404. **L. fuscescens** Nyl. *Lich. Fr. Behr.* pp. 17 et 52. — *Lecidea fuscescens* Sommerf., Nyl. *Lich. Scand.* p. 212, ubi definitur; *Enum. Lich.* p. 122; thallus K flavescit et sporæ sunt globulosæ. = In Asia boreali (Konyambay etc.) et orientali (Japonia, *Lich. Jap.* p. 45, ubi pro parte definitur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68 in notula. — Etiam in Europa.

#### C. — *Thallus flavens.*

1405. **L. carnulenta** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 63, ubi definitur; thallus K flavescit. = In Asia orientali (China).

1406. **L. frustulosa** Ach., Nyl. *Lich. Scand.* p. 166, ubi definitur. — *Lichen frustulosus* Dicks.; thallus K flavet. = In Asia orientali (Japonia, *Lich. Jap.* p. 45). — Etiam in Europa.

1407. **L. subventosa** Nyl. in *Flora* 1872, p. 252, et 1873, p. 290; *L. frustulosa* var. *subventosa* Nyl. *Enum. Lich.* p. 114. Differt a *L. frustulosa* thallo magis flavicante, turgidiore et apotheciis fusco-rubrescentibus, ut *L. ventosam* Ach. haud parum referat, inde nomen varietatis *subventosæ*.

« Thallus flavidus, conferte granuloso-verrucosus et globulose diffractus, crassulus (crass. 1 millim. vel majoris). Apothecia rufa vel rufo-fuscescentia, latit. circiter 1 millim., margine thallino demum crenato cincta, tandem difformia; sporæ 8<sup>ae</sup> incolores et simplices, ellipsoideæ, longit. 0,010-11 et crass. 0,006-8 millim.; paraphyses mediocres apice

(1) Adest in China, provincia Yun-nan, *Lecanora endophæoides* Hue, affinis *L. endophææ* Nyl. et etiam *L. flavido-rufa* Hue, cujus hypothecium est rufescens. Cfr. Hue *Lich. Yunn.* II, pp. 39 et 40 in *Bull. Soc. bot. France* 1889.

nonnihil clavato-incrassato. Gelatina hymenialis iodo cœrulescens.» = In America arctica verisimiliter, provenit ex herb. Hooker, sine indicato loco.

1408. **Lecanora oregana** Tuck., Nyl. *Lich. Jap.* p. 105, ubi definitur. = In America septentrionali (Oregon).

1409. **L. varia** Ach., Nyl. *Lich. Scand.* p. 163, *Syn. Lich. N. Caled.* p. 27 et in *Flora* 1877, p. 463, ubi definitur; *Enum. Lich.* p. 114. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3; Konyambay, *Lich. Fr. Behr.* p. 20). — In Africa boreali (Algeria, *Lich. Algér.* p. 312). — In America tropica (Mexico, *Flora* 1858, p. 380). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

1410. **L. conizæa** Nyl.; *L. expallens* var. *conizæa* Nyl. *Lich. Scand.* p. 163 et *Syn. Lich. N. Caled.* p. 27, ubi definitur; thallus K flavescit. = In Asia orientali (Japonia, *Lich. Jap.* p. 45, ubi sporæ definiuntur). — In America septentrionali, *Lich. Scand.* p. 163. — In Oceania (Australia, *Flora* 1864, p. 268, et *Lich. N. Zeland.* 1861, p. 253 in notula; Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

1411. **L. conizopta** Nyl. apud Cromb. *Ins. Rodrig.* p. 440 et *Lich. Jap.* p. 46, ubi definitur; thallus K flavescit. = In Asia orientali (Japonia). — In Africa orientali (ins. Rodriguez).

1412. **L. symmietera** Nyl. *Lich. Jap.* p. 46, ubi definitur; in *Flora* 1872, p. 249; thallus flavidus K magis flavet, CaCl —. = In Asia orientali (Japonia). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68 in notula). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 63, ubi definitur). — Etiam in Europa.

— **F. calvescens** Nyl. *Lich. Fr. Behr.* p. 52, ubi definitur. = In Asia boreali (Behring insula).

1413. **L. symmieta** Nyl. in *Flora* 1872, p. 249; *L. varia* var. *symmieta* Ach. pr. p., Sommerf., Nyl. *Lich. Scand.* p. 163 et *Lich. Lapp. orient.* p. 133 atque *Syn. Lich. N. Caled.* p. 27, ubi definitur; *Enum. Lich.* p. 114; thallus CaCl nonnihil erythrinose tingitur. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In America boreali (Alaska, *Lich. N. Zeland.* 1888, p. 63 in notula, ubi definitur). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

— Var. **sæpincola** Nyl. in *Flora* 1872, p. 249; *L. varia* var. *sæpincola* Nyl. *Lich. Scand.* p. 164 et *Lich. Lapp. orient.* p. 134, ubi definitur. — *Lecidea sæpincola* Ach. = In America boreali (Groenlandia, *Flora* 1862, p. 83). — Etiam in Europa.

1414. **L. pallido-cerina** Eschw., Nyl. *Lich. N. Zeland.* 1888, p. 63, ubi definitur; thallus K (CaCl) +. = In America tropica (Brasilia). — In Oceania (Nova Zelandia).

1415. **L. flavo-pallescens** Nyl. *Lich. N. Zeland.* 1888, p. 63, ubi definitur. — *Lecidea flavo-pallescens* Nyl. *Enum. Lich.* p. 121; thallus K (CaCl) +. = In Oceania (Nova Zelandia).

1416. \* **L. symmioides** Nyl. *Lich. N. Zeland.* 1888, p. 64, ubi definitur. = In Oceania (Nova Zelandia).

1417. **L. perflavida** Nyl. *Lich. N. Zeland.* 1888, p. 64, ubi definitur. = In Oceania (Nova Zelandia).

1418. **L. flavido-pallens** Nyl. in *Flora* 1876, p. 510, ubi definitur; thallus et apothecia CaCl et præsertim K (CaCl) erythrinose cinnabarina. = In America tropica (ins. Cuba).

1419. **L. subflava** Tuck., Nyl. in *Flora* 1876, p. 509, ubi definitur; thallus K flavet. = In America tropica (ins. Cuba).

1420. **L. lutescens** Nyl. *Lich. Jap.* p. 110, ubi definitur; *L. expallens* Ach., Nyl. *Prodr. Lich. Gall.* p. 89 et in *Flora* 1879, p. 361; *L. varia* var. *lutescens* Nyl. *Lich. Scand.* p. 163, ubi definitur, et *Prodr. Lich. Gall.* p. 89; *L. expallens* var. *lutescens* Nyl. in *Flora* 1872, p. 248. — *Patellaria lutescens* DC.; thallus CaCl aurantiaco-erythrinose reagit. = In Oceania (ins. Labuan). — Etiam in Europa.



1421. **Lecanora oblutescens** Nyl. *Lich. N. Zeland.* 1888, p. 64, ubi definitur; eadem thalli reactio ac in præcedente. = In Oceania (Nova Zelandia).

1422. **L. perlutescens** Nyl. apud Cromb. *Ins. Rodrig.* p. 439, ubi definitur; thallus et apothecia CaCl erythrinose tinguntur. = In Africa orientali (ins. Rodriguez).

1423. **L. sublutescens** Nyl. apud Cromb. *Kerguel. land* p. 186, ubi definitur; thallus CaCl croceo-reagit. = In Africa australi (ins. Kerguelen).

1424. **L. sulphurea** Ach., Nyl. *Lich. Scand.* p. 163, ubi definitur; *Enum. Lich.* p. 114; thallus et epithecium CaCl +. = In Africa boreali (Algeria, *Lich. Algér.* p. 312 et *Prodr. Lich. Gall.* p. 90). — Etiam in Europa.

1425. **L. subsulphurata** Nyl. *Lich. ins. S<sup>u</sup> Pauli* p. 6 et in *Flora* 1886, p. 320, ubi definitur; thallus K citrinus, CaCl —. = In Africa orientali antarctica (ins. S<sup>u</sup> Pauli).

1426. **L. atro-sulphurea** Ach., Nyl. *Lich. Scand.* p. 166, ubi definitur; thallus CaCl erythrinus. — *Lichen atro-sulphureus* Wahlenb. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10 et 44). — In America boreali (Groenlandia, *Flora* 1883, p. 107). — Etiam in Europa arctica.

— **F. biformis** Nyl. *Lich. Fr. Behr.* p. 56 et in *Flora* 1883, p. 107, ubi definitur; thallus K (CaCl) erythrinus. — *Lecidea biformis* Fr. = In Asia boreali (Behring insula). — Etiam in Europa arctica.

1427. **L. polytropa** Nyl. in *Flora* 1872, p. 251, ubi ut species propria distinguitur, et in *Flora* 1875, pp. 45 et 444, ubi pro parte definitur; *L. varia* var. *polytropa* Nyl. *Lich. Scand.* p. 164 et *Lich. Lapp. orient.* p. 134, ubi definitur; *Enum. Lich.* p. 114. — *Lichen polytropus* Ehrh. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 10, 29 et 56) et orientali (Japonia, *Lich. Jap.* p. 45, ubi sporæ definiuntur). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 378). — Etiam in Europa.

— Var. **polytropella** Nyl. *Lich. Jap.* p. 45, ubi definitur; *L. polytropella* Nyl. in *Flora* 1875, p. 443, ubi definitur. = In Asia orientali (Japonia). — Etiam in Europa.

1428. \* **L. peritropa** Nyl. in *Flora* 1885, p. 440, et *Lich. Fr. Behr.* p. 56, ubi definitur. = In Asia boreali (Behring insula).

1429. \*\* **L. intricata** Nyl. in *Flora* 1872, p. 251; *L. varia* var. *intricata* Nyl. *Lich. Scand.* p. 164, ubi definitur. — *Lichen intricatus* Schrad. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 29) et orientali (Japonia, *Lich. Jap.* p. 45). — Etiam in Europa.

1430. **L. subintricata** Nyl. in *Flora* 1872, p. 249; *L. varia* var. *subintricata* Nyl. in *Flora* 1868, p. 478, ubi definitur; *L. atrocinerea* Hepp *Flecht. europ.* 192; *L. apochræa* Anzi *Langob.* 512. = In Asia orientali (Japonia, *Lich. Jap.* p. 46). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63). — Etiam in Europa.

1431. **L. subcinctula** Nyl. *Lich. Jap.* p. 46, ubi definitur. = In Asia orientali (Japonia).

1432. **L. minutella** Nyl. *Lich. Jap.* p. 105, ubi definitur. = In America septentrionali (ditione Tennessee).

1433. **L. sarcopis** Nyl. in *Flora* 1869, p. 412, et 1881, p. 184, atque *Lich. Scand.* p. 165, ubi definitur. — *Lichen sarcopis* Wahlenb. = In Europa.

— **F. subeffusa** Nyl. in *Flora* 1867, p. 4, ubi definitur. = In Asia meridionali (Calcutta).

1434. **L. sarcoptella** Nyl. *Syn. Lich. N. Caled.* p. 28, ubi definitur. = In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

1435. **L. Willeyi** Tuck. *Syn. North Americ. Lich.* I, p. 191, Nyl. *Lich. Jap.* p. 105, ubi definitur, vix vel parum ab ea differt *L. effusa* var. *obscurior* Nyl. in Zwackh *Lich. Heidelb.* p. 34 et *Exsicc.* 64. = In America septentrionali (Amherst).

D. — *Thallus cinerascens* K —.

1436. **Lecanora umbrina** Nyl. *Lich. Scand.* p. 162 et *Lich. Lapp. orient.* p. 133 atque apud Hue *Addend. Lichenogr. europ.* p. 90, ubi definitur; in *Flora* 1866, p. 234. — *Lichen umbrinus* Ehrh. = In Africa australi (ins. Kerguelen, Nyl. apud Cromb. *Kerguel. land* p. 185, ubi spermatia definiuntur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 69, ubi spermatia etiam definiuntur) et meridionali (Nova Granata, *Flora* 1864, p. 619; datur in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31 et ed. 2<sup>a</sup> p. 33 sub nomine: *L. subfusca* var. *conferta* (Dub.), sed *L. umbrina* definitur in *Addit.* ejusdem operis p. 545). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 252, ubi sporæ definiuntur, et 1888, p. 62). — Etiam in Europa.

— Var. **cyanescens** Nyl. *Lich. Scand.* p. 162; *L. Hageni* var. *cyanescens* Ach. = In Africa boreali (Ægypto, *Flora* 1876, p. 283, ubi definitur). — Etiam in Europa.

1437. **L. bormiensis** Nyl. in *Flora* 1872, p. 250, ubi spermatia definiuntur. = In Africa boreali (Algeria, *Flora* 1878, p. 345). — Etiam in Europa.

1438. **L. bermudensis** Nyl. apud Cromb. *Challeng. expedit.* p. 215, ubi definitur. = In America septentrionali (ins. Bermudis).

1439. **L. teneriffensis** Nyl. apud Cromb. *Challeng. expedit.* p. 218, ubi definitur. = In Africa occidentali (ins. Teneriffa).

1440. **L. Hageni** Ach., Nyl. in *Flora* 1872, p. 251, et *Enum. Lich.* p. 114. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 8, 44 et 52, in hoc ultimo loco sporæ definiuntur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63). — Etiam in Europa.

1441. **L. luridatula** Nyl. in *Flora* 1875, p. 298, et 1876, p. 577, ubi definitur. = In Africa boreali (Algeria, *Flora* 1878, p. 345). — Etiam in Europa.

1442. **L. distans** Nyl. in *Flora* 1872, p. 250; *L. subfusca* var. *distans* (Pers.) Ach., Nyl. *Lich. Scand.* p. 160 et *Syn. Lich. N. Caledon.* p. 25, ubi definitur; thallus K —. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3) et meridionali (Calcutta, *Flora* 1867, p. 4). — In Africa. — In America utraque (Mexico, *Mexic. Plant.* p. 6, ubi sporæ definiuntur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 31 et ed. 2<sup>a</sup> p. 32; Bolivia, *Lich. And. Boliv.* p. 378, ubi sporæ definiuntur). — In Oceania (ins. Java, *Flora* 1866, p. 131; Nova Caledonia, *Flora* 1867, p. 195 et *Exposit. Lich. N. Caled.* p. 44). — Etiam in Europa.

1443. **L. prosechoidiza** Nyl. in *Flora* 1881, p. 3, ubi definitur. = In Europa.

— F. **sublutior** Nyl. *Lich. Fr. Behr.* p. 57, ubi definitur; *L. prosechoides* f. *sublutior* Nyl. in *Flora* 1882, p. 456, ubi definitur. = In Asia boreali (Behring insula). — Etiam in Europa.

1444. **L. Behringii** Nyl. in *Flora* 1883, p. 439; et *Lich. Fr. Behr.* p. 56, ubi definitur. = In Asia boreali (Behring insula).

E. — *Thecæ polysporæ.*

1445. **L. constans** Nyl. *Prodr. Lich. Gall.* p. 89 et *Lich. Port Natal* p. 7, ubi definitur; *Enum. Lich.* p. 114. = In Africa meridionali (Portu Natali). — Etiam in Europa.

13. — Stirps *Lecanoræ atræ* Ach.

Sporæ 8<sup>næ</sup>, incolores simplices; spermatia recta, longa; sterigmata simplicia.

1446. **L. atra** Ach., Nyl. *Lich. Scand.* p. 170, *Lich. Lapp. orient.* p. 135 et *Lich. Pyren.-Orient.* p. 53, ubi definitur; *Enum. Lich.* p. 114; thallus K flavet. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* pp. 29 et 57) et orientali (Japonia, *Lich. Jap.* p. 47, atque Nyl. et

Cromb. *Lich. East. Asia* p. 67). — In Africa boreali (Algeria, *Lich. Algér.* p. 312 et *Prodr. Lich. Gall.* p. 91) et orientali (ins. Borbonia, *Lich. exot.* p. 257, forma thallo flavido). — In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Flora* 1864, p. 619, ac *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 32, ed. 2<sup>a</sup> p. 34 et *Addit.* p. 545; Peruvia, *Lich. exot.* p. 220; Bolivia, *Lich. And. Boliv.* p. 378; Chili, *Addit. Fl. chil.* p. 183) et australi (Fuegia, Basket island, *Lich. Fueg.* p. 9). — In Oceania (Nova Caledonia, *Flora* 1867, p. 495, *Lich. N. Caled. Exposit.* p. 44 et *Syn.* p. 29; Nova Zelandia, *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 252, atque 1888, p. 65, et in hoc posteriore loco sporæ definiuntur). — Etiam in Europa.

— Var. 1. **discolor** Nyl. *Lich. Algér.* p. 325, ubi definitur; *Prodr. Lich. Gall.* p. 91; *Lecanora discolor* Dub. — In Asia occidentali (ins. Cypro, *L. cypria* Kærber in *Flora* 1864, p. 267). — In Africa boreali (Algeria). — Etiam in Europa.

— Var. 2. **musciola** Nyl. *Lich. And. Boliv.* p. 378, ubi definitur. = In America tropica (Bolivia).

— Var. 3. **sucedanea** Nyl. apud Cromb. *Ins. Rodrig.* p. 440, ubi definitur. = In Africa orientali (ins. Rodriguez).

1447. **Lecanora pachypholis** Nyl. *Lich. N. Zeland.* 1883, p. 65, ubi definitur; in *Flora* 1867, p. 440; thallus K flavet. = In Oceania (Nova Zelandia).

1448. **L. diffusilis** Nyl. apud Cromb. *Lich. capens.* p. 174, ubi definitur; thallus K + flavet. = In Africa meridionali (promont. Bonæ Spei).

1449. **L. atro-rimata** Nyl. apud Cromb. *Lich. capens.* p. 174, ubi definitur; thallus K + flavet. = In Africa meridionali (promont. Bonæ Spei).

1450. **L. broccha** Nyl. apud Cromb. *Kerguel. land* p. 185, ubi definitur; thallus K + flavet. = In Africa australi (ins. Kerguelen).

1451. **L. atro-cæsia** Nyl. apud Cromb. *Kerguel. land* p. 185, ubi definitur; thallus K + virescenti-flavet. = In Africa australi (ins. Kerguelen).

1452. **L. erythrinosa** Nyl. *Enum. Lich.* p. 114. « Thallus cinnabarinus sat tenuis, inæqualis, effusus vel saltem late expansus; apothecia nigra vel fusco-nigra, mediocria, superficilia, margine thalino æquali, intus quoque nigra; paraphyses non discretæ; sporæ non visæ. Thalli colore fere ut in *Hypochno rubrocincto*, albescentia vero nulla. Prope *L. atram* Ach. collocanda; forsitan alias pertinet ». = In America tropica (Brasilia, super corticem, ex herb. Fée).

1453. **L. prædolosa** Nyl. *Lich. Fueg.* p. 9, ubi definitur. = In America australi (Fuegia).

1454. **L. atro-violacea** Flot., Nyl. *Lich. Fueg.* p. 21, ubi definitur; thallus K —. = In America australi (ins. Maclovianis).

#### 14. — Stirps *Lecanoræ tartareæ* Ach.

Sporæ 4-6 vel 8 in thecis, incolores, simplices, magnæ; spermatia acicularia; sterigmata simplicia.

1455. **L. tartareæ** Ach., Nyl. *Lich. Scand.* p. 157 et *Lich. Lapp. orient.* p. 135, ubi definitur; *Enum. Lich.* p. 113. — *Lichen tartareus* L.; thallus CaCl erythrinice reagit. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4, Lawrencebay, *Lich. Fr. Behr.* pp. 5, 8, 20 et 54) et orientali (Japonia, *Lich. Jap.* p. 47, in qua regione variat apotheciis margine crenato). — In Africa occidentali (ins. Madera, *Lich. Madère* p. 189). — In America tropica (Peruvia, *Lich. exot.* p. 219, ubi definitur et inscribitur sub nomine erroneo: *L. subtartareæ* Nyl. æque ac in *Enum. Lich.* p. 113, conferatur de hoc Nyl. *Lich. Pyren.-Orient.* p. 21 in notula). — Etiam in Europa.



- F. 1. **tenuior** Nyl. *Lich. Madère* p. 189. = In Africa occidentali (ins. Madera).
- F. 2. **telephoroides** Ach., Fr., Nyl. *Lich. Fr. Behr.* p. 48. = In Asia boreali (Lawrence insula).
- Var. 1. **frigida** Ach., Nyl. *Lich. Scand.* p. 157, ubi definitur; *Enum. Lich.* p. 113.
- *Lichen frigidus* Swartz. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* pp. 44, 48 et 54). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63) et australi (Fuegia, *Lich. Fueg.* p. 9, ubi sporæ definiuntur). — Etiam in Europa.
- Var. 2. **gonatodes** Ach., Nyl. *Lich. Scand.* p. 157, ubi definitur; *Enum. Lich.* p. 113. = In America boreali et australi (ins. Maclovianis, *Lich. N. Zeland.* 1887, p. 145, ubi sporæ definiuntur). — Etiam in Europa.
- Var. 3. **pterulina** Nyl. *Lich. Fr. Behr.* p. 44, ubi definitur. = In Asia boreali (Lawrence insula).
- Var. 4. **pertusarioidea** Nyl. *Lich. Jap.* p. 47, ubi definitur. = In Asia orientali (Japonia).
1456. **Lecanora subtartarea** Nyl. *Lich. Pyren.-Orient.* p. 21 in notula, non *Lich. exot.* p. 219, nec *Enum. Lich.* p. 113; *L. pallescens* f. *leprosa* Nyl. *Lich. Lapp. orient.* p. 135, ubi definitur. — Late distributa.
1457. **L. pallescens** Ach., Nyl. *Lich. Lapp. orient.* p. 135; *L. parella* var. *pallescens* Nyl. *Lich. Scand.* p. 157, ubi definitur; *Enum. Lich.* p. 113. — *Lichen pallescens* L.; thallus et margo thallinus apotheciorum CaCl erythrinose rubescunt. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 52). — In Africa occidentali (ins. Madera, *Lich. Madère*, p. 189). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 81) et meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 30, ed. 2<sup>a</sup> p. 32 et *Addit.* p. 541; Peruvia, *Lich. exot.* p. 219, *L. duplicata* Fée). — In Oceania (ins. Nukahiva, *Lich. exot.* p. 241; Nova Caledonia, *Flora* 1867, p. 195, et *Syn. Lich. N. Caledon.* p. 29, in quo ultimo loco definitur). — Etiam in Europa.
1458. **L. inæquata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 30, ed. 2<sup>a</sup> p. 32 et *Addit.* p. 541, ubi definitur; reactiones sunt eadem ac in præcedenti. = In America tropica (Nova Granata).
1459. **L. inæquatula** Nyl. in *Flora* 1885, p. 603, et *Lich. Fr. Behr.* p. 63, ubi definitur; thallus CaCl + erythrinice reagit. = In America boreali (Port-Clarence).
1460. **L. parella** Ach., Nyl. *Lich. Scand.* p. 156 et *Lich. Lapp. orient.* p. 135, in *Flora* 1881, p. 454 et *Lich. Pyren.-Orient.* p. 33, ubi definitur; *Enum. Lich.* p. 113. — *Lichen parellus* L.; thallus et margo thallinus apotheciorum CaCl —, epithecium vero K (CaCl) rubescit. = In Asia boreali (Sibiria, *Lich. Middend.* pp. 3 et 4) et orientali (Japonia, *Lich. Jap.* p. 47). — In Africa boreali (Algeria, *Lich. Algér.* p. 313), meridionali (Portu Natali, *Lich. Port Natal* p. 7) et occidentali (ins. Madera, *Lich. Madère* p. 189). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 379) et australi (ins. Maclovianis, *Lich. exot.* p. 263; Cap Horn, *Lich. Fueg.* p. 8). — In Oceania (Australia, (f. corticola) *Flora* 1864, p. 269, et *Lich. N. Zeland.* 1861, p. 253 in notula; archipel. Mendana, *Lich. îles Marquis.* p. 301). — Etiam in Europa.
- F. 1. **phlæoleuca** Nyl. apud Cromb. *Ins. Rodrig.* p. 440, ubi definitur. = In Africa orientali (ins. Rodriguez).
- F. 2. **blandior** Nyl. *Lich. Fueg.* p. 8, ubi definitur. = In America australi (Fuegia).
1461. **L. upsaliensis** Ach.; *L. parella* var. *upsaliensis* Nyl. *Lich. Scand.* p. 157 et *Lich. Lapp. orient.* p. 135, ubi definitur. — *Lichen upsaliensis* L.; thallus et epithecium K (CaCl) —, *Flora* 1881, p. 454. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3; Konyambay, *Lich. Fr. Behr.* p. 20). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 63, ubi sporæ definiuntur). — Etiam in Europa.
1462. **L. gyalectina** Nyl. in *Flora* 1885, p. 603, et *Lich. Fr. Behr.* p. 64, ubi definitur; thallus K —, CaCl —. = In America boreali (Port-Clarence).

1463. **Lecanora hypotartarea** Nyl. *Lich. Fueg.* p. 9, ubi definitur; thallus K —, CaCl —. « J. Müller Microgonidiologus videtur hanc designavisse nomine *L. antarctica*, sub eodem nomine simul comprehensa *blandiore* (hic sub n° 1460), deinde ambas separans. Sed nomen *hypotartarea*, ut primum rite distinguens, necessario speciei est retinendum (cf. Fr. fil. *Lich. Arct.* p. 221). » Nyl. in litt. = In America australi (Fuegia).

15. — Stirps *Lecanoræ cinereæ* Sommerf.

Sporæ 6-8<sup>m</sup> incolores, simplices; spermata acicularia recta, raro arcuata; sterigmata simplicia.

1464. **L. lævata** Nyl. *Lich. Fr. Behr.* p. 30, ubi spermata definiuntur et apud Hue *Addend. Lichenogr. europ.* p. 107. — *Sagedia lævata* Ach. = In Asia boreali (Konyambay). — Etiam in Europa.

— **F. candida** Anzi, Nyl. in *Flora* 1881, p. 183. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 70). — Etiam in Europa.

1465. **L. cinerea** Sommerf., Nyl. *Lich. Scand.* p. 153 et *Lich. Lapp. orient.* p. 136, ubi definitur; apud Hue *Addend. Lichenogr. europ.* p. 105 et *Enum. Lich.* p. 113. — *Lichen cinereus* L.; thallus K ferrugineo-rubet. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* pp. 29 et 57) et orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 64). — In Africa boreali (Algeria, *Lich. Algér.* p. 312). — In America meridionali (Bolivia, *Lich. And. Boliv.* p. 378; Chili, *Addit. Fl. chil.* p. 183). — Etiam in Europa.

— **F. transversa** Nyl. *Lich. Jap.* p. 47, ubi definitur. = In Asia orientali (Japonia).

1466. **L. epiglypta** Norrlin, Nyl. in *Flora* 1881, p. 4, ubi definitur. = In Asia boreali (Laurence insula, *Lich. Fr. Behr.* p. 49). — Etiam in Europa boreali (Finlandia).

1467. **L. subradians** Nyl. *Lich. Lapp. orient.* p. 136, ubi definitur; thallus K ferrugineo-rubet. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 11 et 49, et in hoc posteriore loco sporæ definiuntur). — Etiam in Europa boreali (Lapponia).

1468. **L. subradiascens** Nyl. in *Flora* 1885, p. 444, et *Lich. Fr. Behr.* p. 11, ubi definitur; thallus K —. = In Asia boreali (Lawrencebay).

1469. **L. perradiata** Nyl. in *Flora* 1884, p. 213, et *Lich. Fr. Behr.* p. 29 ubi definitur; thallus K obscure rufescens. = In Asia boreali (Konyambay).

1470. **L. proserpens** Nyl. *Lich. Fr. Behr.* p. 86, ubi definitur; thallus K —. = In America boreali (Alaska).

1471. **L. gibbosa** Nyl. *Lich. Scand.* p. 154 et *Lich. Lapp. orient.* p. 137, ubi definitur; *Enum. Lich.* p. 113. — *Urceolaria gibbosa* Ach.; thallus K —. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 30) et orientali (Japonia, *Lich. Jap.* p. 47). — Etiam in Europa.

1472. **L. subdepressa** Nyl. *Lich. Pyren.-Orient.* pp. 21 et 34 et *Lich. Fr. Behr.* p. 30, ubi definitur. = In Asia boreali (Konyambay). — Etiam in Europa.

1473. **L. lusca** Nyl. *Lich. Pyren.-Orient.* p. 34 in notula ac in *Flora* 1887, p. 7, et *Lich. Fr. Behr.* p. 11, ubi definitur. = In Asia boreali (Lawrencebay). — Etiam in Europa.

1474. **L. cæsio-cinerea** Nyl. in *Flora* 1872, p. 364. « Thallus cæsio-cinereus, crassiusculus (crass. circiter 1 millim.), verrucoso-areolatus, inæqualis. Apothecia nigricantia, nuda, innata, plana, latit. 1 millim. vel minora, margine thallino integro vel subintegro cincta, juniora impressa; sporæ simplices, incolores, ellipsoideæ, longit. 0,020-30 et crass. 0,011-16 millim.; paraphyses mediocres. Gelatina hymenialis iodo vinose fulvescens. Spermata recta longit. 0,007-11 et crass. 0,0005-7 millim. » = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 11 et 30). — Etiam in Europa.

— *F. peripterodes* Nyl. *Lich. Fr. Behr.* p. 30, ubi definitur. = In Asia boreali (Konyambay).

1475. *Lecanora mutabilis* Nyl. *Lich. Algér.* p. 324, et *Lich. Lapp. orient.* p. 37, ubi definitur; *Prodr. Lich. Gall.* p. 84; *Enum. Lich.* p. 413; thallus K —. — *Urceolaria mutabilis* Ach. = In Africa boreali (Algeria). — Etiam in Europa.

1476. *L. stygioplaca* Nyl. in *Flora* 1885, p. 443, et *Lich. Fr. Behr.* p. 44, ubi definitur; medulla K flavescit. = In Asia boreali (Lawrencelay).

1477. *L. calcarea* Sommerf., Nyl. *Lich. Scand.* p. 154, ubi definitur; *Enum. Lich.* p. 413. — *Urceolaria calcarea* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 312, *L. cinerea* var. *calcarea* Nyl.; *Quelq. Lich. Algér.* pp. 215 et 216). — Etiam in Europa.

— *F. 1 contorta* Nyl. *Lich. Pyren.-Orient.* p. 37. — *Urceolaria contorta* Flörke. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 29). — In Africa boreali (Algeria, *Flora* 1878, pp. 340 et 345). — In America. — Etiam in Europa.

— *F. 2. opegraphoides* DC., Nyl. in *Flora* 1878, p. 342. = In Africa boreali (Algeria). — Etiam in Europa.

1478. *L. circummunita* Nyl. in *Flora* 1878, p. 340, ubi definitur, et p. 342; thallus K —. = In Africa boreali (Algeria).

1479. *L. farinosa* Nyl. *Lich. Pyren.-Orient.* p. 54 in notula et in *Flora* 1878, p. 248, necnon *Lich. parisiens.* n° 127; *L. calcarea* f. *farinosa* Nyl. *Lich. Ægypt.* p. 5; *Enum. Lich.* p. 413. — *Urceolaria contorta* var. *farinosa* Flörke. = In Africa boreali (Ægypto). — Etiam in Europa.

1480. *L. subdissentiens* Nyl. in *Flora* 1884, p. 242, et *Lich. Fr. Behr.* p. 30, ubi definitur; thallus K leviter flavet. = In Asia boreali (Konyambay).

1481. *L. lacustris* Nyl. *Lich. Scand.* p. 155 et *Lich. Lapp. orient.* p. 437, ubi definitur. — *Lichen lacustris* With.; thallus K —. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 41 et 57), orientali (Japonia, *Lich. Jap.* p. 47, ubi sporæ definiuntur) et meridionali (mont. Himalaya, ubi adest forma peculiaris in *Lich. Scand.* p. 155 definita). — Etiam in Europa.

— *F. 1. diamartoides* Nyl.; *L. epulotica* f. *diamartoides* Nyl. in *Flora* 1869, p. 298, ubi definitur; apud Hue *Addend. Lichenogr. europ.* p. 411. = In America boreali (Groenlandia).

— *F. 2. subepulotica* Nyl. apud Hue *Addend. Lichenogr. europ.* p. 411 (ibi errore scribitur 1886 loco 1865). — *Lecidea subepulotica* Nyl. in *Flora* 1865, p. 4 in notula, et *Enum. Lich. Supplém.* p. 337. = In America boreali (Nova Anglia). — Etiam in Europa boreali (Islandia).

1482. *L. incolorella* Nyl. *Lich. Jap.* p. 48, ubi definitur. = In Asia orientali (Japonia).

1483. *L. rhodopis* Nyl. *Lich. Fr. Behr.* p. 31; *L. Acharii* var. *rhodopis* Sommerf., Nyl. *Lich. Scand.* p. 155. = In Asia boreali (Konyambay). — Etiam in Europa.

— *F. melanopis* Sommerf., Nyl. *Lich. Fr. Behr.* p. 31. = In Asia boreali (Konyambay). — Etiam in Europa.

1484. *L. schismatopis* Nyl. in *Flora* 1884, p. 213, et *Lich. Fr. Behr.* p. 31, ubi definitur. = In Asia boreali (Konyambay).

1485. *L. suaveolens* Nyl. *Lich. Scand.* p. 155, ubi definitur. — *Urceolaria suaveolens* Ach. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 70). — Etiam in Europa.

1486. *L. rhodopiza* Nyl. *Lich. Jap.* p. 47, ubi definitur; thallus K —. = In Asia orientali (Japonia).

1487. *L. Dicksonii* Nyl. *Lich. Scand.* p. 155 et *Lich. Lapp. orient.* p. 437, ubi definitur. — *Lecidea Dicksonii* Ach. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 31). — In America boreali (Groenlandia, *Flora* 1862, p. 82). — Etiam in Europa.

1488. *L. rhætica* Hepp, Arn. *Exsicc.* 417. = In Europa.



— Var. **hyperborea** Nyl. in *Flora* 1862, p. 82, ubi definitur. = In America boreali (Groenlandia).

1489. **Lecanora cinereo-rufescens** Nyl. *Lich. Scand.* p. 154 et *Lich. Lapp. orient.* p. 137, ubi definitur; *L. cinerea* var. *cinereo-rufescens* Nyl. *Enum. Lich.* p. 113. — *Urceolaria cinereo-rufescens* Ach. pr. p.; thallus K—, medulla I+, *Flora* 1870, p. 33. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* pp. 31 et 57). — Etiam in Europa.

— F. **diamarta** (Wahlenb.) Nyl. *Lich. Lapp. orient.* p. 137, ubi definitur; *L. cinerea* f. *diamarta* Nyl. *Lich. Scand.* p. 153, ubi definitur; *Enum. Lich.* p. 113. = In Asia (mont. Himalaya, ubi lecta fuit a cel. J. D. Hooker forma in *L. Dicksonii* transiens, Nyl. *Lich. Scand.* p. 155). — Etiam in Europa.

1490. \* **L. critica** Nyl. in *Flora* 1864, p. 290, et *Lich. Lapp. orient.* p. 138, ubi definitur; thallus K—. = In Asia boreali (Behring insula, *Lich. Fr. Behr.* p. 57). — Etiam in Europa (Lapponia).

1491. **L. alpina** Sommerf., Nyl. in *Flora* 1869, p. 413, ubi definitur; thallus K ferrugineo-rubet et illius medulla I+. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 31). — Etiam in Europa.

1492. **L. complanata** Koerber, Nyl. in *Flora* 1879, p. 355, ubi definitur. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 57). — Etiam in Europa.

1493. **L. verrucosa** Laur., Nyl. *Lich. Scand.* p. 156 et *Lich. Lapp. orient.* p. 138, ubi definitur; *Enum. Lich.* p. 113. — *Urceolaria verrucosa* Ach.; thallus K—. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 20). — Etiam in Europa.

1494. **L. esculenta** Eversman, Nyl. *Prodr. Lich. Gall.* p. 83, ubi definitur; *Enum. Lich.* p. 113. — *Lichen esculentus* Pallas. — *Chlorangium Jussufii* Link, Nyl. in *Flora* 1858, p. 499, ubi definitur. = In Asia occidentali (Palestina; Persia). — In Africa boreali (Algeria, *Lich. Algér.* p. 312).

— F. **affinis** Nyl. *Prodr. Lich. Gall.* p. 84; *Lecanora affinis* Eversm. = In Asia.

1495. **L. fruticulosa** Eversm., Nyl. in *Flora* 1881, p. 183; *L. esculenta* var. *fruticulosa* Nyl. *Prodr. Lich. Gall.* p. 84, ubi definitur; *Enum. Lich.* p. 113. = In Africa boreali (Algeria). — Etiam in Europa (Rossia).

1496. **L. amphorella** Nyl. in *Flora* 1858, p. 380, ubi definitur; *Enum. Lich.* p. 113. = In America tropica (Mexico).

1497. **L. cinereo-virens** Eschw., Nyl. *Enum. Lich.* p. 113 et *Supplém.* p. 336. = In America tropica (Mexico, *Flora* 1858, p. 380) et meridionali.

1498. **L. subeducta** Nyl. in *Flora* 1885, p. 440, et *Lich. Fr. Behr.* p. 57, ubi definitur; thallus CaCl erythrinice reagit et illius medulla I+. = In Asia boreali (Behring insula).

1499. **L. Prevostii** Nyl. *Lich. Fr. Behr.* p. 31. — *Gyalecta Prevostii* Fr. — *Lecidea epulotica* var. *Prevostii* Nyl. *Lich. Scand.* p. 189; *Lecidea Prevostii* Schær., Nyl. *Prodr. Lich. Gall.* p. 103, ubi definitur; *Enum. Lich.* p. 119. = In Asia boreali (Konyambay). — Etiam in Europa.

1500. **L. ochromicra** Nyl. in *Flora* 1885, p. 602, et *Lich. Fr. Behr.* p. 69, ubi definitur. — *Jonaspis ochromicra* Th. Fr. = In America boreali (Port-Clarence).

1501. **L. quadruplans** Nyl. in *Flora* 1885 et *Lich. Fr. Behr.* locis citat., ubi definitur. = In America boreali (Port-Clarence).

1502. **L. coarctata** Ach., Nyl. *Lich. Algér.* p. 311 et in *Flora* 1886, p. 101, atque in hoc posteriore loco spermatia definiuntur. — *Lecidea coarctata* Nyl. *Prodr. Lich. Gall.* p. 112 et *Lich. Scand.* p. 196, ubi definitur; *Enum. Lich.* p. 122; *Flora* 1876, p. 235; thallus CaCl erythrinice reagit. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 12). — In Africa boreali (Algeria). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 553; Peruvia, *Lich. exot.* p. 224). — Etiam in Europa.

— Var. 1. **cotaria** Nyl. *Lich. Algér.* p. 311 et *Lich. N. Zeland.* 1888, p. 66, et in hoc posteriore loco definitur. — *Lecidea cotaria* Ach.; *Lecidea coarctata* var. *cotaria* Nyl. *Prodr. Lich. Gall.* p. 112. = In Africa boreali (Algeria). — In Oceania (Nova Zelandia). — Etiam in Europa.

— Var. 2. **elacista** Nyl. — *Parmelia elacista* Ach. — *Lecidea coarctata* var. *elacista* Nyl. *Prodr. Lich. Gall.* p. 112, ubi definitur. = In America meridionali (Chili, *Addit. Fl. chil.* p. 184). — Etiam in Europa.

— Var. 3. **exposita** *Lich. N. Zeland.* 1888, p. 66, ubi definitur. — *Lecidea coarctata* var. *exposita* Nyl. in *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 254, ubi definitur. = In Oceania (Nova Zelandia).

1503. **Lecanora ornata** Sommerf. — *Lecidea coarctata* var. *ornata* Nyl. *Prodr. Lich. Gall.* p. 112 et in *Flora* 1878, p. 451, ubi definitur. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 57). — Etiam in Europa.

1504. **L. thelotremoides** Nyl. *Lich. N. Zeland.* 1888, p. 64, ubi definitur; thallus K flavescit. Hæc species ad interim in hac stirpe disponitur. = In Oceania (Nova Zelandia).

#### 16. — Stirps *Lecanoræ cervinæ* Nyl.

Sporæ simplices, parvulæ, in thecis myriosporis; spermatia minuta oblongo-ellipsoidea, sterigmatibus simplicibus infixa.

##### A. — *Species citrinæ quarum thallus* K —, Nyl. in *Flora* 1866, p. 234.

1505. **L. chlorophana** Ach., Nyl. *Lich. Scand.* p. 173, ubi definitur; *Enum. Lich.* p. 112. — *Parmelia chlorophana* Wahlenb. = In Asia. — In America meridionali (Bolivia, ubi viget forma peculiaris in *Lich. And. Boliv.* p. 379 definita). — Etiam in Europa.

1506. **L. xanthophana** Nyl. *Lich. And. Boliv.* p. 379, ubi definitur; *Enum. Lich.* p. 113; *L. bella* Nyl. *Addit. Fl. chil.* p. 156, ubi definitur. = In Africa meridionali (promont. Bonæ Spei, *Acarospora thæodes* Mass. *Lich. capens.* p. 55) et occidentali (Angolæ, *Lich. Angol.* p. 513). — In America septentrionali, *L. chrysops* Tuck., et meridionali (Nova Granata, *Flora* 1864, p. 619, et *Prodr. Fl. N. Gran. Addit.* p. 545; Bolivia; Chili et in Cordilleris d'Elqui ubi lecta fuit forma peculiaris in Museo parisiensi asservata).

— **F. terrestris** Nyl. *Lich. And. Boliv.* p. 379, ubi definitur. = In America tropica (Bolivia).

1507. **L. Schleicheri** Nyl. *Prodr. Lich. Gall.* p. 81; *Enum. Lich.* p. 113. — *Urceolaria Schleicheri* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 312). — Etiam in Europa.

— Var. **dealbata** Nyl. *Prodr. Lich. Gall.* p. 81, ubi definitur; *L. dealbata* Nyl. *Enum. Lich.* p. 113. — *Parmelia dealbata* de Notar. = In Africa boreali (Algeria, *Lich. Algér.* p. 312).

— — **F. radicans** Nyl. *Lich. Ægypt.* p. 5, ubi definitur. = In Africa boreali (Ægypto).

1508. **L. tersa** Nyl.; *L. chlorophana* var. *tersa* Fr., Nyl. *Enum. Lich.* p. 113; *L. Schleicheri* var. *microcarpa* Nyl. *Prodr. Lich. Gall.* p. 81, ubi definitur. = In Africa meridionali (Angolæ, *Lich. Angol.* p. 513). — Etiam in Europa (Gallia).

##### B. — *Species cervinæ vel fuscæ.*

1509. **L. ochrophana** Nyl. *Lich. And. Boliv.* p. 379, ubi definitur. = In America tropica (Bolivia).

1510. **L. endocarpea** Nyl. *Lich. Algér.* p. 326 et *Prodr. Lich. Gall.* p. 78, ubi defi-

nitur; *Enum. Lich.* p. 112. — *Parmelia endocarpea* Fr. = In Africa boreali (Algeria). — Etiam in Europa (Hispania).

1511. *Lecanora phylliscum* Nyl. *Addit. Fl. chil.* p. 154, ubi definitur; *Enum. Lich.* p. 112. = In America meridionali (Chili).

1512. *L. molybdina* Ach., Nyl. *Lich. Scand.* p. 173, ubi definitur; *Enum. Lich.* p. 112. = In America septentrionali. — Etiam in Europa.

1513. *L. cervina* Ach., Nyl. *Lich. Scand.* p. 174, ubi definitur; *Enum. Lich.* p. 112. — *Lichen cervinus* Pers. = In Africa boreali (Algeria, *Lich. Algér.* p. 312). — In America. — Etiam in Europa.

— Var. *castanea* Schær., Nyl. *Prodr. Lich. Gall.* p. 79, ubi definitur; *Enum. Lich.* p. 112; *L. cervina* f. *squamulosa* Nyl. *Lich. Algér.* p. 312. Notandum est *Lichenem squamulosum* Sm. esse aliquid omnino incertum. — *Urceolaria castanea* DC. = In Africa boreali (Algeria). — Etiam in Europa.

1514. *L. subcastanea* Nyl. *Lich. N. Zeland.* 1888, p. 145 in notula; *L. cervina* Nyl. *Addit. Fl. chil.* p. 155, ubi definitur; thallus K —, CaCl —. = In America meridionali (Chili).

1515. *L. glaucocarpa* Ach., Nyl. *Lich. Scand.* p. 175 et *Lich. Fr. Behr.* p. 31, ubi definitur. — *Lichen glaucocarpus* Wahlenb. = In Asia boreali (Konyambay). — In Africa boreali (Algeria, *Lich. Algér.* p. 312, *L. cervina* f. *glaucocarpa* Nyl.). — Etiam in Europa.

1516. *L. strigata* Nyl. *Addit. Fl. chil.* p. 155, ubi definitur; *Enum. Lich.* p. 112. = In America meridionali (Chili, et forma peculiaris ex Cordilleris d'Elqui, ibidem definita, in herbario Musei parisiensis asservata).

1517. *L. percænoides* Nyl. in *Flora* 1878, p. 342; *L. castanea* f. *percænoides* Nyl. *Lich. Armor. et Delphin.* p. 399 et in *Bull. Soc. bot. France* 1863, p. 263, et 1864, p. 216, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

1518. *L. interrupta* Ehrenb., Nyl. *Lich. Ægypt.* p. 5, ubi definitur. = In Africa boreali (Ægypto).

1519. *L. placenta* Ehrenb., Nyl. *Lich. Ægypt.* p. 6, ubi definitur. = In Africa boreali (Ægypto).

1520. *L. smaragdula* Nyl. *Lich. Scand.* p. 175, ubi definitur; *L. cervina* var. *smaragdula* Schær.; Nyl. *Enum. Lich.* p. 112. — *Endocarpon smaragdulum* Wahlenb.; thallus CaCl —. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 11, 31 et 49) et orientali (Japonia, *Lich. Jap.* p. 48). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 87). — Etiam in Europa.

1521. *L. discreta* Nyl. *Lich. Fr. Behr.* p. 32; *L. badia* var. *discreta* Ach., Nyl. *Lich. Scand.* p. 176, ubi definitur. = In Asia boreali (Konyambay). — Etiam in Europa.

1522. *L. fuscata* Nyl. *Lich. Scand.* p. 175, ubi definitur; in *Flora* 1881, p. 7, et *Lich. Pyren.-Orient.* p. 34. — *Lichen fuscatus* Schrad; thallus K (CaCl) +. = In Asia boreali (Lawrence insula, *Lich. Fr. Behr.* p. 49). — In Africa boreali (Ægypto, *Lich. Ægypt.* p. 5). — In America tropica (Bolivia, ubi viget forma peculiaris quæ definitur in *Lich. And. Boliv.* p. 379). — Etiam in Europa.

1523. *L. belonioides* Nyl. in *Flora* 1864, p. 490, *Lich. Lapp. orient.* p. 139, in *Flora* 1867, p. 370, atque *Lich. Jap.* p. 48, ubi definitur; thallus CaCl —, K (CaCl) —. = In Asia orientali (Japonia). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 70). — Etiam in Europa.

1524. *L. rufescens* Nyl. in *Flora* 1872, p. 364, et 1879, p. 356, ubi definitur. — *Sagedia rufescens* Ach.; thallus CaCl —. = In Africa boreali (Ægypto, *Flora* 1876, p. 284. — Etiam in Europa.

1525. *L. incolor* Nyl. in *Flora* 1878, p. 340, ubi definitur. = In Africa boreali (Algeria).



17. — *Sarcogyne* Nyl. *Lich. Algér.* p. 337.

Sporæ simplices, incolores, in thecis myriosporis; spermatia ellipsoidea minutissima; sterigmata simplicia apice attenuata.

1526. **Lecanora pruinos**a Nyl. *Lich. Scand.* p. 176 et *Prodr. Lich. Gall.* pp. 79 et 146, ubi definitur; *L. cervina* var. *pruinosa* Nyl. *Enum. Lich.* p. 112. — *Lichen pruinosus* Sm. — *Lecidea pruinos*a Nyl. *Lich. Algér.* p. 332, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

1527. **L. simplex** Nyl. *Prodr. Lich. Gall.* p. 146, ubi definitur; *L. cervina* var. *simplex* Nyl. ibid. p. 79; *Enum. Lich.* p. 112. — *Lichen simplex* Dav., Nyl. *Lich. Scand.* p. 176 et *Sarcogyne simplex* Nyl. *Lich. Algér.* p. 337, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 49). — In Africa boreali (Algeria). — In Oceania (Nova Zelandia, *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 252, atque 1888, p. 66). — Etiam in Europa.

— **F. strepsodina** Nyl. *Lich. Ægypt.* p. 5. — *Opegrapha Persoonii* var. *strepsodina* Ach. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216, *L. cervina* var. *strepsodina* Nyl.; Ægypto).

1528. **L. gibberella** Nyl. *Lich. Jap.* p. 48, ubi definitur. = In Asia orientali (Japonia).

1529. **L. glaucocarpoides** Nyl. in *Flora* 1878, p. 342, ubi definitur. = In Africa boreali (Algeria).

1530. **L. albo-cæsia** Nyl. in *Flora* 1878, p. 340, ubi definitur. = In Africa boreali (Algeria).

18. — Stirps *Lecanoræ Newtonianæ* Henriq.

Sporæ 8<sup>næ</sup> incolores, ellipsoideæ, 3-septatæ; spermatia lageniformia; sterigmata simplicia.

1531. **L. Newtoniana** Henriq., Nyl. *Lich. ins. Guin.* p. 17, ubi definitur; thallus K flavet; K (CaCl) bene rubet. = In Africa occidentali (ins. San Thomé).

19. — Stirps *Lecanoræ Erysibes* Ach.

Sporæ 8<sup>næ</sup> incolores, 1-3 septatæ; spermatia arcuata; sterigmata simplicia.

1532. **L. Erysibe** Nyl. *Lich. Scand.* p. 167 et *Lich. Ægypt.* p. 4, ubi definitur; *Enum. Lich.* p. 114; *Flora* 1881; p. 538. — *Lecidea Erysibe* Ach. = In Africa boreali (Ægypto). — Etiam in Europa.

— **F. luridella** Nyl. *Lich. Jap.* p. 49, ubi definitur. = In Asia orientali (Japonia).

1533. **L. albariella** Nyl. *Lich. Ægypt.* p. 5, ubi definitur. = In Africa boreali (Ægypto).

— **F. subcæsia** Nyl. *Lich. Ægypt.* p. 5 et in *Flora* 1876, p. 283, ubi definitur, = In eadem regione.

1534. **L. erysibopsis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 63, ubi definitur. = In Asia orientali (China).

1535. **L. pinguuscula** Delile, Nyl. *Lich. Ægypt.* p. 5 et in *Flora* 1876, p. 283, ubi definitur. = In Africa boreali (Ægypto).

1536. **L. athroodes** Nyl. in *Flora* 1876, p. 283, ubi definitur. = In Africa boreali (Ægypto).

— Var. **extrita** Nyl. in *Flora* 1876, p. 283, ubi definitur. = In eadem regione.

1537. **L. platygraphoides** Nyl. *Enum. Lich.* p. 115. « Thallus albido-griseus, areolato-

granulosus, subdispersus vel passim agglomeratus, opacus; apothecia nigra, innata, opaca (latit. 0,5 millim.), plana vel convexiuscula, intus pallida tota; sporæ 8<sup>ae</sup> incolores, oblongæ vel oblongo-ellipsoideæ, uni-septatæ, longit. 0,010-13, crass. 0,004 millim.; paraphyses mediocres obsolete articulatae. Gelatina hymenialis iodo cœrulescit. Facie fere *Lecanoræ exiguæ*. Forsan e stirpe *L. athroocarpæ* Dub. » = In Africa boreali (Ægypto « Upper part of Pyramid of Ghizeh. » Legit D<sup>r</sup> Hooker). In Nyl. *Enum. Lich.* p. 115 errore indicatur India orientalis pro hujus speciei patria.

20. — Stirps *Lecanoræ sulphureo-fuscæ* Fée.

Sporæ 1-2 in thecis, incolores, 1-septatæ.

1538. **Lecanora sulphureo-fusca** Fée, Nyl. *Lich. exot.* p. 220 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 32 et ed. 2<sup>a</sup> p. 33, ubi definitur; *Enum. Lich.* p. 114. = In America meridionali (Nova Granata; Peruvia).

1539. **L. sulphureo-rufa** Nyl. *Syn. Lich. N. Caled.* p. 30, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

1540. **L. albo-atrata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 32 et tab. 1, fig. 5, ed. 2<sup>a</sup> p. 35 ac *Addit.* p. 545, ubi definitur; thallus K flavescit. = In America tropica (Nova Granata).

21. — Stirps *Lecanoræ rubræ* Ach.

Sporæ 8<sup>ae</sup> incolores, 3-septatæ.

1541. **L. rubra** Ach., Nyl. *Lich. Scand.* p. 171, ubi definitur; *Enum. Lich.* p. 115. = In Africa boreali (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 92). — Etiam in Europa.

— F. **obpallens** Nyl. *Lich. Fr. Behr.* p. 20, ubi definitur. = In Asia boreali (Konyambay).

22. — Stirps *Lecanoræ dactylopholis* Nyl.

Sporæ 8<sup>ae</sup> incolores, aciculari-bacillares 3-septatæ.

1542. **L. dactylopholis** Nyl. in *Flora* 1886, p. 172, et *Contrib. da Fl. d'Afric.* p. 6 atque *Lich. ins. Guin.* p. 18, ubi definitur; thallus K (CaCl) leviter erythrinice reagit. = In Africa occidentali (ins. San Thomé).

23. — Stirps *Lecanoræ ventosæ* Ach.

Sporæ 8<sup>ae</sup> incolores) 3-7-septatæ; spermata recta; sterigmata simplicia.

1543. **L. rhypariza** Nyl. *Lich. Scand.* p. 169, *Lich. Lapp. orient.* p. 134 et in *Flora* 1862, p. 83, ubi definitur; sporæ simplices vel obsolete 2-3 septatæ. = In America boreali (Groenlandia). — Etiam in Europa boreali.

— Var. **castanella** Nyl. in litt.; *L. rhypariza* var. *castanea* Nyl. *Lich. Lapp. orient.* p. 134, ubi definitur. — *Biatora castanea* Hepp. Hoc nomen mutatum fuit, utpote jam a divo Schærerer adhibitum, cfr. supra n<sup>o</sup> 1513. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 8). — Etiam in Europa.

1544. **L. erythromma** Nyl. in *Flora* 1862, p. 83 in notula et *Lich. ins. Guin.* p. 44, ubi

definitur; *Lich. Lapp. orient.* p. 140 in notula. Thallus K flavus tingitur et apothecia K violascunt. = In America australi (ins. Maclovianis).

1545. **Lecanora ventosa** Ach., Nyl. *Lich. Scand.* p. 172 et *Lich. Lapp. orient.* p. 140, ubi definitur; *Enum. Lich.* p. 115; epithecium K purpurascit. = In Asia boreali (Sibiria, *Lich. Middend.* p. 4; Lawrencebay, *Lich. Fr. Behr.* pp. 8 et 11). — In America septentrionali (Mexico, *Flora* 1858, p. 380). — Etiam in Europa.

1546. **L. punicea** Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 32 et tab. I, fig. 7, ed. 2<sup>a</sup> p. 35, *Nov. Caled. Lich. Exposit.* p. 45 et *Syn.* p. 30 atque *Lich. Lapp. orient.* p. 140 in notula, ubi definitur; *Enum. Lich.* p. 115; epithecium K + violacee tingitur vel purpurascit. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 53). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 257) et occidentali (ins. San Thomé, *Flora* 1886, p. 172, et *Contrib. da Fl. d'Afric.* p. 6 et *Lich. ins. Guin.* p. 48). — In America tropica (Mexico *Flora* 1858, p. 380; ins. Guadalupa, *Lich. Antill.* p. 11; Nova Granata; Peruvia, *Lich. exot.* p. 220; Chili, *Addit. Fl. chil.* p. 183) et australi (Fuegia, *Lich. Fueg.* p. 10). — In Oceania (ins. Java, *Flora* 1866, p. 131; Australia, *Flora* 1886, p. 324; Taïti, *Lich. exot.* p. 241; Nova Caledonia, *Flora* 1867, p. 195; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 252, et 1888, p. 66, ubi sporæ definiuntur). — Etiam in Europa (Gallia occidentali, *Flora* 1862, p. 464 in notula).

— Var. **rufo-pallens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 546, ubi definitur. = In America tropica (Nova Granata).

1547. \* **L. rufidula** Fée, Nyl. *Lich. exot.* p. 220 et *Prodr. Fl. N. Gran. Addit.* p. 546, ubi definitur; *Enum. Lich.* p. 115; *Lich. Lapp. orient.* p. 140 in notula, epithecium K —. = In America tropica (Peruvia).

1548. **L. hæmatomma** Ach., Nyl. *Lich. Scand.* p. 172 et *Syn. Lich. N. Caled.* p. 30, ubi definitur; *Enum. Lich.* p. 115; *Lich. Lapp. orient.* p. 140 in notula, epithecium K purpurascit. = In America. — Etiam in Europa.

1549. **L. Babingtonii** Nyl. *Syn. Lich. N. Caled.* p. 30, ubi definitur. — *Hæmatomma Babingtonii* Mass.; epithecium K cærulee tingitur. = In Oceania (Nova Caledonia).

1550. **L. ochrophæa** Nyl. *Lich. Jap.* p. 49 et *Syn.* I, tab. I, fig. 24, ubi definitur; *Enum. Lich.* p. 115. — *Biatora ochrophæa* Tuck.; epithecium K —, *Lich. Lapp. orient.* p. 140 in notula. = In Asia orientali (Japonia). — In America boreali (Nova Anglia).

Incertæ sedis.

1551. **L. lithagoga** Nyl. *Lich. Angol.* p. 512, ubi definitur; thallus K nonnihil flavescit. = In Africa occidentali (Angola).

Gen. LXXXVI. — **Glypholecia** Nyl. *Lich. Algér.* p. 326.

1552. **G. candidissima** Nyl. *Lich. algeriens.* p. 317, *Lich. Algér.* p. 327 et *Prodr. Lich. Gall.* p. 94, ubi definitur; *Enum. Lich.* p. 116. = In Africa boreali (Algeria).

1553. **G. rhagadiosa** Nyl. *Prodr. Lich. Gall.* p. 194, ubi definitur; *Enum. Lich.* p. 116. — *Lecanora rhagadiosa* Ach. *Syn. Lich.* p. 164. — *Lauriella grumulosa* Hepp *Flecht. europ.* n° 772. = In America septentrionali (territorio Montana, Missonia river, legit Williams, 1889, supra saxa arenaria, Nyl. in litt.). — Etiam in Europa.

Gen. LXXXVII. — **Dirina** Fr.

1554. **D. repanda** Nyl. *Prodr. Lich. Gall.* p. 97, ubi definitur; *Lich. Algér.* p. 313 et



*Enum. Lich.* p. 116. — *Parmelia repanda* Fr. = In Asia (India). — In Africa boreali (Algeria). — Etiam in Europa.

1555. **Dirina capensis** Fée, Nyl. *Enum. Lich.* p. 116. = In Africa meridionali (promont. Bonæ Spei).

1556. **D. limitata** Nyl. *Addit. Fl. chil.* p. 158, ubi definitur; *Enum. Lich.* p. 116; thallus CaCl erythrinice reagit. = In America meridionali (Chili).

1557. **D. niponica** Nyl. *Lich. Jap.* p. 50, ubi definitur; thallus CaCl —. = In Asia orientali (Japonia).

1558. **D. chilena**. Nyl. *Lich. N. Zeland.* 1888, p. 147 in notula. — *Opegrapha dirinoides* Nyl. *Addit. Fl. chil.* p. 168, ubi definitur; thallus CaCl erythrinice tingitur. = In America meridionali (Chili).

Gen. LXXXVIII. — **Amphiloma** Nyl.

Vetus illud genus a cel. Nylander pluries emendatum fuit; in ejus *Synopsi Lichenum* II, p. 52, duæ huic generi attribuuntur species, scilicet *Amphiloma lanuginosum* Nyl. atque *A. gossypinum* Nyl. Prius in *Flora* 1883, p. 107 *Leproloma lanuginosum* Nyl., posterius autem in *Lichenibus Japoniæ* p. 59 *Crocynia gossypina* Ach. evadit. Nunc genus *Amphiloma* unicam speciem includit, et apotheciis rite lecanorinis a genere *Crocynia* differt.

1559. **A. cineritium** Nyl. in litt. — *Parmelia cineritia* Ach. *Syn. Lich.* p. 201. — *Amphiloma gossypinum* var. *cineritium* Nyl. *Syn.* II, p. 53, tab. IX, fig. 2, ubi pro parte definitur. — *Parmelia gossypina* Mont. *Cryptog. guyan.* n° 95; thallus K —. = In America tropica (ins. S. Domingo; Guyana).

Subtrib. II. — **Pertusariei**.

Gen. LXXXIX. = PERTUSARIA DC.

A. — *Species quibus normaliter 1-2 sporæ sunt in thecis.*

1560. **P. bryontha** Nyl. *Lich. Scand.* p. 178, ubi definitur; in *Flora* 1881, p. 538. — *Lecanora bryontha* Ach.; thallus K flavet et soredia CaCl erythrinose reagunt. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 8 et 21). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 64). — Etiam in Europa.

1561. **P. panyrga** Nyl. in *Flora* 1885, p. 603 in notula, et *Lich. Fr. Behr.* p. 64, ubi definitur. — *Urceolaria panyrga* Ach., Nyl. *Lich. Scand.* p. 156, ubi definitur; thallus K —. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 9 et 54). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 64 et 68 in notula). — Etiam in Europa.

1562. **P. dactylina** Nyl. *Lich. Lapp. orient.* p. 140, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 et ed. 2<sup>a</sup> p. 36 in notulis, ubi definitur. — *Lichen dactylinus* Ach. Papillæ thalli apice K lutescunt. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 8 et 21). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 64, ubi datur reactio æque ac in *Flora* 1885, p. 603, et p. 68 in notulis). — Etiam in Europa.

1563. **P. subdactylina** Nyl. in *Flora* 1885, p. 603, et *Lich. Fr. Behr.* p. 64, ubi definitur; thalli tubercula K violascunt. = In America boreali (Port-Clarence).

1564. **P. velata** Nyl. *Lich. Scand.* p. 179 et *Syn. Lich. N. Caled.* p. 31, ubi definitur. — *Lichen velatus* Sm. — *Parmelia velata* Turn. — *Lecanora pilulifera* Pers. — *Pertusaria pilulifera* Nyl. *Enum. Lich.* p. 116; thallus CaCl erythrinose reagit. = In Asia meridionali

(ins. Andaman, *Lich. Andam.* p. 7). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 257) et occidentali (ins. San Thomé, *Flora* 1886, p. 173, *Contrib. da Fl. d'Afric.* p. 8 et *Lich. ins. Guin.* p. 25). — In America utraque calida (Mexico, *Flora* 1858, p. 380; ins. Guadalupa, *Lich. Antill.* p. 12; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 546, ubi sporæ definiuntur, et in hujus operis indice hæc vocatur *P. vaginata*). — In Oceania (ins. Java, *Flora* 1866, p. 132; ins. Marianis, *Lich. exot.* p. 241; in ins. Nukahiva viget forma peculiaris ibidem definita; Nova Caledonia, *Flora* 1867, p. 195; *Clausaria fallens* Nyl. in *Exposit. Lich. N. Caled.* p. 45 definita, est status atypicus hujus speciei, quæ ibidem quoque indicatur). — Etiam in Europa (Gallia occidentali, *Lich. Scand.* p. 179, Lusitania et Anglia, *Flora* 1860, p. 546).

— F. 1. **sublævata** Nyl. *Lich. N. Zeland.* 1888, p. 67, ubi definitur. = In America tropica (Carolina). — In Oceania (Nova Zelandia).

— F. 2. **perdiffracta** Nyl. *Lich. Jap.* p. 56, ubi definitur; thallus CaCl erythrinose tingitur. = In Asia orientali (Japonia).

— F. 3. **peralbata** Nyl. *Lich. Jap.* p. 56, ubi definitur. = In Asia orientali (Japonia).

— Var. **punctella** Nyl.; *P. pilulifera* var. *punctella* Nyl. *Enum. Lich. Supplém.* p. 336. = In America boreali (Nova Anglia).

1565. **Pertusaria obvelata** Nyl. *Lich. N. Zeland.* 1888, p. 66, ubi definitur; *P. velata* Nyl. *Lich. N. Zeland.* 1861, p. 253, et *Flora* 1865, p. 338, ubi sporæ definiuntur; thallus K —, CaCl —. = In Oceania (Nova Zelandia).

1566. **P. amara** Nyl. in *Flora* 1873, p. 22, et apud Hue *Addend. Lichenogr. europ.* p. 119. — *Variolaria amara* Ach. *Syn. Lich.* p. 131, Nyl. *Prodr. Lich. Gall.* p. 98; soredia K flavent et K (CaCl) violacee tinguntur. = In Asia orientali (Japonia, *Lich. Jap.* p. 55). — Etiam in Europa (in Gallia occidentali lecta fuit fructifera).

1567. **P. subvaginata** Nyl. in *Flora* 1864, p. 618; *Lich. Jap.* p. 55; *P. multipuncta* f. *vaginata* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 546, ubi definitur. Illius apothecia K (CaCl) = erythrinice reagent. = In America tropica (ins. Cuba, *Flora* 1866, p. 290, ubi sporæ definiuntur; Nova Granata).

1568. **P. multipuncta** Nyl. *Lich. Scand.* p. 179 et *Lich. Jap.* p. 55, ubi definitur; *Flora* 1880, p. 393, et 1883, p. 534; thallus K —, CaCl —, I obscure cærulescenti-reagit, sed in *Flora* 1886, p. 326, dicitur I —. — *Lichen multipunctus* Sm. — *Variolaria multipuncta* Turn. = In Asia orientali (Japonia). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 et ed. 2<sup>a</sup> p. 35, ubi sporæ definiuntur, atque *Addit.* p. 546). — In Oceania (Australia). — Etiam in Europa.

1569. **P. submultipuncta** Nyl. *Lich. Jap.* p. 55, ubi definitur; thallus K † flave vel flavo-aurantiaceo tingitur. = In Asia orientali (Japonia).

1570. **P. variolina** Nyl. *Lich. Jap.* p. 56, ubi definitur; thallus K extus intusque bene flave reagit. = In Asia orientali (Japonia).

1571. **P. globulifera** Nyl. *Enum. Lich.* p. 116; *P. multipuncta* var. *globulifera* Nyl. *Lich. Scand.* p. 180, ubi definitur. — *Variolaria globulifera* Turn.; thallus K —, CaCl —. = In Asia. — In America septentrionali (Mexico, *Flora* 1858, p. 380) et meridionali (Chili, *Addit. Fl. chil.* p. 183). — Etiam in Europa.

— F. **glaucomopsis** Nyl. *Lich. N. Zeland.* 1888, p. 67, ubi definitur; thallus K —, CaCl —. = In Oceania (Nova Zelandia).

1572. **P. dealbata** Nyl. *Lich. Scand.* p. 180, ubi definitur. — *Lichen dealbatus* Ach., thallus K flavet et I leviter cærulescit, *Flora* 1880, p. 390. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 et ed. 2<sup>a</sup> p. 36). — Etiam in Europa.

1573. **P. subverrucosa** Nyl. *Lich. N. Zeland.* 1861, p. 253 in notula, et 1888, p. 67,

ubi definitur; *Enum. Lich.* p. 116. — *Parmelia verrucosa* Bab.; thallus K ferrugineo rubet. = In Oceania (Nova Zelandia).

1574. **Pertusaria leucosoroides** Nyl. *Lich. Jap.* p. 56, ubi definitur; thallus et soredia K flavescunt. = In Asia orientali (Japonia).

1575. **P. communis** DC., Nyl. *Lich. Scand.* p. 178, ubi definitur; *Enum. Lich.* p. 116; *Lich. Pyren.-Orient.* p. 35, thallus K extus parum lutescit, intus aurantiacus fit; *Lich. Fr. Behr.* p. 87, epithecium ubi sunt nigricantia K violacee tinguntur. = Cosmopolita. In Asia meridionali (Bengalia, *Flora* 1869, p. 70). — In Africa boreali (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 97). — In America boreali (Port-Clarence). — Etiam in Europa.

— Var. 1. **neo-caledonica** Nyl. *Syn. Lich. N. Caled.* p. 31, ubi definitur, et in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

— Var. 2. **granulata** Eschw., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 36. Vix differt a *P. albidella* Nyl., infra n° 1592. = In America tropica.

1576. **P. subcommunis** Nyl. *Lich. N. Zeland.* 1888, p. 67, ubi definitur; *P. communis* Nyl. *Lich. N. Zeland.* 1861, p. 252, ubi sporae definiuntur. Thallus K —. = In Oceania (Nova Zelandia).

1577. **P. pachyplaca** Nyl. *Lich. ins. Guin.* p. 52 et *Lich. Jap.* p. 50, ubi definitur; thallus K e flavo ferruginose tingitur, intus K —. = In Asia orientali (Japonia).

1578. **P. rhagadoplaca** Nyl. *Lich. Jap.* p. 50, ubi definitur; thallus K extus intusque e flavo aurantiaco tingitur vel ferruginascit. = In Asia orientali (Japonia).

1579. **P. astomoides** Nyl. *Lich. Jap.* p. 51, ubi definitur; thallus K extus flavescit, intus —. = In Asia orientali (Japonia).

1580. **P. obducens** Nyl. in *Flora* 1868, p. 162, ubi definitur; thallus K e late flavo in cinnabarino-flavum mutatur. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 9 et 21). — Etiam in Europa boreali.

1581. **P. subobducens** Nyl. in *Flora* 1884, p. 221, et *Lich. Fr. Behr.* p. 21, ubi definitur; thallus K  $\mp$  flavet. = In Asia boreali (Konyambay). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 64).

1582. **P. subobductans** Nyl. *Lich. Jap.* p. 52, ubi definitur; thallus K flavet et cito cinnabarinus evadit. = In Asia orientali (Japonia).

1583. **P. pustulata** Nyl. *Prodr. Lich. Gall.* p. 194, ubi definitur; *Enum. Lich.* p. 116; in *Flora* 1881, p. 450, et 1886, p. 466. — *Porina pustulata* Ach. — *Pertusaria melaleuca* Dub., Nyl. *Prodr. Lich. Gall.* p. 90, et *Enum. Lich.* p. 116, nam specie non differt a *P. pustulata* Ach., Nyl. *Lich. Jap.* p. 51. Thallus K flavet et K (CaCl) aurantiaco tingitur. = In Asia orientali (Japonia). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 32 et ed. 2<sup>a</sup> p. 35, ubi sporae definiuntur, atque *Addit.* p. 547; Bolivia, *Lich. exot.* p. 220, *P. melaleuca* Dub.). — In Oceania (Australia, *Lich. N. Zeland.* 1861, p. 253 in notula). — Etiam in Europa.

— Var. **schizostoma** Nyl. *Enum. Lich. Supplém.* p. 336. = In America septentrionali (Nova Anglia).

1584. \* **P. punctata** Nyl. *Syn. Lich. N. Caled.* p. 32 et *Lich. Jap.* p. 51 in notula, ubi definitur; apothecia K (CaCl) —, non specie differt a praecedente. = In Asia meridionali (montibus Nilgherrensibus).

1585. **P. Wilmsii** Stizenb. *Lich. afric.* p. 140; Nyl. *Lich. Jap.* p. 51 in notula, ubi definitur; thallus K vix flavescit, K (CaCl) —. = In Africa meridionali (promontorio Bonae Spei).

1586. **P. subpustulata** Nyl. *Lich. Jap.* p. 51, ubi definitur; *Lich. ins. Guin.* p. 52; thallus K —, CaCl —. = In Asia orientali (Japonia).

1587. **P. denotanda** Nyl. *Lich. Jap.* p. 53, ubi definitur; *Lich. ins. Guin.* p. 52; thallus K  $\frac{1}{2}$  dilute flavet, K (CaCl) vix mutatur. = In Asia orientali (Japonia).



1588. **Pertusaria diffidens** Nyl. *Lich. Jap.* p. 52, ubi definitur; thallus K extus intusque leviter flavet. = In Asia orientali (Japonia).

1589. **P. subrugosa** Nyl. *Lich. Jap.* p. 52, ubi definitur; thallus K flavescit, K (CaCl) aurantiaco reagit. = In Asia orientali (Japonia).

1590. **P. concreta** Nyl. in *Flora* 1876, p. 233, ubi definitur; *Enum. Lich.* p. 117; *P. Westringii* Nyl. *Lich. Pyren.-orient.* p. 35; thallus K  $\frac{+}{-}$  e flavo mox croceus rubens evadit, quæ reactio perperam negatur in *Flora* 1868, p. 162. = In America boreali (Terra Nova). — Etiam in Europa.

1591. **P. subcorallina** Nyl. in *Flora* 1869, p. 121, ubi definitur; thallus K nonnihil flavescit. = In America tropica (Brasilia).

1592. **P. albidella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 et ed. 2<sup>a</sup> p. 36 atque *Syn. Lich. N. Caled.* p. 32, ubi definitur; thallus K —. = In America tropica (Nova Granata).

1593. **P. porinella** Nyl. *Syn. Lich. N. Caled.* p. 32, ubi definitur; *Prodr. Fl. N. Gran.* locis citat.; thallus K flavescit. = In America tropica (Mexico).

1594. **P. pycnothelia** Nyl. *Syn. Lich. N. Caled.* p. 31, ubi definitur; thallus K  $\frac{+}{-}$  flavescit. = In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

1595. **P. thelocarpoides** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 546, ubi definitur; thallus K —, CaCl  $\frac{+}{-}$ . = In America tropica (Nova Granata, *Flora* 1864, p. 617).

1596. **P. Wawreanoides** Nyl. apud Cromb. *Lich. capens.* p. 174, ubi definitur; thallus K e flavo cinnabarino-rubet. = In Africa meridionali (promont. Bonæ Spei).

1597. **P. subdealbata** Nyl. apud Cromb. *Lich. capens.* p. 175, ubi definitur; thallus K  $\frac{+}{-}$  e flavo cinnabarino rubet. = In Africa meridionali (promont. Bonæ Spei).

1598. **P. albido-pallens** Nyl. *Lich. Fueg.* p. 22, ubi definitur; thallus K e flavo ferrugineo-rubet. = In America australi (Cap Horn).

1599. **P. aleianta** Nyl. apud Cromb. *Challeng. exped.* p. 213, ubi definitur; thallus K (CaCl) —; sporæ 2-4<sup>ae</sup>. = In Africa occidentali (Arsenario promontorio, seu capite Viridi).

1600. **P. rhexostoma** Nyl. *Enum. Lich. Supplém.* p. 336. « Thallus albus, tenuissimus, lævigatus, subepiphloeodes; apothecia innata parva extus prominentis convexiusculis apice demum apertis et concentrice ter-quinquies diffissis oblecta, epithecio nigricante, hymenio depresso; sporæ 1-2 in thecis, longit. 0,065-125, crass. 0,040-52 millim., paraphyses gracilentæ articulatae. Gelatina hymenialis et præsertim thecæ iodo intensive cærulescentes. Facie *Thelotrematis deliscentis* Nyl., sed epithecio magis superficiali, ostiolo thallino magis conspicuo, sphinetrine rimoso. Species maxime singularis et vix nisi sporis huc directa. Comparetur *P. phlyctænula* Nyl., infra n° 1667. » = In America septentrionali, ubi corticola viget.

1601. **P. cæsio-alba** Nyl. *Enum. Lich.* p. 116; *Addit. Fl. chil.* p. 160; *P. pruinosa* Krempelh. — *Phlyctis cæsio-alba* Flot. = In Asia. — In Africa. — Etiam in Europa meridionali.

1602. **P. microcarpa** Nyl. *Lich. ins. Guin.* p. 44, ubi definitur. — *Lecanora microcarpa* Nyl. *Enum. Lich.* p. 113; thallus K =. = In America australi (ins. Maclovianis).

B. — *Species quibus 4-8 sporæ normaliter sunt in thecis.*

1603. **P. leioplaca** Schær., Nyl. *Lich. Scand.* p. 181, ubi definitur; *Enum. Lich.* p. 117. — *Porina leioplaca* Ach.; *Porina depressa* Fée; *P. Sclerotium* Fée; *P. papillata* Ach. et *P. subcutanea* Ach.; thallus K —, *Lich. Pyren.-Orient.* p. 37. = In Asia orientali (Japonia, *Lich. Jap.* p. 53). — In Africa boreali (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 99), orientali (ins. Borbonia, *Lich. exot.* p. 257) et meridionali (Portu Natali, *Lich. Port Natal* p. 7). — In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Prodr.*

*Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 ac ed. 2<sup>a</sup> p. 36, et etiam forma peculiaris ibidem definita, atque *Addit.* p. 547; Peruvia, *Lich. exot.* p. 220; Brasilia, *Flora* 1869, p. 421). — In Oceania (Australia, *Lich. N. Zeland.* 1861, p. 253 in notula, *Flora* 1886, p. 326 et forma peculiaris definita in *Flora* 1864, p. 326; ins. Taiti, *Lich. exot.* p. 242; archipel. Mendana, *Lich. îles Marquis.* p. 301; Nova Caledonia, *Flora* 1869, p. 495, *Lich. N. Caled. Exposit.* p. 45 et *Syn.* p. 32). — Etiam in Europa.

— Var. 1. **minor** Nyl. *Lich. And. Boliv.* p. 379, ubi definitur. = In America tropica (Bolivia).

— Var. 2. **thelenelloides** Nyl. *Lich. And. Boliv.* p. 380, ubi definitur. = In America tropica (Mexico).

— Var. 3. **octospora** Nyl. *Lich. Scand.* p. 182, atque *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 37, ubi definitur, necnon *Addit.* p. 547. = In Asia orientali (Japonia, *Lich. Jap.* p. 53) et meridionali (Bengalia, *Flora* 1869, p. 70). — In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 7). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 42; Nova Granata). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 70). — Etiam in Europa.

— Var. 4. **pyncocarpa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 37, ubi definitur. = In America tropica (Nova Granata).

— Var. 5. **trypetheliiformis** Nyl. *Lich. N. Caled. Exposit.* p. 45 et *Syn.* p. 32, ubi definitur; *P. trypetheliiformis* Nyl. *Lich. exot.* p. 241 et *Prodr. Lich. N. Caled.* p. 283, ubi definitur; *Enum. Lich.* p. 117. = In Asia meridionali. — In Africa meridionali (Portu Natali, *Lich. Port Natal*, p. 7). — In America tropica (ins. Guadalupa, ubi invenitur forma peculiaris in *Lich. Antill.*, p. 42 definita; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34, ed. 2<sup>a</sup> p. 37 et *Addit.* p. 547; Brasilia, *Flora* 1869, p. 421, ubi sporæ definiuntur). — In Oceania (ins. Taiti; Nova Caledonia, *Flora* 1867, p. 495).

1604. \* **Pertusaria tetrathalamia** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 37, ubi definitur, atque *Addit.* p. 547. — *Trypethelium tetrathalamium* Fée. = In America tropica (Nova Granata).

— F. **emaciata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 81 et ed. 2<sup>a</sup> p. 37, ubi definitur. = In America tropica (Nova Granata).

1605. \*\* **P. rhodiza** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 37, ubi definitur. = In America tropica (Nova Granata).

1606. **P. marginata** Nyl. *Lich. Jap.* p. 53, ubi definitur; *P. leioplaca* var. *marginata* Nyl. *Enum. Lich. Supplém.* p. 336; thallus intus K croceo-aurantiacus evadit. = In America septentrionali (Carolina).

1607. **P. lævis** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 70, ubi definitur. = In Oceania (Nova Zelandia).

1608. **P. Quassixæ** Nyl. *Exposit. Lich. N. Caled.* p. 45, ubi definitur; *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 37; *Enum. Lich.* p. 117. — *Porina Quassixæ* Fée; sporæ 2-4 in thecis. = In America tropica (Brasilia, *Flora* 1869, p. 421). — In Oceania (Australia, ubi reperitur forma peculiaris in *Flora* 1864, p. 268 descripta; Nova Caledonia, *Flora* 1867, p. 495, *P. leioplaca* var. *Quassixæ* Nyl.).

1609. **P. lophocarpa** Koerb., Nyl. in *Flora* 1864, p. 268, ubi definitur. = In Oceania (Australia).

1610. **P. assimilans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 38, ubi definitur. = In America tropica (Mexico; Nova Granata).

1611. **P. peliostoma** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 547 in notula, ubi definitur. — *Porina peliostoma* Ach. = In America tropica.

1612. **P. leioplacella** Nyl. *Syn. Lich. N. Caled.* p. 32 et *Lich. Antill.* p. 42, ubi defini-

tur; thallus K (CaCl) aurantiacus evadit. = In America tropica (ins. Guadalupa). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

1613. **Pertusaria submarginata** Nyl. *Lich. Jap.* p. 53, ubi definitur; *Lich. ins. Guin.* p. 52; thallus K (CaCl) —, apotheciorum autem verrucæ K (CaCl) nonnihil erythrinose tinguntur. = In Asia orientali (Japonia).

1614. **P. læviganda** Nyl. *Lich. Jap.* p. 53, ubi definitur; verrucæ apotheciorum intus K flavent. = In Asia orientali (Japonia).

1615. **P. obsolescens** Nyl. *Lich. Jap.* p. 54, ubi definitur; thallus K extus intusque flavet. = In Asia orientali (Japonia).

1616. **P. thiostroma** Nyl. *Lich. Jap.* p. 54 in notula, ubi definitur; thallus K vix flavescens et est affinis *P. xanthostomæ* Fr., Nyl. *Lich. Scand.* p. 182. = In Africa meridionali (Portu Natali, Nyl. apud Stizenb. *Lich. afric.* p. 140).

1617. **P. quartans** Nyl. *Lich. Jap.* p. 54, ubi definitur; *Lich. ins. Guin.* p. 52; thallus K —, sed verrucæ intus K flavent. = In Asia orientali (Japonia).

1618. **P. glomerata** Schær., Nyl. *Lich. Scand.* p. 182, ubi definitur; *Enum. Lich.* p. 117. — *Porina glomerata* Ach.; thallus K e flavo cinnabarino rubet, *Flora* 1868, p. 162. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 21, 49 et 54, et in hoc posteriore loco spermatia definiuntur). — Etiam in Europa.

— Var. **corniculata** Nyl. in *Flora* 1885, p. 442, et *Lich. Fr. Behr.* p. 44, ubi definitur. = In Asia boreali (Lawrence insula).

1619. **P. adveniens** Nyl. *Lich. N. Zeland.* 1888, p. 70, ubi definitur; thallus K flavet. = In Oceania (Nova Zelandia).

1620. **P. adventans** Nyl. *Lich. N. Zeland.* 1888, p. 70, ubi definitur; thallus intus et præsertim verrucæ apotheciiferæ K flavent. = In Oceania (Nova Zelandia).

1621. **P. flavens** Nyl. *Lich. Antill.* p. 12, ubi definitur; *Enum. Lich.* p. 116. = In Africa orientali (ins. Madagascar). — In America tropica (ins. Guadalupa).

1622. **P. Wulfenii** DC., Nyl. *Lich. Scand.* p. 181, ubi definitur; *Lich. Pyren.-Orient.* p. 36, thallus K (CaCl) supra flavo-aurantiacus fit; *Lich. Fr. Behr.* p. 87, epithecium ubi sunt nigricantia K violaceæ tinguntur; *Enum. Lich.* p. 116. = In Africa boreali (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 99). — In America septentrionali (Mexico, *Flora* 1858, p. 380; Chili, *Addit. Fl. chil.* p. 183). — Etiam in Europa.

— F. 1. **flavicans** Nyl. *Lich. Jap.* p. 53; *P. flavicans* Lamy *Catalog. Lich. Mont-Dore* p. 91; thallus K (CaCl) ±, supra aurantiaco reagit. = In Asia orientali (Japonia). — Etiam in Europa.

— F. 2. **rupicola** Nyl. *Lich. Pyren.-Orient.* p. 37; *P. sulphurea* var. *rupicola* Schær. = In Asia orientali (Japonia). — Etiam in Europa.

1623. **P. papillulata** Nyl. *Addit. Fl. chil.* p. 159, ubi definitur; *Enum. Lich.* p. 117. = In America meridionali (Chili).

1624. **P. achroiza** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 et ed. 2<sup>a</sup> p. 36, ubi definitur. = In America tropica (Nova Granata).

1625. **P. melanospora** Nyl. *Addit. Fl. chil.* p. 159, ubi definitur; *Enum. Lich.* p. 117; *Lich. Pyren.-Orient.* p. 33 in notula, sporæ et epithecium K violascunt. = In America meridionali (Peruvia, *Lich. exot.* p. 221; Chili).

1626. **P. calcarea** Nyl. *Lich. Pyren.-Orient.* p. 36 in notula; *P. melanospora* var. *calcarea* Nyl. *Addit. Fl. chil.* p. 159, ubi definitur; *Enum. Lich.* p. 117. = In America meridionali (Chili).

1627. **P. tuberculifera** Nyl. *Prodr. Fl. N. Gran.* ed. p. 1<sup>a</sup> 34 atque ed. 2<sup>a</sup> p. 38 et in *Flora* 1869, p. 121, ubi definitur. = In America tropica (Nova Granata, ubi occurrit etiam statu isidiomorfo; Brasilia).



1628. *Pertusaria rhodostoma* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 38, ubi definitur. = In America tropica (Nova Granata).
1629. *P. verrucosa* Nyl. *Lich. Antill.* p. 43, ubi definitur; *Enum. Lich.* p. 117. — *Trypethelium verrucosum* Fée. = In America tropica (ins. Guadalupa).
1630. *P. nagasakensis* Nyl. *Lich. Jap.* p. 54, ubi definitur; thallus K =, K (CaCl) =; species nulli affinis. = In Asia orientali (Japonia).
1631. *P. subglobulifera* Nyl. *Lich. N. Zeland.* 1888, p. 68, ubi definitur; *Enum. Lich.* p. 117. Thallus K —; verrucæ K (CaCl) violaceæ evadunt. Videtur esse *P. cupularis* Knight. = In Oceania (Nova Zelandia).
1632. *P. perrimosa* Nyl. in *Flora* 1865, p. 338, et *Lich. N. Zeland.* 1861, p. 253, et 1888, p. 68, ubi definitur; thallus K —. = In Oceania (Nova Zelandia).
1633. *P. subperrimosa* Nyl. *Lich. N. Zeland.* 1888, p. 68; *P. perrimosa* Nyl. apud Cromb. *Kerguel. land* p. 186, ubi definitur; thallus K ferruginascit. = In Africa australi (ins. Kerguelen).
1634. *P. graphica* Knight, Nyl. *Lich. N. Zeland.* 1888, p. 69, ubi definitur; thallus K —, CaCl —. = In Oceania (Nova Zelandia).
1635. *P. erumpescens* Nyl. *Lich. N. Zeland.* 1888, p. 69, ubi definitur; thallus K e luteo cinnabarino-rubescit. = In Oceania (Nova Zelandia).
1636. *P. ochrotheliza* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 80 et ed. 2<sup>a</sup> p. 38, ubi definitur. = In America tropica (Nova Granata).
1637. *P. confundens* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 34 et ed. 2<sup>a</sup> p. 39, ubi definitur. = In America tropica (Nova Granata).
1638. *P. leucodes* Nyl. *Lich. N. Zeland.* 1888, p. 71, ubi definitur; thallus K —. = In Oceania (Nova Zelandia).
1639. *P. cucurbitula* Mont., Nyl. *Addit. Fl. chil.* p. 184; *Enum. Lich.* p. 117; *Lich. Fueg.* p. 11; thallus K lutescit. = In America meridionali (Chili).
- *F. lævior* Nyl. *Lich. Fueg.* p. 11; *P. cucurbitula* f. *lævigata* Nyl. *Addit. Fl. chil.* p. 160, ubi definitur; *Enum. Lich.* p. 117. = In America meridionali (ins. Juan Fernandez).
1640. *P. thelioplaca* Nyl. *Lich. N. Zeland.* 1888, p. 71, ubi definitur in notula; thallus K lutescit. = In Oceania (ins. Campbell, *Lich. Fueg.* p. 11, ubi dicitur hanc speciem a *P. cucurbitula* Mont. non differre).
1641. *P. colobina* Tuck., Nyl. *Lich. N. Zeland.* 1888, p. 145. = In America australi (freto Magellanico).
1642. *P. tyloplaca* Nyl. *Lich. N. Zeland.* 1888, p. 71, ubi definitur in notula; thallus K —. = In Oceania (ins. Campbell).
1643. *P. epileia* Nyl. *Lich. Jap.* p. 57, ubi definitur; thallus K —, sed verrucæ tum intus flavent. = In Asia orientali (Japonia).
1644. *P. leptophora* Nyl. *Lich. Fr. Behr.* p. 6, ubi definitur; thallus K —, CaCl —. = In Asia boreali (Lawrencebay).
1645. *P. rhodoleuca* Th. Fr. *Lichenogr. scand.* p. 306. = In Asia boreali (Lawrence insula, Nyl. *Lich. Fr. Behr.* p. 49). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 87). — Etiam in Europa.
1646. *P. subplicans* Nyl. in *Flora* 1885, p. 441, et *Lich. Fr. Behr.* p. 49, ubi definitur; thallus K —, CaCl —, sed protuberantiæ K (CaCl) aurantiaco-erythrinose maculantur. = In Asia boreali (Lawrence insula).
1647. *P. trochiscea* Norman, Nyl. *Lich. Fr. Behr.* p. 64, ubi definitur; thallus K —. = In America arctica (Port-Clarence).
1648. *P. Sommerfeltii* Nyl. *Lich. Scand.* p. 181 et *Lich. Fr. Behr.* p. 65, ubi definitur;

*Enum. Lich.* p. 117. — *Endocarpon Sommerfeltii* Floerke; thallus K —. = In America boreali (Port-Clarence). — Etiam in Europa.

1649. **Pertusaria pycnophora** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 35 et ed. 2<sup>a</sup> p. 39, ubi definitur. = In America tropica (Nova Granata).

1650. **P. ambigens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 35 et ed. 2<sup>a</sup> p. 40, ubi definitur in notula. — *Lecanora ambigens* Nyl. *Enum. Lich.* p. 113. = In America australi (promont. Bonæ Spei).

1651. **P. mammata** Nyl. *Lich. Fueg.* p. 40, ubi definitur; thallus K —. = In America arctica (Fuegia).

1652. **P. petrophytes** Knight, Nyl. in *Flora* 1886, p. 326, ubi definitur. = In Oceania (Australia).

1653. **P. lecanorina** Nyl. *Addit. Fl. chil.* p. 160, ubi definitur; *Enum. Lich.* p. 117. = In America meridionali (Chili).

1654. **P. chiodectonoides** Nyl. *Enum. Lich.* p. 117 et *Lich. Antill.* p. 13 in notula. — *Porina chiodectonoides* Fée. = In America tropica (ins. Guadalupa, etc.).

1655. **P. impallescens** Nyl. apud Cromb. *Ins. Rodrig.* p. 440, ubi definitur; thallus K —. = In Africa orientali (ins. Rodriguez).

1656. **P. Acharii** Nyl. *Enum. Lich.* p. 117. — *Porina Acharii* Fée. = In America tropica (Peruvia, *Lich. exot.* p. 221).

1657. **P. cryptocarpa** Nyl. *Lich. exot.* p. 221, ubi definitur; *Enum. Lich.* p. 117. = In America tropica (Peruvia).

1658. **P. dermatodes** Nyl. *Lich. exot.* p. 241, ubi definitur; *Lich. îles Marquis.* p. 302; *Enum. Lich.* p. 117. = In Oceania (ins. Nukahiva).

1659. **P. gibberosula** Nyl. *Lich. Antill.* p. 13, ubi definitur; thallus K —. = In America tropica (ins. Guadalupa).

1660. **P. erubescens** Nyl. *Lich. N. Zeland.* 1861, p. 253 in notula, et *Lich. Fueg.* p. 22, ubi definitur; *Enum. Lich.* p. 117. — *Urceolaria erubescens* Tayl.; thallus K e flavo ferruginee tingitur. = In America australi (ins. Maclovianis).

1661. **P. vepallida** Nyl. apud Cromb. *Lich. capens.* p. 475, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1662. **P. perfida** Nyl. in *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 253, et 1888, p. 69, ubi definitur. = In Oceania (Nova Zelandia).

1663. **P. glaucomela** Nyl. *Lich. Fr. Behr.* p. 87, ubi definitur. — *Lecanora glaucomela* Tuck. = In America septentrionali (California et Oregon).

1664. **P. oculata** Nyl. *Lich. Fr. Behr.* pp. 45, 54 (ubi spermatia definiuntur) et p. 87. — *Lichen oculatus* Dicks. — *Lecanora oculata* Nyl. *Lich. Scand.* p. 156 et *Lich. Lapp. orient.* p. 136, ubi definitur; *Enum. Lich.* p. 113. — *Lichen obtusatus* Wahlenb., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 33 et ed. 2<sup>a</sup> p. 36 in notulis; thallus K ferrugineo-rubet. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* pp. 5 et 8, *Lecanora oculata* Nyl., et p. 45). — Etiam in Europa.

1665. **P. carneo-pallida** Nyl. in *Flora* 1868, p. 478. — *Parmelia carneo-pallida* Fr. — *Lecanora carneo-pallida* Nyl. *Addit. Fl. chil.* p. 160, ubi definitur; *Enum. Lich.* p. 113. — *Lecidea carneo-pallida* Nyl. *Lich. Scand.* p. 196 et fig. 9, ubi definitur. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 65 et 68 in notula). — Etiam in Europa.

1666. **P. phlyctænula** Nyl. *Addit. Fl. chil.* p. 166, ubi definitur; *Enum. Lich.* p. 117. = In America meridionali (Chili).

1667. **P. globularis** Nyl. *Enum. Lich.* p. 117. — *Porina globularis* Ach. *Syn. Lich.* p. 112. « Thallus albo-cinerascens, tenuis, granulis confertis albis subglobosis inæqualis vel

papillifer. Apothecia in verrucis solitaria, vel 2-4 in singulis, subglobose prominulis, sparsis, epithecio punctiformi nigro; sporæ 4<sup>nae</sup> longit. 0,100-125, crass. 0,036-40 millim. vel paulo minores aut majores. Thallus K —. » = In America septentrionali, Muscos incrustans ex Achario; misit Tuckerman e Nova Anglia.

1668. **Pertusaria derogata** Nyl. *Lich. Fueg.* p. 10, ubi definitur; = In America australi (fretum Magellanicum; Sandy Point).

1669. **P. cineraria** Nyl. apud Croumb. *Kerguel. land* p. 186, ubi definitur. = In Africa antarctica (ins. Kerguelen).

1670. **P. coccophora** Nyl. *Lich. Fueg.* p. 11, ubi definitur. — *Parmelia coccophora* Mont. — *Lecanora coccophora* Nyl. *Addit. Fl. chil.* p. 183 in notula, ubi definitur; *Flora* 1855, p. 674. — *Thelocarpon coccophorum* Nyl. *Pyrenoc.* p. 10, ubi definitur; *Enum. Lich.* p. 135; thallus K —. = In America meridionali (Chili) et australi (Patagonia et Fuegia).

1671. **P. arthoniaria** Nyl. *Lich. Fueg.* p. 10, ubi definitur; epithecium K violaceo-dissolvitur. = In America australi (Ushuwaia).

Gen. XC. — VARICELLARIA Nyl.

1672. **V. microsticta** Nyl. *Lich. Scand.* p. 183 et fig. 8, atque *Lich. Lapp. orient.* p. 141, ubi definitur; *Enum. Lich.* p. 117 et p. 119 in notula. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 65 et 68 in notula). — Etiam in Europa.

Subtrib. III. — **Thelotremai.**

Gen. XCI. — THELOTREMA Ach.

A. — *Sporæ parvæ hyalinæ.*

1673. **T. crassulum** Nyl. *Lich. exot.* p. 258, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 117. = In Africa orientali (ins. Borbonia).

1674. **T. microporum** Mont., Nyl. *Syn. Lich. N. Caled.* p. 36, ubi definitur; *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 42, in *Flora* 1869, p. 70, et 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 6, et *Lich. ins. Guin.* p. 26, ubi sporæ definiuntur; *Conspect. Thelotr.* et *Enum. Lich.* locis citat. = In Asia meridionali (Bengalia). — In Africa occidentali (ins. San Thomé). — In America tropica (ins. Cuba). — In Oceania (ins. Java; Taiti, *Lich. exot.* p. 242; Nova Caledonia, *Flora* 1867, p. 195).

1675. **T. album** Nyl. *Syn. Lich. N. Caled.* p. 35 et *Prodr. Fl. N. Gran. Addit.* p. 547, ubi definitur; *T. myriotrema* Nyl. *Exposit. Lich. N. Caled.* p. 46, ubi definitur; *Conspect. Thelotr.* p. 377, *Enum. Lich.* p. 117 et *Lich. exot.* p. 221 in notula. — *Myriotrema album* Fée. = In America tropica. — In Oceania (Polynesia; Nova Caledonia, *Flora* 1867, p. 195).

Varietas *olivaceum* Nyl. *Lich. exot.* p. 221 in notula et *Exposit. Lich. N. Caled.* p. 46, *Myriotrema olivaceum* Fée, cum specie præcedenti jungi debet.

1676. **T. terebratulum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 547 et *Syn. Lich. N. Caled.* p. 35, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 617). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

1677. **T. myrioporellum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 547, ubi definitur. = In America tropica (ins. Cuba).

1678. **T. plurifarium** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 547, et *Syn. Lich. N. Caledon.* p. 35, ubi definitur. = In America tropica (ins. Cuba).



1679. **Thelotrema myriotremoides** Nyl. *Lich. exot.* p. 221 et in *Flora* 1869, p. 120, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In America tropica (Bolivia; Brasilia).

1680. **T. albulum** Nyl. in *Flora* 1869, p. 120, ubi definitur. = In America tropica (Brasilia).

1681. **T. leptosporum** Nyl. *Enum. Lich.* p. 118 et *Conspect. Thelotr.* p. 377. «Thallus albus, tenuis, continuus, subfarinaceus, K —; apothecia minutissima; sporæ parvæ, 4-loculares, longit. 0,009 et crass. 0,004 millim., nec gelatina hymenialis, nec sporæ iodo colorantur.» = In America tropica (ins. Pinos, quæ 20 leucis ab ins. Cuba meridiem versus distat, ex herb. Durieu).

1682. **T. glauculum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 47 in notula, ubi definitur. = In America tropica (ins. Cuba).

1683. **T. sphinctrinellum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 35, tab. I, fig. 8, et ed. 2<sup>a</sup> p. 40, ubi definitur. = In America tropica (Nova Granata).

1684. **T. pachystomum** Nyl. *Lich. exot.* p. 221 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 35, tab. I, fig. 9, et ed. 2<sup>a</sup> p. 40, ubi definitur, atque *Addit.* p. 548; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118; *Th. pachystomoides* Nyl. *Conspect. Thelotr.* p. 378; *Th. globulare* Tuck. = In America tropica (ins. Cuba; Nova Granata; Peruvia).

1685. **T. actinotum** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 36 et ed. 2<sup>a</sup> p. 41 in notulis. = In America tropica (ins. Cuba).

B. — *Sporæ mediocres hyalinæ, raro fuscescentes vel infuscatæ.*

1686. **T. dehiscens** Nyl. *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. «Thallus albidus, tenuis, effusus; apothecia mediocria, urceolato-immersa, margine thallino crassiusculo lecanorino primo angulose dehiscente, fundo (epithecio) pallido; sporæ 8<sup>mæ</sup> incolores, oblongæ, 6-loculares, iodo dilute vel vix cœrulescentes, demum nonnihil obscuratæ, longit. 0,012-17 et crass. 0,006 millim. Apotheciis junioribus triangularibus varieque dehiscensibus, vetustioribus autem margine thallino facile fatiscente differt a congeneribus.» = In America tropica (Guyana britannica, Pomeron-River, ad corticem arboris Hya).

1687. **T. clandestinum** Fée, Nyl. *Lich. exot.* p. 221; *Conspect. Thelotr.* et *Enum. Lich.* locis citat. = In America tropica (Nova Granata, *Flora* 1864, p. 618; Peruvia).

— **F. remanens** Nyl, *Prodr. Fl. N. Gran. Addit.* p. 549, ubi definitur. = In America tropica (Nova Granata).

1688. **T. subcæsius** Nyl. in *Flora* 1869, p. 120, ubi definitur. = In America tropica (Brasilia).

1689. **T. granulorum** Tuck., Nyl. *Conspect. Thelotr.* p. 377 et *Enum. Lich. Supplém.* p. 336. = In America septentrionali (Louisiana).

1690. **T. diplotrema** Nyl. *Lich. exot.* p. 258, ubi definitur; *Conspect. Thelotr.* et *Enum. Lich. Supplém.* locis citat. = In Africa orientali (ins. Borbonia).

1691. **T. porinoides** Mont. et v. p. Bosch *Jav.* p. 58 et *Plantæ Junghuhnianæ* p. 484; *Th. cavatum* var. *porinoides* Nyl. *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118; *Th. albidiforme* Leight., Nyl. *Lich. Andam.* p. 8 in notula. = In Asia orientali (Japonia, *Lich. Jap.* p. 54, ubi definitur pr. p.) et meridionali (ins. Ceylonia). — In Oceania (ins. Java).

1692. **T. homopastum** Nyl. in *Flora* 1876, p. 561, ubi definitur. = In America tropica (ins. Cuba).

1693. **T. cavatum** Ach., Nyl. *Syn. Lich. N. Caled.* p. 32, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 36, tab. I, fig. 10, ac ed. 2<sup>a</sup> p. 41 et in *Flora* 1866, p. 290, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich.*

*East. Asia* p. 53). = In Africa orientali (ins. Borbonia, ubi reperitur forma peculiaris in *Lich. exot.* p. 238 definita). — In America tropica (ins. Cuba; Nova Granata). — In Oceania (ins. Labuan, *Lich. Jap.* p. 110, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 195).

— Var. 1. **obturatum** Nyl. in *Flora* 1886, p. 173, *Contrib. da Fl. d'Afric.* p. 8 et *Lich. ins. Guin.* p. 26, ubi definitur; *Conspect. Thelotr. et Enum. Lich. locis citat.*; *T. obturatum* Ach. = In Africa occidentali (ins. San Thomé; Guinea, ex Ach. *Syn. Lich.* p. 116).

— var. 2. **confertum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 41, ubi definitur; *Conspect. Thelotr.* p. 377. = In America meridionali (Nova Granata).

— var. 3. **granuliferum** Nyl. *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In Asia meridionali (ins. Ceylonia).

— var. 4. **submutatum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 548, ubi definitur, et in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

— var. 5. **planius** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 548, ubi definitur et in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

— var. 6. **amplius** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 548, ubi definitur et in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

1694. \* **Thelotrema dolichosporum** Nyl. *Syn. Lich. N. Caled.* p. 33, ubi definitur; *T. cavatum* var. *dolichosporum* Nyl. *Exposit. Lich. N. Caled.* p. 45 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 41, atque *Lich. exot.* p. 242, ubi sporæ definiuntur; *Conspect. Thelotr.* p. 377; *Enum. Lich.* p. 118. = In America tropica (Guyana; ins. Cuba; Nova Granata). — In Oceania (ins. Labuan; ins. Nukahiva; Nova Caledonia, *Flora* 1867, p. 195).

1695. **T. lacteum** Krempelh., Nyl. in *Flora* 1864, p. 269, ubi definitur. = In Oceania (Australia).

1696. **T. bicavatum** Nyl. in *Flora* 1864, p. 369, et *Lich. N. Zeland.* 1888, p. 75, ubi definitur. = In Oceania (Australia; Nova Zelandia).

1697. **T. subcavatum** Nyl. in *Flora* 1876, p. 561, ubi definitur. = In America tropica (ins. Cuba).

1698. **T. granulatum** Nyl. in *Flora* 1876, p. 561, ubi definitur. = In America tropica (ins. Cuba).

1699. **T. pachysporum** Nyl. *Syn. Lich. N. Caled.* p. 33, ubi definitur. = In Oceania (Nova Caledonia).

1700. **T. conforme** Fée, Nyl. *Lich. exot.* p. 221, *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In America tropica (Peruvia). — In Oceania (ins. Java).

1701. **T. subconforme** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 53, ubi definitur. = In Asia orientali (Malacca).

1702. **T. foratum** Nyl. in *Flora* 1886, p. 173, *Contrib. da Flora d'Afric.* p. 8 et *Lich. ins. Guin.* p. 25, ubi definitur. = In Africa occidentali (ins. San Thomé).

1703. **T. albido-pallens** Nyl. *Lich. Andam.* p. 9, ubi definitur. = In Asia meridionali (ins. Andaman). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 173, et *Contrib. da Flor. d'Afric.* p. 8, atque *Lich. ins. Guin.* p. 25).

1704. **T. concretum** Fée, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 549, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118; *T. urceolare* Mont.; *T. microporoides* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 36, tabl. I, fig. 11, et ed. 2<sup>a</sup> p. 41, ubi definitur. In *Addit.* p. 550 vocatur errore *T. microcarpoides* Nyl. = In America tropica (Guyana; Nova Granata, *Flora* 1864, p. 618; Peruvia, *Lich. exot.* p. 221).

1705. **T. perforatum** Leight., Nyl. *Prodr. Fl. N. Gran. Addit.* p. 549 in notula, ubi definitur. = In America tropica (Peruvia).

1706. **Thelotrema microporellum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 42, ubi definitur. = In America tropica (ins. Cuba).

1707. **T. myriocarpum** Fée, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37, ed. 2<sup>a</sup> p. 42 et in *Flora* 1866, p. 290, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 418. = In America tropica.

1708. **T. adjectum**. Nyl. in *Flora* 1866, p. 290, ubi definitur. = In America tropica (ins. Cuba).

1709. **T. lævigans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37, tab. I, fig. 12, et ed. 2<sup>a</sup> p. 42, ubi definitur; *Conspect. Thelotr.* p. 377. = In America tropica (Nova Granata).

— **F. avertens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 550, ubi definitur. = In America tropica (Nova Granata).

1710. \* **T. pauperius** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 550. = In America tropica (Nova Granata).

1711. \*\* **T. glauco-pallens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37 et ed. 2<sup>a</sup> p. 42, ubi definitur; in *Flora* 1866, p. 290. = In America tropica (ins. Cuba).

1712. **T. expallescens** Nyl. in *Flora* 1876, p. 560, ubi definitur. = In America tropica (ins. Cuba).

1713. **T. olivaceum** Mont., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37 et ed. 2<sup>a</sup> p. 43, ubi sporæ definiuntur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 418. = In America tropica (Nova Granata; Brasilia, *Flora* 1869, p. 120).

1714. **T. subtile** Tuck., Nyl. in *Flora* 1864, p. 491, ubi definitur; *Conspect. Thelotr.* p. 377. Ab illa specie non differt *Th. bicinctulum* Nyl. *Lich. N. Caled. Exposit.* p. 46 et *Syn.* p. 34, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 418. = In Asia orientali (Japonia, *Lich. Jap.* p. 57, ubi sporæ definiuntur). — In America utraque (Nova Anglia; Carolina; Fuegia, *Lich. Fueg.* p. 27). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa (Hibernia).

1715. **T. calvescens** Fée, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37 et ed. 2<sup>a</sup> p. 43, ubi forma quædam definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 418. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 222).

1716. **T. intervallatum** Nyl. *Syn. Lich. N. Caled.* p. 36, ubi definitur; thallus K ochracee tingitur. = In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

1717. **T. subcalvescens** Nyl. *Lich. Andam.* p. 9, ubi definitur. = In Asia meridionali (ins. Andaman).

1718. **T. pycnoporellum** Nyl. in *Flora*, 1876, p. 562, ubi definitur. = In America tropica (ins. Cuba).

1719. **T. albidum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37 et ed. 2<sup>a</sup> p. 43, ubi definitur. = In America tropica (Nova Granata).

1720. **T. Halei** Tuck., Nyl. *Conspect. Thelotr.* p. 377. — *Porina Halei* Mont.; in *Lich. exot.* p. 221 in notula definitur ut var. *Th. concreti*. = In America.

1721. **T. leucotrema** Nyl. *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 418. «Thallus pallidus, tenuis, lævigatus; apothecia innata, nigricantia, albo-suffusa, concava, discoidea vel a thallo simpliciter et acute marginata vel in prominentia (verruca) singula inclusa, parum elevata; sporæ oblongæ, loculis transversis 4-6, longit. 0,013-18 et crass. 0,006-7 milim. Sporæ iodo e cœruleo obscuratæ vel obscure lutescentes. Forma videtur *Th. calvescentis* ad quod accedit». = In America tropica (Guyana gallica, ad cortices).

1722. **T. platystomum** Mont., Nyl. *Conspect. Thelotr.* p. 377 et *Enum.* p. 418. = In America tropica (Guyana Gallica).

1723. **T. chionostomum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 44 in notula, ubi definitur. = In America tropica (ins. Cuba).



1724. **Thelotrema gymnocarpum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 549, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 617).
1725. **T. pycnophragmium** Nyl. in litt., species accedens ad *Th. chionostomum* Nyl. = In Oceania (ins. Labuan, legit Almquist).
1726. **T. terebratum** Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50 in notula, ubi sporæ definiuntur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In America tropica (Peruvia, *Lich. exot.* p. 222).
1727. **T. terebrans** Nyl. *Lich. Andam.* p. 7, ubi definitur. = In Asia meridionali (ins. Andaman).
1728. **T. subterebratum** Nyl. in *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 8 et *Lich. ins. Guin.* p. 26, ubi definitur. = In Africa occidentali (ins. San Thomé).
1729. **T. albidulum** Nyl. *Lich. N. Caled. Exposit.* p. 44 et *Syn.* p. 34, ubi definitur; *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In America tropica. — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).
1730. **T. sordidescens** Fée, Nyl. *Conspect. Thelotr.* p. 377 et *Enum. Lich.* p. 118. = In America tropica.
1731. **T. anamorphoides** Nyl. in *Flora* 1869, p. 120, ubi definitur. = In America tropica (Brasilia).
1732. **T. leucotylum** Nyl. *Lich. Andam.* p. 7, ubi definitur. = In Asia meridional (ins. Andaman).
1733. **T. latilabrum** Tuck. *Syn. North Americ. Lich.* II, p. 153; Nyl. *Lich. Andam.* p. 7. = In America tropica (ins. Cuba).
1734. **T. dolichotatum** Nyl. in litt.; thecæ monosporæ. = In Asia meridionali (Singapour, corticola, legit Almquist).

C. — *Sporæ magnæ, multi-loculares aut murali-divisæ.*

1735. **T. phlyctideum** Nyl. *Lich. exot.* p. 222, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. = In America tropica (Bolivia).
1736. **T. Auberianoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 37, tab. I, fig. 13, et ed. 2<sup>a</sup> p. 43, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (Nova Granata; Brasilia, *Flora* 1869, p. 120, ubi sporæ definiuntur).
1737. **T. trachodes** Nyl. in *Flora* 1869, p. 120, ubi definitur. = In America tropica (Brasilia).
1738. **T. anamorphum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 38 et ed. 2<sup>a</sup> 44 in notulis, ubi definitur; *Th. anamorpha* Nyl. *Conspect. Thelotr.* p. 378. = In America tropica (Guyana gallica).
1739. **T. Wrigthii** Tuck., Nyl. *Conspect. Thelotr.* p. 378. = In America septentrionali (Carolina meridionali et Florida, *Prodr. Fl. N. Gran. Addit.* p. 550 in notula) et tropica Brasilia, *ibid.*).
1740. **T. lepadinum** Ach., Nyl. *Lich. Scand.* p. 185, ubi definitur; *Conspect. Thelotr.* p. 378; *Enum. Lich.* p. 118. = In America meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 38 et ed. 2<sup>a</sup> p. 44, ubi definitur; Chili, *Addit. Fl. chil.* p. 184) et australi (Fuegia, *Lich. Fueg.* p. 11, ubi definitur). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* p. 253, et 1888, p. 77, ubi sporæ adhuc definiuntur). — Etiam in Europa.
1741. **T. lepadinoides** Leight., Nyl. *Prodr. Fl. N. Gran. Addit.* p. 548 in notula, ubi definitur. = In America tropica (Peruvia).
1742. **T. lepadodes** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 38 et ed. 2<sup>a</sup> p. 45 in notulis, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (ins. Cuba).

1743. **Thelotrema leucmelanum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 38, tab. I, fig. 14, ed. 2<sup>a</sup> p. 44 et *Addit.* p. 550 ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (Nova Granata).

— Var. **cathomalizans** Nyl. *Prodr. Fl. N. Gran.* ed. 1 p. 38, tab. I, fig. 15, et ed. 2<sup>a</sup> p. 45, ubi definitur; *Conspect. Theolotr.* p. 378. = In America tropica (Nova Granata).

1744. **T. arthonioides** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 550. — *Parathelium arthonioides* Eschw. = In America tropica (Brasilia).

1745. **T. depressum** Mont., Nyl. *Enum. Lich.* p. 118. = In America tropica (Guyana gallica).

1746. **T. conveniens** Nyl. *Lich. Andam.* p. 10, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 617, et *Prodr. Fl. N. Gran. Addit.* p. 583).

1747. **T. rugatulum** Nyl. *Lich. Andam.* p. 9, ubi definitur. = In Asia meridionali (ins. Andaman).

1748. **T. inscalpens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 551, ubi definitur; in *Flora* 1864, p. 617. = In America tropica (Nova Granata).

1749. **T. leucophthalmum** Nyl. *Syn. Lich. N. Caled.* p. 39, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

1750. **T. reclusum** Krempelh., Nyl. *Lich. Andam.* p. 9, ubi definitur; sporæ 1-2<sup>ne</sup>. = In Asia meridionali (ins. Andaman).

1751. **T. colobicum** Nyl. *Lich. Andam.* p. 10, ubi definitur; thecæ monosporæ, æque acin duobus sequentibus. = In Asia meridionali (ins. Andaman).

1752. **T. ocllusum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 550, ubi definitur. = In America tropica (Nova Granata).

1753. **T. lecanodeum** Nyl. in *Flora* 1876, p. 562, ubi definitur. = In America tropica (ins. Cuba).

1754. **T. cryptotrema** Nyl. *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. «Thallus albidus, sat tenuis, effusus, æquabilis; apothecia extus parum visibilia, poro (epithecio) concolore, sæpius farinaceo-occluso, vix elevato, indicata, intus alba, immersa; sporæ 4<sup>ne</sup> vel 8<sup>ne</sup>, incolores, oblongæ, fusiformes et murali-divisæ, longit. 0,058-70 et crass. 0,026-28 millim. Nec gelatina hymenialis nec sporæ iodo colorantur, modo protoplasma thecarum vinose fulvescit. Species recedens.» = In America tropica (Guyana gallica, ad cortices).

1755. **T. leioplacoides** Nyl. *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. «Facie *Pertusariæ leioplacæ* Schær., thallo albido, K —; thecæ monosporæ, sporæ incolores, oblongo-fusiformes, murali-divisæ, longit. 0,185-235 et crass. 0,032-38 millim., iodo tinctæ.» = In Africa meridionali (promont. Bonæ Spei).

1756. **T. similans** Nyl. *Lich. Jap.* p. 58, ubi definitur. = In Asia orientali (Japonia).

D. — *Sporæ fusæ varie divisæ.*

1757. **T. spondaicum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 45 in notula, ubi definitur; sporæ 2 in thecis. = In America tropica (ins. Cuba).

1758. **T. monosporum** Nyl. *Lich. N. Caled. Exposit.* p. 46 et *Syn.* p. 33, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 46 et *Addit.* p. 552 atque *Lich. N. Zeland.* 1861, p. 254, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118; sporæ 1-4<sup>ne</sup>. = In America tropica (Guyana gallica) (1). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195; Nova Zelandia).

(1) Quod in *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 46 de *Th. monosporo* in Louisiana collecto describitur, ad *Ascidium postpositum* Nyl., infra n° 1802, referri debet.

— Var. 1. **patulum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 45 et *Lich. N. Zeland.* 1888, p. 76, ubi definitur. = In Asia orientali (ins. Bonin seu ins. Ogassawara, *Exposit. Lich. N. Caled.* p. 46, ubi definitur et dicitur nominandum esse f. *album*, et *Lich. Jap.* p. 58). = In America tropica (Nova Granata). — In Oceania (Nova Zelandia).

— Var. 2. **subgeminum** Nyl. *Syn. Lich. N. Caled.* p. 38, ubi definitur. = In Oceania (ins. Labuan, *Lich. Jap.* p. 110, ubi sporæ definiuntur; Nova Caledonia).

1759. **Thelotrema monosporoides** Nyl. *Lich. N. Zeland.* 1888, p. 76, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 58, ubi sporæ definiuntur). — In Oceania (Nova Zelandia).

1760. **T. compunctellum** Nyl. *Syn. Lich. N. Caled.* p. 38, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

1761. **T. allosporum** Nyl. *Lich. N. Caled. Exposit.* p. 45 et *Syn.* p. 33, ubi definitur; *Conspect. Thelotr.* p. 378 et in *Flora* 1867, p. 195, sporæ 1-4 in thecis. = In Oceania (Nova Caledonia).

1762. **T. allosporoides** Nyl. *Lich. Andam.* p. 8 et *Lich. N. Zeland.* 1888, p. 75, ubi definitur. = In Asia meridionali (ins. Andaman). = In Oceania (Nova Zelandia).

1763. **T. allosporizum** Nyl. *Lich. Andam.* p. 8, ubi definitur. = In Asia meridionali (ins. Andaman).

1764. **T. cubanum** Tuck., Nyl. *Conspect. Thelotr.* p. 378, atque *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 39 et ed. 2<sup>a</sup> p. 46. = In America tropica (ins. Cuba).

1765. **T. glyphicum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 39 et ed. 2<sup>a</sup> p. 46, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (Nova Granata).

1766. **T. Auberianum** Mont., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 38 et ed. 2<sup>a</sup> p. 43, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. = In America tropica (ins. Cuba).

1767. **T. lirellæforme** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 44, ubi definitur. = In America tropica (ins. Cuba).

1768. **T. fissum** Nyl. *Lich. exot.* p. 258, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. = In Africa orientali (ins. Borbonia).

1769. **T. subterebrans** Nyl. in *Flora* 1876, p. 561, ubi definitur. = In America tropica (ins. Cuba).

1770. **T. platycarpum** Tuck., Nyl. *Syn. Lich. N. Caled.* p. 35, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (ins. Cuba).

1771. **T. platycarpoides** Nyl. *Syn. Lich. N. Caled.* p. 35, ubi definitur; in *Flora* 1867, p. 195. = In America tropica (ins. Cuba). — In Oceania (Nova Caledonia).

1772. **T. compunctum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 39, tab. I, fig. 16, et ed. 2<sup>a</sup> p. 46 atque *Syn. Lich. N. Caled.* p. 37, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. — *Lichen compunctus* Sm. — *Urceolaria compuncta* Ach. — Non differt *Th. pertusarioides* Nyl. *Enum. Lich.* p. 118. = In America tropica (Columbia; Nova Granata; Amboyna).

1773. **T. glaucescens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 47 in notula, ubi definitur; *Th. compunctum*, var. *glaucescens* Nyl. *Enum. Lich.* p. 118. = In America septentrionali (Alabama et Louisiana).

— Var. **epileptum** Nyl. *Prodr. Fl. N. Gran.* loc. citat., ubi definitur. = In America tropica (ins. Cuba).

1774. **T. subcompunctum** Nyl. *Syn. Lich. N. Caled.* p. 37, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

1775. **T. columellatum** Nyl. *Syn. Lich. N. Caled.* p. 37, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).



1776. **T. bahianum** Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 39, tab. I, fig. 17, et ed. 2<sup>a</sup> p. 47, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 222).

— Var. 1. **obturascens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 39 et ed. 2<sup>a</sup> p. 47, ubi definitur. = In America tropica (Nova Granata).

— Var. 2. **ruptum** Nyl. *Prodr. Fl. N. Gran.* loc. citat., ubi definitur. = In America tropica (Nova Granata).

1777. **Thelotrema leucocarpoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 40, tab. I, fig. 19, et ed. 2<sup>a</sup> p. 47, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (Nova Granata).

1778. **T. quitoense** Fée, Nyl. *Lich. exot.* p. 222 in notula. = In America tropica (Peruvia).

1779. **T. andamanicum** Nyl. *Lich. Andam.* p. 8, ubi definitur. = In Asia meridionali (ins. Andaman).

1780. **T. læviusculum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50, ubi definitur. = In America tropica (ins. Cuba).

1781. **T. punctulatum** Nyl. *Lich. exot.* p. 222, ubi definitur; *Conspect. Thelotr.* p. 378. — *Porina compuncta* Ach. = In America tropica (Peruvia).

1782. **T. urceolare** Ach., Nyl. *Lich. exot.* p. 222, ubi sporæ definiuntur; *Th. distinctum* Nyl. *Enum. Lich.* p. 118. = In America tropica (Peruvia).

1783. **T. develatum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 40 et ed. 2<sup>a</sup> p. 48, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (Nova Granata).

1784. **T. leucocarpum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 48, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich. Supplém.* p. 336. = In America tropica (Venezuela).

1785. **T. inallescens** Nyl. *Lich. Jap.* p. 57, ubi definitur; thallus K nonnihil flavescit et demum rufescit. = In Asia orientali (Japonia).

1786. **T. meiosporum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 48, ubi definitur. = In America tropica (ins. Cuba).

1787. **T. epitrypum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 41, tab. I, fig. 18, et ed. 2<sup>a</sup> p. 49, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (ins. Cuba, cujus speciminis sporæ definiuntur in secundo loco modo citato; Nova Granata).

— F. **simplicius** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 81 et ed. 2<sup>a</sup> p. 49. = In America tropica Nova Granata).

1788. **T. metaphoricum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 41 et ed. 2<sup>a</sup> p. 49, ubi definitur; *Conspect. Thelotr.* p. 378. = In America tropica (ins. Cuba, cujus speciminis sporæ definiuntur in secundo loco modo citato; Nova Granata).

1789. **T. Wightii** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50, ubi sporæ definiuntur, et ed. 1<sup>a</sup> p. 41; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. — *Endocarpon Wightii* Tayl. = In America boreali subæquinoctiali (Florida et Carolina meridionali) et tropica (Nova Granata; Brasilia, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50 in notula).

1790. **T. Ravenelii** Tuck. pr. p., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50 in notula et in *Flora* 1880, p. 12, ubi definitur. = In America septentrionali (Florida et Carolina meridionali).

1791. **T. trypaneoides** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50 in notula, ubi definitur; in *Flora* 1866, p. 290. = In America tropica (ins. Cuba).

1792. **T. Prevostianum** Mont., Nyl. *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. = In America tropica (ins. Cuba).

1793. **T. phæosporum** Nyl. *Lich. exot.* p. 242 et *Syn. Lich. N. Caled.* p. 38, ubi definitur; in *Flora* 1867, p. 195; *Conspect. Thelotr.* p. 378; *Enum. Lich.* p. 118. = In Oceania (Nova Hibernia; Nova Caledonia).

1794. **T. bisporum** Nyl. *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118. « Thallus medioeris (crassit, 0,5 millim.), glabriusculus, obducens, ambitu inæqualiter lobulatus vel quasi crenato-divisus; apothecia immersa, absque prominentia thallina conspicua, impressione pallida minuta indicata; sporæ 1-2 in thecis, oblongæ, murali-divisæ, longit. 0,080-115 et crass. 0,034-36 millim., iodo vix vel parum obscuratæ. Facie externa prope *Th. phæosporum* Nyl. sed sporis majoribus facile distincta species. » = In America tropica (ins. Guadalupa, ad cortices).

## Gen. XCII. — ASCIDIUM Fée.

Thallus **K** ochracee tingitur, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 553.

1795. **A. domingense** (Fée in Herb.) Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 41, tab. I, fig. 20, et ed. 2<sup>a</sup> p. 50, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 118 = In America tropica (ins. S<sup>to</sup> Domingo; Nova Granata; Brasilia, *Flora* 1869, p. 121).

1796. \* **A. rhodostroma** Mont., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 41 et ed. 2<sup>a</sup> p. 58 in notula, ubi definitur; *Conspect. Thelotr.* p. 378; *Enum. Lich.* p. 119. Forsan hæc species non est separanda a præcedente. = In America tropica (Guyana gallica).

— Var **xantostroma** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 50 in notula, ubi definitur. = In America tropica (ins. Cuba).

1797. **A. majorinum** Nyl. in litt. = In Asia orientali (Singapour, legit Almquist).

1798. **A. xantostromizum** Nyl. in litt. = In Asia orientali (Singapour, legit Almquist).

1799. **A. Cinchonarum** Fée, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 41, tab. I, fig. 21, ed. 2<sup>a</sup> p. 51 et *Addit.* p. 551; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 119. = In America tropica (Nova Granata, ubi viget insuper forma peculiaris locis citatis definita; Peruvia, *Lich. exot.* p. 222).

— **F. intermedium** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 551, ubi definitur. = In America tropica (Nova Granata).

1800. \* **A. discolor** Nyl. *Prodr. Fl. N. Gran. Addit.* pp. 551 et 552; in *Flora* 1864, p. 617; — *Pyrenula discolor* Ach. = In America tropica.

— Var. **dodecamerum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 551, ubi definitur. = In America tropica (Nova Granata).

1801. **A. rhabdosporum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 552, ubi definitur; in *Flora* 1864, p. 617. = In America tropica (Nova Granata).

1802. **A. postpositum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 552 et in *Flora* 1869, p. 121, ubi definitur. = In America utraque calida (Louisiana, *Flora* 1864, p. 617 in notula, ubi legitur quod in *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 46 *Thelotremati monosporo* attribuitur ad hoc *Ascidium* attinere; Nova Granata; Brasilia, *Flora* 1869, p. 121).

1803. **A. interpositum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 51 in notula, ubi definitur. = In America tropica (ins. Cuba).

1804. **A. depressum** Mont., Nyl. in *Flora* 1869, p. 121, ubi sporæ definiuntur; *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 51; *Conspect. Thelotr.* p. 378, ubi errore scribitur: *A. pepressum*. — *Pemphidium mammosum* Tuck. = In America meridionali (Brasilia).

1805. **A. monobactrium** Nyl. *Exposit. Lich. N. Caled.* p. 53 in notula atque Nyl. et Cromb. *Lich. East. Asia* p. 53, ubi definitur; *Conspect. Thelotr.* p. 378 et *Enum. Lich.* p. 419. = In Asia orientali (Malacca et insulis Maris Chinensis Labuan, etc.).

## Gen. XCIII. — GYROSTOMUM Fr.

1806. **G. scyphuliferum** Nyl. *Syn. Lich. N. Caled.* p. 39, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 41

et ed. 2<sup>a</sup> p. 51 atque in *Flora* 1867, p. 4, ubi definitur; *Conspect. Thelotr.* p. 378. — *Lecidea scyphulifera* Ach. — *Gymnotrema atratum* Nyl. *Enum. Lich.* p. 119. — *Thelotrema atratum* Fée. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 57) et meridionali (Calcutta). — In America tropica (Nova Granata). — In Oceania (ins. Labuan, *Lich. Jap.* p. 110, ubi sporæ definiuntur; ins. Java, *Flora* 1866, p. 132; Nova Caledonia, *Flora* 1867, p. 195, et *Exposit. Lich. N. Caled.* p. 46).

## Gen. XCIV. — TREMOTYLUM Nyl.

1807. **T. angolense** Nyl. *Lich. Angol.* p. 513, ubi definitur; in *Flora* 1865, p. 3 in notula; thallus K —. = In Africa occidentali (Angola).

## Gen. XCV. — POLYSTROMA Clem.

1808. **P. Fernandezii** Clem., Nyl. in *Flora* 1868, p. 346, ubi definitur. — *Ozocladium Fernandezii* Mont., et verisimiliter ejus *O. Leprieurii* in Nyl. *Syn. I.* p. 254 definitum. = In America tropica (Guyana gallica). — Etiam in Europa (Hispania meridionali).

De genere *Ozocladio* Mont. cf. etiam Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 18 et ed. 2<sup>a</sup> p. 11 in notulis.

## Gen. XCVI. — PHLYCTIS Wallr.

Subgen. I. — *Phlyctidia* Nyl.

1809. **P. boliviensis** Nyl. *Lich. Port Natal* p. 7, ubi definitur; *Phlyctis boliviensis* Nyl. *Lich. exot.* p. 221 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 42, tab. I, fig. 22, et ed. 2<sup>a</sup> p. 52, ubi definitur; *Enum. Lich.* p. 117. = In Africa meridionali (Portu Natali). — In America tropica (Nova Granata; Bolivia).

1810. **P. antaxia** Nyl. — *Phlyctis antaxia* Nyl. *Lich. N. Zeland.* 1888, p. 74 et fig. 12, ubi definitur; thallus K e flavo rubescit. = In Oceania (Nova Zelandia).

Subgen. II. — *Phlyctella* Nyl. *Lich. Angol.* p. 514.

1811. **P. andensis** Nyl. *Lich. Angol.* p. 514. — *Platygrapha phlyctella* Nyl. *Lich. exot.* p. 222 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53, tab. II, fig. 46, et ed. 2<sup>a</sup> p. 94, ubi definitur; *Enum. Lich.* p. 131; thallus K —. = In America tropica (ins. Cuba, *Flora* 1886, p. 104; Nova Granata; Bolivia).

1812. **P. endecamera** Nyl. in litt. — *Platygrapha endecamera* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 63, tab. II, fig. 47, et ed. 2<sup>a</sup> p. 94, ubi definitur). = In America tropica (Nova Granata).

1813. **P. brasiliensis** Nyl. — *Phlyctis brasiliensis* Nyl. in *Flora* 1869, p. 121, ubi definitur; thallus K —. = In America tropica (Brasilia).

1814. **P. leucosticta** Nyl. — *Pertusaria leucosticta* Mont. — *Phlyctis leucosticta* Nyl. *Enum. Lich.* p. 117. = In America tropica (Guyana gallica).

1815. **P. neo-zelandica** Nyl. *Lich. N. Zeland.* 1888, p. 72 et fig. 11, ubi definitur; Lojka *Lich. univ.* nos 131-133. — *Phlyctis neo-zelandica* Nyl. in *Flora* 1869, p. 121; thallus et apothecia K e flavo cinnabarino crocea evadunt. = In Oceania (Nova Zelandia).

1816. **P. atropa** Nyl. *Lich. N. Zeland.* 1888, p. 74, ubi definitur. — *Platygrapha longifera* Nyl. *Lich. N. Zeland.* 1861, p. 258, ubi definitur; in *Flora* 1865, p. 337 in notula; thallus K e flavo aurantiace rubet. = In Oceania (Nova Zelandia).



1817. **Phlyctella egentior** Nyl. *Lich. N. Zeland.* 1888, p. 73, ubi definitur; in *Flora* 1869, p. 121; apothecia K flavescunt. = In Oceania (Nova Zelandia).

— Var. **pallidula** Nyl. *Lich. N. Zeland.* 1888, p. 73 et fig. 43, ubi definitur, thallus et apothecia K flavescunt. = In Oceania (Nova Zelandia).

1818. **P. peregena** Nyl. *Lich. N. Zeland.* 1888, p. 74, ubi definitur; thallus K flavescit. = In Oceania (Nova Zelandia).

1819. **P. hilmayensis** Nyl. *Lich. N. Zeland.* 1888, p. 73, ubi definitur. — *Platygrapha polyphragmia* Nyl. *Enum. Lich.* p. 431; thallus K cinnabarine tingitur. = In Asia (mont. Himalaya).

1820. **P. interfusca** Nyl. *Lich. N. Zeland.* 1888, p. 74, ubi definitur; thallus K flavescit. = In Oceania (Nova Zelandia).

Subgen. III. — *Phlyctis* pr. dict.

1821. **P. agelæa** Wallr., Nyl. *Lich. Scand.* p. 184, ubi definitur; *Enum. Lich.* p. 417. = In Africa boreali (Algeria, *Lich. And. Boliv.* p. 367 in notula). — Etiam in Europa.

1822. **P. Willeyii** Nyl. *Lich. Jap.* p. 106, ubi definitur. — *Thelotrema Willeyi* Tuck.; thallus K flavet, dein subferruginascit. = In America septentrionali (Texas).

Gen. XCVII. — URCEOLARIA Ach.

1823. **U. ocellata** DC., Nyl. *Enum. Lich.* p. 416. — *Lichen ocellatus* Vill. — *Lecanora Villarsii* Ach.; thallus K optime rubet, K (CaCl) —, I =. = In Africa boreali (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 95, ubi pr. p. definitur). — Etiam in Europa.

1824. \***U. subocellata** Nyl. apud Cromb. *Austral. Lich.* p. 399, ubi definitur; thallus K lurido-fuscescit et dein ochracee coloratur. = In Oceania (Australia).

1825. **U. cinereo-cæsia** Sw., Nyl. *Lich. exot.* p. 220; *Enum. Lich.* p. 416; thallus CaCl +, I —. = In America tropica (Peruvia). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 71, ubi sporæ definiuntur; *U. scruposa* Nyl. *Lich. N. Zeland.* 1861, p. 252, et *Flora* 1865, p. 338). Ab hac vix specie differt *U. violaria* Nyl. apud Hue *Addend. Lichenogr. europ.* p. 125, in Gallia et in ins. Corsica, et non in Sahara, ut ibi errore dicitur.

1826. **U. scruposa** Ach., Nyl. *Lich. Scand.* p. 176 et *Addit. Fl. chil.* p. 158, ubi definitur; *Enum. Lich.* p. 416 et apud Hue *Addend. Lichenogr. europ.* p. 125, thallus CaCl ± et I =. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 21). — In Africa boreali (Algeria, *Lich. Algér.* p. 313, *Prodr. Lich. Gall.* p. 96 et *Flora* 1878, p. 345) et orientali (ins. Bourbonia, *Lich. exot.* p. 257). — In America utraque (Mexico, *Flora* 1858, p. 380; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 32 et ed. 2<sup>a</sup> p. 35, ubi sporæ definiuntur; Peruvia, *Flora* 1855, p. 674; Bolivia, *Lich. And. Boliv.* p. 379; Chili). — In Oceania (Taïti, *Lich. exot.* p. 241; archipel. Mendana, *Lich. îles Marquis.* p. 301). — Etiam in Europa.

1827. **U. scruposula** Nyl. *Lich. Pyren.-Orient.* p. 11, ubi definitur; thallus CaCl +, I =. = In Asia Orientali (Japonia, *Lich. Jap.* p. 58). — Etiam in Europa.

1828. **U. gypsacea** Ach., Nyl. in *Flora* 1878, pp. 342 et 345; *U. scruposa* var. *gypsacea* Nyl. *Lich. Scand.* p. 177, ubi definitur. — *Lecanora diacapsis* Nyl. *Lich. Algér.* p. 313 et *Urceolaria scruposa* var. *diacapsis* Schær., Nyl. *Enum. Lich.* p. 416 et *Prodr. Lich. Gall.* p. 96, sed e dictis in *Lich. Scand.* p. 177 nomen Acharii *Urceolaria diacapsis* pertinet ad *Lecanoram calcaream*; thallus CaCl +, I =. = In Asia orientali (Japonia, *Lich. Jap.* p. 58, atque Nyl. et Cromb. *Lich. East. Asia* p. 67). — In Africa boreali (Algeria; Ægypto, *Lich. Ægypt.* p. 6) et occidentali (ins. Madera, *Lich. Madère* p. 189). = Etiam in Europa.

1829. **Urceolaria bryophiloides** Nyl. in *Flora* 1878, p. 345, ubi definitur; thallus I =. = In Asia orientali (Japonia, *Lich. Jap.* p. 58). — In Africa boreali (Algeria).

1830. **U. areolata** Nyl. *Lich. exot.* p. 220, ubi definitur; *Enum. Lich.* p. 116. = In America tropica (Peruvia).

1831. **U. actinostoma** Pers., Nyl. *Enum. Lich.* p. 116 et *Supplém.* p. 336; apud Hue *Addend. Lichenogr. europ.* p. 125, thallus CaCl +, I =. = In Asia orientali (Japonia, *Lich. Jap.* p. 59) et meridionali (India). — In America boreali (Nova Anglia) et meridionali (Chili, *Addit. Fl. chil.* p. 183). = Etiam in Europa.

1832. **U. anactina** Nyl. *Lich. Jap.* p. 59, ubi definitur; thallus CaCl vix reagit, I =. = In Asia orientali (Japonia).

1833. **U. stictica** Korb., Nyl. in *Flora* 1864, p. 267, et 1865, p. 338, *Lich. N. Zeland.* 1861, p. 252, et 1888, p. 72, ubi definitur; *U. australis* Nyl. = In Oceania (Australia; Nova Zelandia).

1834. **U. deuteria** Nyl. *Lich. Sti Pauli* p. 6 et in *Flora* 1886, p. 321, ubi definitur; thallus CaCl —, I +. = In Africa orientali antarctica (ins. Sti Pauli) et australi (ins. Kerguelen).

1835. **U. subcuprea** Nyl. apud Croub. *Lich. capens.* p. 175, ubi definitur; thallus K —, CaCl —, I —. = In Africa meridionali (promont. Bonæ Spei).

Subtrib. IV. — **Cænogonie** Nyl. in *Flora* 1885, p. 449, et *Lich. Jap.* p. 60.

Gen. XCVIII. — **COENOGONIUM** Ehrenb. Nyl. *Observ. Cænog.* p. 88.

1836. **C. Leprieurii** Nyl. *Observ. Cænog.* p. 89 et fig. 15-19, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 42 ac ed. 2<sup>a</sup> p. 52, ubi definitur, et *Addit.* p. 553; *C. Linkii* var. *Leprieurii* Mont. = In Africa orientali (ins. Borbonia, Mauriti). — In America æquinoctialis regionibus calidis (Nova Granata; Peruvia, *Flora* 1874, p. 72). — In Oceania (Nova Caledonia, *Syn. Lich. N. Caled.* p. 40, ubi etiam definitur; ins. Marianis; *Lich. exot.* p. 243, *C. Linkii* Ehrenb. et *C. controversum* Pers.).

1837. **C. subvirescens** Nyl. in *Flora* 1874, p. 72; *C. Leprieurii* var. *subvirescens* Nyl. *Observ. Cænog.* p. 89, ubi definitur. = In America tropica (Guyana; Peruvia).

1838. **C. Linkii** Ehrenb., Nyl. *Observ. Cænog.* p. 89 et fig. 1-14, atque *Lich. And. Boliv.* p. 368 in notula, ubi definitur; *Enum. Lich.* p. 119; in *Botan. Zeit.* 1862, p. 177. = In America meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 42, ed. 2<sup>a</sup> p. 52 et *Addit.* p. 553; Peruvia, *Lich. exot.* p. 222; Brasilia; Chili, *Addit. Fl. chil.* p. 184).

1839. **C. andinum** Karsten, Nyl. in *Botan. Zeit.* 1862, p. 178, et *Lich. And. Boliv.* p. 368 in notula. In *Observ. Cænog.* (1861), p. 89 sub præcedente ponitur. = In America meridionali.

1840. **C. dialeptum** Nyl. *Observ. Cænog.* p. 90, ubi definitur. = In America meridionali (Brasilia).

1841. **C. complexum** Nyl. *Observ. Cænog.* p. 90 et *Lich. exot.* p. 222, ubi definitur; *Enum. Lich.* p. 119; in *Botan. Zeit.* 1862, p. 178. = In America tropica (Venezuela et Bolivia, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 53).

1842. **C. disjunctum** Nyl. *Observ. Cænog.* p. 91, ubi definitur; in *Botan. Zeit.* 1862, p. 178. = In America tropica (ins. Martinica, Cuba).

1843. **C. interpositum** Nyl. *Observ. Cænog.* p. 91, ubi definitur; in *Botan. Zeit.* 1862, p. 178. = In Africa orientali (ins. Borbonia, *C. confervoides* Nyl. *Lich. exot.* p. 259). — In America septentrionali calida (Louisiana).

1844. **C. confervoides** Nyl. *Lich. exot.* p. 242 (excluso borbonico, quod est præcedens)

et *Observat. Cænog.* p. 91, ubi definitur; in *Botan. Zeit.* 1862, p. 178; *Enum. Lich.* p. 119. = In America tropica (Mexico, *Flora* 1858, p. 380, ubi definitur etiam; ins. Guadalupa; Brasilia; Chili). — In Oceania (ins. Taïti).

— Var. **arborum** Nyl. *Observ. Cænog.* p. 92, ubi definitur. — *Conferva arborum* Ag. = In Oceania (ins. Marianis). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 42 et ed. 2<sup>a</sup> p. 53, ubi definitur sine nomine, coll. Lindig, n. 787, parum differt; in *Observ. Cænog.* ponitur errore numerus 887).

1845. **Cænogenium interplexum** Nyl. *Observ. Cænog.* p. 92 et fig. 20-21, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 42 et ed. 2<sup>a</sup> p. 53, ubi definitur; in *Botan. Zeit.* 1862, p. 178. = In America tropica (Nova Granata).

1846. **C. implexum** Nyl. *Observ. Cænog.* p. 92 et *Lich. N. Zeland.* 1888, p. 92, ubi definitur; in *Botan. Zeit.* 1862, p. 178. = In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 254).

1847. **C. moniliforme** Tuck., Nyl. *Observ. Cænog.* p. 92, ubi definitur; in *Botan. Zeit.* 1862, p. 178. = In America tropica (ins. Cuba).

Subtrib. V. — **Crocyniei** Nyl. *Lich. Jap.* p. 59.

Gen. XCIX. — **CROCYNIA** Ach. (1).

1848. **C. gossypina** Ach., Nyl. *Lich. Jap.* p. 59, ubi thallus definitur. — *Lichen gossypinus* Sw. *Fl. Ind. Occident.* III, p. 1887. — *Amphiloma gossypinum* Nyl. *Syn.* II, p. 52 tab. X, fig. 2 (2) pro una parte, altera pars ad sequentem speciem pertinet. — *Lecidea molliuscula* Fée. — *Byssocaulon molliusculum* Nyl. *Enum. Lich.* p. 119. Thallus K —. = In Asia orientali (ins. Borbonia et Mauritii). — In America tropica (ins. Cuba et Jamaica).

1849. **C. mollis** Nyl. *Lich. Jap.* p. 59. — *Byssocaulon molle* Sw., Nyl. *Enum. Lich.* p. 119. — *Parmelia gossypina* var. *biatorina* Mont. *Cryptog. Guyan.* n° 95. — *Amphiloma gossypinum* Nyl. *Syn.* II, p. 52 pr. p.; thallus K e flavo ferrugineo-rubet. = In America tropica (Guyana et regione Amazonica). — In Oceania (ins. Java).

1850. **C. mollescens** Nyl. *Lich. Jap.* p. 59; thallus K flavet. = In Asia orientali (Japonia).

Gen. C. — **BYSSOCAULON** Mont.

1851. **B. niveum** Mont., Nyl. *Enum. Lich.* p. 119. = In America meridionali (ins. Juan Fernandez).

1852. **B. filamentosum** Nyl. *Lich. N. Zeland.* 1888, p. 77, ubi definitur; *Enum. Lich.* p. 119. — *Parmelia gossypina* var. *filamentosa* Mont. *Cryptog. Guyan.* n° 95. = In Oceania (Nova Zelandia).

1853. **B. ? ochraceum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 81, ubi definitur. = In America tropica (Nova Granata).

(1) Hæc subtribus et hoc genus dispositioni systematicæ Lichenum, quæ in hujus enumerationis initio ponitur, addenda sunt.

(2) Hæc tabula nondum in lucem prodit.



Subtrib. VI. — **Lecideei.**Gen. Cl. — **LECIDEA** Ach.A. — *Gyalecta* Ach.a. — *Sporæ murali-divisæ.*

1854. **L. lamprospora** Nyl. in *Flora* 1885, p. 312, et 1886, p. 402, ubi definitur. = In America boreali.

1855. **L. convarians** Nyl. in *Flora* 1885, p. 602, et *Lich. Fr. Behr.* p. 70, ubi definitur. = In America boreali (Port-Clarence).

1856. **L. Farlowi** Nyl. *Lich. Jap.* p. 106, ubi definitur; *Gyalecta Farlowi* Tuck. = In America septentrionali (ins. Bermudis).

1857. **L. cupularis** Nyl. *Lich. Scand.* p. 189, ubi definitur; *Enum. Lich.* p. 119. — *Lichen cupularis* Hedw. = In America. — In Oceania (Nova Zelandia?, *Lich. N. Zeland* 1888, p. 78). — Etiam in Europa.

b. — *Sporæ 3 vel pluri-septatæ.*

1858. **L. stictidea** Nyl. in *Flora* 1866, p. 290, ubi definitur. = In America tropica (ins. Cuba).

1859. **L. carneo-lutea** Nyl. *Prodr. Lich. Gall.* p. 101 et in *Flora* 1867, p. 4, ubi definitur; *Enum. Lich.* p. 119. — *Parmelia carneo-lutea* Turn. = In Europa.

— **F. minor** Nyl. in *Flora* 1867, p. 4, ubi definitur. = In Asia meridionali (Calcutta).

1860. **L. foveolaris** Nyl. *Lich. Scand.* p. 190, ubi definitur; *Enum. Lich.* p. 119. — *Lichen foveolaris* Wahlenb. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 21). — Etiam in Europa.

1861. **L. carneola** Ach., Nyl. *Lich. Scand.* p. 191, ubi definitur; *Enum. Lich.* p. 120. = In America boreali. — Etiam in Europa.

1862. **L. subincolorella** Nyl. *Syn. Lich. N. Caled.* p. 41, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

1863. **L. myriadella** Nyl. *Syn. Lich. N. Caled.* p. 41 in notula, et *Lich. N. Zeland.* 1888, p. 78, ubi definitur. = In Oceania (Nova Zelandia).

1864. **L. pulchra** Nyl. *Lich. Fueg.* p. 33, ubi definitur. — *Gyalecta pulchra* J. Muell.; epithecium K violascit et apothecia K purpurascenti-obscurantur. = In America tropica (Brasilia).

c. — *Sporæ 4-septatæ.*

1865. **L. Pineti** Ach., Nyl. *Lich. Scand.* p. 191, *N. Caled. Lich. Exposit.* p. 46 atque *Syn.* p. 40 et in *Flora* 1873, p. 295, ubi definitur; *Enum. Lich.* p. 120. = In Asia orientali (Japonia, *Lich. Jap.* p. 60). — In America tropica (Peruvia, *Lich. exot.* p. 223, *L. hypoxantha* Fée). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

1866. **L. lutea** Schær., Nyl. *Lich. Scand.* p. 192 et *Lich. Lapp. orient.* p. 182, ubi definitur; *Enum. Lich.* p. 120. — *Lichen luteus* Dicks. — *Biatora pyrophthalma* Mont. = In Asia orientali (Japonia, *Lich. Jap.* p. 60) et meridionali (Bengalia, *Flora* 1869, p. 70). — In Africa boreali (Algeria, *Lich. And. Boliv.* p. 367 in notula), meridionali (Portu Natali, *Lich. Port Natal* p. 7) et occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 18). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 13) et meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 42 et ed. 2<sup>a</sup> p. 53; Bolivia, *Lich. And. Boliv.* p. 380, *L. patellula* Fée et *L. biformis* Fée, atque Nyl. *Lich. exot.* p. 223; Chili, *Addit. Fl. chil.* p. 184). — In

Oceania (ins. Labuan, *Lich. Jap.* p. 411; ins. Sandwich, *Lich. exot.* p. 243; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 77, ubi sporæ definiuntur). — Etiam in Europa.

— Var. **eximia** Nyl. *Lich. And. Boliv.* p. 380, ubi definitur, et *Prodr. Lich. Gall.* p. 103. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43 et ed. 2<sup>a</sup> p. 54; Peruvia, *Lich. exot.* p. 223; Bolivia).

1867. **Lecidea proboscidea** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 54, ubi definitur. = In Asia orientali (Malacca).

1868. **L. Sprucei** Nyl. *Lich. Fueg.* p. 33, ubi definitur. — *Lecanora Sprucei* Bab. = In America tropica (Brasilia).

#### B. — *Biatora* Fr.

##### 1. — Stirps *Lecideæ luridæ* Ach.

Thallus squamulosus; sporæ 8<sup>næ</sup> incolores, simplices, oblongæ vel fusiformes; spermatia recta; sterigmata simplicia.

1869. **L. lurida** Ach., Nyl. *Lich. Scand.* p. 192, ubi definitur; *Enum. Lich.* p. 120. = In Africa boreali (Algeria, *Lich. Algér.* p. 313, *Prodr. Lich. Gall.* p. 104 et *Flora* 1878, p. 345). — In Oceania (ins. Nukahiva, *Lich. exot.* p. 243). — Etiam in Europa.

1870. **L. icterica** Nyl. *Lich. And. Boliv.* p. 380, ubi definitur. — *Biatora icterica* Mont. = In America meridionali (Bolivia; Chili, *Addit. Fl. chil.* p. 184) et australi (Patagonia, *Lich. N. Zeland.* 1888, p. 145).

1871. **L. subdecepiens** Nyl. in *Flora* 1878, p. 342, ubi definitur. = In Africa boreali (Algeria).

1872. **L. globifera** Ach., Nyl. *Lich. Scand.* p. 193, ubi definitur; *Enum. Lich.* p. 120. = In Asia. — In America. — Etiam in Europa.

1873. **L. rubiformis** Wahlenb. *Fl. Lapp.* p. 479; *L. globifera* var. *rubiformis* Nyl. *Lich. Scand.* p. 193, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 32). — Etiam in Europa.

1874. **L. subrubiformis** Nyl. *Lich. Jap.* p. 60, ubi definitur; thallus K nonnihil flavescit. = In Asia orientali (Japonia).

1875. **L. deceptoria** Nyl. in *Flora* 1878, p. 451, ubi definitur. = In Africa boreali (Algeria, *Flora* 1878, p. 345, ubi enumeratur sub nomine erroneo *Lecidea albilabra* Duf.). — Etiam in Europa (ins. Corsica).

1876. **L. compacta** Nyl. *Lich. exot.* p. 259, ubi definitur; *Enum. Lich.* p. 120. = In Africa orientali (ins. Borbonia).

1877. **L. rufo-nigra** Nyl. *Enum. Lich.* p. 120. — *Biatora rufo-nigra* Tuck. *Syn. North Americ. Lich.* II, p. 41. = In America septentrionali (Nova Anglia, Carolina utraque, Tennessee, Illinois, Texas, etc.).

1878. **L. testacea** Ach., Nyl. *Lich. Scand.* p. 193 et *Prodr. Lich. Gall.* p. 104, ubi definitur; *Enum. Lich.* p. 120. = In Africa boreali (Algeria, *Lich. Algér.* p. 313). — Etiam in Europa.

1879. **L. javanica** Schær. *Moritz Verzeichn. der v. Zolling.* p. 128, Nyl. *Enum. Lich.* p. 120. = In Oceania (ins. Java).

1880. **L. Colensoi** Nyl. *Lich. N. Zeland.* 1888, p. 78, ubi definitur. — *Biatora Colensoi* Bab. *Fl. N. Zeal.* p. 34. = In Oceania (Nova Zelandia).

1881. **L. ochroxantha** Nyl. *Lich. exot.* p. 223 et *Prodr. Fl. N. Gran. Addit.* p. 553, ubi definitur; *Enum. Lich.* p. 120. = In America tropica (Peruvia et Bolivia).

1882. **Lecidea subvirescens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 553, ubi definitur. = In America tropica (Nova Granata).

1883. **L. parvifolia** Pers., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43 et ed. 2<sup>a</sup> p. 54, *Syn. Lich. N. Caled.* p. 41, ubi definitur; *Enum. Lich.* p. 120. = In omnibus terris tropicis; in Africa orientali (ins. Borbonia, *Lich. exot.* p. 259) et meridionali (Portu Natali, *Lich. Port Natal* p. 7, ubi sporæ definiuntur). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 13, et Cuba, *Flora* 1866, p. 291, ubi sporæ adhuc definiuntur; Nova Granata; Peruvia, *Lich. exot.* p. 223) et meridionali (Republica Argentina, *Lich. Fueg.* p. 12; Chili, *Addit. Fl. chil.* p. 180; ins. Juan Fernandez, *Addit. Fl. chil.* p. 150 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 130, ubi sporæ denuo definiuntur). — In Oceania (ins. Taïti, *Lich. exot.* p. 243; Nova Caledonia, *Flora* 1867, p. 195; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 81).

— Var. **fibrillifera** Nyl. *Lich. N. Caled. Exposit.* p. 47 et *Syn.* p. 42, et *Lich. N. Zeland.* 1888, p. 82, ubi definitur. = In America tropica (Brasilia, *Flora* 1869, p. 122, ubi sporæ definiuntur). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

1884. **L. byssiseda** Nyl. in *Flora* 1858, p. 380, atque *Enum. Lich.* p. 120. « Thallus albidus, firmulus, crenato-squamulosus, fibrillas cylindricas pro magna parte proferens, tomento myelohyphico subtili concolore (prothallino) copiose instratus, K —; fibrillæ altitudine fere 1 millim. vel breviores, crass. 0,2 millim. Comparetur *L. parvifolia* var. *fibrillifera* Nyl. *Syn. Lich. N. Caled.* p. 42, quæ non est byssiseda et e fibrillis tenuioribus composita. Apothecia ignota. » = In America tropica (Mexico).

1885. **L. Fendlerii** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> pp. 54 et 131, ubi definitur; *Lich. exot.* p. 223 in notula. — *Biatora Fendlerii* Tuck. = In America tropica (Venezuela).

1886. **L. glabella** Nyl. « Thallus albidus vel flavido-albidus, squamulose adnatus, squamulis varie crenato-incisis, subimbricato-adpressis, subconcretescentibus, sat tenuibus, glabris. Apothecia badio-rufescentia, planiuscula, submarginata, latit. 0,5-8 millim., intus infra nigricantia; sporæ ellipsoideæ, oblongæ, longit. 0,005-7 et crass. 0,003 millim.; paraphyses non distinctæ; epithecium incolor; hypothecium rufescens. Iodo gelatina hymenialis cærulescens, cærulescentia persistente (thecæ præsertim tinctæ). Facie fere *L. Fendlerii* Mont., sed differens glabritie thalli. » = In America tropica (ins. Cuba, ubi est palmicola; legit Wright n° 142).

1887. **L. breviscula** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 54 et *Addit.* p. 553, *Lich. Port Natal* p. 8, ubi definitur. = In Africa meridionali (Portu Natali). — In America tropica (ins. Cuba; Peruvia, *Flora* 1874, p. 72).

1888. **L. longiuscula** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 54, ubi definitur. = In America tropica (ins. Cuba).

1889. **L. intermediella** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 54, ubi definitur. = In America tropica.

1890. **L. Halei** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 131, ubi definitur; *Enum. Lich. Supplém.* p. 337. — *Pannaria Halei* Tuck. = In America septentrionali (Louisiana).

1891. **L. parvifoliella** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 54 et *Lich. Port Natal* p. 7, ubi definitur. = In Africa meridionali (Portu Natali). — In America tropica (ins. Cuba).

1892. **L. Santensis** Tuck., Nyl. *Lich. Port Natal* p. 8, ubi definitur. In *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 130 hæc species cum *L. parvifolia* Pers. et in ejusdem *Addit.* cum *L. corallina* Eschw. jungitur. = In Africa meridionali (Portu Natali). — In America septentrionali.

1893. **L. corallina** Eschw., Nyl. in *Flora* 1869, p. 122, ubi definitur. = In America tropica Brasilia).

1894. **L. hæmophæa** Nyl. in *Flora* 1869, p. 122, ubi definitur; in *Flora* 1874, p. 72. = In America tropica (Brasilia).



1895. **Lecidea microdactyla** Nyl. *Lich. N. Zeland.* 1888, p. 81, ubi definitur. = In Oceania (Nova Zelandia).

1896. **L. thysaniza** Nyl. *Lich. N. Zeland.* 1888, p. 82, ubi definitur. = In Oceania (Nova Zelandia).

— Var. **uberior** Nyl. *Lich. N. Zeland.* 1888, p. 82, ubi definitur. = In Oceania (Nova Zelandia).

1897. **L. familiaris** Nyl. *Lich. N. Zeland.* 1888, p. 83, ubi definitur. = In Oceania (Nova Zelandia).

1898. **L. pannarioides** Nyl. in *Flora* 1855, p. 674, ubi definitur; *Enum. Lich.* p. 120. = In America australi (freto Magellanico, *Lich. N. Zeland.* 1888, p. 145, ubi definitur pr. p.).

1899. **L. levicula** Nyl. in *Flora* 1866, p. 291, ubi definitur. = In America tropica (ins. Cuba).

1900. **L. Maingayensis** Cromb., Nyl. et Cromb. *Lich. East. Asia* p. 67 et Nyl. *Lich. Jap.* p. 61, ubi definitur. = In Asia orientali (Japonia).

1901. **L. blepharophora** Nyl. *Enum. Lich.* p. 120. — *Collema blepharophorum* Bél. — *Biatora Belangeri* Mont. et v. d. Bosch *Plant. Junghuhn.* p. 461, Nyl. et Cromb. *Lich. East. Asia* p. 54. = In Oceania (ins. Java).

## 2. — Stirps *Lecidæ vernalis* Ach.

Thallus areolatus, granulatus, pulvereus vel evanescent. Sporæ 8<sup>ae</sup> incolores, simplices, oblongæ vel ellipsoideæ; spermatia recta; sterigmata simplicia raro articulata.

1902. **L. cano-rubella** Nyl. *Enum. Lich.* p. 121 et *Syn. Lich. N. Caled.* p. 43. «Thallus cinereo-virens vel sordide canus, tenuis, minute granulatus, inæqualis, continuus, effusus vel ambitu albescens. Apothecia carneo-rubella, vetustiora infuscata, margine crasso pallidiore, flexuoso, intus tota pallide albida. Sporæ 8<sup>ae</sup> incolores, ellipsoideæ vel fusiformi-ellipsoideæ, simplices, longit. 0,010-11 et crass. 0,005 millim.; paraphyses crassiusculæ non bene discretæ. Iodo gelatina hymenialis cærulescens, dein violacee obscurata. Haud absimilis a quibusdam formis *Biatoræ flexuosæ* Fr., sed forsitan potius comparanda cum *L. parvifolia* Pers., a qua tamen thallo continuo effuso differt.» = In America tropica (Guyana gallica, ubi est corticola).

1903. **L. griseo-coccinea** Nyl. *Enum. Lich.* p. 120. «Thallus albido-cinereus, mediocris, areolatus, hypothallo nigro superstratus, areolis opacis subtiliter rugulosus nigro-marginatus (interlucente hypothallo in rimis areolarum), sæt confertus. Apothecia rufo-coccinea satis superficilia, opaca, convexuscula, mediocria, intus croceo-rufa, margine nullo: sporæ parvæ, oblongæ; paraphyses non bene discretæ. Gelatina hymenialis iodo cærulescens. Species maxime insignis, colore apotheciorum a *L. russula* Ach. mox distincta.» = In Asia (mont. Himalaya, altitud. 3000 ped., supra saxa granitica legit Hooker).

1904. **L. Tornoënsis** Nyl. *Lich. Scand.* p. 195 et *Lich. Lapp. orient.* p. 142, ubi definitur. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 21, 45, ubi pr. p. definitur, et p. 54) et orientali (Japonia, *Lich. Jap.* p. 61). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 66 et 68 in notula). — Etiam in Europa boreali.

1905. **L. furfuracea** Pers., Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43, ed. 2<sup>a</sup> p. 56 et *Addit.* pr. 553 necnon *Syn. Lich. N. Caled.* p. 43, ubi definitur; *L. sanguineo-atra* var. *furfuracea* Nyl. *Enum. Lich.* p. 121. = In America tropica (Nova Granata; Brasilia). — In Oceania (Nova Caledonia; ins. Marianis, *Lich. exot.* p. 243, ubi pr. p. definitur; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 254, et 1888, p. 81, ubi sporæ definiuntur).

1906. \* **Lecidea subsimilis** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 62 et *Lich. N. Zeland.* 1861, p. 254, et 1888, p. 81, ubi definitur. = In America tropica (Nova Granata). — In Oceania (Nova Zelandia).
1907. **L. furfuracella** Nyl. *Lich. Jap.* p. 61, ubi definitur; thallus K —. = In Asia orientali (Japonia).
1908. **L. triptophylloides** Nyl. *Lich. exot.* p. 223, ubi definitur; *Enum. Lich.* p. 121. = In America tropica (Bolivia).
1909. **L. subrufata** Nyl. *Lich. Jap.* p. 61, ubi definitur. = In Asia orientali (Japonia).
1910. **L. interjuncta** Nyl. in *Flora* 1864, p. 269, ubi definitur. = In Oceania (Australia).
1911. **L. pelochroa** Nyl. in *Flora* 1864, p. 269, ubi definitur. = In Oceania (Australia).
1912. **L. circumpurpurans** Nyl. in *Flora* 1874, p. 72, ubi definitur. — *Biatora pyrrohomenkna* Tuck *Syn. North Americ. Lich.* II, p. 156. = In America meridionali (Brasilia).
1913. **L. declinanda** Nyl. *Lich. N. Zeland.* 1888, p. 446; *L. declinis* Nyl. *Lich. Fueg.* p. 12, ubi definitur. = In America meridionali (Argentina).
1914. **L. luridescens** Nyl. *Lich. Fueg.* p. 11, ubi definitur; *Enum. Lich.* p. 120. = In Asia (mont. Himalaya). — In America meridionali (Argentina).
1915. **L. furfurosula** Nyl. in *Flora* 1886, p. 173, *Contrib. da Fl. d'Afric.* p. 7 et *Lich. ins. Guin.* p. 21, ubi definitur. = In Africa occidentali (ins. San Thomé).
1916. **L. orphnæa** Nyl. *Lich. ins. Guin.* p. 47, ubi definitur. — *Biatora orphnæa* Tuck *Syn. North Americ. Lich.* II, p. 157. = In America tropica (ins. Cuba).
1917. **L. aurigera** Fée *Essai* p. 106, tab. XXVIII, fig. 1, et *Supplém.* p. 103, Nyl. *Lich. Port Natal* p. 8, ubi definitur; *Enum. Lich.* p. 121; hypothecium fuscum, æque ac in pluribus sequentibus speciebus. = In Africa meridionali (Portu Natali). — In America tropica (Peruvia, *Lich. exot.* p. 223).
1918. **L. furfurosa** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 56, ubi definitur; *Lich. ins. Guin.* p. 47 in notula. — *Biatora furfurosa* Tuck. *Syn. North Americ. Lich.* II, p. 19. = In America septentrionali calida (Florida) et tropica (ins. Cuba).
1919. **L. hypomela** Nyl. *Lich. exot.* p. 223, ubi definitur in notula; *Enum. Lich.* p. 121. = In America tropica (Bolivia; in ins. Cuba exstat forma in *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 56 in notula definita).  
— Var. **fimbriata** Nyl. in *Flora* 1869, p. 122, ubi definitur. = In America tropica (Brasilia).
1920. **L. polycampia** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 56, ubi definitur in notula. — *Biatora polycampia* Tuck. *Syn. North Americ. Lich.* II, p. 157. = In America tropica (ins. Cuba).
1921. **L. pellæa** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 57, ubi definitur. — *Biatora pellæa* Tuck. *Syn. North Americ. Lich.* II, p. 158. = In America tropica (ins. Cuba).
1922. **L. russula** Ach. *Syn. Lich.* p. 40, Nyl. *Prodr. Lich. Gall.* p. 106 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43, ed. 2<sup>a</sup> p. 55, ubi definitur, et *Addit.* p. 553; *Enum. Lich.* p. 120. = In omnibus terris tropicis; in America septentrionali (Mexico, *Flora* 1858, p. 380) et tropica (Nova Granata; Peruvia et Bolivia, *Lich. exot.* p. 223, *L. Condaminea* Fée, *L. cinereo-fusca* Fée). — In Oceania (ins. Nukahiva, *Lich. exot.* p. 243 et *Lich. îles Marquis.* p. 302). — Etiam in Europa meridionali.  
— Var. **leprosa** Nyl. *Enum. Lich.* p. 120. = In Oceania (Australia).
1923. **L. cinnabarina** Sommerf., Nyl. *Lich. Scand.* p. 194, ubi definitur; *Enum. Lich.* p. 120. = In America boreali. — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 80). — Etiam in Europa.
1924. **L. cinnabarodes** Nyl. *Lich. N. Zeland.* 1888, p. 80, ubi definitur; sterigmata articulata. = In Oceania (Nova Zelandia).

1925. **Lecidea mutabilis** Fée *Essai Supplém.* p. 105, Nyl. *Lich. Antill.* p. 14, ubi definitur; *Enum. Lich.* p. 120. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 8, ubi sporæ definiuntur). — In America tropica (Mexico, *Flora* 1858, p. 380; ins. Guadalupe; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 81 et ed. 2<sup>a</sup> p. 55, ubi definitur forma peculiaris; Peruvia, ibid. ed. 2<sup>a</sup> p. 56) et meridionali (Chili, *Addit. Fl. chil.* p. 184).

1926. **L. variatula** Nyl. apud Cromb. *Kerguel. land* p. 186, ubi definitur. = In Africa australi (ins. Kerguelen).

1927. **L. subrubescens** Nyl. *Enum. Lich.* p. 120. «Thallus albocinereascens, sat tenuis, rimoso-diffractus, opacus, superficie fere tomentellus, subdeterminatus. Apothecia fusco-rubricosa vel obscure atro-sanguinea, adpressa, plana vel concaviuscula, margine obtuso vel nullo, intus obscura. Sporæ 8<sup>ne</sup> incolores, ellipsoideæ, simplices, longit. 0,012-15 et crass. 0,006-7 millim.; paraphyses mediocres, distinctæ. Iodo gelatina hymenialis cærulescens; hypothecium crasse infuscatum. Thallus offert cellulas incolores moniliformi-concatenatas, diam. 0,0025 et magis. Comparetur *L. mutabilis* Fée.» = In America tropica (ins. Santo Domingo, ubi est corticola).

1928. **L. microsperma** Nyl. *Lich. exot.* p. 259, ubi definitur; *Enum. Lich.* p. 121. = In Africa orientali (ins. Borbonia).

1929. **L. mauritiana** Tayl., Nyl. *Lich. exot.* p. 259; *Enum. Lich.* p. 121; *L. flavo-rufa* Nyl. «Thallus flavus vel ochracee flavus, sat tenuis, areolato-squamulosus, areolis sæpe crenatulis et contiguis adnatis, thallo strato hypothallino albido byssino, ambitu præsertim conspicuo. Apothecia rufa, prominula, convexa, mediocria, intus pallida. Sporæ 8<sup>ne</sup> incolores, oblongæ, simplices, longit. 0,009-10 et crass. 0,0030-35 millim.; paraphyses mediocres; hypothecium incolor. Iodo gelatina hymenialis dilute cærulescens. Thallo orbiculatim expanso mox distincta species; diametros usque 4-pollicaris thalli infra byssini fibrillato-radiati.» = In Africa orientali (ins. Borbonia).

1930. **L. lucida** Ach., Nyl. *Lich. Scand.* p. 195, ubi definitur; *Enum. Lich.* p. 121. = In America. — Etiam in Europa.

1931. **L. querneæ** Ach., Nyl. *Lich. Scand.* p. 196, ubi definitur; *Enum. Lich.* p. 121. Thallus CaCl +. = In America boreali. — Etiam in Europa.

1932. **L. fuegiensis** Nyl. *Lich. Fueg.* p. 14, ubi definitur. = In America australi (Fuegia).

1933. **L. Piperis** Spr., Nyl. *Enum. Lich.* p. 121. — *Biatora vestita* Mont. (ex ins. Cuba); *Biatora rhodopis* Tuck., Nyl. in *Flora* 1860, p. 44. = In America tropica (Bolivia et Peruvia, *Lich. exot.* p. 223, *L. caryophyllata* Fée; Brasilia, *Flora* 1869, p. 121, ubi sporæ definiuntur).

— Var. **circumtineta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43 et ed. 2<sup>a</sup> p. 55, ubi definitur. = In America tropica (Nova Granata, Peruvia et Bolivia).

1934. **L. inconsequens** Nyl. *Lich. Port Natal* p. 9, ubi definitur; sporæ simplices vel 3-septatæ. = In Africa meridionali (Portu Natali).

1935. **L. configurans** Nyl. apud Cromb. *Ins. Rodrig.* p. 442, ubi definitur; thallus K + flavens. = In Africa orientali (ins. Rodriguez).

1936. **L. albo-prætexta** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 80, ubi definitur. = In Oceania (Nova Zelandia).

1937. **L. virella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43 et ed. 2<sup>a</sup> p. 55 necnon in *Flora* 1866, p. 291, ubi definitur. — *Biatora virella* Tuck. *Syn. North Americ. Lich.* II, p. 156. = In America tropica (ins. Cuba).

1938. **L. decoloranda** Nyl. in litt. = In Oceania (ins. Labuan, legit Almquist supra cortices).

1939. **L. decolorans** Floerke, Nyl. *Prodr. Lich. Gall.* p. 111 et *Lich. Scand.* p. 197, ubi definitur; *Enum. Lich.* p. 121. = In America boreali. — Etiam in Europa.



1940. **Lecidea Flindersii** Cromb., Nyl. apud Cromb. *Austral. Lich.* p. 400, ubi definitur. = In Oceania (Australia).
1941. **L. flexuosa** Nyl. *Prodr. Lich. Gall.* p. 410, *Lich. Algér.* p. 344 et *Lich. Scand.* p. 497, ubi definitur; *Enum. Lich.* p. 121. — *Biatora decolorans* var. *flexuosa* Fr. = In Africa boreali (Algeria). — Etiam in Europa.
1942. **L. derelicta** Nyl. *Lich. Jap.* p. 62, ubi definitur; thallus K lutescit. = In Asia orientali (Japonia).
1943. **L. carneo-albens** Nyl. *Lich. ins. Guin.* p. 46, ubi definitur. = In America tropica (Florida).
1944. **L. griseo-pallens** Nyl. *Lich. N. Caled. Exposit.* p. 47 et *Syn.* p. 42, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).
1945. **L. griseo-pallescens** Nyl. *Syn. Lich. N. Caled.* p. 43, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).
1946. **L. interversa** Nyl. *Lich. N. Zeland.* 1888, p. 79, ubi definitur; thallus K —. = In Oceania (Nova Zelandia).
1947. **L. intervertens** Nyl. *Lich. N. Zeland.* 1888, p. 79, ubi definitur. = In Oceania (Nova Zelandia).
1948. \* **L. diacrita** Nyl. *Lich. N. Zeland.* 1888, p. 80, ubi definitur. = In Oceania (Nova Zelandia).
1949. **L. anteposita** Nyl. *Lich. Port Natal* p. 8, ubi definitur. = In Africa meridionali (Portu Natali).
1950. **L. immarginata** Nyl. apud Cromb. *Austral. Lich.* p. 400, ubi definitur. — *Lichen immarginatus* R. Br. = In Oceania (Australia).
1951. **L. subbaculifera** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 55, ubi definitur. = In Asia orientali (Malacca).
1952. **L. hilarescens** Nyl. in *Flora* 1862, p. 83, ubi definitur. = In America septentrionali (Groenlandia).
1953. **L. aquilonia** Krempelh., Nyl. in *Flora* 1865, p. 4 in notula. = In America septentrionali (Groenlandia).
1954. **L. leucochlora** Nyl. *Addit. Fl. chil.* p. 184. — *Parmelia leucochlora* Mont. = In America meridionali (Chili).
1955. **L. miscescens** Nyl. *Lich. N. Zeland.* 1888, p. 83, ubi definitur. = In Oceania (Nova Zelandia).
1956. **L. rufo-fuscella** Nyl. in *Flora* 1884, p. 221, et *Lich. Fr. Behr.* p. 21, ubi definitur (in posteriore loco scribitur errore *L. rufofuscella*). = In Asia boreali (Konyambay).
1957. **L. adumbrans** Nyl. *Lich. Fueg.* p. 14, ubi definitur. = In America australi (Fuegia). *L. adumbrata* ibi citata est revera *L. obumbrata* Nyl. apud Cromb. *Lich. capens* p. 477 et infra n° 2302.
1958. **L. konyamensis** Nyl. in *Flora* 1884, p. 224, et *Lich. Fr. Behr.* p. 32, ubi definitur; thallus K ferrugineo-cinnabarine tingitur. = In Asia boreali (Konyambay).
1959. **L. epiphæa** Nyl. *Lich. Lapp. orient.* p. 147, ubi definitur; sporæ vulgo 12 in thecis. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 9, 22 et 45; in 2° loco citat. sporæ sunt 8<sup>me</sup>). — Etiam in Europa boreali.
1960. **L. vernalis** Ach., Nyl. *Lich. Scand.* p. 200, *Lich. Lapp. orient.* p. 145 atque *Syn.* I, tab. I, fig. 10, ubi definitur; *Enum. Lich.* p. 121. — *Lichen vernalis* L. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 22) et orientali (Japonia, *Lich. Jap.* p. 61, ubi sporæ definiuntur). — In Africa boreali (Algeria, *Lich. Algér.* p. 313 et *Prodr. Lich. Gall.* p. 107). — In America boreali Port-Clarence, *Lich. Fr. Behr.* p. 65). — In Oceania

(Nuhahiva, *Lich. exot.* p. 243, ubi sporæ 1-3-septatæ definiuntur, et *Lich. îles Marquis.* p. 302). — Etiam in Europa.

1961. \* **Lecidea meiocarpa** Nyl. *Lich. Fr. Behr.* p. 57, ubi definitur, et p. 22; in *Flora* 1876, p. 577; *L. minuta* Nyl. *Lich. Lapp. orient.* p. 145, ubi definitur. = In Asia boreali (Konyambay etc.) et orientali (Japonia, *Lich. Jap.* p. 61, ubi sporæ definiuntur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 65 et 68 in notula). — Etiam in Europa.

1962. \*\* **L. albo-hyalina** Nyl. *Lich. Fr. Behr.* p. 65, ubi definitur, et p. 68 in notula, sporæ sæpius 1-septatæ; vix forma præcedentis; *L. anomala* var. *albohyalina* Nyl. *Lich. Scand.* p. 203, ubi definitur. In *Flora* 1876, p. 577 removetur a *L. meiocarpa* et dicitur subspecies forsân esse *L. globulosæ*. = In America boreali (Port-Clarence). — Etiam in Europa.

1963. **L. cinereo-lutescens** Nyl. *Prodr. Fl. N. Granat.* ed. 2<sup>a</sup> p. 63, ubi definitur in notula. = In America tropica (ins. Cuba).

1964. **L. ementiens** Nyl. in *Flora* 1884, p. 222, et *Lich. Fr. Behr.* p. 22, ubi definitur. = In Asia boreali (Konyambay).

1965. \* **L. ramulosa** Th. Fr. *Lichenogr. scand.* p. 521; Nyl. *Lich. Fr. Behr.* p. 45, ubi definitur. = In Asia boreali (Lawrence ins.). — Etiam in Europa.

1966. **L. tenebricosa** Nyl. *Lich. Scand.* p. 201, ubi definitur. — *Lecanora anomala* var. *tenebricosa* Ach. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 45). — Etiam in Europa.

1967. **L. oculans** Nyl. *Lich. Fueg.* p. 13, ubi definitur. = In America australi (Fuegia).

1968. **L. erythrophæa** Flørke, Sommerf. *Suppl. Fl. Lapp.* p. 163. = In Asia boreali (Behring insula, Nyl. *Lich. Fr. Behr.* p. 54). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68 in notula). — Etiam in Europa.

1969. **L. internectens** Nyl. in *Flora* 1885, p. 604, et *Lich. Fr. Behr.* p. 65, ubi definitur. = In America boreali (Port-Clarence).

1970. **L. subduplex** Nyl. *Lich. Fr. Behr.* p. 50, ubi sporæ definiuntur; *L. vernalis* var. *subduplex* Nyl. *Lich. Scand.* p. 201 et *Lich. Lapp. orient.* p. 145, ubi definitur. = In Asia boreali (Lawrence ins.). — In America boreali (Groenlandia, *Flora* 1862, p. 83). — Etiam in Europa.

1971. **L. ochracea** Nyl. *Lich. Fr. Behr.* p. 32; — *Biatora ochracea* Hepp *Flecht. europ.* n° 263. = In Asia boreali (Konyambay). — Etiam in Europa.

1972. **L. atro-rufa** Ach., Nyl. *Lich. Scand.* p. 198, ubi definitur; *Enum. Lich.* p. 121. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 9 et 45). — Etiam in Europa.

1973. **L. fuliginea** Ach., Nyl. in *Flora* 1879, p. 206 in notula. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 9) et orientali (Japonia, *Lich. Jap.* p. 62). — Etiam in Europa.

1974. **L. sanguineo-atra** Nyl. *Lich. Algér.* p. 343, *Prodr. Lich. Gall.* p. 106 et *Lich. Scand.* p. 199, ubi definitur; *Enum. Lich.* p. 121. — *Lichen sanguineo-ater* Wulf. — *Biatora vernalis* var. *sanguineo-atra* Fr. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 22 et 45) et orientali (Japonia, *Lich. Jap.* p. 62). — In Africa boreali (Algeria). — In America boreali. — Etiam in Europa.

1975. \* **L. atro-fusca** Nyl. in Wainio *Florul. Tavast. orient.* p. 110. — *Biatora atro-fusca* Hepp *Flecht. europ.* n° 268; *B. vernalis* var. *atro-fusca* Flot. — *Lecidea sanguineo-atra* var. *planiuscula* Nyl. *Enum. Lich.* p. 121 et non *Prodr. Lich. Gall.* ut errore dicitur in *Lich. Fr. Behr.* p. 22. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 22). — Etiam in Europa.

1976. **Lecidea fusco-rubens** Nyl. *Prodr. Lich. Gall.* p. 106 in notula et *Lich. Scand.* p. 199, ubi definitur; *Enum. Lich.* p. 121. = In Africa occidentali (ins. Canariis). — Etiam in Europa.

1977. **L. fusco-rubescens** Nyl. *Lich. Andam.* p. 10, ubi definitur. = In Asia meridionali (ins. Andaman). — In America septentrionali (ins. Bermudis, Nyl. apud Cromb. *Challeng. Expedit.* p. 216).

1978. **L. natalensis** Nyl. apud Cromb. *Challeng. Expedit.* p. 216, ubi sporæ definiuntur; *L. fusco-rubescens* Nyl. *Lich. Port Natal* p. 8, ubi definitur. = In Africa meridionali (Portu Natali).

1979. **L. fusco-rubida** Nyl. *Lich. Anlam.* p. 11, ubi definitur. = In Asia meridionali (ins. Andaman).

1980. **L. demutans** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 554, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

1981. **L. insperabilis** Nyl. in *Flora* 1885, p. 604, et *Lich. Fr. Behr.* p. 66, ubi definitur. = In America boreali (Port-Clarence).

1982. **L. apochrœella** Nyl. in *Flora* 1865, p. 6, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 62). — Etiam in Europa.

1983. **L. apochrœiza** Nyl. in *Flora* 1885, p. 443, et *Lich. Fr. Behr.* p. 45, ubi definitur. = In Asia boreali (Lawrence insula).

1984. **L. albicans** Nyl. *Enum. Lich.* p. 121. «Thallus albidus, tenuis, læviusculus, sat opacus, rimoso-areolatus (rimis sæpe minutis, flexuosis vel undulatis), determinatus. Apothecia rufo-pallentia vel subcarnea, superficialia, satis parva, planiuscula, margine parum distincto, intus albida. Sporæ 8<sup>m</sup>, incolores, ellipsoideæ, simplices, longit. 0,011-13 et crass. 0,005-6 millim.; paraphyses satis graciles; hypothecium incolor. Iodo gelatina hymenialis cœrulescens et dein sordide obscurata. Extus non dissimilis *Lecanoræ coarctatæ* Ach.» = In Asia meridionali (India, supra saxa granitica in Parusnath ex herb. Hooker. Etiam lecta super saxa granitica ex herbario Krempelhuber, cum sporis longit. 0,009-11 et crass. 0,004-5 millim. Thallus variat continuus vel obsolete rimulosus).

1985. **L. subalbicans** Nyl. apud Cromb. *Lich. capens.* p. 176, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

1986. **L. cuprea** Sommerf., Nyl. *Lich. Scand.* p. 199, ubi definitur; *Enum. Lich.* p. 121. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 22 et 54). — Etiam in Europa.

1987. **L. Berengeriana** Nyl. *Lich. Lapp. orient.* p. 144, ubi definitur. — *Biatore Berengeriana* Mass. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 22 et 54). — Etiam in Europa.

1988. **L. inductella** Nyl. *Lich. Jap.* p. 71, ubi definitur; affinis *L. miscellæ* Ach., Nyl. *Lich. Scand.* p. 200. = In Asia orientali (Japonia).

1989. **L. inopinula** Nyl. *Lich. Jap.* p. 71, ubi definitur; forsitan e stirpe *L. miscellæ* Ach. a qua differt sporis 1-septatis. = In Asia orientali (Japonia).

1990. **L. mediocricula** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 56, ubi definitur. = In Asia meridionali (Malacca).

1991. **L. tritula** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 64, ubi definitur. = In Asia orientali (China).

1992. **L. myriocarpoides** Nyl. apud Hue *Addend. Lichenogr. europ.* p. 144. — *Biatore myriocarpoides* Tuck. *Syn. North Americ. Lich.* II, p. 27. = In America septentrionali. — Etiam in Europa.

1993. **L. turgidula** Fr., Nyl. *Lich. Scand.* p. 201, *Lich. Lapp. orient.* p. 146 et *Lich. Jap.* p. 63, ubi definitur; *L. vernalis* var. *turgidula* Nyl. *Enum. Lich.* p. 121. = In Asia orientali (Japonia). — Etiam in Europa.



1994. **Lecidea youmotoënsis** Nyl. *Lich. Jap.* p. 71, ubi definitur; forsan e vicinitate *L. encliticæ* Nyl. *Lich. Lapp. orient.* p. 118. = In Asia orientali (Japonia).

1995. **L. nagasakensis** Nyl. *Lich. Jap.* 62, ubi definitur. = In Asia orientali (Japonia).

### 3. — Stirps *Lecideæ globulosæ* Floerke.

Sporæ 8<sup>næ</sup> incolores, oblongæ vel fusiformi-oblongæ, 4-septatæ; paraphyses haud discretæ. Spermatia recta; sterigmata simplicia.

1996. **L. croceella** Nyl. *Enum. Lich.* p. 121. «Thallus flavus vel ochraceo-flavus, tenuis, totus pulveraceo-granulosus, ambitu non bene determinatus. Apothecia crocea vel ruforubella, sat parva (latit. 0,5 millim.), intus concoloria. Sporæ 8<sup>næ</sup> incolores, oblongæ, 4-septatæ, longit. 0,010-13 et crass. 0,0035 millim.; paraphyses non discretæ. Gelatina hymenialis persistenter cœrulescens. Comparanda cum *L. xanthella* Nyl. *Prodr. Lich. Gall.* p. 105; huic vero color thalli et apothecia alia. Obiter visa similitudinem quamdam exhibet cum *Lecanora aurantiaca* Nyl., sed thallus tenuiter pulveraceus et apothecia tuberculiformia cornea, hymenium aliud etc. » = In Oceania (Australia, corticola lecta a Labillardière).

1997. **L. globulosa** Floerke, Nyl. *Lich. Lapp. orient.* p. 149, ubi definitur; *L. anomala* Nyl. *Lich. Scand.* p. 202, ubi definitur; *L. vernalis* var. *mixta* Nyl. *Lich. Algér.* p. 344, ubi definitur; *L. vernalis* var. *anomala* Nyl. *Enum. Lich.* p. 121 et *Lich. Algér.* p. 313. = In Africa boreali (Algeria). — Etiam in Europa.

1998. **L. planella** Nyl. *Syn. Lich. N. Caled.* p. 45, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledon).

1999. **L. sordidella** Nyl. in litt.; *L. sordidula* Nyl. *Prodr. Fl. N. Gran.* ed 1<sup>a</sup> p. 44 et ed. 2<sup>a</sup> p. 59, ubi definitur; quod nomen mutatum fuit, utpote jam adhibitum, cfr. infra n° 2312. = In America tropica (Nova Granata).

2000. **L. phæomela** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 59 in notula, ubi definitur. = In America tropica (ins. Cuba).

2001. **L. circumalbicans** Nyl. *Lich. Jap.* p. 63, ubi definitur; thallus K lutescit. = In Asia orientali (Japonia).

2002. **L. perminima** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43 et ed. 2<sup>a</sup> p. 57 atque *Observ. Cænog.* p. 89, ubi definitur. = In America tropica (Nova Granata).

2003. **L. concatenata** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed 2<sup>a</sup> p. 58 in notula, ubi definitur. = In America tropica (ins. Cuba).

2004. **L. subvernalis** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 58 in notula, ubi definitur. — *Biatora subvernalis* Tuck. = In America tropica (ins. Cuba).

2005. **L. lætior** Nyl. *Prodr. Fl. N. Gran.* ed 2<sup>a</sup> p. 58 in notula, ubi definitur. = In America tropica (ins. Cuba).

2006. **L. melænella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> 44 et ed. 2<sup>a</sup> p. 58, ubi definitur. = In America tropica (Nova Granata).

2007. **L. trichroa** Nyl. *Syn. Lich. N. Caledon.* p. 43, ubi definitur; thallus K flavescit. = In Oceania (Nova Caledonia).

2008. **L. griseo-fuscescens** Nyl. *Lich. N. Caled. Exposit.* p. 47 et *Syn.* p. 44 ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2009. **L. cervino-fusca** Nyl. *Lich. Andam.* p. 11, ubi definitur. = In Asia meridionali (ins. Andaman).

2010. **L. pyrophthalma** Nyl. *Lich. And. Boliv.* p. 380 et *Lich. N. Zeland.* 1888, p. 83,

ubi definitur; *Enum. Lich.* p. 121. — *Parmelia pyrophthalma* Bab. *Fl. N. Zeal.* p. 28 tab. CXXIX A. = In Oceania (Nova Zelandia).

2011. **Lecidea semipallida** Nyl. *Lich. N. Zeland.* 1888, p. 84, ubi definitur. = In Oceania (Nova Zelandia).

2012. **L. synotheoides** Nyl. *Lich. Jap.* p. 63, ubi definitur. = In Asia orientali (Japonia).

4. — Stirps *Lecidæ intermixtæ* Nyl.

Sporæ 8<sup>næ</sup> incolores, 1-septatæ; paraphyses discretæ. Spermatia et sterigmata ut in præcedente stirpe.

2013. **L. intermixta** Nyl. *Lich. Scand.* p. 194, *Addit. Fl. chil.* p. 161 et *Syn. Lich. N. Caled.* p. 44, ubi definitur; *Enum. Lich.* p. 120. = In Africa boreali (Algeria, *Lich. And. Boliv.* p. 367 in notula). — In America meridionali (Chili). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

— F. **cyanocentra** Nyl. *Lich. Port Natal* p. 9, ubi definitur. = In Africa meridionali (Portu Natali).

— Var. **trachonoides** Nyl. *Syn. Lich. N. Caled.* p. 45, ubi definitur; in *Flora* 1867, p. 195; *L. trachonoides* Nyl. *Exposit. Lich. N. Caled.* p. 48, ubi definitur. = In Oceania (Nova Caledonia).

2014. \* **L. melaleuca** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 56 in notula, ubi definitur; *Syn. Lich. N. Caled.* p. 45. = In America tropica (ins. Cuba). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 85, ubi sporæ definiuntur).

2015. \*\* **L. subfuscata** Nyl. *Lich. exot.* p. 243, ubi definitur; *Enum. Lich.* p. 120. = In Asia meridionali (ins. Ceylonia). — In Africa meridionali (promont. Bonæ Spei). — In Oceania (ins. Java, *Flora* 1866, p. 132, ubi definitur forma peculiaris; Polynesia).

2016. **L. intermiscens** Nyl. *Syn. Lich. N. Caled.* p. 45, ubi definitur. = In America tropica (Brasilia).

2017. **L. obludens** Nyl. *Lich. Fueg.* p. 12, ubi definitur. = In America australi (Fuegia).

2018. **L. sublivens** Nyl. *Lich. N. Zeland.* 1888, p. 84, ubi definitur. = In Oceania (Nova Zelandia).

2019. **L. spodophana** Nyl. *Lich. N. Zeland.* 1888, p. 84, ubi definitur. = In Oceania (Nova Zelandia).

2020. **L. circumpallescens** Nyl. *Lich. Jap.* p. 65, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).

2021. **L. afferens** Nyl. *Lich. Jap.* p. 65, ubi definitur; thallus K —. = In Asia orientali (Japonia).

2022. **L. efferens** Nyl. *Lich. Jap.* p. 65, ubi definitur. = In Asia orientali (Japonia).

2023. **L. proferens** Nyl. *Lich. Jap.* p. 65, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).

2024. \* **L. simodensis** Tuck. *Observat.* 1862, p. 420, et *Syn. North Americ. Lich.* II, p. 160, Nyl. *Lich. Jap.* p. 66. = In Asia orientali (Japonia, Simoda).

2025. **L. cæσιο-pallens** Nyl. *Lich. N. Zeland.* 1888, p. 85, et *Lich. Campb.* p. 90, ubi definitur. = In Oceania (Nova Zelandia et ins. Campbell).

— Var. **amcenior** Nyl. *Lich. N. Zeland.* 1888, p. 85, ubi definitur. = In Oceania (Nova Zelandia).

2026. **L. stillata** Nyl. *Lich. N. Zeland.* 1888, p. 86, ubi definitur. = In Oceania (Nova Zelandia).

2027. **L. endochroma** Nyl. *Lich. Antill.* p. 15, ubi definitur; *Prodr. Fl. N. Gran.*

ed. 2<sup>a</sup> p. 66; *Enum. Lich.* p. 123. — *Lecanora endochroma* Fée. = In America tropica (Mexico, *Flora* 1858, p. 380; Peruvia, *Lich. exot.* p. 224).

2028. **Lecidea leptocheila** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 66 et *Lich. Antill.* p. 14, ubi definitur. = In America tropica (Mexico, ins. Cuba).

— Var. **eucheila** Nyl. *Lich. Antill.* p. 14, ubi definitur. = In America tropica (ins. Guadalupa).

2029. **L. melanotropia** Nyl. *Lich. N. Zeland.* 1861, p. 255, et 1888, p. 86, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

2030. **L. hemitropa** Nyl. *Lich. N. Zeland.* 1888, p. 86, ubi definitur. = In Oceania (Nova Zelandia).

2031. **L. leptocheilodes** Nyl. apud Cromb. *Challeng. Exped.* p. 225, ubi definitur. = In Oceania (ins. Taiti).

2032. **L. Stereocaulorum** Th. Fr., Nyl. *Lich. Lapp. orient.* p. 182, ubi definitur; *L. uniseptata* Nyl. *Enum. Lich.* p. 127. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 55). — Etiam in Europa.

### 5. — Stirps *Lecidea cyrtellæ* Ach.

Sporæ 8<sup>m</sup> incolores, 1 septatæ; spermatia lageniformia.

2033. **L. expallidescens** Nyl. *Lich. Fr. Behr.* p. 32; *L. expallescens* Nyl. in *Flora* 1884, p. 214, ubi definitur; thallus K + flavet. = In Asia boreali (Komgambay).

2034. **L. rubicola** Crouan, Nyl. in *Flora* 1869, p. 294, ubi definitur. = In Africa occidentali (ins. San Thomé, *Contrib. da Flor. d'Afric.* p. 7 et *Lich. ins. Guin.* p. 21). — Etiam in Europa (Gallia).

2035. **L. Heerii** Hepp, Nyl. *Lich. Lapp. orient.* p. 152 et *Lich. Middend.* p. 3, ubi definitur; *L. anomala* f. *Wallrothii* Nyl. *Lich. Scand.* p. 203, ubi definitur; *L. vernalis* f. *Wallrothii* Nyl. *Enum. Lich.* p. 121. — *Scutula Wallrothii* Tul., Nyl. *Lich. Algér.* p. 213 in notula. = In Asia boreali (Sibiria, *Lich. Middend.* p. 3 et *Lich Fr. Behr.* p. 74). — Etiam in Europa.

2036. **L. subternella** Nyl. *Lich. ins. Guin.* p. 22, ubi definitur. = In Africa occidentali (ins. San Thomé).

### 6. — Stirps *L. versicoloris* Fée.

Sporæ incolores, sæpe 1-4, raro 8 in thecis, 1-septatæ; spermatia recta; sterigmata dicuntur simplicia in *Lich. Port Natal* p. 9, arthrosterigmata in *Lich. N. Zeland.* 1888, p. 88.

2037. **L. versicolor** Fée *Essai Supplém.* p. 104, Nyl. *Syn. Lich. N. Caled.* p. 49, *Lich. Port Natal* p. 9, et *Lich. N. Zeland.* 1888, p. 88, ubi definitur; *Enum. Lich.* p. 122. — *Lecanora versicolor* Fée *Essai* p. 115, tab. XXVIII, fig. 4. = In Africa meridionali (Portu Natali). — In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 47 et ed. 2<sup>a</sup> p. 65, ubi thallus definitur; Peruvia, *Lich. exot.* p. 224; Brasilia, *Flora* 1869, p. 119). — In Oceania (Nova Caledonia, *Expos. Lich. N. Caled.* p. 47 et *Flora* 1867, p. 195; Nova Zelandia).

2038. **L. vigilans** Nyl. in *Flora* 1886, p. 173, *Contrib. da Fl. d'Afric.* p. 7 et *Lich. ins. Guin.* p. 19, ubi sporæ definiuntur; *L. versicolor* var. *vigilans* Nyl. *Enum. Lich.* p. 122. — *Lecanora vigilans* Tayl.; *Lecanora versicolor* var. *vigilans* Nyl. in *Flora* 1869, p. 118, ubi definitur. = In Africa occidentali (ins. San Thomé). — In America tropica (ins. Cuba; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 47, ed. 2<sup>a</sup> p. 65 et *Addit.* p. 558, ubi sporæ definiuntur; Venezuela; Peruvia, *Lich. exot.* p. 224 in notula; Brasilia).



2039. **Lecidea melaclina** Nyl. *Lich. N. Zeland.* 1888, p. 88, ubi definitur. = In Oceania (Nova Zelandia).
2040. **L. melastegia** Nyl. *Lich. N. Zeland.* 1888, p. 88, ubi definitur. = In Oceania (Nova Zelandia).  
— **F. mesoleucodes** Nyl. *Lich. Fueg.* p. 15, ubi definitur. = In America australi (Fuegia).
2041. **L. megacarpa** Nyl. *Lich. exot.* p. 260, ubi definitur; *Enum. Lich.* p. 122. = In Africa orientali (ins. Maurilii).
2042. **L. grandis** Nyl. *Enum. Lich.* p. 122. — *Heterothecium taiitense* Mont. *Plant. Junghuhn.* p. 462. = In Oceania (ins. Java).
2043. **L. marginiflexa** Tayl., Nyl. *Lich. N. Zeland.* 1888, p. 87, ubi definitur; *Enum. Lich.* p. 122; Arn. *Exsicc.* 1240; Lojka *Lich. univ.* n° 139. = In Asia orientali (Japonia, *Lich. Jap.* p. 66). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 255; ins. Campbell, *Lich. Campb.* p. 90).  
— Var. 1. **nilgherrensis** Nyl. *Enum. Lich.* p. 122. = In Asia meridionali (India).  
— Var. 2. **atro-rubricans** Nyl. in *Flora* 1866, p. 132, et *Syn. Lich. N. Caled.* p. 49, ubi definitur; *L. marginiflexa* Nyl. *Exposit. Lich. N. Caled.* p. 47 et in *Flora* 1867, p. 195. = In Oceania (ins. Java; Nova Caledonia).
2044. **L. glaucescens** Nyl. in *Flora* 1855, p. 674, ubi definitur; *Enum. Lich.* p. 122. = In America tropica (Peruvia, *Lich. exot.* p. 224).
2045. **L. taiitensis** Nyl. *Addit. Fl. chil.* p. 162 et *Lich. N. Zeland.* 1888, p. 87, ubi definitur; *Enum. Lich.* p. 122. — *Biatora taiitensis* Mont. *Sylog.* p. 338. = In Oceania (ins. Taiti, *Lich. exot.* p. 243; Nova Zelandia).
2046. \* **L. epiglauca** Nyl. *Lich. N. Zeland.* 1888, p. 87, ubi definitur. = In Oceania (Nova Zelandia).
2047. **L. endochromoides** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 558 et *Lich. N. Zeland.* 1888, p. 89, ubi definitur; sporæ placodiomorphæ. = In America tropica (Cordillera de Ranco). — In Oceania (Nova Zelandia).
2048. **L. iodomma** Nyl. *Lich. N. Zeland.* 1888, p. 89, ubi definitur; sporæ placodiomorphæ. = In Oceania (Nova Zelandia).
2049. **L. coaddita** Nyl. *Lich. Jap.* p. 66, ubi definitur. = In Asia orientali (Japonia).

7. — Stirps *Lecideæ sabuletorum* Floerke.

Sporæ 8<sup>ang</sup>, incolores, 3-7 septatæ; paraphyses non discretæ; spermatia recta sterigmatibus simplicibus infixa.

2050. **L. sphæroides** Sommerf., Nyl. *Lich. Scand.* p. 204 et *Lich. Lapp. orient.* p. 150, ubi definitur. — *Lichen sphæroides* Dickson. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 23). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 65). — Etiam in Europa.  
— Var. **vacillans** Nyl. *Lich. Scand.* p. 204 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 58 in notula, ubi definitur. = In America tropica (ins. Cuba). — Etiam in Europa (Suecia).
2051. **L. pallidella** Nyl. in *Flora* 1885, p. 443, et *Lich. Fr. Behr.* p. 46, ubi definitur. = In Asia boreali (Lawrence insula).
2052. **L. sibiriensis** Willey, Nyl. *Lich. Fr. Behr.* p. 46, ubi definitur. = In Asia boreali (Sibiria).
2053. **L. hyaliniza** Nyl. in *Flora* 1885, p. 442, et *Lich. Fr. Behr.* p. 52, ubi definitur. = In Asia boreali (Behring insula).
2054. **L. dimidiata** Nyl. *Lich. Fueg.* p. 34, ubi definitur. — *Lecanora dimidiata* Bab., Leight. *Lich. Amazon et And.* p. 416. = In America tropica (Brasilia).

2055. **Lecidea cyrtelloides** Nyl. *Lich. exot.* p. 243, ubi definitur; *Enum. Lich.* p. 421. = In Oceania (ins. Sandwich).
2056. **L. byssomorpha** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 44, ed. 2<sup>a</sup> p. 59 et *Addit.* p. 555, ubi definitur. = In America tropica (Nova Granata).
2057. **L. thysanota** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 59, ubi definitur. — *Biatora thysanota* Tuck. *Syn. North America Lich.* II, p. 158. = In America tropica (ins. Cuba).
2058. **L. leucoblephara** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 52 in notula, *Lich. Antill.* p. 15 et in *Flora* 1886, p. 325, ubi definitur; *Enum. Lich. Supplém.* p. 337; *Lich. Jap.* p. 64. = In America septentrionali (Carolina) et tropica (ins. Guadalupa). — In Oceania (Australia). — Etiam in Europa.
2059. **L. leucocheila** Nyl. *Lich. Jap.* p. 64, ubi definitur; in *Flora* 1869, p. 234. — *Biatora leucocheila* Tuck. *Observat.* 1860, p. 278, et *Syn. Lich. North Americ.* II, p. 159. = In Asia orientali (Japonia). — In America tropica (ins. Cuba).
2060. **L. leucocheilodes** Nyl. in *Flora* 1869, p. 234, ubi definitur. = In Africa occidentali (ins. Madera).
2061. **L. chloroplaca** Fée *Essai sur les Cryptog. des écorces officin. Supplém.* p. 102, Nyl. *Lich. Jap.* p. 64. = In America tropica.
2062. **L. allotropa** Nyl. in *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 254, et 1888, p. 92, ubi definitur. = In Oceania (Nova Zelandia).
2063. **L. sophodella** Nyl. *Contrib. da Fl. d'Afric.* p. 7 et *Lich. ins. Guin.* p. 22, ubi definitur. = In Africa occidentali (ins. San Thomé).
2064. **L. imitans** Nyl. — *Lecanora imitans* Nyl. *Lich. ins. Guin.* p. 17, ubi definitur; fere *Platygrapha*. Thallus K parum flavescit, CaCl —. = In Africa occidentali (ins. San Thomé).
2065. **L. vagula** Nyl. *Lich. ins. Guin.* p. 21, ubi definitur; thallus K et CaCl —. = In Africa occidentali (ins. San Thomé).
2066. **L. sabuletorum** Floerke, Nyl. *Lich. Scand.* p. 204 et *Lich. Lapp. orient.* p. 150, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 24). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 65). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 254, et 1888, p. 91, ubi hypothecium definitur). — Etiam in Europa.
2067. **L. triplicans** Nyl. *Lich. Fr. Behr.* p. 24; *L. sabuletorum* var. *triplicans* Nyl. *Lich. Scand.* p. 205, ubi definitur. = In Asia boreali (Konyambay). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 65). — Etiam in Europa.
2068. \* **L. meibola** Nyl. apud Norrlin *Flora Karel. Oneg.* p. 30; Stizenb. *Lich. helvet.* p. 163 et Brenner *Hogl. Lafear* p. 91. — *Bilimbia microcarpa* Th. Fr. *Lich. scand.* p. 376. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 65). — Etiam in Europa.
2069. **L. syncomista** Nyl. *Lich. Fr. Behr.* p. 23; *L. sabuletorum* var. *syncomista* Floerke, Nyl. *Lich. Scand.* p. 205, ubi definitur; = In Asia boreali (Konyambay). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 65). — Etiam in Europa.
2070. **L. milliaris** Fr.; *L. sabuletorum* var. *milliaris* Nyl. *Lich. Scand.* p. 205, ubi definitur; *L. vernalis* var. *milliaris* Nyl. *Enum. Lich.* p. 421. = In Africa. — In America. — Etiam in Europa.
- Var. **triseptata** Nyl. in *Flora* 1878, p. 248, ubi definitur; *L. triseptata* Hepp, Nyl. *Lich. N. Caledon.* p. 46, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 23). — In Oceania (ins. Java, *Flora* 1866, p. 432; Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.
2071. **L. rhyparobola** Nyl. *Lich. N. Zeland.* 1888, p. 92 et fig. 14, ubi definitur. = In Oceania (Nova Zelandia).
2072. **L. triseptulans** Nyl. *Lich. Jap.* p. 111, ubi definitur. = In Oceania (ins. Labuan).

2073. **Lecidea ternaria** Nyl. *Lich. Fr. Behr.* p. 46, ubi definitur; *L. sabuletorum* var. *ternaria* Nyl. *Lich. Lapp. orient.* p. 151 et in *Flora* 1877, p. 232, ubi definitur. = In Asia boreali (Lawrence ins.). — Etiam in Europa.
2074. **L. subrudis** Nyl. *Lich. Jap.* p. 64, ubi definitur. = In Asia orientali (Japonia).
2075. **L. melæna** Nyl. *Lich. Scand.* p. 205, ubi definitur; *L. vernalis* var. *melæna* Nyl. *Prodr. Lich. Gall.* p. 407, ubi definitur, et *Enum. Lich.* p. 421. = In Asia orientali (Japonia, *Lich. Jap.* p. 64). — Etiam in Europa.
2076. **L. deposita** Nyl. *Lich. N. Zeland.* 1888, p. 91, ubi definitur. = In Oceania (Nova Zelandia).
2077. **L. allinita** Nyl. in *Flora* 1884, p. 223, et *Lich. Fr. Behr.* p. 23, ubi definitur. = In Asia boreali (Konyambay).
2078. **L. suballinita** Nyl. in *Flora* 1885, p. 442, et *Lich. Fr. Behr.* p. 46, ubi definitur. = In Asia boreali (Lawrence ins.).
2079. **L. sororiella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 43, tab. I, fig. 23, et ed. 2<sup>a</sup> p. 57, ubi definitur. = In America tropica (Nova Granata).
2080. **L. artytoides** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 57, ubi definitur. = In America tropica (ins. Cuba).
2081. **L. comparanda** Nyl. in *Flora* 1866, p. 432, ubi definitur. = In Oceania (ins. Java).
2082. **L. andesita** Nyl. *Prodr. Fl. N. Gran.* in indice p. 584; *L. andita* Nyl. *ibid. Addit.* p. 555 et in *Flora* 1864, p. 620, ubi definitur. = In America tropica (Nova Granata).
2083. **L. trachona** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 554, ubi definitur; *L. vernalis* var. *trachona* Nyl. *Addit. Fl. chil.* p. 161, ubi etiam definitur; in *Flora* 1864, p. 620; *Enum. Lich.* p. 421. — *Biatora trachona* Flot. = In America septentrionali (Louisiana) et tropica (ins. Guadalupa, *Lich. Antill.* p. 15, ubi sporæ definiuntur; Nova Granata) et meridionali (Chili). — Etiam in Europa.
- Var. 1. **chloroticoides** Nyl. in *Flora* 1864, p. 620 in notula et *Prodr. Fl. N. Gran. Addit.* p. 554, ubi definitur; *Lich. Antill.* p. 15. = In America tropica (Nova Granata).
- Var. 2. **marginatula** Nyl. in *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 254, et 1888, p. 91, ubi definitur. = In Oceania (Nova Zelandia).
2084. **L. trachonopsis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 64, ubi definitur. = In Asia orientali (China).
2085. **L. livido-fusca** Nyl. *Syn. Lich. N. Caledon.* p. 42 in notula, et in *Flora* 1869, p. 422, ubi definitur. = In Oceania (Australia).
2086. **L. livido-fuscescens** Nyl. in *Flora* 1869, p. 422, ubi definitur. = In America tropica (Brasilia).
2087. **L. mesophæa** Nyl. *Lich. ins. Guin.* p. 47, ubi definitur. Est e stirpe *L. violaceæ* Crouan. = In America septentrionali (Florida).
2088. **L. diploiza** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 95 in notula, ubi definitur. = In America tropica (Peruvia).
2089. **L. prasino-rubella** Nyl. in *Flora* 1866, p. 432, ubi definitur. = In Oceania (ins. Java).
2090. **L. livido-nigricans** Nyl. *Lich. N. Zeland.* 1888, p. 446, ubi definitur pr. p. — *Biatora livido-nigricans* Tuck. *Syn. North Americ. Lich.* II, p. 459. = In America australi (freto Magellanico).
2091. **L. connexula** Nyl. *Lich. Jap.* p. 111, ubi definitur; thallus K —. = In Oceania (ins. Labuan).



8. — Stirps *Lecideæ pachycarpæ* Duf.

Sporæ incolores, 4-8 in thecis, pluriseptatæ; spermatia recta; sterigmata simplicia.

2092. **Lecidea pachycarpa** Duf., Nyl. *Prodr. Lich. Gall.* p. 118, ubi definitur; *Enum. Lich.* p. 123. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 9, ubi sporæ definiuntur). — Etiam in Europa.

2093. **L. dolichospora** Nyl. *Addit. Fl. chil.* p. 162, ubi definitur. = In America meridionali (Chili).

2094. **L. tuberculosa** Fée *Essai* p. 107, tab. XXVII, fig. 4, et *Supplém.* p. 105, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 47 et ed. 2<sup>a</sup> p. 66, ubi definitur; *Enum. Lich.* p. 123. = In Asia orientali (Japonia, *Lich. Jap.* p. 66, ubi sporæ definiuntur). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 260, ubi definitur forma peculiaris), meridionali (Portu Natali, *Lich. Port Natal* p. 10) et occidentali (ins. San Thomé, *Flora* 1886, p. 173, et *Contrib. da Fl. d'Afric.* p. 7 et *Lich. ins. Guin.* p. 49, ubi sporæ definiuntur). — In America tropica (Mexico, *Flora* 1838, p. 380; Nova Granata; Peruvia, *Lich. exot.* p. 224, *Biatora porphyritis* Tuck.).

— F. **macrocarpa** Nyl. *Lich. exot.* p. 260, ubi definitur. = In Africa orientali (ins. Borbonia).

2095. **L. chloritis** Tuck., Nyl. *Lich. exot.* p. 260 in notula et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 66, ubi definitur. = In America septentrionali et tropica (ins. Cuba).

2096. **L. pachycheila** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 67, ubi definitur. = In America septentrionali.

2097. **L. conjuncta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 48 et ed. 2<sup>a</sup> p. 67, ubi definitur. = In Africa orientali (ins. Borbonia).

2098. **L. amplificans** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur; in *Addit. ejusdem operis* p. 558 refertur ad *Lecanoras*. = In America tropica (Nova Granata).

2099. **L. maderensis** Nyl. *Contrib. da Fl. d'Afric.* p. 7, ubi sporæ definiuntur. — *Lecanora maderensis* Krempelh., Nyl. *Lich. Madère* p. 189; *Lecanora amplificans* f. *maderensis* Krempelh Nyl. in *Flora* 1868, p. 233, ubi sporæ definiuntur. = In Africa occidentali (ins. Madera).

2100. **L. thomensis** Nyl. in *Flora* 1886, p. 173, *Contrib. da Fl. d'Afric.* p. 7 et *Lich. ins. Guin.* p. 49, ubi definitur. = In Africa occidentali (ins. San Thomé).

2101. **L. melanocarpa** Nyl. *Lich. exot.* p. 260, ubi definitur; *Enum. Lich.* p. 123. = In Africa orientali (ins. Borbonia et Madagascar).

2102. **L. coccodes** Bél., Nyl. *Enum. Lich.* p. 123. Epithecium et margo apotheciorum K purpurascunt, *Syn. Lich. N. Caled.* p. 50. = In Asia meridionali (India).

9. — Stirps *Lecideæ pezizoideæ* Ach.

Sporæ incolores vel fuscæ, normaliter 4, sed aliquando 4-8 in thecis, magnæ, murali-divisæ; spermatia recta; arthrosterigmata brevi-articulata.

2103. **L. pezizoidea** Ach., *Syn. Lich.* p. 26, Nyl. *Prodr. Lich. Gall.* p. 118, *Lich. Scand.* p. 212 et *Lich. Lapp. orient.* p. 156, ubi definitur; *Enum. Lich.* p. 123. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 9 et 22) et orientali (Japonia, *Lich. Jap.* p. 66). — In America boreali. — Etiam in Europa.

— F. 1. **muscicola** Sommerf., Nyl. *Lich. Fr. Behr.* pp. 47 et 54. = In Asia boreali (Lawrence ins. etc.). — Etiam in Europa.

— F. 2. **coralloidea** Nyl. *Lich. Lapp. orient.* p. 156, ubi definitur. = In Asia boreali (in eadem regione). — Etiam in Europa.

2104. **Lecidea fecunda** Nyl. *Lich. Fr. Behr.* p. 66. — *Lopadium fecundum*. Th. Fr. *Lich. scand.* p. 391. = In America boreali (Port-Clarence). — Etiam in Europa.

2105. **L. fusco-lutea** Ach., Sommerf., Nyl. *Lich. N. Zeland.* 1888, p. 90, ubi definitur; non *L. fusco-lutea* Nyl. *Lich. Scand.* p. 146. — *Lichen fusco-luteus* Dicks. — *Lecanora fusco-lutea* Nyl. *Lich. Fr. Behr.* pp. 8 et 44; epithecium K purpurascit. = In Asia boreali (Lawrencebay et Lawrence ins.) et orientali (Japonia, *Lich. Jap.* p. 66, ubi sporæ definiuntur). — In Oceania (Nova Zelandia). — Etiam in Europa boreali.

2106. **L. chrysosticta** Tayl., Nyl. *Lich. N. Zeland.* 1888, p. 90, ubi definitur. — *Lecanora chrysosticta* Nyl. *Lich. N. Zeland.* 1864, p. 252, ubi definitur; *Enum. Lich.* p. 115. — *Heterothecium Berteroanum* Mont., Nyl. *Addit. Fl. chil.* p. 184; thallus K flavet. = In America meridionali (Chili). — In Oceania (Nova Zelandia).

2107. **L. phæomma** Nyl. *Lich. N. Zeland.* 1888, p. 90, ubi definitur; thallus K flavet. = In Oceania (Nova Zelandia).

2108. **L. cupulifera** Nyl. *Lich. ins. Guin.* p. 20 in notula, ubi definitur; *Enum. Lich.* p. 123. = In Oceania (Sumatra).

2109. **L. Puiggarii** Nyl. *Lich. Fueg.* p. 34, ubi definitur. — *Heterothecium Puiggarii* J. Mueller in *Flora* 1881, p. 13. = In America tropica (Brasilia).

2110. **L. glaucophæodes** Nyl. *Lich. ins. Guin.* p. 19, ubi definitur; thallus K obsolete flavescit. = In Africa occidentali (ins. San Thomé).

2111. **L. peribyssiza** Nyl. *Lich. ins. Guin.* p. 20, ubi definitur. = In Africa occidentali (ins. San Thomé).

2112. **L. Cuticula** Fée *Essai* p. 112, tab. XXVI, fig. 8, et *Supplém.* p. 109, Nyl. *Lich. exot.* p. 224 et *Enum. Lich.* p. 123. = In America tropica (Peruvia).

2113. **L. lecanorella** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 68 et in *Flora* 1866, p. 292, ubi definitur; *Enum. Lich.* p. 123. = In America tropica (Guyana gallica).

2114. **L. sophodina** Nyl. in litt. = In Asia meridionali (Singapour, legit Almquist).

2115. **L. stephanella** Nyl. in *Flora* 1866, p. 291, ubi definitur. = In America tropica (ins. Cuba).

2116. **L. cyttarina** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 68, ubi definitur; *L. lecanorella* Nyl. *ibid.* ed. 1<sup>a</sup> p. 48 et tab. I, fig. 24. = In America tropica (Nova Granata).

2117. **L. argyromela** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 68 in notula, ubi definitur. = In America tropica (ins. Cuba).

2118. **L. heterospora** Nyl. *Enum. Lich.* p. 123. «Thallus albus, tenuis, æqualis, nigrolimitatus. Apothecia atra, prominula, plana, margine crasso flexuoso leviter vel vix albicante, intus nigra. Sporæ 8<sup>næ</sup> incolores, ovoideæ, 3-septatæ, adhuc septulo longitudinali sæpius fere quovis loculo ita transversali-diviso; thalamium violacee tinctum; paraphyses non vel parce discretæ, valde graciles; hypothecium infuscatum. Iodo gelatina hymenialis intense et persistenter cærulescens.» = In America tropica (Guyana gallica, corticola).

2119. **L. admixta** Nyl. *Lich. exot.* p. 224 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 48 et ed. 2<sup>a</sup> p. 68, ubi definitur; *Enum. Lich.* p. 123. = In America tropica (Peruvia; Nova Granata).

2120. **L. perpallida** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 69 in notula et *Lich. Antill.* p. 16, ubi definitur. = In America tropica (ins. Cuba et Guadalupa).

2121. **L. argentea** Nyl. *Enum. Lich.* p. 123. — *Biatora argentea* Mont. *Syllog.* p. 338. = In Oceania (ins. Taïti, *Lich. exot.* p. 243).

2122. **L. reveniens** Nyl. *Enum. Lich.* p. 123. — *Sporopodium Leprieurii* Mont. *Cryptog. Guyan.* p. 36. = In America tropica (Guyana gallica).

2123. **L. phyllocharis** Nyl. *Lich. exot.* p. 243 et *Enum. Lich.* p. 123. — *Biatora phyl-*

*locharis* Mont. *Sylog.* p. 340. = In America tropica (Brasilia). — In Oceania (ins. Taïti).

2124. **Lecidea tristis** Nyl. *Enum. Lich.* p. 123. — *Biatora tristis* Mont. *Sylog.* p. 338. = In Oceania (ins. Taïti, *Lich. exot.* p. 243).

2125. **L. leucoxantha** Spr., Nyl. *Enum. Lich.* p. 123. — *Biatora tricolor* Mont.; apothecia K purpurascunt. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 260) et meridionali Portu Natali, *Lich. Port Natal* p. 10; promont. Bonæ Spei, Nyl. apud Cromb. *Lich. capens.* p. 177, ubi spermatia definiuntur et hæc *Lecidea* ad *Lecanoras* refertur). — In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 48, ed. 2<sup>a</sup> p. 69 et *Addit.* p. 559; Peruvia, *Lich. exot.* p. 245, *Lecanora desquamescens* Fée). — In Oceania (ins. Taïti, *Lich. exot.* p. 243).

— Var. **ochrocarpa** Nyl. *Enum. Lich.* p. 123. = In Africa orientali (ins. Mauritii).

2126. **L. vulpina** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 69 et *Syn. Lich. N. Caled.* p. 50, ubi definitur. — *Heterothecium vulpinum* Tuck. *Syn. North Americ. Lich.* II, p. 57. — *Lecanora vulpina* Nyl. *Lich. Port Natal* p. 6; epithecium et margo apotheciorum K purpurascunt. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 56). — In Africa orientali (ins. Mauritii) et meridionali (Portu Natali). — In America tropica (Guyana et ins. Cuba). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

— Var. **subglaucescens** Nyl. in litt.; *L. vulpina* var. *glaucescens* Nyl. *Syn. Lich. N. Caled.* p. 51, illud nomen rejiciendum erat, quia jam adest *L. glaucescens* Nyl. supra n° 2014. = In Oceania (Nova Caledonia).

2127. **L. subvulpina** Nyl. *Syn. Lich. N. Caled.* p. 50 in notula, ubi definitur; epithecium et conceptaculum K cærulee tinguntur. = In America tropica.

2128. **L. Molleri** Henriq., Nyl. *Lich. ins. Guin.* p. 20, ubi definitur. = In Africa occidentali (ins. San Thomé).

2129. **L. bifera** Nyl. *Lich. N. Caled. Exposit.* p. 47 et *Syn.* p. 49, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 69, ubi definitur; *Enum. Lich.* p. 123, *L. leucoxantha* var. *bispora* Nyl.; epithecium K purpurascit. = In Africa orientali (ins. Mauritii). — In America tropica (Guyana). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

— Var. **plurifera** Nyl. *Syn. Lich. N. Caled.* p. 50, ubi definitur. = In Oceania (Nova Caledonia, *Flora* 1867, p. 195, *L. plurifera* Nyl.).

2130. **L. parabola** Nyl. *Syn. Lich. N. Caled.* p. 51, ubi definitur; epithecium K purpurascit. = In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

#### 10. — Stirps *Lecidæ luteolæ* Ach.

Sporæ 8<sup>næ</sup>, incolores, aciculares vel bacillares, simplices vel pluri-septatæ; paraphyses non discretæ; spermatia oblonga, recta vel arcuata; sterigmata simplicia.

2131. **L. baculifera** Nyl. *Lich. Jap.* p. 67, ubi definitur. = In Asia orientali (Japonia).

2132. **L. rosella** Ach., Nyl. *Lich. Scand.* p. 208, ubi definitur; *Enum. Lich.* p. 122. — *Lichen rosellus* Pers. = In America tropica (Mexico, *Flora* 1858, p. 380; Bolivia, *Lich. exot.* p. 224). — Etiam in Europa.

2133. **L. luteola** Ach., Nyl. *Lich. Scand.* p. 209, ubi definitur; *Enum. Lich.* p. 122. = In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 63, ubi sporæ definiuntur; Bolivia, *Lich. exot.* p. 224). — Etiam in Europa.

— F. 1. **conspondens** Nyl. *Syn. Lich. N. Caled.* p. 47, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

— F. 2. **adversa** Nyl. *Syn. Lich. N. Caled.* p. 47, ubi definitur; in *Flora* 1867, p. 195, ubi nominatur *L. pulverea* Borr. = In Oceania (Nova Caledonia).



— F. 3. **endoleucotera** Nyl. *Syn. Lich. N. Caled.* p. 48, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

— Var. **fusco-rubella** Nyl. *Lich. Scand.* p. 209 et in *Flora* 1869, p. 70, ubi definitur; *Prodr. Fl. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 64 in notulis. — *Verrucaria fusco-rubella* Hoffm. = In Asia meridionali (Bengalia). — Etiam in Europa.

2134. **Lecideia spadicea** Ach., Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 64 in notula, ubi definitur pr. p. = In Asia meridionali (Calcutta, *Flora* 1867, p. 5). — In America tropica (ins. Cuba).

2135. **L. subrubella** Nyl. *Lich. N. Zeland.* 1888, p. 97, ubi definitur. = In Oceania (Nova Zelandia).

2136. **L. subsimilans** Nyl. *Lich. N. Zeland.* 1888, p. 97 et fig. 4, ubi definitur. = In Oceania (Nova Zelandia).

2137. **L. rosello-carnea** Nyl. *Lich. N. Zeland.* 1888, p. 98, ubi definitur. = In Oceania (Nova Zelandia).

2138. **L. arceutina** Nyl. in *Flora* 1865, p. 147; *L. carneola* var. *arceutina* Ach.; *L. luteola* var. *arceutina* Nyl. *Prodr. Lich. Gall.* p. 114 et *Addit. Fl. chil.* p. 162 in notula, ubi apothecia, et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 63 in notulis, ubi sporæ definiuntur; *Enum. Lich.* p. 122. = In America meridionali (Chili, *Addit. Fl. chil.* p. 162 in notula). — Etiam in Europa.

2139. **L. arceutinoides** Nyl. *Lich. N. Zeland.* 1888, p. 97, ubi definitur; *L. arceutina* Nyl. *Lich. N. Zeland.* 1861, p. 256, ubi definitur; thallus K —. = In Oceania (Nova Zelandia).

2140. **L. endoleuca** Nyl. in *Flora* 1869, p. 295, ubi spermatia definiuntur; *L. luteola* var. *endoleuca* Nyl. in *Bot. Notis.* 1853, p. 98, *Addit. Fl. chil.* p. 162 et in *Flora* 1868, p. 234, ubi definitur; *Enum. Lich.* p. 122; *L. pulvereæ* Borr. ex ejus herbario, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 64 in notula. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 10, ubi forma quædam et sporæ definiuntur). — In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 63, ubi sporæ definiuntur, et *Addit.* p. 567; Chili). — In Oceania (Australia, *Flora* 1886, p. 324; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 94, ubi sporæ adhuc definiuntur æque ac in *Lich. N. Zeland.* 1861, p. 255, ubi nominatur *L. pulvereæ* f. *Laurocerasi*). — Etiam in Europa.

— F. **Laurocerasi** Nyl. — *Patellaria Laurocerasi* Dub. = In America tropica (Mexico, *Mexic. Plant.* p. 6; Martinica, *Prodr. Fl. N. Gran. Addit.* p. 557, ubi epithecium definitur). — Etiam in Europa.

2141. **L. proposita** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 557, ubi definitur; *L. endoleuca* var. *Laurocerasi* Nyl. in *Flora* 1864, p. 620, ubi etiam definitur. = In America tropica (Nova Granata).

2142. **L. endoleucoides** Nyl. in *Flora* 1868, p. 234, ubi definitur. = In Africa occidentali (ins. Madera).

2143. **L. septosior** Nyl. apud Cromb. *Austral. Lich.* p. 400, ubi definitur. = In Oceania (Australia).

2144. **L. endoleucula** Nyl. *Lich. Jap.* p. 68, ubi definitur. = In Asia orientali (Japonia).

2145. **L. millegrana** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 64, ac in *Flora* 1862, p. 397, ubi definitur; *Enum. Lich.* p. 122. — *Lecanora millegrana* Tayl. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 10). — In America tropica (Mexico, *Flora* 1858, p. 380; Nova Granata, *Flora* 1864, p. 620). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 255, et 1888, p. 93, ubi sporæ definiuntur). — Etiam in Europa (Lusitania, *Flora* 1865, p. 605).

— *F. fusco-nigrescens* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 64, ubi definitur. = In America tropica (Nova Granata).

2146. *Lecidea leucothalamia* Nyl. *Lich. N. Zeland.* 1861, p. 255, et 1888, p. 93, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

— *F. melachroa* Nyl. *Lich. N. Zeland.* 1861, p. 255, et 1888, p. 94, ubi definitur. = In eadem regione.

2147. *L. subrosella* Nyl. *Lich. N. Zeland.* 1888, p. 96, ubi definitur. = In Oceania (Nova Zelandia).

2148. *L. subluteola* Nyl. in *Flora* 1869, p. 122, ubi definitur; *Enum. Lich.* p. 122. = In America tropica (Brasilia).

2149. *L. squamulosa* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 47 et ed. 2<sup>a</sup> p. 64, ubi definitur. = In America tropica (Nova Granata).

2150. *L. fulgidula* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 47 et ed. 2<sup>a</sup> p. 65, ubi definitur. = In America tropica (Nova Granata).

2151. *L. albo-nigricans* Nyl. in *Flora* 1868, p. 234, ubi definitur. = In Africa occidentali (ins. Madera)

2152. *L. pleistophragma* Nyl. *Syn. Lich. N. Caled.* p. 46, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2153. *L. superula* Nyl. *Syn. Lich. N. Caled.* p. 48 et *Lich. N. Zeland.* 1888, p. 95, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia et Nova Zelandia).

2154. *L. subglobosa* Nyl. *Lich. N. Zeland.* 1888, p. 93 et fig. 3, ubi definitur. = In Oceania (Nova Zelandia).

2155. *L. albo-russula* Nyl. in *Flora* 1884, p. 213, et *Lich. Fr. Behr.* p. 33, ubi definitur; thallus K flavet. = In Asia boreali (Konyambay).

2156. *L. psorina* Nyl. *Enum. Lich.* p. 122. «Thallus ochroleuco-pallescens, cartilagineo-granulosus vel squamuloso-granulosus, granulis interdum fere imbricato-contiguus, obsolete crenulatis, parvis. Apothecia mediocria, fusca, prominula, plana, margine tenui vel evanescente cineta, intus obscura. Sporæ 8<sup>næ</sup> incolores, aciculares, pluri-septatæ (septis sæpius fere 15), longit. 0,070 et crass. 0.004 millim. Iodo gelatina hymenialis cærulescit vel vinose obscuratur; hypothecium medio sat dilute infuscatum. E stirpe *L. luteolæ* Ach. thallo et apotheciis distinguenda.» = In Asia meridionali (in montibus Nilgherrensibus Indiae orientalis, lignicola).

2157. *L. leucotripta* Nyl. *Lich. ins. Guin.* p. 22, ubi definitur. = In Africa occidentali (ins. San Thomé).

2158. *L. interponens* Nyl. *Lich. N. Zeland.* 1888, p. 94, ubi definitur; thallus K e flavo ferrugineo tingitur. = In Oceania (Nova Zelandia).

2159. *L. subdiscedens* Nyl. *Lich. Jap.* p. 67, ubi definitur; thallus K leviter flavescit. = In Asia orientali (Japonia).

2160. *L. rubellula* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 45 et ed. 2<sup>a</sup> p. 60 in notulis et *Syn. Lich. N. Caled.* p. 48, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2161. *L. hostheleoides* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 44, tab. I, fig. 28, et ed. 2<sup>a</sup> p. 60, ubi definitur. = In America tropica (Nova Granata).

2162. *L. smaragdascens* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 556, ubi definitur; *L. bacillifera* Nyl. in loc. citat. ed. 1<sup>a</sup> p. 45 et ed. 2<sup>a</sup> p. 60 definita et in *Flora* 1864, p. 620 indicata. = In America tropica (Nova Granata).

2163. *L. bacillifera* Nyl. *Lich. Scand.* p. 210 et *Prodr. Fl. N. Gran. Addit.* p. 556, ubi definitur. — *Bacidia Beckhausii* Koerb. = In America tropica (Nova Granata). — Etiam in Europa.

— **F. corticum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 61, ubi definitur. = In America tropica (ins. Cuba).

2164. **Lecidea incompta** Borr., Nyl. apud Norrlin *Tavastl. Flora* p. 489; *L. bacillifera* f. *incompta* Nyl. *Lich. Scand.* p. 210 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 61, ubi definitur; *L. luteola* var. *incompta* Nyl. *Lich. exot.* p. 243 et *Enum. Lich.* p. 122. = In America tropica (ins. Cuba). — In Oceania (ins. Sandwich.). — Etiam in Europa.

2165. **L. subfuscula** Nyl. in *Flora* 1865, p. 604, ubi definitur. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 65, ubi sporæ definiuntur). — Etiam in Europa arctica (Islandia).

2166. **L. albo-maculans** Nyl. in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 45, ed. 2<sup>a</sup> p. 60 et *Addit.* p. 556, ubi definitur. = In America tropica (Nova Granata).

2167. **L. subbacillifera** Nyl. *Lich. N. Zeland.* 1888, p. 95, ubi definitur. = In Oceania (Nova Zelandia).

2168. **L. inconueniens** Nyl. *Lich. Port Natal* p. 10, ubi definitur. = In Africa meridionali (Portu Natali).

2169. **L. Muscorum** Sw., Nyl. *Lich. Fr. Behr.* p. 23; *L. bacillifera* f. *Muscorum* Nyl. *Lich. Scand.* p. 210 et *Lich. Lapp. orient.* p. 155, ubi definitur. = In Asia boreali (Konyambay). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 66). — Etiam in Europa.

2170. **L. Herbarum** Hepp, Nyl. *Lich. Fr. Behr.* pp. 23 et 54; *L. bacillifera* var. *Herbarum* Nyl. *Lich. Lapp. orient.* p. 155, ubi definitur. = In Asia boreali (Konyambay, etc.). — Etiam in Europa.

2171. **L. medialis** Tuck., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 61, ubi definitur. = In Asia meridionali (Calcutta, *Flora* 1867, p. 5, ubi sporæ definiuntur). — In America septentrionali (Texas, e Tuck. *Syn. North Americ. Lich.* II, p. 132) et tropica (ins. Cuba; Nicaragua).

2172. **L. propinquella** Nyl. in *Flora* 1867, p. 5, ubi definitur. = In Asia meridionali (Calcutta).

2173. **L. subincompta** Nyl. in *Flora* 1865, p. 147; *L. bacillifera* var. *subincompta* Nyl. *Lich. Lapp. orient.* p. 155, ubi definitur; *Biatora atro-sanguinea* Hepp *Flecht. Europ.* 286. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 23). — Etiam in Europa.

2174. **L. subabbrevians** Nyl. in *Flora* 1884, p. 221, et *Lich. Fr. Behr.* p. 23, ubi definitur. = In Asia boreali (Konyambay).

2175. **L. abductans** Ny. *Lich. Jap.* p. 68, ubi definitur; thallus K —. — In America, septentrionali calida (Florida).

2176. **L. abducens** Nyl. *Lich. Jap.* p. 68, ubi definitur; thallus K —. = In Asia orientali (Japonia).

2177. **L. horista** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 556, ubi definitur in notula. = In America tropica (Brasilia).

2178. **L. stenospora** Nyl. in *Flora* 1869, p. 413, ubi definitur. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68 in notula). — Etiam in Europa.

2179. **L. alaskensis** Nyl. *Lich. Fr. Behr.* p. 88, ubi definitur; thallus K —, CaCl —. = In America boreali (Alaska).

2180. **L. malaccensis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 55, ubi definitur. = In Asia orientali (Malacca).

2181. **L. dissimulabilis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 55, ubi definitur. = In Asia orientali (Malacca).

2182. **L. heterobola** Cromb., Nyl. apud Cromb. *Challeng. Exped.* p. 214, ubi definitur. = In Africa occidentali (Arsenario promont. seu capite Viridi).

2183. **L. globulosella** Nyl. *Jap.* p. 69, ubi definitur; epithecium K violascit. = In Asia orientali (Japonia).



2184. **Lecidea ischnospora** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 45, ed. 2<sup>a</sup> p. 61 et *Addit.* p. 555, ubi definitur. In posteriore loco citato errore scribitur *L. ischnosorpa* Nyl. = In America tropica (Nova Granata).
2185. **L. trichospora** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 555, ubi definitur. = In America tropica (Nova Granata).
2186. **L. vestita** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 61 et *Lich. Port Natal* p. 40, ubi definitur. — *Biatora vestita* Mont. *Cryptog. guyan.* p. 34 pr. p., collect. Leprieur n° 505. = In Africa meridionali (Portu Natali). — In America tropica (Guyana).
2187. **L. chlorotica** Ach.; *L. luteola* var. *chlorotica* Nyl. *Lich. Lapp. orient.* p. 153 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 64 in notulis, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 68, ubi sporæ definiuntur). — In America tropica (ins. Cuba). — Etiam in Europa.
2188. **L. pseudophana** Nyl. *Lich. N. Zeland.* 1888, p. 99, ubi definitur. = In Oceania (Nova Zelandia).
2189. **L. rosello-pallida** Nyl. *Lich. N. Zeland.* 1888, p. 98, ubi definitur. = In Oceania (Nova Zelandia).
2190. **L. albido-lutea** Nyl. *Lich. N. Zeland.* 1888, p. 99, ubi definitur. = In Oceania (Nova Zelandia).
2191. **L. leucocarpa** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 99, ubi definitur. = In Oceania (Nova Zelandia).
2192. **L. gilvo-rufella** Nyl. *Lich. N. Zeland.* 1888, p. 100, ubi definitur. = In Oceania (Nova Zelandia).
2193. **L. microlepta** Nyl. *Lich. Jap.* p. 111, ubi definitur; thallus K —. = In Oceania (ins. Labuan).
2194. **L. cognata** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 62 in notula, ubi definitur. = In America tropica (ins. Cuba).
2195. **L. pertexta** Nyl. *Prodr. Fl. N. Gran.* loc. citat., ubi definitur. = In America tropica (ins. Cuba).
2196. **L. microphyllina** Tuck. pr. p., Nyl. *Prodr. Fl. N. Gran.* loc. citat., ubi definitur. = In America tropica (ins. Cuba).
2197. **L. microphylliniza** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 56, ubi definitur. = In Asia orientali (Malacca).
2198. **L. triptophyllina** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 62 in notula, ubi definitur. = In America tropica (ins. Cuba).
2199. **L. leucophyllina** Nyl. *Prodr. Fl. N. Gran.* loc. citat., ubi definitur. = In America tropica (ins. Cuba).
2200. **L. Lechlerii** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 557 in notula, ubi definitur. — *Biatora Lechlerii* Hepp. = In America tropica (Peruvia).
2201. **L. delusa** Nyl. *Lich. N. Zeland.* 1888, p. 95, ubi definitur. = In Oceania (Nova Zelandia).
2202. **L. fuscuscula** Nyl. in litt.; *L. fuscula* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 46 et ed. 2<sup>a</sup> p. 63, ubi definitur, quod nomen mutandum fuit, quia jam adhibitum fuerat, cfr. infra n° 2481. = In America tropica (Nova Granata).
2203. **L. iodea** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 557, ubi definitur; in *Flora* 1864, p. 617. = In America tropica (Nova Granata).
2204. **L. melacheila** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 558, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).
2205. **L. chlorophæata** Nyl. apud Cromb. *Lich. capens.* p. 176, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

2206. **Lecidea anceps** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 96, ubi definitur; thallus K —. = In Oceania (Nova Zelandia).

11. — Stirps *Lecidæ vermiferæ* Nyl.

Sporæ 8<sup>mæ</sup>, incolores, vermiculares, simplices vel pluri-septatæ; spermata recta; sterigmata simplicia.

2207. **L. mutata** Nyl. *Lich. N. Zeland.* p. 1888, p. 100, ubi definitur. = In Oceania (Nova Zelandia).

2208. **L. deflexa** Nyl. *Lich. N. Zeland.* 1888, p. 100, ubi definitur. = In Oceania (Nova Zelandia).

2209. **L. melasema** Nyl. *Lich. N. Zeland.* 1888, p. 101, ubi definitur. = In Oceania (Nova Zelandia).

2210. **L. cerasentera** Nyl. *Lich. N. Zeland.* 1888, p. 101 ubi definitur. = In Oceania (Nova Zelandia).

2211. **L. otagensis** Nyl. *Lich. N. Zeland.* 1861, p. 255, et 1883, p. 102, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

12. — Stirps *Lecidæ patellarioidis* Nyl.

Sporæ 8<sup>mæ</sup>, incolores, aciculares, multi-septatæ.

2212. **L. patellarioides** Nyl. *Lich. Algér.* p. 333, *Prodr. Lich. Gall.* p. 115 et *Lich. Scand.* p. 211, ubi definitur; *Enum. Lich.* p. 122. = In Asia orientali (Japonia, *Lich. Japp.* p. 69) et meridionali (Calcutta, *Flora* 1867, p. 5). — In Africa boreali (Algeria).

2213. **L. patellarina** Nyl. *Lich. Fueg.* p. 43, ubi definitur. = In America australi (Fuegia).

2214. **L. pleistophragmoides** Nyl. *Lich. N. Zeland.* 1888, p. 102, ubi definitur; thallus K —. = In Oceania (Nova Zelandia).

2215. **L. meiophragma** Nyl. *Lich. N. Zeland.* 1888, p. 103, ubi definitur. = In Oceania (Nova Zelandia).

C. — *Eulecidea*.

Seclio I. — SPORÆ INCOLORES; THALLUS VARIE FORME.

a. — *Thallus squamosus vel areolatus; spermata recta.*

13. — Stirps *Lecidæ coccocarpioidis* Nyl.

2216. **L. coccocarpioides** Nyl. apud Cromb. *Ins. Rodrig.* p. 441, ubi definitur; sporæ 1-septatæ. = In Africa orientali (ins. Rodriguez).

14. — Stirps *Lecidæ decipientis* Ach.

2217. **L. decipiens** Ach., Nyl. *Lich. Scand.* p. 214, ubi definitur; *Enum. Lich.* p. 123. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — In Africa boreali (Algeria, *Lich. Algér.* p. 314, *Prodr. Lich. Gall.* p. 120 et in *Flora* 1878, pp. 341, 342 et 345; Ægypto, *Lich. Ægypt.* p. 6). — In America boreali. — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 79). — Etiam in Europa.

2218. **Lecidea achroopholis** Nyl. apud Cromb. *Ins. Rodrig.* p. 441, ubi definitur; spermatia obsolete curvula; thallus K —. = In Africa orientali (ins. Rodriguez).

2219. **L. endochlora** Tayl., Nyl. *Enum. Lich.* p. 123. = In America meridionali.

2220. **L. mamillaris** Duf., Nyl. *Prodr. Lich. Gall.* p. 120, ubi definitur; *Enum. Lich.* p. 123. — *Lichen mamillaris* Gouan. = In Africa boreali (Algeria, *Lich. Algér.* p. 314). — Etiam in Europa.

b. — *Thallus granulosus varius vel rugosus aut æquabilis, aut nullus proprius. Spermatia arcuata.*

#### 15. — Stirps *Lecidæ vesicularis* Ach.

Sporæ 8<sup>næ</sup>, incolores, oblongæ vel fusiformes, simplices vel 1-3 septatæ.

2221. **L. subnegans** Nyl. in *Flora* 1884, p. 392, ubi definitur; *L. Dufourei* \* *subnegans* Nyl. *Lich. Fr. Behr.* p. 9, ubi sporæ definiuntur, et p. 23. = In Asia boreali (Lawrencebay etc.). — In America boreali (Port-Clarence, ibid. p. 66, ubi sporæ etiam definiuntur). — Etiam in Europa.

2222. **L. squalescens** Nyl. *Lich. Scand.* p. 220, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 23, ubi sporæ definiuntur). — Etiam in Europa arctica.

2223. **L. candida** Ach., Nyl. *Lich. Scand.* p. 215, ubi definitur; *Enum. Lich.* p. 123. — *Lichen candidus* Web. = In Africa boreali (Algeria, *Lich. Algér.* p. 314 et *Prodr. Lich. Gall.* p. 181 et in hoc etiam definitur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 70). — Etiam in Europa.

2224. **L. cæσιο-pallida** Nyl. *Enum. Lich.* p. 124. « Thallus albidus, demum anguste subradiose divisus, divisionibus angustis subconvexis, subtus niger. Apothecia nigra, cæσιο-suffusa, plana (latit. 0,6-1,2 millim.) submarginata, intus concoloria, strato hymeniali albulo, epithecio cærulescenti-obscurato. Sporæ incolores, oblongæ, 1-septatæ, longit. 0,009-11 et crass. 0,0035-40 millim.; paraphyses mediocres; hypothecium infuscatum. Iodo gelatina hymenialis cærulescens. Affinis *L. candidæ* Ach., sed tenuior, colore pallido, hypothecio fusco-nigrato distans. Spermatia globulosa, sterigmatibus cylindræis, 2-3-articulatis, diam. 0,0015 millim. » = In Africa meridionali (promont. Bonæ Spei, super saxa, Saldanhabay (Zeyher) ex herb. Sonderiano, 1859).

2225. **L. nigro-pallida** Nyl. *Enum. Lich.* p. 124. « Thallus albidus vel pallidus, crustaceo-areolatus, opacus, areolis rotundato-diformibus, crassis (latit. circiter 3 millim., crass. 2 millim.), hypothallo crasse carbonaceo nigro. Apothecia marginalia, atra, convexa, mediocria (latit. circiter 1 millim.), sæpe ex hypothallo marginali oriunda, intus concoloria. Sporæ 8<sup>næ</sup> incolores, oblongæ, 1-septatæ, longit. 0,012-15 et crass. 0,004-5 millim.; paraphyses crassæ (crass. 0,003 millim.), articulatæ; hypothecium nonnihil rufescens, strato tenui infero nigricante. Iodo gelatina hymenialis cærulescens. Spermogonia intus pallida, spermatia curvata, longit. 0,010 et crass. vix 0,001 millim. Affinis *L. cæσιο-candidæ* Nyl. » = In Africa meridionali (promont. Bonæ Spei, supra saxa quartzosa). Est *L. pallido-nigra* Hampe, e collect. Drège, n° 9286, in herb. Sonderiano. Nomen illud, *pallido-nigrum* Hampe, mutandum fuit, utpote antea ab Achario alii datum.

2226. **L. vesicularis** Ach., Nyl. *Lich. Scand.* p. 214, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — In Africa boreali (Algeria, *Lich. Algér.* p. 314, *Prodr. Lich. Gall.* p. 121, et in hoc etiam definitur, *Flora* 1878, p. 343). — In America. — Etiam in Europa.

2227. **L. accedens** Nyl. *Addit. Fl. chil.* p. 163, ubi definitur; *Enum. Lich.* p. 123. = In America australi (Chili).



2228. **Lecidea bullata** Mey. et Flot., Nyl. *Lich. exot.* p. 225, ubi definitur in notula. = In America tropica (Peruvia).

2229. **L. geoleuca** Nyl. *Lich. Ægypt.* p. 7, ubi definitur. = In Africa boreali (Ægypto).

2230. **L. bumamma** Nyl. apud Cromb. *Lich. capens.* p. 177, ubi definitur; thallus K + flavet. = In Africa meridionali (promont. Bonæ Spei).

2231. **L. tabacina** Schær., Nyl. *Lich. Algér.* p. 328 et *Prodr. Lich. Gall.* p. 121, ubi definitur; *Enum. Lich.* p. 123; in *Flora* 1878, p. 343. = In Africa boreali (Algeria). — Etiam in Europa.

2232. **L. verrucosa** Nyl. in *Flora* 1878, p. 343, ubi definitur. — *Thalloidima verrucosum* Mass. = In Africa boreali (Algeria). — Etiam in Europa.

2233. **L. crystallifera** Tayl., Nyl. in *Flora* 1878, p. 343 in notula, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In Oceania (Australia).

2234. **L. amphitropa** Nyl. *Lich. N. Zeland.* 1861, p. 256, et 1888, p. 110, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

#### 16. — Stirps *Lecidex aromaticæ* Ach.

Sporæ 8<sup>ae</sup>, incolores, cylindraceæ, vel fusiformi-cylindraceæ, 1-4 septatæ.

2235. **L. squalida** Ach., Nyl. *Lich. Scand.* p. 216, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 9). — Etiam in Europa.

2236. **L. cinereo-virens** Schær., Nyl. *Lich. Algér.* p. 328 et *Prodr. Lich. Gall.* p. 122, ubi definitur; in *Flora* 1878, p. 343; *Enum. Lich.* p. 124. = In Africa boreali (Algeria). — Etiam in Europa.

2237. **L. aromatica** Ach., Nyl. *Lich. Algér.* et *Prodr. Lich. Gall.* locis citat., ubi definitur; *Enum. Lich.* p. 124. = In Africa boreali (Algeria). — Etiam in Europa.

2238. **L. granosa** Tuck. *Syn. North Americ. Lich.* II, p. 63; Nyl. in *Flora* 1865, p. 148 in notula. = In America septentrionali (New Jersey, Ohio, Carolina, Louisiana, Georgia) et tropica (ins. Cuba).

2239. **L. subaromatica** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 64, ubi definitur. = In Asia orientali (China).

2240. **L. acervulata** Nyl. *Lich. Scand.* p. 216, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 34, ubi sporæ definiuntur). — Etiam in Europa.

2241. **L. epiplacodia** Cromb., Nyl. apud Cromb. *Challeng. Exped.* p. 213, ubi definitur; *L. epipasta* Stirton. = In Africa occidentali (promont. Viridi).

#### 17. — Stirps *Lecidex lurido-nigræ* Nyl.

Sporæ 8<sup>ae</sup>, incolores, oviformi-oblongæ 1-septatæ.

2242. **L. lurido-nigra**. Nyl. *Lich. Fueg.* p. 13, ubi definitur. = In America australi (Fuegia, Ushuwaia).

#### 18. — *Lecidex parasemæ* Ach.

Sporæ 8<sup>ae</sup>, incolores, simplices, oblongæ vel ellipsoideæ.

2243. **L. parasema** Ach., Nyl. *Lich. Scand.* p. 216, *Addit. Fl. chil.* p. 164, *Lich. Algér.*

p. 329, in *Flora* 1866, p. 432 in notula, et 1881, p. 187, ubi definitur; *Enum. Lich.* p. 124. Thallus K (CaCl) aurantiaco-fulvescit. = Fere cosmopolita. — In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 123). — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 559 et *Flora* 1864, p. 619; Peruvia, *Lich. exot.* p. 225) et australi (Chili; Staten Island, *Lich. Fueg.* p. 15). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 256). — Etiam in Europa.

— Var. 1. **elæochroma** Nyl. *Lich. Scand.* p. 216, ubi definitur; *Enum. Lich.* p. 224; *L. elæochroma* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 330 et in *Flora* 1878, p. 345; ins. Madera, *Lich. Madère*, p. 189). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 48 et ed. 2<sup>a</sup> p. 69). — Etiam in Europa.

— — **F. olivacea** Nyl. *Lich. Algér.* p. 330; *L. enteroleuca* var. *olivacea* Fr. = In Africa boreali (Algeria). — Etiam in Europa.

— Var. 2. **lutosa** Nyl. *Lich. Algér.* p. 330 et *Prodr. Lich. Gall.* p. 124, ubi definitur; *Enum. Lich.* p. 124; *L. lutosa* Schær. = In Africa boreali (Algeria). — Etiam in Europa.

— Var. 3. **nitidula** Nyl. *Lich. Scand.* p. 217, ubi definitur; *L. nitidula* Fr.; *L. crustulata* Flörke; *L. parasema* var. *crustulata* Nyl. *Enum. Lich.* p. 124. Nihil aliud est quam *L. parasema* Ach. saxicola. = In Africa boreali (Algeria). — Etiam in Europa.

2244. \* **Lecidea latypea** Ach. *Syn. Lich.* p. 44, Nyl. *Lich. Pyren.-Orient.* p. 37; *L. parasema* var. *latypea* Nyl. *Lich. Scand.* p. 217, ubi definitur; *L. parasema* var. *coniops* Nyl. *Addit. Fl. chil.* p. 164, ubi definitur; *Enum. Lich.* p. 124; thallus K (CaCl) aurantiaco fulvescit. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 58). — In America meridionali (Chili). — Etiam in Europa.

2245. \*\* **L. exigua** Chaub., Nyl. *Lichen. Pyren.-Orient.* p. 38; *L. parasema* var. *exigua* Nyl. *Prodr. Lich. Gall.* p. 124, ubi definitur; *Enum. Lich.* p. 124; thallus K (CaCl) aurantiaco fulvescit. = In Africa boreali (Algeria, *Lich. Algér.* p. 330; *L. glomerulosa* Nyl. in *Flora* 1878, p. 243). — In America. — Etiam in Europa.

2246. **L. citima** Nyl. *Lich. ins. Guin.* p. 23, ubi definitur; thallus K flavet et K (CaCl) flavedinem servat. Affinis *L. parasemæ* var. *elæochromæ* Nyl. = In Africa occidentali (ins. Principis).

2247. **L. parasemiza** Nyl. *Lich. N. Zeland.* 1888, p. 103, ubi definitur; thallus K — = In Oceania (Nova Zelandia).

2248. **L. latypiza** Nyl. *Lich. Pyren.-Orient.* p. 57. Thallus K flavet, CaCl —. *L. parasema* var. *latypea* Nyl. *Lich. N. Zeland.* 1861, p. 256; in *Flora* 1865, p. 339. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 103). — Etiam in Europa.

2249. **L. præpersa** Nyl. *Lich. Jap.* p. 70, ubi definitur; thallus K —, CaCl —. = In Asia orientali (Japonia).

2250. **L. euphorea** Flörke, Nyl. in *Flora* 1881, p. 187; *Enum. Lich.* p. 123; thallus K flavet. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* pp. 17 et 25). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 67). — Etiam in Europa.

2251. **L. euphoriza** Nyl. *Lich. Jap.* p. 70, ubi definitur; thallus K —, CaCl —. = In Asia orientali (Japonia).

2252. **L. enteroleuca** Ach. *Syn. Lich.* p. 49, Nyl. in *Flora* 1881, p. 187 ubi definitur; *L. parasema* var. *enteroleuca* Nyl. *Lich. Scand.* p. 217, ubi definitur; *Enum. Lich.* p. 124; thallus K flavet. = In Asia orientali (China et Japonia, Nyl. et Cromb. *Lich. East. Asia* pp. 64 et 67 necnon Nyl. *Lich. Jap.* p. 69) et in aliis Asiæ regionibus. — In Africa boreali (Algeria, *Lich. Algér.* p. 330 et *Quelq. Lich. Algér.* p. 216 atque *Flora* 1878, p. 345). = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 70) et tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 48 et ed. 2<sup>a</sup> p. 69, *Flora* 1864, p. 619). — In Oceania (Nova Zelandia, *Flora* 1865,

p. 339, et *Lich. N. Zeland.* 1861, p. 256, sed ibid. 1888, p. 103 dicitur hanc speciem non esse ibi omnino certam). — Etiam in Europa.

2253. **Lecidea enteroleucella** Nyl. *Lich. Jap.* p. 69 atque Nyl. et Cromb. *Lich. East. Asia* p. 67, ubi definitur; epithecium Acido nitrico rosello tingitur. = In Asia orientali (Japonia).

2254. **L. ocellifera** Nyl. *Lich. Jap.* p. 70, ubi definitur; thallus K flavescit. = In Asia orientali (Japonia).

2255. **L. æruginosa** Nyl. *Addit. Fl. chil.* p. 164, et *Lich. N. Zeland.* 1888, p. 104, ubi definitur; *Enum. Lich.* p. 124. = In America meridionali (Chili).

2256. **L. circumdiluens** Nyl. *Lich. N. Zeland.* 1888, p. 104, ubi definitur; *L. æruginosa* Nyl. in *Flora* 1867, p. 440, thallus K flavet. = In Oceania (Nova Zelandia).

2257. **L. granulosa** Nyl. apud Cromb. *Lich. capens.* p. 177, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

2258. **L. diasemoides** Nyl. in *Flora* 1874, p. 11, ubi definitur; thallus K flavet. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 34). — Etiam in Europa.

2259. **L. incongrua** *Lich. Scand.* p. 218 et in *Flora* 1874, p. 11, ubi definitur; thallus K —. = In Asia orientali (Lawrence ins., *Lich. Fr. Behr.* p. 50). — In America boreali (Groenlandia, *Flora* 1862, p. 83). — Etiam in Europa.

2260. **L. subtenebrosa** Nyl. in *Flora* 1867, p. 439, et *Lich. N. Zeland.* 1888, p. 104, ubi definitur. = In Oceania (Nova Zelandia).

2261. **L. disjungenda** Cromb., Nyl. apud Cromb. *Kerguel. Revis.* p. 4, ubi definitur; thallus K flavet, I —. = In Africa antarctica (ins. Kerguelen).

2262. **L. subassentiens** Nyl. apud Cromb. *Kerguel. land* p. 188, ubi definitur; thallus K flavet. = In Africa australi (ins. Kerguelen).

2263. **L. phæostoma** Nyl. apud Cromb. *Kerguel. land* p. 187, ubi definitur; thallus K. flavescit. = In Africa australi (ins. Kerguelen).

2264. **L. assentiens** Nyl. apud Cromb. *Kerguel. land* p. 187, ubi definitur; thallus K flavet. = In Africa australi (ins. Kerguelen).

2265. **L. intersita** Nyl. apud Cromb. *Kerguel. land* p. 187, ubi definitur; thallus K flavet. = In Africa australi (ins. Kerguelen).

2266. **L. leucophæa** Flørke, Nyl. in *Flora* 1870, p. 35; thallus K —. = In Oceania (Nova Zelandia, *Flora* 1867, p. 440, et *Lich. N. Zeland.* 1888, p. 105; in hoc posteriore loco sporæ definiuntur). — Etiam in Europa.

2267. **L. pelophæa** Nyl. in *Flora* 1886, p. 324, ubi definitur. = In Oceania (Australia).

2268. **L. homœochroa** Nyl. *Lich. Jap.* p. 60, ubi definitur; subsimilis *L. leucophæa* Flørke dicitur, sed ejus locus systematicus ob spermatia deficientia incertus est; thallus K —, CaCl —, I —. = In Asia orientali (Japonia).

2269. **L. subpromiscua** Nyl. in *Flora* 1886, p. 325, ubi definitur. = In Oceania (Australia).

2270. **L. melancheima** Tuck. *Syn. North Americ. Lich.* II, p. 81; Nyl. *Lich. Scand.* p. 312, *Lich. Lapp. orient.* p. 164 et *Prodr. Lich. Gall.* p. 110; *L. euphoroides* Nyl. *Lich. Scand.* p. 244, ubi definitur; *L. euphorea* Fr. *Lich. Suec. exsicc.* n° 154. = In America boreali (Nova Anglia). — Etiam in Europa boreali.

2271. **L. conflectens** Nyl. *Lich. Fueg.* p. 15, ubi definitur. = In America antarctica (Staten Island et Ushuwaia).

2272. **L. glauco-nigrans** Nyl. *Lich. Jap.* p. 106, ubi definitur. — *Biatora glauco-nigrans* Tuck. *Syn. North Americ. Lich.* II, p. 31. = In America septentrionali (New Bedford).

2273. **L. deusta** Stenh., Nyl. in *Flora* 1879, p. 206 in notula; *L. fusco-atra* var. *deusta* Nyl. *Lich. Scand.* p. 229, ubi definitur; *Lich. And. Boliv.* p. 381 et *Enum. Lich.* p. 125.



Est ex hac stirpe et locum habet inter *L. æneam* Duf. et *L. luteo-atram* Nyl., quæ in Europa vigent. = In America tropica (Bolivia). — Etiam in Europa.

2274. **Lecidea subdeusta** Nyl. in *Flora* 1885, p. 444, et *Lich. Fr. Behr.* p. 12, ubi definitur. = In Asia boreali (Lawrencebay).

2275. **L. placodina** Nyl. *Lich. Angol.* p. 514, ubi definitur. = In Africa occidentali (Angola; Mossamedes et Serra de Giraul, *Lich. Afric.* p. 131).

2276. **L. pynosema** Nyl. *Lich. Fueg.* p. 16, ubi definitur. = In America australi (Patagonia).

2277. **L. subcontinua** Nyl. apud Cromb. *Kerguel. land* p. 189, ubi definitur; spermatia raro leviter arcuata. = In Africa australi (ins. Kerguelen).

— **F. ferrea** Nyl. apud Cromb. *Kerguel. land* p. 189. = In Africa australi (ins. Kerguelen).

2278. **L. Pringlei** Tuck. *Syn. North Americ. Lich.* II, p. 62; Nyl. *Lich. Jap.* 107, ubi definitur. = In America septentrionali (territorio Washington).

c. — *Thallus areolatus, granulatus, pulvereus aut evanesens. Spermatia recta, brevina vel longa sterigmatibus simplicibus affixa.*

1° *Sporæ simplices forma et magnitudine varix.*

19. — Stirps *Lecidex improvisæ* Nyl.

Sporæ incolores, 8<sup>m</sup> et sæpius numerosæ in thecis, globulosæ vel sphaericæ, raro oblongæ. Stirps illa in *Lich. Jap.* p. 74 ponitur inter Lecideas proprie dictas, sed species biatorinæ ad stirpem propriam sunt referendæ inter Biatoras (Nyl. in litt.).

2279. **L. fossarum** Duf., Nyl. *Prodr. Lich. Gall.* p. 116, ubi definitur; in *Flora* 1866, p. 86 in notula; *Enum. Lich.* p. 122. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 22, ubi sporæ definiuntur). — In Africa boreali (*Lich. Algér.* p. 313). — Etiam in Europa).

2280. **L. Armstrongiæ** Jones, Nyl. *Lich. Port Natal* p. 11, ubi definitur. = In America meridionali (Portu Natali).

2281. **L. denotata** Nyl. in *Flora* 1885, p. 604, et *Lich. Fr. Behr.* p. 66, ubi definitur. = In America boreali (Port-Clarence).

2282. **L. improvisula** Nyl. *Lich. Jap.* p. 74, ubi definitur. = In Asia orientali (Japonia).

2283. **L. globulispora** Nyl. *Lich. N. Zeland.* 1888, p. 146, ubi definitur; *Enum. Lich.* p. 122. = In America australi (fretu Magellanico, *Lich. exot.* p. 263).

2284. **L. prænotata** Nyl. *Lich. Jap.* p. 74, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).

2285. **L. conspersa** Fée *Essai* p. 108, tab. XXVII, fig. 4, et *Supplém.* p. 109, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 559, ubi definitur; *Enum. Lich.* p. 122. = In America tropica (Nova Granata, *Flora* 1864, p. 618; Peruvia et Bolivia, *Lich. exot.* p. 224).

2286. **L. flavo-alba** Nyl. *Lich. exot.* p. 224, ubi definitur; *Enum. Lich.* p. 122. = In America tropica (Peruvia).

2287. **L. rubidula** Nyl. in *Flora* 1884, p. 214, et *Lich. Fr. Behr.* p. 33, ubi definitur. = In Asia boreali (Konyambay, ubi est calcicola). — Etiam in Europa.

2288. **L. cyphalea** Nyl. *Lich. Jap.* p. 106, ubi definitur; thallus K subflavescit. — *Biatora cyphalea* Tuck. *Syn. North Americ. Lich.* II, p. 51. = In America septentrionali (Illinois).

20. — Stirps *Lecidæ rivulosæ* Ach.

Sporæ 8<sup>na</sup>, incolores, simplices, ellipsoideæ vel subglobosæ. Spermatia brevia.

2289. **Lecidea arcuatula** Nyl. *Lich. N. Zeland.* 1888, p. 149. — *Biatora arcuatula* Arnold in *Flora* 1888, p. 107; non *L. circumflexa* Nyl. *Lich. Fr. Behr.* p. 13. = In America boreali (ins. Miquelon).

2290. **L. mollis** Nyl. *Lich. Scand.* p. 223 et in *Flora* 1870, p. 35, ubi definitur; *L. rivulosa* var. *mollis* Wahlenb. *Fl. lappon.* p. 472. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 37 et 58) et orientali (Japonia, *Lich. Jap.* p. 73). — Etiam in Europa.

2291. **L. circumflexa** Nyl. in *Flora* 1885, p. 444, et *Lich. Fr. Behr.* p. 13, ubi definitur. = In Asia boreali (Lawrencebay).

21. — Stirps *Lecidæ intumescens* Floerke.

Sporæ 8<sup>na</sup>, incolores, simplices, ellipsoideæ.

2292. **L. caudata** Nyl. *Lich. Scand.* p. 230, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 37). — Etiam in Europa boreali.

2293. **L. epiodiza** Nyl. in *Flora* 1884 p. 216, et *Lich. Fr. Behr.* p. 37, ubi definitur, et p. 12; thallus CaCl erythrinose tingitur. = In Asia boreali (Lawrencebay et Konyambay).

2294. **L. lygotropa** Nyl. in *Flora* 1884, p. 215, et *Lich. Fr. Behr.* p. 35, ubi definitur; thallus nullis reagentibus tingitur. = In Asia boreali (Konyambay).

2295. **L. subtristiuscula** Nyl. in *Flora* 1885, p. 444, et *Lich. Fr. Behr.* p. 12, ubi definitur; *L. plana* f. *tristiuscula* Nyl. *Lich. Fr. Behr.* p. 35, ubi definitur. = In Asia boreali (Lawrencebay et Konyambay).

2296. **L. lugubris** Sommerf., Nyl. *Lich. Scand.* p. 232, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 37). — Etiam in Europa.

2297. **L. tenebrosa** Flot., Nyl. *Lich. Scand.* p. 231 et *Prodr. Fl. N. Gran. Addit.* p. 559, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 13). — In America tropica (Nova Granata, *Flora* 1864, p. 619). — Etiam in Europa.

— **F. subsparsa** Nyl. *Lich. Fr. Behr.* p. 50, ubi definitur. = In Asia boreali (Lawrence insula).

2298. \* **L. umbricolor** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 560, ubi definitur; in *Flora* 1864, p. 619. = In America tropica (Nova Granata).

2299. **L. lugubrior** Nyl. in *Flora* 1885, p. 445, et *Lich. Fr. Behr.* p. 13, ubi definitur; medulla I —. = In Asia boreali (Lawrencebay).

2300. **L. insulatula** Nyl. *Lich. Jap.* p. 74, ubi definitur; thallus K (CaCl) nonnihil erythrinose tingitur, I —. = In Asia orientali (Japonia).

2301. **L. illita** Nyl. in *Flora* 1879, p. 356, et *Lich. Jap.* p. 75, ubi definitur; thallus K (CaCl) erythrinose reagit. = In Asia orientali (Japonia). — Etiam in Europa.

2302. **L. obumbrata** Nyl. apud Cromb. *Lich. capens.* p. 177, ubi definitur; medulla K e flavo subcinnabarino-tingitur. = In Africa meridionali (promont. Bonæ Spei).

2303. **L. asbolodes** Nyl. apud Cromb. *Kerguel. land* p. 188, ubi definitur. = In Africa australi (ins. Kerguelen).

22. — Stirps *Lecideæ arcticæ* Sommerf.

Sporæ 8<sup>ae</sup>, incolores, oblongæ ellipsoideæve seu fusiformes.

2304. **Lecidea speirococca** Nyl. in *Flora* 1884, p. 222, et *Lich. Fr. Behr.* pp. 24 et 34, ubi definitur; thallus K —. = In Asia boreali (Konyambay).

2305. **L. arctica** Sommerf., Nyl. *Lich. Scand.* p. 220, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* p. 25, ubi sporæ definiuntur, et p. 55). — Etiam in Europa arctica.

2306. **L. alpestris** Sommerf., Nyl. *Lich. Lapp. orient.* p. 158, ubi definitur. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* locis citat.). — Etiam in Europa (Lapponia).

2307. **L. stenotera** Nyl. *Lich. Scand.* p. 221 et *Lich. Lapp. orient.* p. 157, ubi definitur; *L. alpestris* \* *stenotera* Nyl. *Lich. Fr. Behr.* p. 9, ubi etiam definitur, et p. 25. = In Asia boreali (Lawrencebay etc.). — Etiam in Europa arctica.

2308. **L. Dovrensis** Nyl. *Lich. Scand.* p. 221, ubi definitur; *Enum. Lich.* p. 124; *L. pallida* Th. Fr., Nyl. in *Flora* 1874, p. 372. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — In America boreali (Port-Clarence, ibid. p. 70, et in utroque loco sporæ definiuntur; Groenlandia, *Flora* 1862, p. 83). — Etiam in Europa arctica.

2309. **L. limosa** Ach., Nyl. *Lich. Scand.* p. 221 et *Lich. Lapp. orient.* p. 158, ubi definitur. = In Asia boreali (Behring insula, *Lich. Fr. Behr.* p. 55). — In America boreali (Port-Clarence, ibid. p. 66, et in utroque loco sporæ definiuntur). — Etiam in Europa arctica.

2310. **L. assimilata** Nyl. *Lich. Scand.* p. 221, ubi definitur. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 9, 25 et 47). — Etiam in Europa arctica.

— **F. infuscata** Th. Fr. *Lichenogr. scand.* p. 522, Nyl. *Lich. Fr. Behr.* p. 66, ubi definitur. = In America boreali (Port-Clarence). — Etiam in Europa arctica.

2311. **L. sublimosa** Nyl. in *Flora* 1885, p. 446, et *Lich. Fr. Behr.* p. 9, ubi definitur. = In Asia boreali (Lawrencebay).

2312. **L. sordidula** Nyl. *Enum. Lich.* p. 124. « Thallus albidus, cinerascens, opacus, rimuloso-areolatus, hypothallo nigrescente tenuiter vel obsolete limitatus; apothecia nigra, parva, planiuscula, innata vel fere superficialia, intus albida; sporæ 8<sup>ae</sup> incolores, oblongo-ellipsoideæ, simplices vel 4-septatæ, longit. 0,007-10, crass. 0,0035-45 millim.; paraphyses mediocres, discretæ, apice vix clavatæ (nec ibi infuscatae); hypothecium incolor. Iodo gelatina hymenialis vix vel obsolete cærulescens, thecæ (clavato-saccatæ) cærulescentes, præsertim sub apice. Spermalia arcuata, longit. 0,016-20 et crass. 0,0005 millim. » = In Asia meridionali (in India orientali, super lapides dolomiticos in « Rotas Palace » Sone River, D<sup>r</sup> Hooker).

2313. **L. pamparia** Nyl. *Lich. N. Zeland.* 1888, p. 146, ubi definitur. = In America australi (freto Magellanico).

23. — Stirps *Lecideæ contiguae* Fr.

Sporæ 8<sup>ae</sup>, incolores, simplices, oblongæ vel ellipsoideæ.

2314. **L. leptobola** Nyl. *Lich. Angol.* p. 515, ubi definitur. = In Africa occidentali (Angola).

2315. **L. dendroclinis** Nyl. in *Flora* 1884, p. 215, et *Lich. Fr. Behr.* p. 36, ubi definitur; thallus K sublutescit et medulla I obscuratur. Hæc æque ac præcedens species *L. sarcogynoidem* Koerb. tangunt. = In Asia boreali (Konyambay).



2316. **Lecidea Pilati** Hepp, Nyl. *Lich. Fr. Behr.* p. 58. = In Asia boreali (Behring ins.). — Etiam in Europa.

2317. **L. contigua** Fr., Nyl. *Lich. Scand.* p. 224 et apud Hue *Addend. Lichenogr. europ.* p. 192, ubi definitur; *Enum. Lich.* p. 125; thallus K —, CaCl —. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 12, 35 et 58) et orientali (Japonia, *Lich. Jap.* p. 72). — In Africa boreali (Algeria, *Lich. Algér.* p. 314 et *Prodr. Lich. Gall.* p. 130, ubi etiam definitur). — In America tropica (Peruvia, *Lich. exot.* p. 225; Bolivia, *Lich. And. Boliv.* p. 381) et australi (ins. Maclovianis, *Lich. exot.* p. 263). — In Oceania (ins. Nukahiva, *Lich. exot.* p. 244). — Etiam in Europa.

— Var. 1. **flavicunda** Nyl. *Lich. Scand.* p. 224, ubi definitur; *Enum. Lich.* p. 125; *L. flavicunda* Ach. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 12 et 35). — In America tropica (Peruvia, *Flora* 1855, p. 674, et *Lich. exot.* p. 225; Bolivia, *Lich. And. Boliv.* p. 381). — Etiam in Europa.

— Var. 2. **subdispersa** Nyl. *Prodr. Lich. Gall.* p. 131, *Lich. algeriens.* p. 316 et *Lich. Algér.* p. 329, ubi definitur; *Enum. Lich.* p. 125. = In Africa boreali (Algeria).

— Var. 3. **platycarpa** Nyl. *Lich. Scand.* p. 224 et *Lich. Pyren.-Orient.* p. 38, ubi definitur; *Enum. Lich.* p. 124; *L. platycarpa* Ach. = In America tropica (Nova Granata, *Flora* 1864, p. 619, et *Prodr. Fl. N. Gran. Addit.* p. 559). — Etiam in Europa.

2318. **L. persistens** Nyl. *Lich. N. Zeland.* 1888, p. 105, ubi definitur. = In Oceania (Nova Zelandia).

2319. **L. psephota** Tuck. *Syn. North Americ. Lich.* II, p. 160, Nyl. *Lich. N. Zeland.* 1888, p. 146. = In America australi (freto Magellanico).

2320. **L. albo-cærulescens** Ach., Nyl. *Lich. Scand.* p. 224, ubi definitur; *L. contigua* var. *albo-cærulescens* Nyl. *Enum. Lich.* p. 125. — *Lichen albo-cærulescens* Wulf. = In Asia orientali (Japonia, *Lich. Jap.* p. 72). — In Africa occidentali (ins. Madera, *Lich. Madère* p. 189). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 105). — Etiam in Europa.

2321. **L. hebescens** Nyl. in litt. = In America septentrionali (statu Tennessee, legit Calkins supra saxa arenaria).

2322. **L. meiospora** Nyl. *Lich. Pyren.-Orient.* p. 38, ubi sporæ definiuntur; *L. contigua* f. *meiospora* Nyl. *Lich. Lapp. orient.* p. 159, ubi sporæ adhuc definiuntur; *Lich. Scand.* p. 225. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 12, 35 et 58) et orientali (Japonia, *Lich. Jap.* p. 72, ubi pr. p. definitur). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 70). — In Oceania (Nova Zelandia, *Flora* 1865, p. 339 in notula, et *Lich. N. Zeland.* 1861, p. 256, et 1888, p. 105, ubi sporæ adhuc definiuntur). — Etiam in Europa.

2323. **L. laurentiana** Nyl. in *Flora* 1885, p. 440, et *Lich. Fr. Behr.* p. 50, ubi definitur. = In Asia boreali (Lawrence-insula).

2324. **L. crustulata** Nyl. *Lich. Pyren.-Orient.* p. 38; *L. parasema* var. *crustulata* Ach., Nyl. *Lich. Scand.* p. 225, ubi definitur. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 35 et 58). — In America boreali (Port-Clarence, ibid. p. 70). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 105, ubi spermatia definiuntur, *Flora* 1865, p. 339). — Etiam in Europa.

2325. **L. floridensis** Nyl. in *Bull. of the Torrey Bot. Club* 1889, p. 104, et *Lich. ins. Guin.* p. 47, ubi definitur. = In America septentrionali (Jacksonville).

2326. **L. terrena** Nyl. apud Cromb. *Lich. capens.* p. 177, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

2327. **L. stephanodes** Stirt., Nyl. apud Cromb. *Challeng. Exped.* p. 221, ubi definitur. = In Africa australi (ins. Kerguelen).

2328. **L. spadicomma** Nyl. *Lich. Fueg.* p. 16 et apud Cromb. *Falkl. isl.* p. 233, ubi definitur. = In America australi (Patagonia).

2329. **Lecidea confluens** Ach. pr. p., Nyl. *Lich. Scand.* p. 225, ubi definitur; *L. contigua* var. *confluens* Nyl. *Enum. Lich.* p. 124; medulla I +, *Flora* 1869, p. 409. = In America tropica (Bolivia, *Lich. And. Boliv.* p. 381). — Etiam in Europa.

2330. **L. speirea** Ach., Nyl. in *Flora* 1870, p. 38; *L. contigua* var. *speirea* Nyl. *Lich. Scand.* p. 225, ubi definitur. = In Africa occidentali (ins. Madera, *Lich. Madère* p. 189). — Etiam in Europa.

2331. **L. albuginosa** Nyl. in *Flora* 1877, p. 227, ubi definitur; thallus K, CaCl, I —. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 68, et forsitan lecta etiam a cl. Almquist, Nyl. *Lich. Jap.* p. 70 in notula). — Etiam in Europa (Gallia).

2332. **L. lapicida** Fr., Nyl. *Lich. Scand.* p. 225 et *Lich. Lapp. orient.* p. 160, ubi definitur; *Enum. Lich.* p. 124; thallus K —. = In America boreali (Groenlandia, *Flora* 1862, p. 83). — In Oceania (Nova Zelandia). — Etiam in Europa.

— Var. **silacea** Nyl. *Lich. Scand.* p. 226 et *Prodr. Lich. Gall.* p. 132, ubi definitur; *Enum. Lich.* p. 125; *L. silacea* Ach. = In Africa boreali (Algeria, *Lich. Algér.* p. 314). — Etiam in Europa.

2333. **L. subconfluens** Anzi; Stizenb. *Lich. helvet.* p. 189; *L. lapicida* var. *declinata* Nyl. *Lich. Lapp. orient.* p. 177 et in *Flora* 1866, p. 418 in notula, ubi definitur. = In America australi (ins. Maclovianis). — Etiam in Europa.

2334. **L. declinans** Nyl. in *Flora* 1878, p. 243 in notula (paraphyses articulatae); *L. lapicida* var. *declinans* Nyl. *Lich. Scand.* p. 226 et *Lich. Lapp. orient.* p. 160, ubi definitur. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 12). — In Oceania (Nova Zelandia, *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 255; in posteriore loco sporae definiuntur). — Etiam in Europa.

— F. **subsculptella** Nyl. *Lich. Fr. Behr.* p. 12, ubi definitur. = In Asia boreali (Lawrencebay).

— Var. **ochromela** Nyl., Stizenb. *Lich. helvet.* p. 189; *L. confluens* var. *ochromela* Ach., Nyl. *Lich. And. Boliv.* p. 381; *L. lapicida* var. *ochromela* Nyl. *Lich. Scand.* p. 226, ubi definitur. = In America tropica (Bolivia). — Etiam in Europa.

2335. **L. tennesseensis** Nyl. in litt. « *Lecidea* videtur propinqua *L. lithophilæ* Ach., sed apothecia immarginata, innata, ita ut sistere possit Lecanoram e stirpe *L. cinereæ* Ach., unde patet Lecanoras et Lecideas vix distingui, nec rite ea genera in plura dividi posse. » = In America septentrionali (statu Tennessee, legit Calkins supra saxa arenaria).

2336. **L. polycarpa** Flørke, Nyl. *Lich. Scand.* p. 226 et *Lich. Lapp. orient.* p. 160, ubi definitur; *Enum. Lich.* p. 125. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — In America boreali (Groenlandia, *Flora* 1862, p. 83) et tropica (Nova Granata, *Flora* 1864, p. 619, et *Prodr. Fl. N. Gran. Addit.* p. 559); Peruvia *Lich. exot.* p. 225). — Etiam in Europa.

2337. **L. promiscens** Nyl. apud Hue *Addend. Lichenogr. europ.* p. 197, ubi definitur. = In Europa.

— F. **inops** Nyl. *Lich. Fr. Behr.* p. 58; *L. inops* Th. Fr. *Lichenogr. scand.* p. 501. = In Asia boreali (Behring insula). — Etiam in Europa.

2338. **L. hirosimita** Nyl. *Lich. Jap.* p. 72, ubi definitur; thallus K flavet, medulla I —. = In Asia orientali (Japonia).

2339. **L. subtessellata** Nyl. *Lich. Jap.* p. 73, ubi definitur; thallus K flavet, medulla I —. = In Asia orientali (Japonia).

2340. **L. lithophila** Ach., Nyl. *Lich. Scand.* p. 226, ubi definitur; *L. albocærulescens* Fr., Nyl. *Prodr. Lich. Gall.* p. 132, ubi definitur; *Enum. Lich.* p. 125. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 58). — Etiam in Europa.

— Var. **ochracea** Nyl. *Lich. Scand.* p. 227, ubi definitur; *L. daphnæa* var. *ochracea* Ach. = In America boreali (Groenlandia, *Flora* 1862, p. 83). — Etiam in Europa.

— Var. 2. **atrosanguinea** Nyl. *Prodr. Lich. Gall.* p. 133, ubi definitur; *L. immersa* var. *atrosanguinea* Flørke, Nyl. *Lich. Algér.* p. 330, ubi definitur; *Enum. Lich.* p. 125. = In Africa boreali (Algeria). — Etiam in Europa.

— Var. 3. **pallido-cinerea** Flørke, Nyl. *Lich. Madère* p. 189. = In Africa occidentali (ins. Madera).

2341. **Lecidea turgens** Nyl. in litt.; *L. turgescens* Nyl. in *Flora* 1864, p. 267, ubi definitur. — *Lecidella turgescens* Körber *Reliq. Hochstett.* p. 33. Hoc nomen mutatum fuit, quia jam a Tuckerman usurpatum fuerat, cfr. infra n° 2351. = In Oceania (Australia).

2342. **L. tessellata** Flørke, Nyl. *Lich. Scand.* p. 227 et *Lich. Pyren.-Orient.* p. 23, ubi definitur; *Enum. Lich.* p. 125; thallus K — et I +. = In America tropica (Peruvia, *Flora* 1855, p. 674, et *Lich. exot.* p. 225) et meridionali (Chili, *Addit. Fl. chil.* p. 185. *L. contigua* var. *tessellata* Nyl.). — Etiam in Europa.

2343. **L. plana** Lahm, Nyl. *Lich. Pyren.-Orient.* p. 24 et *Lich. Fr. Behr.* p. 88, ubi definitur. = In America boreali (Alaska). — Etiam in Europa.

— F. **subsparsa** Nyl. *Lich. Jap.* p. 72, ubi definitur; thallus K —, I —. = In Asia orientali (Japonia).

2344. **L. subplana** Nyl. apud Cromb. *Kerguel. land* p. 189, et in *Flora* 1875, p. 448, et 1881, p. 4, ubi definitur; thallus K —, I —. = In Africa australi (ins. Kerguelen).

2345. **L. homalotera** Nyl. apud Cromb. *Kerguel. Revis.* p. 4, ubi definitur; thallus K +, I —. = In Africa australi (ins. Kerguelen).

2346. **L. homalodes** Nyl. in *Flora* 1875, p. 448, ubi definitur; thallus K +, I —. = In America boreali (Nova Anglia).

2347. **L. melopta** Nyl. apud Cromb. *Ins. Rodrig.* p. 441, ubi definitur. Thallus K + flavet; medulla I obsolete subroseo tingitur. = In Africa orientali (ins. Rodriguez).

2348. **L. consentiens** Nyl. in *Flora* 1866, p. 371, ubi definitur; thallus K (CaCl) —. = In Asia orientali (Japonia, *Lich. Jap.* p. 72). — Etiam in Europa.

2349. **L. sincerula** Nyl. apud Cromb. *Kerguel. land* p. 190, ubi definitur. = In Africa australi (ins. Kerguelen).

— F. **Dicksonii** Nyl. apud Cromb. *Kerguel. land* p. 190; *L. Dicksonii* Ach. = In eadem insula.

2350. **L. advena** Nyl. *Enum. Lich.* p. 125. « Thallus albidus vel albo-cinereus, sat grosse et concinne areolatus, areolis opacis, angulosis, sæpius leviter convexiusculis, rimis satis hiascentibus, discretis. Apothecia in interstitiis disposita, atra opaca (latit. 0,5-1 millim.) plana vel concaviuscula, crasse marginata, sæpe nonnihil plicata vel interdum rimam medio exhibentia, intus alba. Sporæ 8<sup>næ</sup> incolores, simplices, ellipsoideæ, longit. 0,014-15 et crass. 0,008-9 millim. Paraphyses non discretæ; gelatina hymenialis iodo intensive cærulescens. Species valde insignis prope *L. ambiguam* Fr. disponenda. » = In Asia (graniticola in montibus Himalaya, altitud. 14000 pedum).

2351. **L. lactea** Flørke, Nyl. *Lich. Scand.* 230 et apud Hue *Addend. Lichenog. europ.* p. 200, ubi definitur; *L. ambigua* Fr., Nyl. *Prodr. Lich. Gall.* p. 133, ubi etiam definitur; *Enum. Lich.* p. 125; thallus K e flavo ferrugineo rubescit. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 35 et 58). — In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 11). — In America tropica (Bolivia, ubi viget forma insignis in *Lich. And. Boliv.* p. 381 definita) et australi (Cap Horn, *Lich. exot.* p. 263 et *Lich. N. Zeland.* 1888, p. 147). — Etiam in Europa.

— F. **oreinoides** Nyl. in *Flora* 1864, p. 267, ubi definitur; *Lecidea oreinoides* Hochst. = In Oceania (Australia).

2352. **L. melastroma** Nyl. *Lich. N. Zeland.* 1888, p. 107, ubi definitur; thallus K flavet. = In Oceania (Nova Zelandia).



2353. **Lecidea Eatoni** Cromb., Nyl. apud Cromb. *Kerguel. land* p. 189, ubi definitur; thallus K flavet, I —. = In Africa australi (ins. Kerguelen).

2354. **L. lygomma** Nyl. apud Cromb. *Kerguel. land* p. 189, ubi definitur; thallus K<sup>+</sup> flavet, dein cinnabarino rubet. = In Africa australi (ins. Kerguelen).

2355. **L. auriculata** Th. Fr. *Lichenogr. scand.* p. 499. = In Europa.

— **F. paupera** Th. Fr. *Lich. Spitzb.* p. 39; Nyl. *Lich. Fr. Behr.* pp. 12, 35 et 58. = In Asia boreali (Lawrencebay, etc.). — Etiam in Europa.

2356. **L. brachyspora** Th. Fr. *Lichenogr. scand.* p. 501; Nyl. *Lich. Fr. Behr.* p. 50, ubi sporæ definiuntur. = In Asia boreali (Lawrence ins.). — Etiam in Europa boreali.

2357. **L. petræoides** Nyl. *Enum. Lich.* p. 125. « Thallus griseo-fuscescens, areolatus, areolis rugulosis, inæqualibus vel granuliformibus. Apothecia nigra, mediocria, planiuscula vel leviter convexiuscula, immarginata, adnata, intus albida. Sporæ 8<sup>na</sup> incolores, simplices, fusiformes, sat parvæ, longit. 0,010 et crass. 0,003 millim. Paraphyses non discretæ; hypothecium incolor; iodo gelatina hymenialis intensive cærulescens. Extus satis similis *L. petrææ* Flot. vel *L. atro-albæ* Flot., sed notis datis longissime distans. » = In Oceania (Tasmania, super saxa granitica, ex herb. Hooker).

2358. **L. leptocarpa** Nyl. *Lich. N. Zeland.* 1888, p. 105, ubi definitur; *Enum. Lich.* p. 125; thallus K —, CaCl. —. = In Oceania (Nova Zelandia; Tasmania).

2359. **L. panæola** Ach., Nyl. *Lich. Scand.* p. 223, ubi definitur; *Enum. Lich.* p. 125; thallus CaCl saltem dilute erythrinose tingitur, in *Flora* 1866, p. 371. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 35 et 58) et orientali (Japonia, *Lich. Jap.* p. 73, ubi datur mensura sporarum et affirmatur thallus CaCl erythrinose tingi). — Etiam in Europa.

#### 24. — Stirps *Lecideæ fumosæ* Ach.

Sporæ 8<sup>na</sup>, incolores, ellipsoideæ.

2360. **L. aglæa** Sommerf., Nyl. *Lich. Scand.* p. 228 et apud Hue *Addend. Lichenogr. europ.* p. 203, ubi definitur; *Enum. Lich.* p. 125; thallus K flavet. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 36). — Etiam in Europa.

2361. **L. aglæida** Nyl. in *Flora* 1884, p. 215, et *Lich. Fr. Behr.* p. 36, ubi definitur; thallus K flavet. = In Asia boreali (Konyambay).

2362. **L. mesotropiza** Nyl. in *Flora* 1873, p. 20, et *Lich. Fr. Behr.* p. 36, ubi definitur. = In Asia boreali (Konyambay). — Etiam in Europa (Scotia).

2363. **L. armeniaca** Schær. *Lich. helvet. Spicil.* p. 126, Nyl. *Lich. Scand.* p. 229, ubi definitur; *Enum. Lich.* p. 125. — *Rhizocarpon armeniacum* DC. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 12) et meridionali (mont. Himalaya). — Etiam in Europa.

2364. **L. atro-brunnea** Schær. *Lich. helvet. Spicil.* p. 134, Nyl. *Prodr. Lich. Gall.* p. 133 et in *Flora* 1869, p. 413 in notula, ubi definitur; *Enum. Lich.* p. 125. — *Rhizocarpon atro-brunneum* Ram.; medulla I violaceo tingitur. = In Asia minori. — In America meridionali (Chili, *Addit. Fl. chil.* p. 185). — Etiam in Europa.

2365. **L. fusco-atra** Ach., Nyl. *Lich. Scand.* p. 229, *Lich. Algér.* p. 332, *Prodr. Lich. Gall.* p. 133 et in *Flora* 1869, p. 413, ubi definitur; *Enum. Lich.* p. 125; thallus K (CaCl) erythrinose reagit. = In Asia. — In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 215). — In America boreali et tropica (Bolivia, *Lich. And. Boliv.* p. 381). — Etiam in Europa.

2366. **L. fusco-atrula** Nyl. *Lich. N. Zeland.* 1888, p. 106, ubi definitur; *L. fusco-atra* Nyl. in *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 256; thallus CaCl —, K (CaCl) —, I +. = In Oceania (Nova Zelandia).

2367. **L. pallido-atra** Nyl. *Lich. N. Zeland.* 1888, p. 106, ubi definitur; thallus K —, CaCl —, I —. = In Oceania (Nova Zelandia).

2368. **Lecidea paupercula** Th. Fr. *Lichenogr. scand.* p. 482, Nyl. *Lich. Fr. Behr.* pp. 42 et 58, et in posteriore loco sporæ definiuntur. = In Asia boreali (Lawrencebay) et orientali (Japonia, *Lich. Jap.* p. 73). — Etiam in Europa.

2369. **L. nigro-cinerea** Nyl. *Lich. Pyren.-Orient.* p. 25 in notula; medulla K (CaCl) obsolete vel leviter reagens. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.*, pp. 44 et 37). — Etiam in Europa.

— **F. incinctula** Nyl. *Lich. Fr. Behr.* p. 58, ubi definitur. = In Asia boreali (Behring ins.).

2370. **L. petrina** Nyl. *Lich. N. Zeland.* 1888, p. 107, ubi definitur; thallus K e luteo rufescit et epithecium violascit. = In Oceania (Nova Zelandia).

25. — Stirps *Lecideæ ostreatæ* Schær.

Sporæ 8<sup>næ</sup> incolores, oblongæ, simplices.

2371. **L. hypopodia** Nyl. *Lich. Lapp. orient.* p. 464, ubi definitur, et in *Flora* 1862, p. 564. = In Europa arctica.

— Var. **subassimilata** Nyl. *Lich. Fr. Behr.* p. 47, ubi definitur. = In Asia boreali (Lawrence insula).

2372. **L. fusco-rufa** Nyl. *Lich. exot.* p. 225, ubi definitur; *Enum. Lich.* p. 126. = In America tropica (Peruvia).

2373. **L. Stuartii** Hampe, Nyl. *Enum. Lich.* p. 126. = In Oceania (Australia; Tasmania).

2374. **L. recedens** Nyl. *Enum. Lich. Supplém.* p. 337. « Thallus obsoletus, macula diffusa cinerascens obsolete indicatus. Apothecia nigra, opaca, pezizoidea, prominula, concaviuscula aut plana, margine tumido interdum plicato cincta (inde faciei triangularis), intus hymenio pallido rufescente, hypothecio albido; sporæ 8<sup>næ</sup> incolores, oblongæ vel ellipsoideæ, longit. 0,018-20 et crass. 0,007-8 millim. in thecis cylindræis; paraphyses non regulares. Gelatina hymenialis iodo dilute cœrulescens, apices thecarum (macula obturaculæ) intensius cœrulescentes. Spermogonia punctiformia conceptaculis dimidiato-nigris; spermatia acicularia, recta, longit. 0,009-11 et crass. 0,0005; sterigmata angusta. Anne *Patellaria*? ». = In America septentrionali (Carolina, super ramulos ex herb. Tuckerman).

26. — Stirps *Lecideæ sylvicolæ*.

Apothecia minuta; sporæ 8<sup>næ</sup>, incolores, simplices; spermatia recta.

2375. **L. paraphana** Nyl. in *Flora* 1838, p. 477, 1883, p. 108, et *Lich. Fr. Behr.* p. 58, ubi definitur. = In Asia boreali (Behring insula). — Etiam in Europa.

2376. **L. paraphanella** Nyl. in *Flora* 1882, p. 457, 1885, p. 441, et *Lich. Fr. Behr.* p. 40, ubi definitur, et ibid. p. 51. = In Asia boreali (Konyambay etc.).

2377. **L. melapsepha** Nyl. in *Flora* 1884, p. 215, et *Lich. Fr. Behr.* p. 40, ubi definitur. = In Asia boreali (Konyambay).

2378. **L. sylvicolella** Nyl. *Lich. Zeland.* 1888, p. 108, ubi definitur. = In Oceania (Nova Zelandia).

2379. **L. cladonioica** Nyl. *Lich. Campb.* p. 90 et *Lich. N. Zeland.* 1888, p. 109 in notula, ubi definitur. = In Oceania (ins. Campbell).

2380. **L. chalybeiza** Nyl. in *Flora* 1867, p. 440 et *Lich. N. Zeland.* 1888, p. 109, ubi definitur. = In Oceania (Nova Zelandia).

27. — Stirps *Lecideæ sanguinaris* Ach.

Sporæ 1-2 in thecis, magnæ.

2381. **Lecidea sanguinaria** Ach., Nyl. *Lich. Scand.* p. 246 et fig. 10, ubi definitur; *Enum. Lich.* p. 127; thallus K dilute flavet. = In Asia boreali (Konyambay etc., *Lich. Fr. Behr.* pp. 40 et 47) et orientali (Japonia, *Lich. Jap.* p. 76, ubi sporæ definiuntur). — In America boreali. — Etiam in Europa.

— F. **persanguinaria** Nyl. *Lich. Jap.* p. 77, ubi definitur. = In Asia orientali (Japonia).

— Var. **lecanoroidea** Nyl. *Lich. Jap.* p. 77, ubi definitur. = In Asia orientali (Japonia).

2382. \* **L. affinis** Schær., Nyl. *Lich. Fr. Behr.* pp. 16, 47 et 55; *L. sanguinaria* var. *affinis* Nyl. *Lich. Scand.* p. 246, ubi definitur; *Enum. Lich.* p. 127; thecæ aliquando bisporæ. = In Asia boreali (Lawrencebay etc.; Sibiria, *Lich. Middend.* p. 3). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 67). — Etiam in Europa.

2383. **L. melina** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 72 in notula et *Lich. Lapp. orient.* p. 166, ubi definitur. — *Megalospora melina* Krempelh. in litt. Sub apotheciis thallus anerythreus K flavet; thecæ bi-sporæ. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 53) et orientali (Japonia, *Lich. Jap.* p. 77, ubi pr. p. definitur.) — Etiam in Europa.

2384. **L. glabrescens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 72, ubi definitur; *Enum. Lich.* p. 127. = In America tropica (Columbia).

2385. **L. dissimulans** Nyl. *Addit. Fl. chil.* p. 167, ubi definitur; *Enum. Lich.* p. 127. — *Buellia marginata* Mont. = In America meridionali (Chili).

2386. **L. concordata** Nyl. in litt.; *L. concordans* Nyl. *Lich. N. Zeland.* 1888, p. 108, ubi definitur. Nomen mutandum fuit, quia jam adhibitum fuerat, cf. infra n° 2402. = In Oceania (Nova Zelandia).

2387. **L. campbelliana** Nyl. *Lich. Campb.* p. 90, et *Lich. N. Zeland.* 1888, p. 108, ubi definitur; soredia K (CaCl) rosco-violascunt. = In Oceania (ins. Campbell).

## 2. — Sporæ 1-vel pluri-septatæ.

28. Stirps *Lecideæ lenticularis* Ach.

Sporæ 8<sup>mæ</sup>, incolores, oblongæ, 1-septatæ; paraphyses apice clavatæ.

2388. **L. lenticularis** Ach., Nyl. *Lich. Scand.* p. 242, ubi definitur; *Enum. Lich.* p. 125. = In Africa boreali ex *Enum. Lich.*, sed advertendum est in hoc opusculo et in *Prodr. Lich. Gall.* p. 194, hanc *L. lenticularem* et *L. chalybeiam* Borr. eandem speciem haberi. = In Oceania (Nova Zelandia, *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 109, ubi definitur). — Etiam in Europa.

2389. **L. nigro-clavata** Nyl. *Lich. Algér.* p. 333, ubi definitur; *L. lenticularis* var. *nigro-clavata* Nyl. *Lich. Scand.* p. 242 et *Prodr. Lich. Gall.* p. 136, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

2390. **L. chalybeia** Borr., Nyl. *Lich. Algér.* p. 333, *Prodr. Lich. Gall.* p. 136 et apud Hue *Addent. Lichenogr. europ.* p. 231, ubi definitur; *Enum. Lich.* p. 125 in notula. Differt a *L. lenticulari* Ach. præsertim hypothecio infuscato. = In Asia orientali (Japonia, *Lich. Jap.* p. 76). — In Africa boreali (Algeria). — Etiam in Europa.

2391. **L. leptoboliza** Nyl. *Lich. Jap.* p. 76, ubi definitur; sporæ 3-septatæ. = In Asia orientali (Japonia).

2392. **L. punctuliformis** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50, tab. I, fig. 27, et ed. 2<sup>a</sup> p. 72, ubi definitur; sporæ 6-8<sup>mæ</sup> simplices. = In America tropica (Nova Granata).



29. — Stirps *Lecideæ grossæ* Pers.

Sporæ 8<sup>ae</sup>, incolores, ellipsoideæ, 4-septatæ.

2393. **Lecidea grossa** Pers., Nyl. *Lich. Scand.* p. 239, ubi definitur; *Enum. Lich.* p. 126. = In America meridionali (Chili, *Lich. exot.* p. 263). — In Oceania (Australia; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 110, in quo loco sporæ definiuntur). — Etiam in Europa.

2394. **L. parastata** Nyl. *Syn. Lich. N. Caledon.* p. 53, ubi definitur; *Flora* 1867, p. 195. Sporæ fuscæ 4-septatæ. = In Oceania (Nova Caledonia).

2395. **L. flavido-atra** Nyl. *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 111, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

30. — Stirps *Lecideæ subprivignæ* Nyl.

Sporæ 8<sup>ae</sup>, incolores, ellipsoideæ, variabiles, 4-septatæ. Spermata oblonga arthrosterigmatibus pauci-articulatis infixa.

2396. **L. subprivigna** Nyl. *Lich. Jap.* p. 75, ubi definitur. = In Asia orientali (Japonia).

31. — Stirps *Lecideæ rhexoblepharæ* Nyl.

Sporæ 8<sup>ae</sup> incolores, fusiformi-ellipsoideæ, 3-septatæ.

2397. **L. rhexoblephara** Nyl. *Lich. Scand.* p. 240 et *Lich. Lapp. orient.* p. 163, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 25, 47 et p. 55). — Etiam in Europa arctica.

32. — Stirps *Lecideæ premneæ* Ach.

Sporæ 8<sup>ae</sup>, incolores, 3-12 septatæ. Spermata cylindrica, magna; maxima inter Lichenes in *L. abietina* Ach.

2398. **L. Dilleniana** Nyl. *Lich. Scand.* p. 240, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 39). — Etiam in Europa.

— Var. **leptotea** Nyl. *Lich. Fr. Behr.* p. 39, ubi definitur. = In Asia boreali (Konyambay).

2399. **L. proximans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 49 et ed. 2<sup>a</sup> p. 70, ubi definitur. = In America tropica (Nova Granata).

2400. **L. premnea** Ach., Nyl. *Lich. Scand.* p. 241, ubi definitur; *Enum. Lich.* p. 126. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 68, necnon *Lich. Jap.* p. 76, et in hoc posteriore loco sporæ definiuntur). — In Oceania (ins. Java). — Etiam in Europa.

— Var. 1. **deminuens** Nyl. *Syn. Lich. N. Caled.* pp. 53 et 54 atque in *Flora* 1867, p. 373, ubi definitur. In *Exposit. Lich.* ejusdem regionis p. 49, quædam forma definitur, an sit eadem? = In Oceania (ins. Labuan *Lich. Jap.* p. 111, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 195, ubi species typica indicatur). — Etiam in Europa boreali.

— Var. 2. **melargyra** Nyl. in *Flora* 1867, p. 5, ubi definitur. = In Asia meridionali (Calcutta).

2401. **Lecidea coniochlora** Mont. *Sylog.* p. 342; Nyl. *Lich. Andam.* p. 12, ubi sporæ definiuntur. = In Oceania (ins. Java).

2402. \* **L. concordans** Nyl. *Lich. Andam.* p. 11, ubi definitur. = In Asia meridionali (ins. Andaman).

2403. **L. plurilocularis** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 71 et *Syn. Lich. N. Caled.* p. 54, ubi definitur; *L. premnea* var. *plurilocularis* Nyl. *Exposit. Lich. N. Caled.* p. 49, ubi etiam definitur. Specie forsitan non differt a *L. coniochlora* Mont. = In Asia meridionali (Bengalia, *Flora* 1869, p. 71). — In America tropica (Peruvia, *Lich. exot.* p. 225, ubi vocatur *L. premnea* Ach.). — In Oceania (ins. Labuan, *Lich. Jap.* p. 111, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 195).

2404. **L. proximata** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 71 in notula, ubi definitur. = In America tropica (ins. Cuba).

2405. **L. insignior** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 49, tab. I, fig. 25 et 26, et ed. 2<sup>a</sup> p. 71, ubi definitur. = In America tropica (Nova Granata).

2406. **L. Leprieurii** Mont. *Cryptog. guyan.* n<sup>o</sup> 121, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 49 et ed. 2<sup>a</sup> p. 71, ubi definitur; *Enum. Lich.* p. 122. = In Asia tropica (Guyana; Nova Granata).

2407. **L. Leprieurioides** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 56, ubi definitur. = In Asia orientali (Malacca).

2408. **L. chloroconia** Tuck., Nyl. et Cromb. *Lich. East. Asia* p. 56, ubi definitur. = In Asia orientali (Malacca).

2409. **L. Moseleyi** Cromb., Nyl. apud Cromb. *Challeng. Exped. Addit.* p. 83, ubi definitur. = In Oceania (ins. Philippinis).

2410. **L. subfarinosa** Nyl. *Lich. N. Zeland.* 1888, p. 110, ubi definitur. — *Platygrapha excincta* Nyl.; thallus K vix tingitur. = In Oceania (Nova Zelandia).

2411. **L. scotomma** Nyl. *Lich. Jap.* p. 75, ubi definitur; species incerti loci, vix stirpis *Lecidæ premneæ* Ach. = In Asia orientali (Japonia).

### 33. — Stirps *Lecidæ diffluentis* Nyl.

Sporæ 4<sup>næ</sup>, incolores, 3-septatæ et varie divisæ.

2412. **L. diffluens** Nyl. *Lich. Fueg.* p. 17, ubi definitur. = In America australi (Patagonia).

### 34. — Stirps *Lecidæ urceolatæ* Ach.

Sporæ 8<sup>næ</sup>, incolores, pluriseptatæ.

2413. **L. urceolata** Ach. *Syn. Lich.* p. 27, Nyl. *Enum. Lich.* p. 127; Leight. *Lich.-Flora Gr. Brit.* 3<sup>a</sup> ed. p. 361. — *Conotrema urceolatum* Tuck. *Syn. North Americ. Lich.* I, p. 217. = In America boreali et tropica (Brasilia). — Etiam in Europa.

### 35. — Stirps *Lecidæ citrinellæ* Ach.

Thallus citrinus; sporæ 8<sup>næ</sup>, aciculares, simplices vel interdum 1-septatæ.

2414. **L. citrinella** Ach., Nyl. *Lich. Scand.* p. 248, ubi definitur; *Enum. Lich.* p. 127. = In Europa.

— Var. **alpina** Nyl. *Lich. Fr. Behr.* p. 25; *L. flavo-virescens* var. *citrina* Schær. *Enum. Lich. europ.* p. 125. = In Asia boreali (Konyambay). — Etiam in Europa.

## Sectio II. — SPORÆ FUSCÆ VEL NIGRESCENTES.

A. — *Thallus variæ formæ, non citrinus.*36. — Stirps *Lecidæ perustæ* Nyl.

Sporæ 8<sup>na</sup>, simplices et ellipsoideæ, incolores, demum nigrescentes.

2415. **Lecidea perusta** Nyl. apud Cromb. *Kerguel. land* p. 188, ubi definitur. = In Africa australi (ins. Kerguelen).

37. — Stirps *Lecidæ canescentis* Ach.

Thallus radiosus vel laciniato-radiosus; sporæ 8<sup>na</sup>, fuscæ, 1-septatæ; spermatia recta.

2416. **L. canescens** Ach., Nyl. *Prodr. Lich. Gall.* p. 119, ubi definitur; *Enum. Lich.* p. 123. = In Asia meridionali (India). — In Africa boreali (Algeria, *Lich. Algér.* p. 314; Ægypto, *Lich. Ægypt.* p. 6). — Etiam in Europa.

2417. **L. epigæa** Schær., Nyl. *Lich. Algér.* p. 327 et *Prodr. Lich. Gall.* p. 119, ubi definitur; *Enum. Lich.* p. 123. = In Africa boreali (Algeria, *Flora* 1878, p. 343, ubi errore scribitur *L. spigea* Schær.). — Etiam in Europa.

2418. **L. australissima** Nyl. *Enum. Lich.* p. 123. Thallus fusco-cinerascens; sporæ fuscæ 1-septatæ. = In regionibus antarcticis.

38. — Stirps *Lecidæ myriocarpæ* Nyl.

Sporæ 8<sup>na</sup>, fuscæ, 1-septatæ; spermatia arcuata; sterigmata simplicia.

2419. **L. myriocarpa** Nyl. *Lich. Scand.* p. 237, *Lich. Lapp. orient.* p. 163 et *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 113, atque in *Flora* 1863, p. 339, ubi definitur; *Enum. Lich.* p. 126. — *Patellaria myriocarpa* DC. = In Asia boreali (Lawrencebay, etc., *Lich. Fr. Behr.* pp. 6, 16, 37 et 58). — In America boreali (Alaska, Nyl. *ibid.* p. 88, et pro hac regione videtur esse *Lecidea Paulina* Tuck.; Nova Anglia, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 70, ubi sporæ definiuntur) et tropica (Nova Granata, ubi occurrunt variæ formæ in opere modo citato, ed. 1<sup>a</sup> p. 49 et ed. 2<sup>a</sup> p. 70 definitæ; Bolivia, ubi vigent species typica et forma definita in *Lich. And. Boliv.* p. 381). — In Oceania (Nova Zelandia). — Etiam in Europa.

— F. 1. **punctiformis** Nyl. apud Lamy *Catal. Lich. Mont-Dore* p. 139; *L. punctata* var. *punctiformis* Schær. *Enum. Lich. europ.* p. 129. — *Verrucaria punctata* var. *punctiformis* Hoffm. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 53) et orientali (Japonia, *Lich. Jap.* p. 77, ubi sporæ definiuntur). — In America australi (Fuegia, *Lich. Fueg.* p. 17). — Etiam in Europa.

— F. 2. **marcidula** Nyl. apud Cromb. *Lich. capens.* p. 179, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

2420. **L. succedens** Nyl. in *Flora* 1866, p. 372, et *Lich. Jap.* p. 77, ubi definitur. = In Asia orientali (Japonia). — Etiam in Europa.

2421. **L. atro-flavella** Nyl. *Lich. N. Zeland.* 1888, p. 114, ubi definitur; medulla I —. = In Oceania (Nova Zelandia).

2422. **L. insperata** Nyl. in *Flora* 1880, p. 128. — *Lecanora insperata* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 29 et ed. 2<sup>a</sup> p. 31, ubi definitur; sporæ fuscæ placodiomorphæ. = In America tropica (Nova Granata).



39. — Stirps *Lecideæ nigritulæ* Nyl.

Sporæ 8<sup>ne</sup>, fuscae, 1-septatae; spermata recta, minutula.

2423. **Lecidea nigritula** Nyl. *Lich. Scand.* p. 238, ubi definitur; *Enum. Lich.* p. 126. = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 173, *Contrib. da Fl. d'Afric.* p. 8 et *Lich. ins. Guin.* p. 25). — Etiam in Europa.

2424. **L. diorista** Nyl. in *Flora* 1869, p. 71, ubi definitur. = In Asia meridionali (Bengalia).

40. — Stirps *Lecideæ spuriae* Schær.

Sporæ 8<sup>nae</sup>, fuscae, 1-septatae. Spermata recta, parva, aliquando arthrosterigmatibus pauci-articulatis inserta.

2425. **L. conioops** Wahlenb., Nyl. *Lich. Lapp. orient.* p. 162; *L. disciformis* var. *conioops* Nyl. *Lich. Scand.* p. 237, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 37). — Etiam in Europa arctica.

2426. **L. subplicata** Nyl. apud Cromb. *Kerguel. land* p. 190, ubi definitur. = In Africa australi (ins. Kerguelen).

2427. **L. conioptoides** Nyl. *Lich. S<sup>ti</sup> Pauli* p. 6 et in *Flora* 1886, p. 321, ubi definitur. = In Africa orientali antarctica (ins. S<sup>ti</sup> Pauli).

2428. **L. parasemopsis** Nyl. *Lich. S<sup>ti</sup> Pauli* p. 6 et in *Flora* 1886, p. 321, ubi definitur. = In Africa orientali antarctica (ins. S<sup>ti</sup> Pauli).

2429. **L. subtristis** Nyl. *Lich.* apud Cromb. *Lich. capens.* p. 179, ubi definitur. Forsan est potius *Lecanora*. = In Africa meridionali (promont. Bonæ Spei).

2430. **L. tristiuscula** Nyl. apud Cromb. *Kerguel. land* p. 190, ubi definitur. = In Africa australi (ins. Kerguelen).

2431. **L. spuria** Schær. *Enum. Lich. europ.* p. 114, Nyl. *Lich. Pyren.-Orient.* p. 58; thallus K flavet et medulla I cærulescit. = In Africa meridionali (promont. Bonæ Spei, Nyl. apud Cromb. *Lich. capens.* p. 178, ubi dicitur hanc *Lecideam* potius forsân esse *Lecanoram* ob spermogonia). — Etiam in Europa.

2432. **L. atro-albella** Nyl. in *Flora* 1881, p. 181; *L. atro-alba* var. *atro-albella* Nyl. *Prodr. Lich. Gall.* p. 129 et *Lich. Jap.* p. 79, ubi definitur; *Enum. Lich.* p. 124; thallus K e flavo ferrugineo-rubet, medulla I +. = In Asia orientali (Japonia). — In America tropica (Peruvia, *Lich. exot.* p. 225) et meridionali (Chili). — In Oceania (Australia; ins. Nukahiva, *Lich. exot.* p. 244). — Etiam in Europa.

Si attendatur ad notas datas, id est ad sporarum mensuram et thalli reactionem, ad hanc speciem referri debet *L. stellulata* Nyl. *Lich. Angol.* p. 516, *Prodr. Fl. N. Gran. Addit.* p. 560 et in *Flora* 1864, p. 519; pro Nova Granata, conferatur *Lich. Jap.* p. 79 in notula.

2433. **L. continens** Nyl. *Lich. ins. Princip.* p. 3, *Lich. ins. Guin.* p. 24 et apud Cromb. *Lich. ins. Rodrig.* p. 442, ubi definitur; thallus K flavet et medulla I cærulescenti-obscuratur. = In Africa orientali (ins. Rodriguez) et occidentali (ins. Principis).

2434. **L. immutans** Nyl. apud Cromb. *Lich. ins. Rodrig.* p. 442, ubi definitur; thallus K + flavet, medulla I —. = In Africa orientali (ins. Rodriguez).

2435. **L. incuriosa** Nyl. apud Cromb. *Lich. capens.* p. 178, ubi definitur; thallus K flavet. = In Africa meridionali (promont. Bonæ Spei).

2436. **L. distrata** Nyl. apud Cromb. *Lich. capens.* p. 179, ubi definitur; thallus K flavet, I —. = In Africa meridionali (promont. Bonæ Spei).

2437. **Lecidea prospersa** Nyl. in *Flora* 1880, p. 127, ubi definitur; thallus K (CaCl) nonnihil aurantiaco-tingitur. = In America tropica (ins. S<sup>ti</sup> Thomæ Antillarum).

2438. **L. Acunhana** Nyl. apud Cromb. *Challeng. Expedit.* p. 222, ubi definitur; thallus K —, I —. = In Africa australi (ins. Tristan d'Acunha).

2439. **L. stellulata** Tayl., Nyl. *Syn. Lich. N. Caled. Exposit.* p. 49 et *Syn.* p. 53, ubi definitur; thallus K flavet, *Lich. Pyren.-Orient* p. 12, medulla I —. In *Lich. Angol.* p. 516 datur reactio K ferrugineo-rubricans et medulla I violascens, sed ibi commiscetur *L. atro-albella* Nyl. et *L. stellulata* Tayl. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 68, atque *Lich. Jap.* p. 80). — In Africa orientali antarctica (ins. S<sup>ti</sup> Pauli, *Flora* 1886, p. 321) et meridionali (promont. Bonæ Spei). Indicatur in Africa occidentali, ins. Angol., *Lich. Angol.* p. 516, et in Nova Granata, in America tropica, *Prodr. Fl. N. Gran. Addit.* p. 560, sed e reactione data hæc referri debent ad *L. atro-albellam* Nyl. supra n° 2432. — In America tropica (Bolivia, ubi viget species typica et forma definita in *Lich. And. Boliv.* p. 381) et meridionali (Chili, *L. atro-alba* var. *atro-albella* Nyl. *Addit. Fl. chil.* p. 165, ubi definitur). — In Oceania (Australia, *Flora* 1864, p. 270, et 1886, p. 325, et in hoc posteriore loco sporæ definiuntur; Nova Caledonia, *Prodr. Fl. N. Caled.* p. 283 et *Flora* 1867, p. 195; Nova Zelandia, *Flora* 1865, p. 339, *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 113, ubi sporæ definiuntur). — Etiam in Europa.

E prædictis sequitur nomen *L. atro-albam* var. *atro-albellam* Nyl. in *Prodr. Lich. N. Caled.* p. 283 et in *Lich. Angol.* p. 516 inde tolli debere.

2440. **L. substellulata** Nyl. in *Flora* 1886, p. 325, ubi definitur; thallus K flavet et I —. = In Oceania (Australia)

2441. **L. rimulata** Nyl. in *Flora* 1864, p. 270, ubi definitur. = In Oceania (Australia).

2442. **L. vernicoma** Tuck.; *L. myriocarpella* Nyl. *Lich. Pyren.-Orient.* p. 59, ubi definitur. — *Buellia vernicoma* Tuck. *Syn. North Americ. Lich.* II, p. 99. = In America septentrionali (Nova Anglia, New Jersey, Carolina meridionali, Alabama et Massachusetts). — Etiam in Europa.

2443. **L. insidians** Nyl. in litt. = In America septentrionali (statu Tennessee, legit Calkins supra saxa calcarea).

2444. **L. albula** Nyl. *Lich. Angol.* p. 517 et *Lich. N. Zeland.* 1888, p. 113, ubi definitur; thallus K —, I —; *L. disciformis* var. *albula* Nyl. *Enum. Lich.* p. 126. = In Oceania (Nova Zelandia).

2445. **L. subalbula** Nyl. *Lich. Angol.* p. 516 et in *Flora* 1876, p. 284, ubi definitur; *L. disciformis* var. *albula* Nyl. *Lich. Ægypt.* p. 7, ubi definitur; *L. maritima* Bagl. quæ in *Lich. Ægypt.* cum *L. albula* jungitur, ab ea in *Lich. Angol.* removetur et in *Flora* 1881, p. 180, ut species distincta agnoscitur. = In Africa boreali (Ægypto) et occidentali (ins. Angola).

2446. **L. minutula** Nyl. apud Lamy *Catal. Lich. Mont-Dore*; *L. spuria* var. *minutula* Hepp *Flecht. Europ.* n. 313; thallus K —, I —. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 113). — Etiam in Europa.

— **F. albothallina** Nyl. *Lich. Jap.* p. 80, ubi definitur. — *Buellia rinodinoides* Anzi *Neosymb. Lich. Ital. superior.* p. 13 et *Exsicc.* n° 56; thallus K —, I —. = In Asia orientali (Japonia). — Etiam in Europa.

2447. **L. ocellata** Flörke, Nyl. *Lich. Angol.* p. 516, ubi definitur pr. p.; *Enum. Lich.* p. 124; thallus CaCl aurantiaco-suberythrinose tingitur, K —, I —, *Lich. Pyren.-Orient.* p. 59. — *Rinodea sulphurea* Lœnnr.; *Buellia verrucosa* Mudd.; *Rinodina microphthalma* Mass. et *Buellia rinodinea* Mass. *Lich. capens.* pp. 29 et 31. = In Africa meridionali (promont. Bonæ Spei). — Etiam in Europa.

— F. 1. **purior** Nyl. *Lich. Angol.* p. 516, ubi definitur ut species typica. = In Africa occidentali (Angola).

— F. 2. **ferruginosa** Nyl. *Enum. Lich.* p. 124. = In Asia (mont. Himalaya).

2448. **Lecidea melaxanthella** Nyl. *Lich. N. Zeland.* 1888, p. 112, ubi definitur; thallus K flavet, K (CaCl) aurantiaco-erythrinose tingitur. = In Oceania (Nova Zelandia).

2449. **L. melaxanthiza** Nyl. in litt. = In Oceania (ins. Labuan, legit Almquist supra cortices).

2450. **L. Elizæ** Tuck., Nyl. *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Virginia, Vermont et Massachusetts, Tuck. *Syn. North Americ. Lich.* II, p. 96).

2451. **L. turgescens** Nyl. *Enum. Lich. Supplém.* p. 337. — *Buellia turgescens* Tuck. *Syn. North Americ. Lich.*, II p. 97. = In America septentrionali (Nova Anglia).

2452. **L. fertilis** Nyl. in *Flora* 1864, p. 267, ubi definitur. — *Buellia fertilis* Kœrb. *Reliq. Hochstett.* p. 33. = In Oceania (Australia).

2453. **L. cerebrinella** Nyl. apud Cromb. *Kerguel. land* p. 191, ubi definitur; thallus. K + flavet. Species affinis *L. cerebrinæ* Schær., Nyl. *Prodr. Lich. Gall.* p. 140. = In Africa australi (ins. Kerguelen).

#### 41. — Stirps *Lecidæ disciformis* Fr.

Sporæ 8<sup>næ</sup> fuscæ, 1-raræ 3-septatæ; spermatia recta, parva, interdum arthrosterigmatibus infixa.

2454. **L. disciformis** Fr., Nyl. *Lich. Scand.* p. 236, *Lich. Lapp. orient.* p. 162, *Lich. Algér.* p. 331, *Quelq. Lich. Algér.* p. 216, *Prodr. Lich. Gall.* p. 140 et *Addit. Fl. chil.* p. 166, ubi definitur; *Enum. Lich.* p. 126; thallus K flavet; *L. parasema* var. *Chinchonarum* Fée et *L. glaucotheca* Fée. = Cosmopolita. In Asia boreali (Sibiria, *Lich. Middend.* p. 3; Lawrencebay, *Lich. Fr. Behr.* p. 9) et orientali (Japonia, *Lich. Jap.* p. 77, ubi pr. p. definitur). — In Africa boreali (Algeria), orientali (ins. Borbonia, *Lich. exot.* p. 260) et meridionali (Portu Natali, *Lich. Port Natal* p. 11). — In America boreali (Port-Clarence et Alaska, *Lich. Fr. Behr.* p. 68 in notula et p. 88), tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Flora* 1864, p. 620, et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 49, ed. 2<sup>a</sup> p. 69 et *Addit.* p. 560, in duobus posterioribus locis sporæ definiuntur; Bolivia et Peruvia, *Lich. exot.* p. 225) et meridionali (Chili). — In Oceania (ins. Java, *Flora* 1866, p. 132; Australia, *Flora* 1864, p. 270, et *Lich. N. Zeland.* 1861, p. 253 in notula; ins. Nukahiva, *Lich. exot.* p. 244 et *Lich. îles Marquis.* p. 312; Nova Caledonia, *Flora* 1867, p. 195 et *Exposit. Lich. N. Caledon.* p. 48, sed ibi est forsitan *L. subdisciformis* Leight.) — Etiam in Europa.

— F. **insignis** Nyl. *Lich. Lapp. orient.* p. 162 et *Lich. Fr. Behr.* p. 47, ubi definitur; thallus K flavet; *L. insignis* Næg. = In Asia boreali (Lawrence ins.). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 67). — Etiam in Europa.

— Var. 1. **ecrustacea** Nyl. *Prodr. Lich. Gall.* p. 141; *Enum. Lich.* p. 126; *Lichenes montdorienses* n. 57. = In Africa. — Etiam in Europa.

— Var. 2. **æruginescens** Nyl. *Addit. Fl. chil.* p. 166 et *Syn. Lich. N. Caled.* p. 52, ubi definitur; *Enum. Lich.* p. 126 —. = In America australi (Chili). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

— Var. 3. **rosello-tincta** Nyl. *Syn. Lich. N. Caled.* p. 52, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

— Var. 4. **epimarta** Nyl. *Lich. N. Caled. Exposit.* p. 48 et *Syn.* p. 52, ubi definitur, in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2455. \* **L. subpruinosa** Nyl. *Syn. Lich. N. Caled.* p. 52 in notula; *L. disciformis* var.



*caesio-pruinosa* Nyl. *Addit. Fl. chil.* p. 166, ubi definitur, *Enum. Lich.* p. 126; thallus K flavescit deinque roseo-tingitur. = In America meridionali (Chili).

2456. \*\* **Lecidea halonia** Ach. *Syn. Lich.* p. 23, Nyl. *Prodr. Fl. N. Gran.* p. 70, ubi definitur; *L. disciformis* var. *halonia* Nyl. *Enum. Lich.* p. 126. = In Africa meridionali (promont. Bonæ Spei). — Etiam in Europa (Gallia).

2457. \*\*\* **L. triphragmia** Nyl. *Lich. Scand.* p. 236, *Prodr. Lich. Gall.* p. 141 in notula, *Lich. N. Caled. Exposit.* p. 48 et *Syn.* p. 52, ubi definitur; *Enum. Lich.* p. 126. — *L. Lauricassiæ* Fée, Nyl. *Prodr. Lich. Gall.* p. 195; thallus dicitur K flavens in *Lich. Port Natal* p. 11 et in *Flora* 1869, p. 122; in *Syn. Lich. N. Caled.* loc. citat. indicatur flavens et dein rubens; sporæ 3 septatæ. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 57) et meridionali (Calcutta, *Flora* 1867, p. 5, *L. approximata* Krempelh. in herb.). — In Africa orientali (ins. Madagascar) et meridionali (Portu Natali). — In America tropica (Bolivia, *Lich. exot.* p. 225; Brasilia). — In Oceania (Nova Hibernia, *Lich. exot.* p. 244; Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

2458. \*\*\*\* **L. conspirans** Nyl. in *Flora* 1868, p. 345 in notula, ubi definitur; thallus K e flavo cinnabarinus evadit. = In America tropica (Nova Granata).

2459. **L. meiosperma** Nyl. *Exposit. Lich. N. Caled.* p. 49 et *Plant. Mexic.* p. 6, ubi definitur; *L. disciformis* var. *meiosperma* Nyl. in *Flora* 1868, p. 478; *L. microsperma* Nyl. *Syn. Lich. N. Caled.* p. 52, ubi definitur; non *L. microsperma* Nyl. *Lich. exot.* p. 259, supra n° 1928; thallus K —. = In America tropica (Mexico). — In Oceania (Nova Caledonia). — Etiam in Europa (ins. Cæsarea).

2460. **L. enteroleucoides** Nyl. in *Flora* 1877, p. 232; *L. disciformis* var. *enteroleucoides* Nyl. in *Flora* 1869, p. 298, ubi definitur. = In America boreali (Groenlandia; Alaska, *Lich. Fr. Behr.* p. 88). — Etiam in Europa (Gallia).

2461. **L. subjuncta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 49 et ed. 2<sup>a</sup> p. 70, ubi definitur. = In America tropica (Nova Granata).

2462. **L. flavo-areolata** Nyl. *Addit. Fl. chil.* p. 166, ubi definitur; *Enum. Lich.* p. 126. = In America australi (Chiti).

2463. **L. interstincta** Nyl. in *Flora* 1864, p. 270, ubi definitur. = In Oceania (Australia).

2464. **L. dialyta** Nyl. in *Flora* 1869, p. 123, ubi definitur; thallus K —. = In America septentrionali calida (California).

2465. **L. subnexa** Nyl. *Lich. Jap.* p. 77, ubi definitur. = In Asia orientali (Japonia).

2466. **L. disculiformis** Nyl. *Lich. Jap.* p. 78, ubi definitur. = In Asia orientali (Japonia).

2467. **L. japonica** Tuck., Nyl. *Lich. Jap.* p. 78, ubi definitur. = In Asia orientali (Japonia).

2468. **L. mourayamana** Nyl. *Lich. Jap.* p. 78, ubi definitur. = In Asia orientali (Japonia).

2469. **L. callispora** Nyl. in *Flora* 1886, p. 325, ubi definitur; thallus K lutescit. = In Oceania (Australia).

2470. **L. tetrapla** Nyl. in *Flora* 1886, p. 325, ubi definitur; thallus K flavet. = In Oceania (Australia).

2471. **L. sanguinariella** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 560, ubi definitur. = In America tropica (Nova Granata).

2472. **L. delævata** Nyl. *Lich. ins. Guin.* p. 23, ubi definitur; thallus K flavet. = In Africa occidentali (ins. Principis).

2473. **L. subdisciformis** Leight., Nyl. in *Flora* 1886, p. 325, et *Lich. ins. Principis* p. 4, ubi definitur; thallus K e flavo ferrugineo-rubet; medulla I —. = In Africa occidentali

(ins. Principis, *Lich. ins. Guin.* p. 24, ubi sporæ definiuntur). — In America tropica (in ripis Amazonæ et in Andibus, *Flora* 1874, p. 72). — In Oceania (Australia; Nova Caledonia, *Syn. Lich. N. Caled.* p. 51, ubi definitur sub nomine erroneo: *L. disciformis*). — Etiam in Europa Gallia occidentali et ins. Corsica).

2474. **Lecidea leptoclinis** Flot., Nyl. apud Hue *Addend. Lichenogr. europ.* p. 223, ubi definitur; thallus K flavet, CaCl —. = In Asia boreali (Behring. ins., *Lich. Fr. Behr.* p. 58) et meridionali (Bengalia, ad cortices (Kurtz). — Etiam in Europa.

2475. **L. contingens** Nyl. apud Cromb. *Lich. capens.* p. 178, ubi definitur; thallus K flavet et dein ferrugineo-rubescit, medulla præsertim sic tingitur, CaCl —, I— = In Africa meridionali (promont. Bonæ Spei).

2476. **L. incerta** Nyl. *Addit. Fl. chil.* p. 166, ubi definitur; *L. premnea* Mont. *Chil.* p. 179. = In America meridionali (Chili).

2477. **L. dejungens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 70, ubi definitur. = In America tropica (ins. Cuba).

2478. **L. decedens** Leight., Nyl. *Lich. N. Zeland.* 1888, p. 111, ubi definitur; in *Flora* 1867, p. 440. = In Oceania (Nova Zelandia).

2479. **L. posthabita** Nyl. *Lich. N. Zeland.* 1888, p. 111, ubi definitur; thallus K flavet. = In America tropica (Nova Granata).

2480. **L. exsoluta** Nyl. *Lich. N. Zeland.* 1888, p. 112, ubi definitur; thallus K—, apothecia K intus violascunt. = In Oceania (Nova Zelandia).

2481. **L. fuscula** Nyl. *Addit. Fl. chil.* p. 165, ubi definitur; *Enum. Lich.* p. 124. = In America meridionali (Chili).

2482. **L. xylographella** Nyl. *Lich. Jap.* p. 79, ubi definitur. = In Asia orientali (Japonia).

2483. **L. hypoleucodes** Nyl. *Lich. Jap.* p. 79, ubi definitur. = In Asia orientali (Japonia).

2484. **L. badiella** Nyl. *Lich. Pyren.-Orient.* p. 12 et *Lich. N. Zeland.* 1888, p. 112, ubi definitur. = In Oceania (Nova Zelandia). — Etiam in Europa.

2485. **L. dissimilis** Nyl. *Lich. N. Caled. Exposit.* p. 48 et *Syn.* p. 51, ubi definitur; in *Flora* 1867, p. 195; thallus K—. Anne satius *Lecanora* e stirpe *L. sophodis*? = In Oceania (Nova Caledonia).

2486. **L. subcervina** Nyl. *Lich. N. Zeland.* 1888, p. 147, ubi definitur; *Lich. exot.* p. 263 et *Enum. Lich.* p. 126. = In America australi (cap Horn).

2487. **L. tetrastichella** Nyl. *Lich. Jap.* p. 80, ubi definitur; affinis *Lecidea verruculosa* Schær. quæ est *Lichen verruculosus* Borr., *Buellia verruculosa* Th. Fr. *Lichenogr. scand.* p. 600; thallus CaCl erythrinose tingitur. = In Asia orientali (Japonia).

2488. **L. pleiophoroides** Nyl. *Lich. Jap.* 81, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).

2489. **L. lepida** Nyl. *Lich. N. Zeland.* 1888, p. 61. — *Lecanora lepida* Nyl. *Enum. Lich.* p. 115. « Thallus citrinus vel sulphureo-virescens, tenuis, leviter inæqualis, effusus, intus fere concolor; apothecia atra, parva, opaca, intus obscura; sporæ 8<sup>ae</sup> fuscae, 1-septatae, longit. 0,020-34 et crass. 0,011-14 millim.; paraphyses graciles non bene distinctæ; hypothecium incolor. Gelatina hymenialis iodo intensive cœrulescens. Obiter visa simulat *L. scabrosam* Ach., vel potius *Trachyliam tigillarem* Fr. » = In America tropica (Brasilia, supra corticem, Goyas).

2490. **L. Catawbensis** Nyl. *Lich. N. Zeland.* 1888, p. 151, ubi definitur. — *Buellia Catawbensis* Willey. — *Dermaticum porcellaneum* Nyl. in *Bull. Torrey botan. Club*, July 1887; thallus K flavet. = In America septentrionali (Carolina meridionali).

2491. **L. takashimana** Nyl. *Lich. Jap.* p. 80, ubi definitur; thallus K flavescit, dein ferrugineose tingitur. Species incerti loci. = In Asia orientali (Japonia).

42. — Stirps *Lecidæ albo-atræ* Schær.

Sporæ 8<sup>næ</sup>, fuscæ, typice 3-septatæ. Spermata recta arthrosterigmatibus infixæ.

2492. **Lecidea albo-atra** Schær., Nyl. *Lich. Scand.* p. 235, *Prodr. Lich. Gall.* p. 141 et *Syn.* I, tab. I, fig. 22, ubi definitur; *Enum. Lich.* p. 126. — *Lichen albo-ater* Hoffm. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 16 et 58). — In Africa boreali (Algeria, *Flora* 1878, p. 345). — In America boreali. — Etiam in Europa.

— Var. 1. **leucocelis** Nyl. *Lich. Scand.* p. 235 et *Quelq. Lich. Algér.* p. 215, ubi definitur; *Lecidea corticola* var. *leucocelis* Ach. *Lichenogr. univ.* p. 187. = In Africa boreali (Algeria). — Etiam in Europa.

— Var. 2. **epipolia** Nyl. *Lich. Scand.* p. 235 et *Quelq. Lich. Algér.* p. 216, ubi definitur; *Enum. Lich.* p. 126; *L. epipolia* Ach. = In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 141; Ægypto, *Lich. Ægypt.* p. 7 et *Flora* 1876, p. 284). — Etiam in Europa.

2493. **L. subalbo-atra** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 49, ubi definitur. = In Asia orientali (Birmania).

2494. **L. albo-atrior** Nyl. in *Flora* 1869, p. 71, ubi definitur; thallus K flavet. = In Asia meridionali (Bengalia).

2495. **L. zabotica** Nyl. *Lich. Jap.* p. 81, ubi definitur. — *Diplotomma zaboticum* Koerber *Syst. Lich. German.* p. 219. = In Asia orientali (Japonia). — Etiam in Europa.

2496. **L. aliena** Nyl. *Enum. Lich.* p. 127; *L. oidalea* Tuck. *Gen.* p. 189 et *Syn. Lich. North Americ.* II, p. 99. = In America septentrionali calida (California).

— **F. penichra** Nyl. *Lich. Jap.* p. 81, ubi definitur; *L. oidalea* f. *penichra* Tuck. = In Asia orientali (Japonia). — In America septentrionali calida (California).

43. — Stirps *Lecidæ coracinæ* Ach.

Sporæ 8<sup>næ</sup>, fusco-nigrescentes, simplices vel obsolete 4-septatæ.

2497. **L. coracina** Ach. pr. p., Mougeot, Nyl. *Lich. Scand.* p. 232 et *Prodr. Lich. Gall.* p. 126, ubi definitur; *Enum. Lich.* p. 124. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 14, 16 et 37). — Etiam in Europa.

44. — Stirps *Lecidæ atro-albæ* Flot.

Sporæ 8<sup>næ</sup>, incolores vel demum obscuratæ aut raro nigrescentes, aliquando halone circumdatæ, raro simplices, sæpius 4-septatæ. Spermata recta.

2498. **L. jemtlandica** Th. Fr. *Lichenogr. scand.* p. 580, Nyl. *Lich. Fr. Behr.* p. 47, ubi definitur; sporæ simplices vel 4-septatæ; species incertæ sedis. = In Asia boreali (Lawrence ins.). — Etiam in Europa arctica.

2499. **L. chionea** Norman, Nyl. *Lich. Fr. Behr.* p. 70, ubi definitur. = In America boreali (Port-Clarence). — Etiam in Europa.

2500. **L. ochrodela** Nyl. in *Flora* 1885, p. 445, et *Lich. Fr. Behr.* p. 14, ubi definitur; medulla thalli I —. = In Asia boreali (Lawrencebay).

2501. **L. decinerascens** Nyl. in *Flora* 1885, p. 445, et *Lich. Fr. Behr.* p. 14, ubi definitur. = In Asia boreali (Lawrencebay).

2502. **L. expallescentis** Th. Fr. *Lichenogr. scand.* p. 620, Nyl. *Lich. Fr. Behr.* p. 15. = In Asia boreali (Lawrencebay). — Etiam in Europa arctica.

2503. **L. colludens** Nyl. in *Flora* 1870, p. 38, et 1873, p. 299, ubi definitur; medulla



thalli I —. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 15) et orientali (Japonia, *Lich. Jap.* p. 82, ubi sporæ definiuntur). — Etiam in Europa.

2504. **Lecidea infernula** Nyl. in *Flora* 1885, p. 440, et *Lich. Fr. Behr.* p. 58, ubi definitur; thallus K —, I —. = In Asia boreali (Behring ins.).

2505. **L. Copelandi** Nyl. *Lich. Fr. Behr.* pp. 15 et 58, ubi sporæ definiuntur. — *Buellia Copelandi* Koerb. Zw. *Deutsch. Pol. Exped.* (1874) p. 79. = In Asia boreali (Lawrencebay et Behring ins.). — Etiam in Europa arctica.

2506. **L. atro-alba** Flot., Nyl. *Lich. Scand.* p. 232, ubi definitur; *Enum. Lich.* p. 124; thallus I =. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 59) et orientali (Japonia, *Lich. Jap.* p. 82, ubi sporæ definiuntur). — Etiam in Europa.

2507. **L. eupetræoides** Nyl. in *Flora* 1875, p. 12, et apud Lamy *Catal. Lich. Mont-Dore* p. 131, ubi definitur; thallus K sanguineo-rubet. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 15 et 59, et in posteriore loco sporæ definiuntur). — Etiam in Europa arctica.

2508. **L. præbadia** Nyl. in *Flora* 1885, p. 443, et *Lich. Fr. Behr.* p. 15, ubi definitur. = In Asia boreali (Lawrencebay).

2509. **L. atro-albicans** Nyl. in *Flora* 1875, p. 363; Leight. *Lich.-Flora* 3<sup>a</sup> edit. p. 328; Lamy *Catal. Lich. Mont-Dore Supplém.* p. 18; thallus I ⊘. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 37) et orientali (Japonia, *Lich. Jap.* p. 82, ubi sporæ definiuntur). — Etiam in Europa.

2510. **L. atro-albens** Nyl. *Lich. Fr. Behr.* p. 50, ubi definitur; thallus K + ferrugineo-cinnabarinus evadit, I ⊘. = In Asia boreali (Behring ins.).

2511. **L. atro-albescens** Nyl. in *Flora* 1884, p. 216, et *Lich. Fr. Behr.* p. 38, ubi definitur; thallus K + e flavo cinnabarine tingitur; medulla I ⊕. = In Asia boreali (Konyambay).

2512. **L. semotula** Nyl. in *Flora* 1884, p. 216, et *Lich. Fr. Behr.* p. 38, ubi definitur; thallus K —, I —. = In Asia boreali (Konyambay).

#### 45. — Stirps *Lecidæ lavatæ* Ach.

Sporæ 4-8, raro 2 in thecis, incolores seu sæpius nigrescentes, 3-5-septatæ et murali-divisæ.

2513. **L. petræa** Flot., Nyl. *Lich. Scand.* p. 233, ubi definitur, *Enum. Lich.* p. 125, nunc a cel. Nylander in duas divisa est species, nempe in *L. parapetræam* Nyl. et *L. lavatam* Ach. Hæc *L. petræa* indicatur in Asia. — In Africa boreali (Algeria, *Lich. Algér.* p. 314 et *Prodr. Lich. Gall.* p. 128). — In America tropica (Nova Granata, *Flora* 1864, p. 619, et *Prodr. Fl. N. Gran. Addit.* p. 561; Bolivia, *Lich. And. Boliv.* p. 381) et meridionali (Chili, *Addit. Fl. chil.* p. 164, ubi definitur). — In Oceania (Australia; Nova Zelandia, *Flora* 1865, p. 339, et *Lich. N. Zeland.* 1861, p. 257, ubi sporæ definiuntur). — Etiam in Europa.

— Var. **subcontigua** Nyl. *Lich. And. Boliv.* p. 381 et definitur in *Lich. Scand.* p. 234 sine nomine et ibi similis *L. contiguæ* Fr. dicitur. = In America tropica (Bolivia). — Etiam in Europa arctica.

2514. **L. parapetræa** Nyl. in *Flora* 1881, p. 188; illius thallus K (CaCl) suberythrinose tingitur et sporæ 4-8<sup>m</sup> sunt fusco-nigrescentes. Indicatur tantum pro Europa, sed forsans plura e locis sub *L. petræa* Flot. indicata ad eam referri debent.

2515. **L. atro-brunnescens** Nyl. *Lich. Jap.* p. 82, ubi definitur; thallus K —, CaCl —, I —. = In Asia orientali (Japonia).

2516. **Lecidea lavata** Ach., Nyl. in *Flora* 1873, p. 23; *L. petræa* var. *lavata* Nyl. *Lich. Scand.* p. 234, ubi definitur; illius thallus K (CaCl) —, et sporæ sunt incolores; cfr. Hue *Addend. Lichenogr. europ.* pp. 216 et 218. = In Asia orientali (Japonia, *Lich. Jap.* p. 82). Invenitur etiam in pluribus e locis sub *L. petræa* Flot. allatis et in Europa.

2517. **L. atro-cæsia** Nyl. *Lich. Fr. Behr.* pp. 39 et 51, ubi definitur; *L. parapetræa* f. *atro-cæsia* Nyl. ibid. p. 15 et in *Flora* 1876, p. 239, et in hoc etiam definitur; thallus K (CaCl) suberythrinose tingitur. = In Asia boreali (Lawrencebay etc.). — Etiam in Europa.

2518. **L. apopetræa** Nyl. in *Flora* 1885, p. 446, et *Lich. Fr. Behr.* p. 15, ubi definitur; thallus K —, CaCl —, I —; epithecium K nonnihil vel obsolete purpurascit. = In Asia boreali (Lawrencebay).

2519. **L. roridula** Nyl. *Lich. Fr. Behr.* p. 39. — *Rhizocarpon roridulum* Th. Fr. *Lichenogr. scand.* p. 629. = In Asia boreali (Konyambay). — Etiam in Europa.

2520. **L. detinens** Nyl. in *Flora* 1885, p. 441, et *Lich. Fr. Behr.* p. 59, ubi definitur; thallus K —, CaCl —, I —. = In Asia boreali (Behring insula).

2521. **L. confervoides** Nyl. *Lich. Fr. Behr.* pp. 15 et 51; *L. lavata* f. *confervoides* Nyl. ibid. p. 59. — *Rhizocarpon confervoides* DC., Nyl. *Lich. Scand.* p. 233, ubi definitur. = In Asia boreali (Lawrencebay etc.). — Etiam in Europa.

2522. **L. excentrica** Ach., Nyl. *Lich. Scand.* p. 234, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 39). — In America boreali (Port-Clarence, ibid p. 71). — Etiam in Europa.

2523. **L. postuma** Nyl. in *Flora* 1868, p. 345, ubi definitur. = In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 59, ubi sporæ definiuntur) et orientali (Japonia, *Lich. Jap.* p. 82, ubi sporæ definiuntur). — Etiam in Europa.

2524. **L. geminata** Flot., Nyl. *Prodr. Lich. Gall.* p. 129 et *Lich. Scand.* p. 234, ubi definitur; *Enum. Lich.* p. 125. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 51). — In Africa orientali (Abyssinia). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 88). — Etiam in Europa.

2525. \* **L. Montagnei** Flot., Nyl. *Prodr. Lich. Gall.* p. 129 et *Lich. N. Zeland.* 1888, p. 113, ubi definitur; *Enum. Lich.* p. 125; thallus K —. = In Oceania (Nova Zelandia). — Etiam in Europa.

B. — *Thallus citrinus.*

46. — Stirps *Lecidex geographicæ* Schær.

Sporæ 8<sup>næ</sup>, fuscae vel nigrescentes, 1-3-septatae et saepius murali-divisæ.

2526. **L. galbula** Nyl. *Lich. Scand.* p. 247, ubi definitur; *Enum. Lich.* p. 126. — *Psora galbula* (Ram.) DC. = In America boreali. — Etiam in Europa.

2527. **L. scabrosa** Ach., Nyl. *Lich. Scand.* p. 247, ubi definitur; *Enum. Lich.* p. 126. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 69 et alibi). — Etiam in Europa.

2528. **L. alpicola** Nyl. *Prodr. Lich. Gall.* p. 142 et *Lich. Scand.* p. 247, ubi definitur; *Enum. Lich.* p. 126; *L. atrovirens* var. *alpicola* Ach.; medulla leviter I cœrulescit saltem in exemplaribus e freto Behringii. = In Asia boreali (Lawrencebay etc., *Lich. Fr. Behr.* pp. 15, 38, 39 et 59 et alibi). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 382, ubi sporæ definiuntur). — Etiam in Europa.

2529. **L. leucopsepha** Nyl. in *Flora* 1884, p. 217, et *Lich. Fr. Behr.* p. 39, ubi definitur; medulla I + leviter cœrulescit. = In Asia boreali (Konyambay).

2530. **L. subalpicola** Nyl. *Lich. Fr. Behr.* p. 39, ubi definitur; thallus K ±. = In Asia boreali (Konyambay).

2531. **Lecidea geographica** Schær., Nyl. *Lich. Scand.* p. 248 et *Quelq. Lich. Algér.* p. 215, ubi definitur; *Enum. Lich.* p. 127. — *Lichen geographicus* L.; thallus K—, medulla I+. = Fere cosmopolita. In Asia boreali (Behring ins., *Lich. Fr. Behr.* p. 59) et orientali (Japonia, *Lich. Jap.* p. 82). — In Africa boreali (Algeria, *Lich. Algér.* p. 314) et orientali (ins. Borbonia, *Lich. exot.* p. 260). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 382) et australi (ins. Maclovianis, *Lich. exot.* p. 263). — In Oceania (Australia, *Flora* 1886, p. 326). — Etiam in Europa.

— Var. 1. **atrovirens** Schær., Nyl. *Lich. Scand.* p. 248, ubi definitur; *Enum. Lich.* p. 126. = Fere cosmopolita. In Asia boreali (Lauwrencebay etc., *Lich. Fr. Behr.* pp. 45, 39 et 59). — In America tropica (Bolivia, *Lich. And. Boliv.* p. 382). — Etiam in Europa.

— Var 2. **subcinerascens** Nyl. *Lich. Fr. Behr.* p. 39, ubi definitur. = In Asia boreali (Konyambay).

2532. **L. viridi-atra** Flot., Nyl. in *Flora* 1881, p. 533; *L. geographica* var. *viridiatra* Nyl. *Lich. Scand.* p. 248, ubi definitur, et *Enum. Lich.* 126; medulla I—. = In America tropica (Nova Granata, *Flora* 1864, p. 619 et *Prodr. Fl. N. Gran. Addit.* p. 561). — Etiam in Europa.

### Sectio III. — SPECIES PARASITICÆ.

#### A. — Sporæ incolores et simplices.

2533. **L. oxyspora** Nyl. *Lich. Scand.* p. 246, ubi definitur; *Enum. Lich.* p. 127. — *Abrothallus oxysporus* Tul. = In Asia minore. — In America tropica (Bolivia, *Lich. exot.* p. 225). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 107, ubi sporæ definiuntur). — Etiam in Europa.

2534. **L. subinquinans** Nyl. *Lich. Port Natal* p. 11, ubi definitur. = In Africa meridionali (Portu Natali).

2535. **L. associata** Th. Fr. *Lich. Spitzb.* p. 42; Nyl. *Lich. Fr. Behr.* p. 47, ubi definitur. = In Asia boreali (Lawrence insula).

2536. **L. superjecta** Nyl. apud Croub. *Challeng. Exped.* p. 221, ubi definitur. = In Africa australi (ins. Kerguelen).

2537. **L. pycnotheliza** Nyl. in *Flora* 1884, p. 222, et *Lich. Fr. Behr.* p. 24, ubi definitur; thallus K ± flavet, I—. = In Asia boreali (Konyambay).

#### B. — Sporæ fuscæ 1-3-septatæ.

##### 1. — Sporæ incolores, demum fuscæ 3-septatæ.

2538. **L. glaucomaria** Nyl. *Lich. Scand.* p. 245, ubi definitur; *Enum. Lich.* p. 127. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 39). — In America boreali (Groenlandia, *Flora* 1862, p. 83).

##### 2. — Sporæ 1-septatæ.

2539. **L. Parmeliarum** Sommerf., Nyl. *Lich. Port Natal* p. 12, ubi definitur. — *Abrothallus Smithii* Tul. = In Africa meridionali (Portu Natali). — Etiam in Europa.

2540. **L. episemoides** Nyl. *Lich. Angol.* p. 515, ubi definitur. = In Africa occidentali (Angola).

2541. **L. Fernandezii** Croub., Nyl. apud Croub. *Challeng. Exped.* p. 223, ubi definitur. = In Africa australi (ins. Juan Fernandez).



3. — *Sporæ 3-septatæ.*

2542. **Lecidea parasitica** Flørke, Nyl. *Prodr. Lich. Gall.* p. 144, ubi definitur; *Enum. Lich.* p. 127. = In Oceania (Nova Zelandia, *Flora* 1867, p. 440, et *Lich. N. Zeland.* 1888, p. 112). — Etiam in Europa.

2543. **L. orygmæa** Nyl. in *Flora* 1869, p. 296, et *Enum. Lich. Supplém.* p. 337. — *Endocarpon orygmæum* Del. = In America australi (freto Magellanico).

*Species incertæ sedis.*

2544. **L. livida** Nyl. *Addit. Fl. chil.* p. 185, *Enum. Lich.* p. 127. — *Biatora livida* Mont. *Chil.* p. 174. = In America australi (Chili).

2545. **L. difformis** Nyl. *Addit. Fl. chil.* p. 167, ubi definitur; *Enum. Lich.* p. 127. = In America australi (Chili).

2546. **L. humistrata** Nyl. *Lich. N. Zeland.* 1888, p. 146. — *Biatora humistrata* Flot. = In America australi (Chili).

*Lecidea radomma* Nyl. in litt. apud Knight *Descript. of some New Zealand Lichens* 1874, p. 357, est species valde dubia et delenda. Sæpe enim d<sup>us</sup> Knight descriptionibus a cel. Nylander sibi missis minus accurate usus est.

## Series VIII. — GRAPHIDODEI.

## TRIB. XXX. — GRAPHIDEI.

## Subtrib. I. — Haplographidei.

## Gen. CII. — LITHOGRAPHIA Nyl.

2547. **L. petræa** Nyl. *Prodr. Lich. Gall.* p. 147, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha petræa* de Notar. — *Sarcogyne petræa* Nyl. *Lich. Algér.* p. 337, ubi etiam definitur. = In Africa boreali (Algeria).

2548. **L. cyrtospora** Nyl. *Lich. N. Zeland.* 1888, p. 117, ubi definitur. — *Fissurina cyrtospora* Knight; thallus K nonnihil lutescit et apothecia CaCl dilute erythrinose tinguntur. = In Oceania (Nova Zelandia).

2549. **L. fumida** Nyl. in herb. Lojka, Stizenb. *Lichen. afric.* p. 194. = In Africa meridionali (promont. Bonæ Spei).

## Gen. CIII. — XYLOGRAPHIA Fr.

2550. **X. parallela** Fr., Nyl. *Lich. Scand.* p. 250, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha parallela* Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 83). — In America boreali (Alaska, *Lich. Fr. Behr.* p. 89). — Etiam in Europa.

2551. **X. opegraphella** Nyl. *Enum. Lich.* p. 128 et *Lich. Fr. Behr.* p. 89. — *Melanthea opegraphella* Nyl. *Syn. Arthon.* p. 88 in notula. — *Opegrapha stictica* Tuck. *Exsicc.* n° 97 = In America boreali (Alaska).

2552. **X. flexella** Nyl. *Lich. Scand.* p. 250, ubi definitur; *Enum. Lich.* p. 128. — *Limboria flexella* Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 83, ubi hæc species dicitur incerta pro hac regione). — Etiam in Europa.

2553. **X. cedrina** Nyl. in *Flora* 1878, p. 345, ubi definitur. = In Africa boreali (Algeria).

## Gen. CIV. — AGYRIUM Nyl.

2554. **A. rufum** Fr., Nyl. *Prodr. Lich. Gall.* p. 148 et *Lich. Scand.* p. 250, ubi definitur; *Enum. Lich.* p. 128. — *Stictis rufa* Pers. = In Asia orientali (Japonia, *Lich. Jap.* p. 83). — Etiam in Europa.

## Gen. CV. — GRAPHIS Ach.

1. — Stirps *Graphidis scriptæ* Ach.

2555. **G. Pavoniana** Fée *Essai Cryptog. écorc. exot. officin.* p. 40 et *Supplém.* p. 29, atque tab. XXXIX, fig. 19; *Gr. Pavonia* Nyl. *Enum. Lich.* p. 128. = In America tropica.

2556. **G. Ruiziana** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50, tab. I, fig. 29, ed. 2<sup>a</sup> p. 73, et *Addit.* p. 561, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha Ruiziana* Fée *Essai* p. 27, et *Supplém.* p. 21, tab. XXXIX, fig. 9; *O. globosa* Fée *Essai* p. 24, tab. V, fig. 2, et *Supplém.* p. 18, tab. XXXIX, fig. 1. — *Graphis plagiocarpa* Fée *Essai* p. 38, et *Supplém.* p. 29, tab. XXXIX, fig. 13. = In America tropica (India Occidentali; Nova Granata; Peruvia, *Lich. exot.* p. 226).

— **F. anomala** Nyl. in *Flora* 1864, p. 290, et *Prodr. Fl. N. Gran. Addit.* p. 561, ubi definitur. — *Opegrapha anomala* Leight. *Lich. Fl. Gr. Brit.* 3<sup>a</sup> ed. p. 433, ubi sub *Gr. Ruiziana* (Fée) ponitur. — *Stenographa anomala* Mudd. = In America tropica (Nova Granata). — Etiam in Europa (Hibernia).

2557. **G. scripta** Ach., Nyl. *Lich. Scand.* p. 251 et *Syn. Lich. N. Caled.* p. 69, ubi definitur; *Enum. Lich.* p. 128. = Fere cosmopolita. In Asia orientali (Japonia, *Lich. Jap.* p. 86; Japonia, China et Singapoure, Nyl. et Cromb. *Lich. East. Asia* pp. 57, 65 et 68) et meridionali (Calcutta, *Flora* 1867, p. 8). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9 et *Lich. ins. Guin.* p. 29). — In America meridionali (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50 et ed. 2<sup>a</sup> p. 73; Brasilia, *Flora* 1869, p. 123, et in his tribus locis sporæ definiuntur; Chili, *Addit. Fl. chil.* p. 185). — In Oceania (ins. Labuan, *Lich. Jap.* p. 112; Australia, *Flora* 1864, p. 470, et 1868, p. 326, in quo posteriore loco sporæ definiuntur; ins. Sandwich et Taïti, *Lich. exot.* p. 244; archipel. Mendana, *Lich. îles Marquises* p. 302; Nova Caledonia, *Flora* 1867, p. 195). — Etiam in Europa.

— **F. ochroplaca** Nyl. *Lich. Angol.* p. 519, ubi definitur. = In Africa occidentali (Angola).

— Var. 1. **recta** Nyl. *Lich. Scand.* p. 252, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha recta* Humb. = In Asia orientali (Japonia, *Lich. Jap.* p. 86; China, Nyl. et Cromb. *Lich. East. Asia* p. 65). — In America. — Etiam in Europa.

— Var. 2. **pulverulenta** Ach., Nyl. *Lich. Scand.* p. 252, ubi definitur. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 65) et meridionali (Calcutta, *Flora* 1867, p. 8). — Etiam in Europa.

— Var. 3. **serpentina** Nyl. *Lich. Scand.* p. 252, ubi definitur; *Enum. Lich.* p. 128; *Gr. serpentina* Ach.; thallus K leviter luteo-fuscescit. = In Asia orientali (Japonia, *Lich. Jap.* p. 86; Singapoure et Japonia, Nyl. et Cromb. *Lich. East. Asia* pp. 57 et 68). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 18, ubi sporæ definiuntur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50 et ed. 2<sup>a</sup> p. 74); — In Oceania (ins. Labuan, *Lich. Jap.* p. 112, Australia, *Flora* 1886, p. 326, ubi sporæ definiuntur; Polynesia, *Lich. exot.* p. 244). — Etiam in Europa.

— Var 4. **subvirginea** Nyl. in *Flora* 1867, p. 8, et *Lich. Antill.* p. 19, ubi definitur; *Gr. virginea* Mont. *Cryptog. guyan.* p. 39, Nyl. *Enum. Lich.* p. 128; thallus K leviter luteo-fuscescit. = In Asia meridionali (Calcutta). — In America tropica (Guyana, etc.).

— **F. subcæsia** Nyl. *Lich. Antill.* p. 19, ubi definitur. = In America tropica (ins. Guadalupa).

2558. **Graphis discurrens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 73, ubi definitur. = In Asia orientali (China).

2559. **G. devestiens** Nyl. apud Stizenb. *Lichen. afric.* p. 195, ubi sporæ definiuntur; thallus K —. = In Africa meridionali (Natalia).

2560. **G. Comma** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 112, *Lich. N. Caled. Exposit.* p. 50 et *Syn.* p. 70, atque *Lich. Antill.* p. 19, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha Comma* Ach. *Syn. Lich.* p. 73. Ab hac specie non differt *O. peruviana* Fée *Essai* p. 27, tab. VII, fig. 2, et *Supplém.* p. 22, tab. XXXIX *Opegr.* fig. 11, Nyl. *Lich. exot.* p. 226 in notula, ubi definitur. Ibidem animadvertitur *Opegrapham farinaceam* Fée *Essai* p. 40 et *Supplém.* p. 22 (*O. peruvianam* var. *farream* Fée *Essai Supplém.* p. 22) rite determinari non posse. = In omnibus terris tropicis. In Africa, ex Achario. — In America tropica (ins. Guadalupa; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50 et ed. 2<sup>a</sup> p. 73; Bolivia, *Lich. exot.* p. 226; Chili, *Addit. Fl. chil.* p. 185). — In Oceania (ins. Taïti, *Lich. exot.* p. 244; Nova Caledonia, *Flora* 1867, p. 195).

2561. **G. ovata** Nyl. *Lich. exot.* p. 226, ubi definitur. — *Opegrapha ovata* Fée *Essai* p. 25, tab. V, fig. 3, et *Supplém.* p. 19, tab. XXXIX *Opegr.* fig. 3. = In America tropica (Peruvia).

2562. **G. nana** Nyl. *Lich. exot.* p. 226, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha nana* Fée *Essai* p. 26, tab. XV, fig. 3 et 4, et *Supplém.* p. 21, tab. XXXIX *Opegr.* fig. 6. = In America tropica (Peruvia).

2563. **G. tenella** Ach. *Syn. Lich.* p. 81, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 73 et *Addit.* p. 561, *Syn. Lich. N. Caled.* p. 70, in *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9, et *Lich. ins. Guin.* p. 30, ubi definitur; *Gr. lineola* Ach. *Syn. Lich.* p. 80; *Gr. venosa* var. *elongata* Eschw. = In Africa occidentali (ins. San Thomé). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50; Brasilia). — In Oceania (ins. Nukahiva, *Gr. Comma* f. *lineola* Ach., Nyl. *Lich. exot.* p. 244, et *Gr. lineola* Ach., Nyl. *Lich. îles Marquis.* p. 302; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 50 et *Flora* 1867, p. 195).

2564. **G. marcescens** Fée *Essai* p. 38, tab. XV, fig. 2, et *Supplém.* p. 29, tab. XXXIX *Graph.* fig. 14, Nyl. *Enum. Lich.* p. 128. = In America meridionali.

2565. **G. Laubertiana** Fée *Essai* p. 41, tab. VII, fig. 3, tab. XXXIX, fig. 21, Nyl. *Lich. exot.* p. 226 et *Enum. Lich.* p. 128. = In America tropica (Peruvia).

2566. **G. dendrogramma** Nyl. apud Cromb. *Challeng. Expedit.* p. 226, ubi definitur. = In Oceania (Polynesia, ins. Amirauté).

2567. **G. angustata** Eschw. *Fl. brasil.* p. 73, Nyl. *Enum. Lich.* p. 128 et *Prodr. Fl. N. Gran. Addit.* p. 561. = In omnibus terris tropicis. In Africa orientali (ins. Borbonia, *Lich. exot.* p. 260). — In America tropica (Peruvia, *Lich. exot.* p. 226).

2568. **G. fulgurata** Fée *Essai* p. 35, tab. XI, fig. 4 et *Supplém.* p. 27, tab. XXXIX *Graph.* fig. 4, Nyl. *Lich. ins. Guin.* p. 49, ubi sporæ definiuntur; *Enum. Lich.* p. 128. = In America tropica (Peruvia).

2569. **G. subfulgurata** Nyl. *Lich. ins. Guin.* p. 48, ubi definitur; accedit ad priorem, sed forsans *Fissurina* haberi potest. = In America septentrionali calida (Florida).

2570. **G. Cascarillæ** Fée *Essai* p. 34 et *Supplém.* p. 27, tab. VIII, fig. 5 et 6, atque tab. XXXIX *Graph.* fig. 5, Nyl. *Enum. Lich.* p. 128. = In America tropica (Antillis).

2571. **G. anfractuosa** Eschw. *Fl. brasil.* p. 86, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 562, ubi definitur, et dicitur hæc species ad *Gr. assimilem* Nyl. pertinere; in *Syn. Lich. N. Caled.* p. 71 legitur *Gr. assimilem* Nyl. a *Gr. anfractuosa* Eschw. vix specie differre, sed in recentioribus cel. Nylander operibus utraque species seorsim exponitur. Refertur autem in



*Prodr. Fl. N. Gran. Addit.* p. 562 ad *Gr. anfractuosa* Eschw.; *Gr. sauroidea* Leight. *Lich. Amazon. et And.* p. 452, tab. LVI, fig. 7. = In America tropica (ins. Cuba, *Flora* 1866, p. 292, ubi sporæ definiuntur; Brasilia). = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 124).

2572. \* **Graphis assimilis** Nyl. *Prodr. Lich. Gall.* p. 150 et *Syn. Lich. N. Caled.* p. 70, ubi definitur; *Enum. Lich.* p. 128. — *Opegrapha rhizocola* Fée *Essai* p. 33 et *Supplém.* p. 26, Nyl. *Lich. exot.* p. 226 in notula et p. 244, et *Gr. intricata* Fée *Essai* p. 42, tab. IX, fig. 3, et *Supplém.* p. 30, tab. XXXIX Graph. fig. 23, Nyl. *Lich. ins. Andam.* p. 16. = In Africa orientali (ins. Madagascar). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51, ed. 2<sup>a</sup> p. 74 et *Addit.* p. 562) et meridionali (Chiii, *Lich. exot.* p. 263), — In Oceania (ins. Sandwich; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 50 et *Flora* 1867, p. 195, insuper forma quædam definitur in *Syn. Lich. N. Caled.* p. 71; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 124, ubi sporæ definiuntur).

— **F. brevior** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51, ed. 2<sup>a</sup> pp. 74 et 131 atque *Syn. Lich. N. Caled.* p. 71, ubi definitur. = In America tropica (Nova Granata, et insuper duæ aliæ formæ in *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 74 describuntur). — In Oceania (Nova Caledonia, *Flora* 1867, p. 195).

— Var. 1. **rectiuscula** Nyl. in litt.; *Gr. assimilis* var. *recta* Nyl. *Enum. Lich.* p. 128; illud nomen mutatum fuit utpote jam usurpatum (cfr. supra n° 2557). = In Asia (mont. Himalaya).

— Var. 2. **marginata** Nyl. *Enum. Lich.* p. 128. — *Opegrapha marginata* Mont. et v. d. Bosch *Plant. Junghuhn.* p. 470. = In Oceania (ins. Java).

2573. **G. connata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 562 et *Syn. Lich. N. Caled.* p. 71, ubi definitur. — *Oxystoma connatum* Eschw. = In America tropica (Guyana; Brasilia).

2574. **G. myriocarpa** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 562 in notula, ubi definitur. — *Opegrapha myriocarpa* Fée *Essai* p. 29, tab. VI, fig. 4, et *Supplém.* p. 23, Mont. *Cryptog. guyan.* p. 41; *Gr. conferta* Leight.; *Gr. planetocarpa* Leight. *Lich. Amazon. et And.* p. 454, tab. LVI, fig. 17. = In America tropica (Guyana et Brasilia).

2575. **G. subdisserpens** Nyl. *Lich. Andam.* p. 16, ubi definitur. = In Asia meridionali (ins. Andaman).

2576. **G. erminea** Nyl. in *Flora* 1886, p. 403. = In America tropica (ins. Cuba).

2577. **G. abducens** Nyl. in *Flora* 1886, p. 403. = In America tropica (ins. Cuba).

2578. **G. leptyna** Nyl. in *Flora* 1886, p. 403. = In America tropica (ins. Cuba).

2579. **G. subacuta** Nyl. in *Flora* 1886, p. 403. = In America tropica (ins. Cuba).

2580. **G. sophistica** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51, ed. 2<sup>a</sup> p. 74 et *Addit.* p. 562; in duobus posterioribus locis sporæ definiuntur; *Gr. anguina* Nyl. *Prodr. Lich. Gall.* p. 149, ubi definitur; *Gr. scripta* Leight. et *Gr. pulverulenta* Leight. *Brit. Graph.* pp. 27 et 31 = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 57). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 174, *Contrib. da Flora d'Afric.* p. 9 et *Lich. ins. Guin.* p. 29). — In America tropica (Nova Granata; Brasilia, *Flora* 1869, p. 123). — In Oceania (ins. Labuan, *Lich. Jap.* p. 112; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 125, ubi spore et spærmatia definiuntur). — Etiam in Europa (Gallia occidentali, *Flora* 1862, p. 464 in notula).

2581. **G. dolichographa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51 et ed. 2<sup>a</sup> p. 75, ubi definitur. = In America tropica (Nova Granata).

2582. **G. disserpens** Nyl. *Lich. Andam.* p. 16, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

2583. **G. sophisticascens** Nyl. *Lich. Jap.* p. 108, ubi definitur. = In America septentrionali (Missouri).

2584. **Graphis sophisticoides** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).
2585. **G. sophisticula** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).
2586. **G. tortuosa** Ach. *Syn. Lich.* p. 85, Nyl. *Enum. Lich.* p. 130; *Gr. pachnodes* Fée *Essai* p. 34, tab. VIII, fig. 4, et *Supplém.* p. 26, tab. XXXIX, fig. 2. « Thallus albidus, vel albido-pallescentis, obscure limitatus vel indeterminatus, tenuis, K flavens. Apothecia caesiopruinosa vel nuda, simplicia ramosave, immersa, epithecio planiusculo, intus albida; sporæ 8<sup>ne</sup> fuscae vel fusciscentes, ellipsoideæ, fere murali-divisæ, loculis seriebus 6-12, quavis serie loculis 2-3 composita, longit. 0,026-48, crass. 0,013-15 millim.; paraphyses mediocres granulis adspersæ; hypothecium infra incolor, lateribus saltem superne (perithecio) infuscatum. Iodo nec sporæ, nec gelatina hymenialis cœrulescunt. Etiam apotheciis divergenti-ramosis in herbario Fée commixta sub *Lecanactine divergente* Nyl. Accedit ad *Gr. sculpturatum* Ach.; *Gr. exilis* Fée *Essai Cryptog. écorces exot. officin.* p. 36, tab. XIII, fig. 3 et *Supplém.* p. 27 identica videtur cum *Gr. tortuosa* Ach., solum status apotheciis plus minusve decoloratis. » = In America tropica (ins. Sto Domingo, ad corticem Crotonis Cascarillæ ex Achario et e specimine Fée in herbario d<sup>ris</sup> Mougeot). — In Oceania (ins. Labuan, *Lich. Jap.* p. 112, ubi sporæ definiuntur et dicitur sporas iodo cœrulescere).
2587. **G. analoga** Nyl. *Lich. exot.* p. 244 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 74 in notula, ubi definitur; *Enum. Lich.* p. 128; thallus K —, *Lich. ins. Guin.* p. 29. = In Africa meridionali (Portu Natali, ubi viget forma peculiaris, in *Lich. Port Natal* p. 13 definita). — In Oceania (ins. Taïti).
- Var. 1. **subtectata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51, ed. 2<sup>a</sup> pp. 75 et 131, ubi definitur. = In America tropica (Nova Granata).
- Var. 2. **subradiata** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).
- Var. 3. **monophora** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 131, ubi definitur. = In America tropica (Nova Granata).
2588. **G. subserpentina** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51 et ed. 2<sup>a</sup> p. 75 in notulis, ubi definitur; *Gr. serpentinoides* Nyl. *Enum. Lich.* p. 128. = In Asia meridionali (ins. Ceylonia).
2589. **G. rudescens** Nyl. *Lich. ins. Guin.* p. 29, ubi definitur; thallus K —. = In Africa occidentali (ins. Principis).
2590. **G. Pelletierii** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 562 in notula, ubi definitur; *Lich. exot.* p. 226 et *Lich. Port Natal* p. 13. — *Opegrapha Pelletierii* Fée *Essai* p. 32, tab. XV, fig. 1, et *Supplém.* p. 25, tab. XXXIX, fig. 24. = In America tropica.
2591. **G. reptilis** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).
2592. **G. commatella** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).
2593. **G. dissidens** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).
2594. **G. subfarinacea** Nyl. *Enum. Lich.* p. 130. « Thallus albidus sat tenuis, superficie subfarinaceus; apothecia concoloria, elongata, flexuosa, conferta, marginibus crassiusculis, epithecio reniformi, tota albo-suffusa, intus nigricantia; sporæ 8<sup>ne</sup> fusco-nigræ, ellipsoideæ, transversim 4-loculares, longit. 0,016 et crass. 0,009 millim.; nec sporæ, nec gelatina hymenialis iodo tinguntur; hypothecium incolor. Inter species albo-suffusas facile distinguitur. » = In Africa meridionali (super cortices in promont. Bonæ Spei, Drège n<sup>o</sup> 9348).
2595. **G. petræa** Nyl. *Addit. Fl. chil.* p. 186; *Enum. Lich.* p. 130. — *Opegrapha petræa* Mont. *Chil.* p. 182. = In America meridionali (Chili).

2. — Stirps *Graphidis rigidæ* Nyl.

2596. **G. rigida** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52 et ed. 2<sup>a</sup> pp. 75 et 133, ubi sporæ

definiuntur; *Enum. Lich.* p. 128. — *Opegrapha rigida* Fée *Essai* p. 29 et *Supplém.* p. 23, tab. XXXV, fig. 5, et tab. XXXIX, fig. 16; *O. umbrata* Fée *Essai* p. 29, tab. VI, fig. 5, et *Supplém.* p. 24; *O. prosiliens* Mont. et v. d. Bosch *Plant. Junghuhn.* p. 468. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 226). — In Oceania (ins. Java).

— F. 1. **Condaminea** Nyl. in *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9 et *Lich. ins. Guin.* p. 29, ubi sporæ definiuntur. — *Opegrapha Condaminea* Fée *Essai* p. 30, tab. IX, fig. 1, et *Supplém.* p. 24, tab. XXXIX, fig. 19. — *Graphis scripta* var. *Condaminea* Nyl. *Lich. exot.* p. 226. = In Africa occidentali (ins. San Thomé). — In America tropica (Peruvia).

— F. 2 **subducens** Nyl. *Prodr. Fl. N. Gran.* ed 1<sup>a</sup> p. 133, ubi definitur. = In America tropica (Nova Granata).

— F. 3. **enteroleuca** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 562, ubi definitur. — *Opegrapha enteroleuca* Ach. *Syn. Lich.* p. 78, Nyl. *Enum. Lich.* p. 131. — *Graphis scaphella* var. *enteroleuca* Nyl. *Lich. exot.* p. 227, ubi definitur. = In America tropica (Nova Granata, etc.).

— F. 4. **ochroleucodes** Nyl. in *Flora* 1869, p. 124, ubi definitur. = In America tropica (Brasilia).

— F. 5. **interducens** Nyl. in *Flora* 1869, p. 124, ubi definitur. = In America tropica (Brasilia).

2597. \* **Graphis scaphella** Nyl. *Lich. exot.* p. 226, ubi definitur. — *Opegrapha scaphella* Ach. *Syn. Lich.* p. 78. Specienon distinguitur a *Gr. rigida* Nyl. = In America tropica (Peruvia).

2598. \*\* **G. Acharii** Fée *Essai* p. 39, tab. X, fig. 4, et *Supplém.* p. 29, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 133 et *Addit.* p. 562, ubi apothecia definiuntur. In *Lich. exot.* p. 226 cum *Gr. rigida* Nyl. jungitur. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 13, ubi sporæ definiuntur æque ac in duobus sequentibus locis). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 20, ubi datur ut var. *Gr. rigidæ*; Brasilia, *Flora* 1869, p. 123, ubi scribitur ut forma *Gr. rigidæ*).

2599. \*\*\* **G. hiascens** Nyl. *Lich. exot.* p. 226, ubi definitur. — *Opegrapha hiascens* Fée *Essai Supplém.* p. 25, tab. XXXVI, fig. 1; *O. endochroma* Fée *Essai* p. 31, tab. XXXIX, fig. 23. = In America tropica (Peruvia).

2600. **G. subrigida** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 58, ubi definitur. = In Asia orientali (Singapoure).

2601. **G. vernicosa** Nyl.; *Gr. rigida* f. *vernicosa* Nyl. *Lich. exot.* p. 226. — *Opegrapha vernicosa* Fée *Essai Supplém.* p. 24, tab. XXXIX, fig. 18 bis. = In America tropica (ins. Cuba, *Flora* 1866, p. 292; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52 et ed. 2<sup>a</sup> p. 76, ubi, æque ac in præcedente loco, sporæ definiuntur).

— F. **submonospora** Nyl. in litt.; *G. vernicosa* f. *monospora* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52 et ed. 2<sup>a</sup> p. 76, ubi sporæ definiuntur; nomen mutatum fuit, quia alii speciei datur, cfr. infra n<sup>o</sup> 2784. = In America tropica (Nova Granata).

— Var. 1. **hyperbolizans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52, tab. II, fig. 33, et ed. 2<sup>a</sup> p. 76, ubi definitur. = In America tropica (ins. Guadalupa, *Lich. Antill.* p. 20; Brasilia, *Flora* 1869, p. 124; Nova Granata).

— Var. 2. **albicans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52, tab. I, fig. 30, et ed. 2<sup>a</sup> p. 76, ubi sporæ definiuntur. = In America tropica (Nova Granata).

2602. \* **G. chrysocarpa** Eschw. *Fl. brasil.* p. 84, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52, tab. II, fig. 36, et ed. 2<sup>a</sup> p. 76, ubi definitur; *Enum. Lich.* p. 129. — *Opegrapha chrysocarpa* Raddi. — *Graphis ignea* Krempelh. in *Flora* 1861, p. 131. = In America tropica (Nova Granata; Brasilia).

2603. **G. exserta** Nyl. *Syn. Lich. N. Caled.* p. 73, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).



2604. **Graphis cleistomma** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 134, ubi definitur; *Gr. cleitops* Fée *Essai Supplém.* p. 32, tab. XXXIX, fig. 30 bis, Nyl. *ibid.* p. 145; in ejusdem operis ed. 1<sup>a</sup> p. 56 et in ed. 2<sup>a</sup> p. 82 in notulis dicitur nomen Feei, utpote spurie compositum, rejectum fuisse; tandem hæc *Gr. cleistomma* Nyl. simul ac *Gr. triphora* Nyl. errore comprehensæ fuerunt sub *Gr. frumentaria* Fée in Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56 et ed. 2<sup>a</sup> p. 82, quod indicatur in 2<sup>a</sup> ed. hujus operis p. 133. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 227).

2605. **G. cleistoblephara** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 134, ubi definitur. = In Asia orientali (China).

2606. **G. componens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 132, ubi definitur. = In America tropica (Nova Granata).

2607. **G. dealbata** Nyl. in *Flora* 1869, p. 123, ubi definitur; thallus K flavescit. = In America tropica (Brasilia).

2608. **G. vermiformis** Nyl. in *Flora* 1858, p. 381; *Enum. Lich.* p. 128; *Gr. illimita* var. *vermiformis* Eschw. *Fl. brasil.* p. 83. = In America tropica (Mexico).

2609. **G. conglomerata** Nyl. *Enum. Lich.* p. 128. — *Opegrapha conglomerata* Fée *Essai* p. 32, tab. XIII, fig. 1, et *Supplém.* p. 25, tab. XXXIX, fig. 26. = In America tropica (Peruvia, *Lich. exot.* p. 227).

2610. **G. anguillæformis** Tayl. in *The Lond. Journ. of Bot.* VI, p. 152; *Gr. anguilliformis* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 52, tab. I, fig. 31, ed. 2<sup>a</sup> p. 76 et *Addit.* p. 562, ubi definitur; *Enum. Lich.* p. 128. = In Africa occidentali. — In America tropica (Nova Granata).

— **F. denudata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 563, ubi definitur. = In America tropica (Nova Granata).

2611. **G. candidata** Nyl. in *Flora* 1874, p. 72, ubi definitur. = In America tropica (in ripis Amazonæ et in Andibus).

2612. **G. tumidula** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53, tab. II, fig. 32 et 33, et ed. 2<sup>a</sup> p. 77, ubi definitur; *Enum. Lich.* p. 129. — *Opegrapha tumidula* Fée *Essai* p. 32, tab. X, fig. 6, et *Supplém.* p. 25; *O. scaphella* Fée *Essai* p. 31, et *Supplém.* p. 25. — *Graphis cinerea* Fée *Essai* p. 37, tab. X, fig. 3, et *Supplém.* p. 28. = In America tropica (ins. Guadalupa, *Lich. Antill.* p. 20; Nova Granata; Peruvia, *Lich. exot.* p. 227).

2613. **G. Afzelii** Ach. *Syn. Lich.* p. 85, Nyl. *Syn. Lich. N. Caled.* p. 73, ubi definitur; *Enum. Lich.* p. 129; *Gr. nivea* Eschw. *Fl. brasil.* p. 80, cujus sporæ definiuntur in Nyl. *Prodr. Fl. N. Gran. Addit.* p. 563. = In Asia orientali (Singapoure, Nyl. et Cromb, *Lich. East. Asia* p. 57). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 563, ubi sporæ definiuntur; Brasilia; Peruvia, *Lich. exot.* p. 228). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

2614. **G. oryzoides** Leight. *Lich. Amaz. et And.* p. 454, tab. LVI, fig. 18, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 563, ubi sporæ definiuntur. = In America tropica (Peruvia).

2615. **G. subtracta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53, tab. II, fig. 34, et ed. 2<sup>a</sup> p. 77, ubi definitur. = In America tropica (Nova Granata).

2616. **G. symplecta** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 132, ubi definitur. = In America tropica (Nova Granata).

2617. **Gr. amicta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> pp. 58 et 81 in notulis, ed. 2<sup>a</sup> p. 85 atque *Addit.* p. 567 etiam in notulis, necnon *Syn. Lich. N. Caled.* p. 79, et *Lich. Jap.* p. 87, ubi definitur; thallus K e flavo ferruginascit. = In Asia orientali (ins. Bonin prope Japoniam, hodie ins. Ogassawara).

### 3. — Stirps *Graphidis striatulae* Nyl.

2618 **G. elegans** Ach. *Syn. Lich.* p. 85, Nyl. *Prodr. Lich. Gall.* p. 151, ubi definitur;

*Enum. Lich.* p. 129. = In Asia orientali (Japonia, *Lich. Jap.* p. 86) et in aliis Asiæ partibus. — In America meridionali (Chili, *Addit. Fl. chil.* p. 185). — In Oceania (ins. Java, *Flora* 1866, p. 133). — Etiam in Europa.

2619. **Graphis subelegans** Nyl. in litt. = In America septentrionali calida (Mexico, legit Eckfeldt).

2620. **G. striatula** Nyl. *Syn. Lich. N. Caled.* p. 71 et *Lich. Antill.* p. 19, ubi definitur; *Enum. Lich.* p. 129. — *Opegrapha striatula* Ach. *Syn. Lich.* p. 74; *O. rimulosa* Mont. *Cryptog. guyan.* p. 41. — *Graphis duplicata* Ach. *Syn. Lich.* 81; *Gr. rhabdotis* Fée *Essai* p. 28, *Supplém.* p. 23, tab. XXXIX Graph. fig. 14. = In omnibus terris tropicis. In Asia meridionali (ins. Andaman, *Lich. Andam.* p. 15). — In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 13) et occidentali (Guinea, ex Achario). — In America tropica (Mexico, *Flora* 1858, p. 381; ins. Guadalupa; Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53 et ed. 2<sup>a</sup> p. 77; Peruvia, *Lich. exot.* p. 227; Brasilia, *Flora* 1869, p. 123, ubi sporæ definiuntur). — In Oceania (Polynesia, *Lich. exot.* p. 244 et *Lich. îles Marquis.* p. 302; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 50 et *Flora* 1867, p. 196). — Etiam in Europa (Lusitania, *Flora* 1865, p. 605, in notula).

— **F. elongata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53 et ed. 2<sup>a</sup> p. 78. = In America tropica (Nova Granata).

— Var. 1. **subpulverulenta** Nyl. in litt.; *Gr. elegans* var. *pulverulenta* Nyl. *Flora* 1858, p. 381, ubi apothecia definiuntur; hoc nomen, utpote antea adhibitum (cfr. supra n<sup>o</sup> 2557), mutandum erat. = In America tropica (Mexico).

— Var. 2. **sublævis** Nyl. in *Flora* 1858, p. 381, ubi apothecia definiuntur. = In America tropica (Mexico).

2621. **G. substriatula** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53, ed. 2<sup>a</sup> p. 78 in notulis et *Addit.* p. 563, ubi definitur. Ibidem p. 584 et in *Flora* 1864, p. 618, nominatur *Gr. substriata*. = In America tropica (Nicaragua; Nova Granata).

— **F. inserpens** Nyl. *Syn. Lich. N. Caled.* p. 72, ubi definitur; in *Flora* 1867, p. 196 species typica indicatur. = In Oceania (Nova Caledonia).

2622. **G. perstriatula** Nyl. *Lich. Andam.* p. 17, ubi definitur. = In Asia meridionali (ins. Andaman).

2623. **G. asterizans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53 et ed. 2<sup>a</sup> p. 78 in notulis, ubi definitur. = In Asia orientali (China).

2624. **G. endoxantha** Nyl. *Lich. N. Caled. Exposit.* p. 50 et *Syn.* p. 71, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2625. **G. leptogramma** Nyl. *Syn. Lich. N. Caled.* p. 72, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2626. **G. dendroidea** Leight. *Lich. Amaz. et And.* p. 452, tab. LVI, fig. 9; Nyl. *Prodr. Fl. N. Gran. Addit.* p. 563 in notula et in *Flora* 1876, p. 575, ubi definitur (in posteriore loco scribitur errore *Gr. dendroides*). = In America tropica (Brasilia).

2627. **G. intricata** Eschw. *Fl. brasil.* p. 79, Nyl. *Syn. Lich. N. Caledon.* p. 72 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> pp. 58 et 81 in notulis, ed. 2<sup>a</sup> p. 85 in notula et *Addit.* p. 567, ubi definitur. = In America tropica (ins. Cuba, *Flora* 1866, p. 292, ubi hypothecium definitur; Nova Granata, *Flora* 1864, p. 618; Brasilia). — In Oceania (Nova Caledonia).

#### 4. — Stirps *Graphidis dendriticæ* Ach.

2628. **G. punctiformis** Nyl. *Lich. Antill.* p. 20, ubi definitur; *Enum. Lich.* p. 129. — *Lecanactis punctiformis* Eschw. *Fl. brasil.* p. 98. = In America tropica (ins. Guadalupa; Peruvia, *Lich. exot.* p. 227) et meridionali (Chili, *Addit. Fl. chil.* p. 186 in notula).

2629. **Graphis develans** Nyl. *Lich. Jap.* p. 87 in notula, ubi definitur. = In Africa meridionali (Portu Natali).

2630. **G. pezizoidea** Ach. *Syn. Lich.* p. 86. — *Lecanactis pezizoidea* Nyl. *Enum. Lich.* p. 134. = In Africa occidentali (Guinea). — In America tropica (Nova Granata, ubi viget forma peculiaris quæ definitur in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 53 et 2<sup>a</sup> p. 78).

2631. **G. diversa** Nyl. *Lich. N. Caled. Exposit.* p. 50 et *Syn.* p. 74, ubi definitur; *Enum. Lich.* p. 129. — *Arthonia obtrita* Fée *Essai* p. 51, tab. XIV, fig. 2, et *A. obtusa* Fée *Supplém.* p. 37, tab. XL Arthon. fig. 5; *A. divergens* Fée *Essai* p. 52, tab. XIV, fig. 4, et *Supplém.* p. 38, tab. XL Arthon. fig. 7, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 563 in notula. — *Lecanactis exaltata* Mont. et v. d. Bosch *Plant. Junghuhn.* p. 475. = In Asia meridionali (ins. Andaman, *Lich. Andam.* p. 46, ubi sporæ definiuntur; ins. Ceylonia). — In Africa orientali (Madagascar) et occidentali (ins. San Thomé, *Flora* 1886, p. 175, *Contrib. da Flora d'Afric.* p. 9 et *Lich. ins. Guin.* p. 39, ubi sporæ definiuntur). — In America tropica (Peruvia, *Lich. exot.* p. 227). — In Oceania (ins. Labuan, *Lich. Jap.* p. 413, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 496).

— **F. cohibens** Nyl. in *Flora* 1866, p. 433, ubi definitur. = In Oceania (ins. Java).

2632. **G. planiuscula** Nyl. *Syn. Lich. N. Caled.* p. 74, ubi definitur; *G. diversa* var. *planiuscula* Nyl. *Lich. exot.* p. 227, in *Flora* 1866, p. 433, et 1867, p. 496. — *Lecanactis planiuscula* Mont. et v. d. Bosch *Plant. Junghuhn.* p. 475. = In Oceania (ins. Java; Nova Caledonia).

2633. **G. subdiversa** Nyl. in *Flora* 1886, p. 403, = In America tropica (ins. Cuba).

2634. **G. diversula** Nyl. *Lich. Jap.* p. 113, ubi sporæ definiuntur; in *Flora* 1886, p. 403. = In America tropica (ins. Cuba). — In Oceania (ins. Labuan).

2635. **G. serpentina** Nyl. *Lich. Jap.* p. 113, ubi definitur. = In Oceania (ins. Labuan).

2636. **G. virginella** Nyl. in *Flora* 1886, p. 403. = In America tropica (ins. Cuba).

2637. **G. inusta** Ach. *Syn. Lich.* p. 85, Nyl. *Syn. Lich. N. Caled.* p. 73, ubi definitur; *Enum. Lich.* p. 129. — *Ustalia ochroleuca* Eschw. — *Graphis inconspicua* Fée saltem pr. p., *Essai* p. 39 et *Supplém.* p. 29; *Gr. planata* Ach. *Syn. Lich.* p. 8 *Gr. Smithii* Leight., Nyl. *Prodr. Lich. Gall.* p. 150, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 87; Japonia et Malacca, Nyl. et Cromb. *Lich. East. Asia* pp. 58 et 68). — In Africa occidentali (Guinea, ex Achario). — In America septentrionali (Canada, ex Achario) et tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et ed. 2<sup>a</sup> p. 78; Peruvia, *Lich. exot.* p. 227; Brasilia, *Flora* 1869, p. 423). — In Oceania (Nova Caledonia, *Flora* 1867, p. 496; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 425, ubi sporæ definiuntur). — Etiam in Europa.

— **F. medusuliformis** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et ed. 2<sup>a</sup> p. 78, ubi definitur. = In America tropica (Nova Granata).

2638. **G. lynceodes** Nyl. in *Flora* 1886, p. 484, *Contrib. da Fl. d'Afric.* p. 10 et *Lich. ins. Guin.* p. 30, ubi definitur. = In Africa occidentali (ins. San Thomé).

2639. **G. flexuosa** Nyl. *Lich. Jap.* p. 113, ubi definitur. — *Lecanactis flexuosa* Nyl. *Enum. Lich.* p. 134; thallus K subferruginascit. = In Oceania (ins. Labuan et Manilla).

2640. **G. heterocarpa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51 et ed. 2<sup>a</sup> p. 75 in notulis et *Lich. Jap.* p. 114, ubi definitur; *Enum. Lich.* p. 130. — *Opegrapha heterocarpa* Fée *Essai* p. 29, tab. V, fig. 2, et *Supplém.* p. 23, tab. XXXIX, fig. 4, ex Nyl. *Lich. exot.* p. 245. — *Graphis scripta* var. *ochroleuca* Pers.; *Gr. mariana* Fée in herb.; thallus K —, *Lich. ins. Guin.* p. 29. = In Asia orientali (Birmania et Malacca, Nyl. et Cromb. *Lich. East. Asia* pp. 49 et 57). — In America tropica (Guyana). — In Oceania (ins. Labuan; ins. Marianis).

2641. \* **G. adtenuans** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 57, ubi definitur; *Lich. Jap.* p. 114; thallus K vix reagit. = In Asia orientali (Malacca).



— Var. **detecta** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 57, ubi definitur. = In Asia orientali (China et Malacca).

2642. **Graphis heterocarpoides** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 57, ubi definitur; thallus K fere ferrugineo-cinnabarine tingitur. = In Oceania (ins. Fidji).

2643. **G. subinusta** Nyl. *Lich. Jap.* p. 114, ubi definitur. = In America tropica (ins. Cuba, *Flora* 1886, p. 103). — In Oceania (ins. Labuan; Australia, *Flora*, 1886, p. 326, ubi sporæ definiuntur).

2644. **G. mesoleucodes** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2645. **G. dendritica** Ach. *Syn. Lich.* p. 83, Nyl. *Prodr. Lich. Gall.* p. 150, ubi definitur; *Enum. Lich.* p. 129. — *Arthonia sinensigrapha* Fée *Essai* p. 50, tab. XIV, fig. 3, et *Supplém.* p. 36. = In Asia orientali (Japonia, *Lich. Jap.* p. 86.) — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54, ed. 2<sup>a</sup> p. 79 et *Addit.* p. 564, insuper in duobus prioribus locis hujus ultimi operis definiuntur duæ formæ peculiare; Peruvia, *Lich. exot.* p. 227). — Etiam in Europa.

— F. **medusula** Nyl., Nyl. *Prodr. Lich. Gall.* p. 150, ubi definitur; *Enum. Lich.* p. 129. — *Opegrapha medusula* Pers. = In America. — Etiam in Europa.

2646. **G. dendriticoides** Nyl. in *Flora* 1866, p. 103. = In America tropica (ins. Cuba).

2647. **G. lecanographa** Nyl. in *Flora* 1869, p. 123, ubi definitur. = In America tropica (Brasilia).

2648. **G. erumpens** Nyl. *Enum. Lich. Supplém.* p. 337. « Thallus epiphloëodes macula pallida indicatus; apothecia epiphloëodia erumpentia, nigra, nuda, laxiuscula, epithecio plano vel concaviusculo margine erecto attenuato, per glomerulos disposita astroideos vel ex apotheciis simpliciusculis confertis compositos, intus alba; sporæ 8<sup>ae</sup> fuscæ, oblongæ, 6-loculares, longit. 0,027-30 et crass. 0,007-9 millim.; paraphyses graciles inter glomerulos inspersæ; hypothecium etiam infra tenuiter nigricans. Apotheciis erumpentibus fissurinoideis a *Gr. dendritica* Ach. comparanda distat. » = In America septentrionali (super cortices lævigatas in Carolina, Tuckerman).

2649. **G. scalpturata** Ach. *Syn. Lich.* p. 86, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et ed. 2<sup>a</sup> p. 79, ubi sporæ definiuntur, atque *Addit.* p. 564; *Enum. Lich.* p. 129. — *Arthonia marginata* Fée *Essai* p. 51, tab. XIV, fig. 4, et *Supplém.* p. 36, tab. XL Arthon. fig. 4, et *A. casio-pruinosa* Fée *Essai Supplém.* p. 36; *A. Jobstiana* Fée *Essai Supplém.* p. 37, tab. XL Arthon. fig. 5 bis. = In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata; Bolivia, *Lich. exot.* p. 227; Brasilia, *Flora* 1869, p. 123) et meridionali (Chili, *Lecanactis scalpturata* Nyl. *Addit. Fl. chil.* p. 186 in notula).

— F. **ceracea** Nyl. *Lich. exot.* p. 227, ubi definitur; *Enum. Lich.* p. 129. — *Arthonia ceracea* Fée *Essai Supplém.* p. 42, tab. XL Arthon. fig. 19. = In America tropica (Peruvia).

— Var. 1. **dissimilis** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 564, ubi definitur. = In America tropica (Nova Granata).

— Var. 2. **plurifera** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 564, *Lich. Antill.* p. 20 et in *Flora* 1869, p. 123, ubi sporæ definiuntur. — *Leiogramma lateritium* Eschw. *Fl. brasil.* p. 97 vix differt et apud Nyl. primo loco citato in notula definitur. = In America tropica (ins. Guadalupa; Columbia; Brasilia).

— Var. 3. **supposita** Nyl. in *Flora* 1869, p. 123, ubi definitur. = In America tropica (Brasilia).

2650. **G. quadrifera** Nyl. in *Flora* 1886, p. 175, et *Contrib. da Fl. d'Afric.* p. 40 et *Lich. ins. Guin.* p. 30, ubi definitur. = In Africa occidentali (ins. San Thomé).

2651. **G. umbrina** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 564 in notula. — *Leiogramma umbrinum* Eschw. *Fl. brasil.* p. 96; *Gr. scalpturata* var. *insidiosa* Nyl. *Enum. Lich.* p. 129. = In America tropica (Brasilia).

2652. **Graphis pruinos**a Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 55, ed. 2<sup>a</sup> pp. 79 et 81, *Addit.* p. 564 in notula. — *Leiogamma pruinosum* Eschw. *Fl. brasil.* p. 100; *Lecanactis pruinos*a Mont. *Cryptog. guyan.* p. 43. Separanda est hæc species a *Gr. sculpturata* ob sporas 8<sup>nas</sup>. = In America tropica (Mexico; Guyana; Brasilia) et meridionali (Chili, *Addit. Fl. chil.* p. 186 in notula).

2653. **G. pervarians** Nyl. in *Flora* 1886, p. 175, *Contrib. da Fl. d'Afric.* p. 10 et *Lich. ins. Guin.* p. 31, ubi definitur; thallus K lutescit vel flavescit et dein ferrugineo-rubet. = In Africa occidentali (ins. San Thomé).

2654. **G. anguina** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 51 et ed. 2<sup>a</sup> p. 74 in notulis, ubi definitur; *Enum. Lich.* p. 128. — *Ustalia anguina* Mont. *Syllog.* p. 352. = In America tropica (Guyana). — Etiam in Europa.

2655. **G. streblocarpa** Nyl. in *Flora* 1866, p. 133, ubi definitur; *Gr. anguina* var. *streblocarpa* Nyl. *Enum. Lich.* p. 128. — *Opegrapha streblocarpa* Bél., Mont. et v. d. Bosch *Plant. Junghuhn.* p. 473. = In Africa orientali (ins. Borbonia). — In Oceania (ins. Java).

2656. **G. leucocheila** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et ed. 2<sup>a</sup> p. 79, ubi definitur, *Addit.* p. 564; *Enum. Lich.* p. 130. — *Arthonia leucocheila* Fée *Essai* p. 52 et *Supplém.* p. 38, tab. XXXVI, fig. 3, et tab. XL Arthon. fig. 6. — *Ustalia fasciata* Eschw. = In America tropica (Nova Granata; Brasilia; Peruvia, *Lich. exot.* p. 228).

— **F. irradiata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et 2<sup>a</sup> p. 80. = In America tropica (Nova Granata).

2657. **G. colubrosa** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 564, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

2658. **G. dimorpha** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et 2<sup>a</sup> p. 80, ubi definitur. = In America tropica (Nova Granata).

2659. **G. aggregans** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 565, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

2660. **G. serpentinella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 55 et 2<sup>a</sup> p. 80, ubi definitur. = In America tropica (Nova Granata).

2661. **G. mesographa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 55 et ed. 2<sup>a</sup> p. 80, ubi definitur. = In America tropica (Nova Granata). — In Oceania (Nova Zelandia, *Lich. Jap.* p. 87 in notula).

2662. **G. serograpt**a Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 55 et ed. 2<sup>a</sup> p. 81, ubi definitur pr. p. — *Platygramma serograpt*a Spreng. — *Lecanactis serograpt*a Mont. *Cryptog. guyan.* p. 42., Nyl. *Enum. Lich.* p. 134. = In America tropica (Guyana) et meridionali (Chili, *Addit. Fl. chil.* p. 186).

2663. **G. hypoleptella** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2664. **G. hypoleptelloides** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2665. **G. isographa** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2666. **G. subcandida** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2667. **G. sphærosporella** Nyl. in *Flora* 1869, p. 124, ubi definitur. = In America tropica (Brasilia).

2668. **G. allosporella** Nyl. in *Flora* 1869, p. 124, ubi definitur. = In America tropica (Brasilia).

2669. **G. subtorquens** Nyl. *Lich. Andam.* p. 16, ubi definitur. = In Asia meridionali (ins. Andaman).

2670. **G. patellula** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 565. — *Arthonia patellula* Fée *Essai Supplém.* p. 41, tab. XL Arthon. fig. 17. — *Opegrapha patellula* Meissner. — *Lecanactis lobata* Eschw. *Fl. brasil.* p. 100; *L. patellula* Nyl. *Enum. Lich.* p. 134. — *Graphis separanda* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 55, tab. II, fig. 40, et ed. 2<sup>a</sup> p. 81, ubi

definitur. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 227; Brasilia).

2671. **Graphis ramosa** Nyl. *Enum. Lich.* p. 130; *Gr. tortuosa* Fée *Essai* p. 34, tab. VIII, fig. 5, et *Supplém.* p. 26, non *G. tortuosa* Ach., quæ supra ponitur n° 2586. « Thallus albus vel albidus, effusus. Apothecia sæpius cæsio-pruinosa, elongata, divaricato-ramosa, immersa, epithecio planiusculo, intus alba; sporæ 8<sup>mæ</sup> fuscae vel fuscæ, oblongæ, 8-loculares, longit. 0,014-17, crass. 0,005-7 millim.; paraphyses granulationibus adpersæ; hypothecium incolor. Iodo nec gelatina hymenialis nec sporæ cærulescunt. Apothecia multoties longiora, sporæ diversæ differentiam mox exhibent inter *Graphidem pachnodem* Fée. » = In America tropica (ins. Sto Domingo, supra corticem Crotonis Cascarillæ).

2672. **G. confluens** Nyl. *Syn. Lich. N. Caled.* p. 74, ubi definitur; *Enum. Lich.* p. 129. — *Lecanactis confluens* Mont. *Syllog.* p. 352; *Arthonia confluens* Mont. = In America tropica (Guyana) et meridionali (Chili, *Addit. Fl. Chil.* p. 186 in notula). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

5. — Stirps *Graphidis frumentariæ* Fée.

2673. **G. dividens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 58, tab. II, fig. 37, ed. 2<sup>a</sup> p. 88 et *Addit.* p. 567, ubi definitur. = In America tropica (Nova Granata).

2674. **G. glyphiza** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 83 ubi definitur. = In Asia orientali (China).

2675. **G. glaucescens** Fée *Essai* p. 36, tab. VIII, fig. 3, et *Supplém.* p. 28, tab. XXXIX Graph. fig. 9, Nyl. *Syn. Lich. N. Caled.* p. 76, ubi definitur; *Enum. Lich.* p. 128. = In America tropica (ins. Guadalupa, *Lich. Antill.* p. 19, ubi sporæ definiuntur; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 50, ed. 2<sup>a</sup> p. 74 et *Addit.* p. 561, ubi sporæ adhuc definiuntur, ibid. p. 567; Brasilia, *Flora* 1869, p. 125, ubi sporæ denuo definiuntur). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

2676. **G. malacodes** Nyl. *Syn. Lich. N. Caled.* p. 77, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2677. **G. intexta** Nyl. *Lich. Port Natal* p. 13, ubi definitur. = In Africa meridionali (Portu Natali).

2678. **G. grammitis** Fée *Essai* p. 47, tab. XI, fig. 3, et *Supplém.* p. 34, tab. XXXIX Graph. fig. 36, Nyl. *Enum. Lich.* p. 129. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56, ed. 2<sup>a</sup> p. 81 et *Addit.* p. 565, ubi sporæ definiuntur; Peruvia, *Lich. exot.* p. 227).

2679. **G. grammitica** Nyl. in *Flora* 1866, p. 292, ubi definitur. = In America tropica (ins. Cuba).

2680. **G. adscribens** Nyl. *Syn. Lich. N. Caled.* p. 78 et *Lich. Jap.* p. 108, ubi definitur; in *Flora* 1867, p. 196; thallus K —. = In America septentrionali calida (Florida). — In Oceania (Nova Caledonia).

2681. **G. colliculosa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56 et ed. 2<sup>a</sup> p. 82, ubi paraphyses definiuntur; *Enum. Lich.* p. 129. — *Sclerophyton colliculosum* Mont. *Cryptog. guyan.* p. 43, tab. XVI, fig. 2. = In America tropica (Guyana).

2682. **G. leiogramma** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56, ed. 2<sup>a</sup> p. 82 et *Addit.* p. 565, ubi definitur. = In America tropica (Nova Granata).

2683. **G. æquabilis** Nyl. *Lich. Andam.* p. 16 in notula, ubi definitur. = In Africa orientali (ins. Mauriti).)

2684. **G. Balbisii** Fée *Essai* p. 48, tab. X, fig. 5, et *Supplém.* p. 34, tab. XXXIX Graph. fig. 37, Nyl. *Syn. Lich. N. Caled.* p. 77, ubi definitur pr. p.; *Enum. Lich.* p. 129. = In America tropica (Peruvia, *Lich. exot.* p. 227).



2685. **Graphis consocians** Nyl. *Syn. Lich. N. Caled.* p. 77, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2686. **G. Balbisina** Nyl. in litt. = In America septentrionali calida (Mexico, legit Eckfeldt).

2687. **G. leucocarpa** Nyl. in *Flora* 1886, p. 103 et *Enum. Lich.* p. 130. = In America tropica (ins. Cuba).

2688. **G. leucocarpodes** Nyl. *Lich. Andam.* p. 17, ubi definitur. = In Asia meridionali (ins. Andaman).

2689. **G. galactodes** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2690. **G. maligna** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2691. **G. triphoroides** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2692. **G. homogena** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2693. **G. peralbida** Nyl. in litt. = In America septentrionali calida (Mexico, legit Eckfeldt).

2694. **G. triticea** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56 et ed. 2<sup>a</sup> pp. 82 et 134, ubi definitur. = In America tropica (Nova Granata).

2695. **G. rufula** Mont. *Cryptog. guyan.* p. 39; Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56 et ed. 2<sup>a</sup> p. 82, ubi sporæ definiuntur. = In America tropica (Guyana).

2696. **G. subtriticea** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2697. **G. frumentaria** Fée *Essai* p. 45, tab. X, fig. 1, et *Supplém.* p. 33, tab. XXXIX Graph. fig. 31, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 145 in notula, ubi definitur; *Enum. Lich.* p. 129. Non Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56 et ed. 2<sup>a</sup> p. 82, ubi sub hoc nomine duæ perperam comprehensæ fuerunt species, scilicet *Gr. triphora* Nyl., quæ sequitur, et *Gr. cleistomma* Nyl., supra n° 2604. = In America tropica (Peruvia, *Lich. exot.* p. 227).

2698. **G. triphora** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 133, ubi definitur. = In America tropica (Nova Granata).

2699. **G. oryzæformis** Fée *Essai* p. 45, tab. X, fig. 2, *Supplém.* p. 32, tab. XXXIX Graph. fig. 30, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> pp. 133 et 145 in notula, ubi definitur. = In America tropica (Peruvia, *Lich. exot.* p. 227, sub *Gr. frumentaria* Fée).

2700. **G. chlorocarpa** Fée *Essai* p. 47, tab. XII, fig. 2, *Supplém.* p. 33, tab. XXXIX Graph. fig. 34, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 56, tab. II, fig. 39 bis, et ed. 2<sup>a</sup> p. 83, ubi definitur. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 227).

2701. **G. excellens** Nyl. *Lich. Jap.* p. 112, ubi definitur; *Gr. chlorocarpa* var. *excellens* Nyl. *Lich. Antill.* p. 21, ubi definitur. = In America tropica (ins. Guadalupa). — In Oceania (ins. Labuan).

2702. **G. chlorocarpoides** Nyl. in *Flora* 1866, p. 133, *Prodr. Fl. N. Gran. Addit.* p. 566 in notula et *Lich. Antill.* p. 21, ubi definitur; *Gr. chlorocarpodes* Nyl. *Lich. Jap.* p. 113, ubi sporæ definiuntur. = In Oceania (ins. Java).

2703. **G. Chrysenteron** Mont. in *Annal. Scient. nat.* 2<sup>e</sup> série Botan. tome XVIII, p. 269, *Cryptog. guyan.* p. 39 et *Sylog.* p. 345; *Gr. chrysentera* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 565 et *Syn. Lich. N. Caled.* p. 78, ubi definitur; *Enum. Lich.* p. 129; *Gr. sphafera* Nyl. in *Flora* 1864, p. 618. = In Asia orientali (Singapour, Nyl. et Cromb. *Lich. East. Asia* p. 58). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 175, *Contrib. da Fl. d'Afric.* p. 10 et *Lich. ins. Guin.* p. 28, ubi sporæ definiuntur). — In America tropica (Guyana; Nova Granata). — In Oceania (ins. Java; Nova Caledonia).

2704. **G. internigricans** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 566 in notula, ubi definitur. = In America tropica (Brasilia).

2705. **G. bilabiata** Nyl. in *Flora* 1886, p. 176, et *Lich. ins. Guin.* p. 28, ubi definitur pr.

p.; *Enum. Lich.* p. 129. = In Asia meridionali (ins. Ceylonia). — In Oceania (ins. Labuan).

2706. **Graphis albo-notata** Nyl. in *Flora* 1886, p. 175, et *Contrib. da Fl. d'Afric.* p. 41 et *Lich. ins. Guin.* p. 28, ubi definitur. = In Africa occidentali (ins. San Thomé).

2707. **G. tetraphora** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 134, ubi definitur. = In America tropica (Nova Granata).

2708. **G. virginea** Nyl. *Lich. Antill.* p. 21 et *Lich. ins. Guin.* p. 49, ubi sporæ definiuntur. — *Leiogramma virgineum* Eschw. *Fl. brasil.* p. 98; thallus K flavescit. = In America septentrionali calida (Florida) et tropica (ins. Guadalupa, ubi viget forma peculiaris in *Lich. Antill.* p. 21 definita).

Huic speciei jungenda est *Gr. cometia* Fée *Essai Supplém.* p. 35, tab. XXXV, fig. 9 et tab. XXXIX Graph. fig. 41, ex dictis in Nyl. *Lich. Antill.* p. 21. Illa *Gr. cometia* Fée indicatur in America tropica (Mexico, *Flora* 1858, p. 381; ins. Sto Domingo; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 57 et ed. 2<sup>a</sup> pp. 83 et p. 135, ubi sporæ definiuntur; Guyana, ibid. p. 135, ubi sporæ adhuc definiuntur; Brasilia, *Flora* 1869, p. 124).

— Var. **fulvescens** Nyl. *Lich. ins. Guin.* p. 49, ubi definitur; *Gr. scalpturata* var. *fulvescens* Tuck. = In America tropica (Florida).

2709. \* **G. homograpa** Nyl. *Enum. Lich.* p. 129. Specie non differt illa, nec sequens *Graphis* a *Gr. virginea* (Eschw.), Nyl. *Lich. Antill.* p. 21. = In America tropica.

2710. \*\* **G. hololeuca** Mont. *Syllog.* p. 346 et *Plant. Junghuhn.* p. 473, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 135 in notula, ubi definitur; *Enum. Lich.* p. 129 et *Lich. Antill.* p. 21. = In America meridionali (Chili). — In Oceania (ins. Java).

2711. **G. hololeucoides** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 135, ubi definitur. = In America tropica (Mexico).

2712. **G. mendax** Nyl. *Lich. exot.* p. 244, *Lich. N. Caled. Prodr.* p. 283, *Exposit.* p. 50 et *Syn.* p. 75, ubi definitur; *Enum. Lich.* p. 129; in *Flora* 1867, p. 196. = In Oceania (Polynesia; Nova Caledonia).

2713. **G. subvirginalis** Nyl. in *Bull. of the Torrey Bot. Club* 1889, p. 106, et *Lich. ins. Guin.* p. 49, ubi definitur; thallus K e flavo ferruginee rubescit. = In America septentrionali calida (Florida).

2714. **G. tumulata** Nyl. *Syn. Lich. N. Caled.* p. 79 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 135 in notula, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2715. **G. obtecta** Nyl. in *Flora* 1869, p. 72 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 83, ubi definitur; *Enum. Lich.* p. 129; thallus K e flavo ferrugineo-rubet. = In Asia meridionali (India, *Flora* 1867, p. 8, et 1869, loc. citat.).

— Var. **columbiana** Nyl. in *Flora* 1869, p. 72; *G. obtecta* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 57 et ed. 2<sup>a</sup> p. 83, ubi definitur. Quæ in *Lich. N. Caled. Prodr.* p. 283, *Exposit.* p. 50 et *Syn.* p. 76 definitur sub nomine : *Gr. obtecta* Nyl., est etiam hæc varietas e dictis in *Flora* 1869, p. 72; thallus K flavescit aut subincolor evadit. = In America tropica (Nova Granata). — In Oceania (ins. Java; Nova Caledonia, *Flora* 1867, p. 196).

2716. **G. particeps** Nyl. *Lich. Andam.* p. 18, ubi definitur; thallus K —. = In Asia meridionali (ins. Andaman). — In Oceania (Nova Caledonia).

2717. **G. subobtecta** Nyl. *Lich. Andam.* p. 18, ubi definitur; affinis est *Gr. obtectæ* var. *columbianæ* Nyl. et cum ea convenit thallo K — et apotheciis K +, id est aurantiaco-ferruginascentibus. = In Asia meridionali (ins. Andaman).

2718. **G. hologlauca** Nyl. in *Flora* 1866, p. 133, ubi definitur. = In Oceania (ins. Java).

2719. **G. scribillans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 57 et ed. 2<sup>a</sup> p. 84, ubi definitur. = In America tropica (Nova Granata).

2720. **Graphis subscribillans** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2721. **G. agminalis** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 566, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

2722. **G. pseudophlyctis** Nyl. *Enum. Lich.* p. 129 et *Prodr. Fl. N. Gran. Addit.* p. 566. « Thallus albus tenuis, fere farinaceus, determinatus, interdum nigro-limitatus. Apothecia nigricantia, paulum suffusa, rotundata vel oblonga, parva, a thallo sæpius marginata, concaviuscula, intus pallide alba; sporæ 8<sup>næ</sup> ellipsoideæ vel oblongæ, incolores, murali-divisæ, longit. 0,025-48, crass. 0,011-16 millim.; hypothecium incolor; paraphyses mediocres. Nec sporæ nec gelatina hymenialis iodo cærulescunt. Extus fere facie Arthoniæ cujusdam nec Phlyctidis. » = In America tropica (Guyana gallica, legit Melinon; in Brasilia, in qua regione sporæ 2-4<sup>næ</sup> longit. 0,038-56, crass. 0,012-18 millim.).

2723. **G. homographiza** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 57 et ed. 2<sup>a</sup> p. 84, ubi definitur. = In America tropica (Nova Granata).

2724. **G. reniformis** Fée *Essai* p. 46, tab. XI, fig. 2, et *Supplém.* p. 33, tab. XXXIX Graph. fig. 33, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 57 et ed. 2<sup>a</sup> p. 84, ubi definitur; *Enum. Lich.* p. 129. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 228; Brasilia, *Flora* 1869, p. 124).

— Var. 1. **tinctoria** Nyl. — *Dioragma tinctorium* Eschw. *Fl. brasil.* p. 68. = In America tropica (Brasilia, *Prodr. Fl. N. Gran. Addit.* p. 567 in notula).

— Var. 2. **fissurinoidea** Nyl. *Lich. exot.* p. 228, ubi definitur; *Enum. Lich.* p. 129. = In America tropica (Peruvia).

2725. **G. platyleuca** Nyl. *Syn. Lich. N. Caled.* p. 75, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2726. **G. abapha** Nyl. *Lich. ins. Guin.* p. 48, ubi definitur pr. p. = In America tropica (Nova Granata).

2727. **G. abaphoides** Nyl. in *Bull. of the Torrey Bot. Club* 1889, p. 105, et *Lich. ins. Guin.* p. 48, ubi definitur. = In America septentrionali calida (Florida).

2728. **G. Poitæi** Fée *Essai* p. 46, tab. XI, fig. 1, et *Supplém.* p. 33, tab. XXXIX Graph. fig. 32, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 566, ubi definitur; *Enum. Lich.* p. 129. = In America tropica (ins. Sto-Domingo; Nova Granata, *Flora* 1864, p. 618).

2729. **G. Poitæoides** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2730. **G. pachygrapha** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 58 et ed. 2<sup>a</sup> p. 84, ubi definitur. = In America tropica (Nova Granata).

2731. **G. leprocarpa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 58 et ed. 2<sup>a</sup> p. 85 in notulis et in *Flora* 1886, p. 327, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Louisiana) et tropica (Brasilia, *Flora* 1869, p. 124, ubi definitur). — In Oceania (Australia).

2732. **G. hypolepta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 58 et ed. 2<sup>a</sup> p. 85, ubi definitur. = In America tropica (Nova Granata).

2733. **G. exalbata** Nyl. *Lich. ins. Guin.* p. 28, ubi definitur. = In Africa occidentali (ins. Principis).

2734. **G. octophora** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2735. **G. mesospora** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2736. **G. parvifica** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2737. **G. concolor** Nyl. *Enum. Lich.* p. 129. — *Ustalia Junghuhnii* Mont. et v. d. Bosch *Plant. Junghuhn.* p. 477. = In Oceania (ins. Java).

2738. **G. ochracea** Hepp, Zollinger *Verzeichn. der im Ind. Archipel gess. Pfl.* pp. 4 et 8, Nyl. *Enum. Lich.* p. 129. = In Oceania (ins. Java).



2739. **Graphis illinita** Eschw. *Fl. brasil.* p. 82, Nyl. *Enum. Lich.* p. 129. = In America tropica (Brasilia).

2740. **G. grisea** Nyl. *Enum. Lich.* p. 129. « Thallus tenuissimus macula pallide grisea super corticem indicatus, indeterminatus; apothecia prominula, margine pallide griseo tumidulo cincta, elongato-linearia, flexuosa, varia, interdum ramosa, epithecio albo-suffuso sat angusto concavo, intus perithecio laterali et hypothecio atris, hymenio albo. Sporæ 4-8<sup>nae</sup> incolores vel leviter fuscæ, murali-divisæ, longit. 0,080-125 et crass. 0,025-26 millim.; paraphyses graciles, granuloso-inspersæ, parvæ; nec sporæ, nec gelatina hymenialis iodo tinguntur; hypothecium denigratum. Affinis *Gr. illinitæ* Eschw., sed epithecio et sporis differens. » = In Asia meridionali (ins. Ceylonia, super corticem, Gardner, ex herb. Hooker et Thompson).

6. — *Fissurina* Fée.

2741. **G. heterospora** Nyl. *Lich. exot.* p. 261, ubi definitur. = In Africa orientali (ins. Borbonia).

2742. **G. nitida** Nyl. *Enum. Lich.* p. 130. — *Diorygma nitidum* Eschw. *Fl. brasil.* p. 68. — *Fissurina nitida* Mont. *Syllog.* p. 354. = In America tropica (ins. Cuba, *Flora* 1866, p. 292; Guyana). — In Oceania (ins. Java).

2743. **G. subnitida** Nyl. *Lich. Fueg.* p. 34 et *Lich. ins. Guin.* p. 49, ubi definitur. = In America tropica (Brasilia).

2744. **G. virginalis** Nyl. *Lich. ins. Guin.* p. 51, ubi sporæ definiuntur. — *Fissurina virginalis* Tuck. = In America septentrionali calida (Florida).

2745. **G. nitidescens** Nyl. *Lich. Jap.* p. 108, ubi definitur. = In America septentrionali calida (Florida, *Lich. ins. Guin.* p. 50 et *Lich. Jap.* p. 108) et tropica (ins. Cuba, *Flora* 1886, p. 103).

2746. **G. subnitidula** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2747. **G. fuisporella** Nyl. in *Flora* 1866, p. 292, ubi definitur. = In America tropica (ins. Cuba).

2748. **G. furfuracea** Leight. *Lich. Amazon. et And.* p. 454, tab. LVI, fig. 16, Nyl. in *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9 et *Lich. ins. Guin.* p. 27, ubi definitur. = In Asia meridionali (ins. Ceylonia). — In America tropica (Brasilia).

2749. **G. timidula** Nyl. in *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9 et *Lich. ins. Guin.* p. 27, ubi definitur. = In Africa occidentali (ins. San Thomé).

2750. **G. radiata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 59 et ed. 2<sup>a</sup> p. 86, ubi definitur; *Enum. Lich.* p. 130. — *Diorygma grammitis* Eschw. *Fl. brasil.* p. 68, Nyl. *Prodr. Fl. N. Gran. Addit.* p. 567 in notula. = In America tropica (Guyana; Nova Granata). — In Oceania (ins. Java).

2751. **G. comparilis** Nyl. *Syn. Lich. N. Caled.* p. 80, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia; Nova Zelandia *Lich. N. Zeland.* 1888, p. 125, ubi sporæ definiuntur).

— F. 1. **trifissa** Nyl. *Lich. N. Zeland.* 1888, loc. citat., ubi definitur.

— F. 2. **nigririmis** Nyl. *Lich. N. Zeland.* 1888, loc. citat. = Utraque forma in Oceania (Nova Zelandia).

2752. **G. consentanea** Nyl. *Lich. N. Zeland.* 1888, p. 126, ubi definitur. = In Oceania (Nova Zelandia).

2753. **G. contexta** Nyl. *Syn. Lich. N. Caled.* p. 81, ubi definitur; *Enum. Lich.* p. 129. — *Emblemia contexta* Pers.; *Emblemia venosa* Mont. in *Annal. Scient. nat.* 3<sup>e</sup> série t. X, p. 129. = In Asia meridionali (ins. Andaman, *Lich. Andam.* p. 17). — In Africa orientali

(ins. Borbonia, *Lich. exot.* p. 261) et occidentali (ins. San Thomé, *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9 et *Lich. ins. Guin.* p. 27, ubi sporæ definiuntur). — In Oceania (ins. Marianis et Taiti, *Lich. exot.* p. 244; Nova Caledonia, *Flora* 1867, p. 196).

— Var. **reducta** Nyl. *Lich. exot.* p. 261, ubi definitur. = In Africa orientali (ins. Borbonia).

2754. \* **Graphis venosa** Nyl. *Lich. exot.* p. 244, ubi definitur; *Enum. Lich.* p. 129. — *Emblema venosa* Pers. = In Oceania (Polynesia).

2755. **G. Dumastii** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 59 et ed. 2<sup>a</sup> p. 86 et *Syn. Lich. N. Caled.* p. 80, ubi definitur; *Enum. Lich.* p. 130. — *Fissurina Dumastii* Fée *Essai* p. 59, tab. XVI, fig. 4, et *Supplém.* p. 46. = In America tropica (Peruvia, *Lich. exot.* p. 228).

2756. \* **G. obtusior** Nyl. *Lich. exot.* p. 245, ubi definitur. = In Oceania (ins. Taiti).

2757. **G. tachygrapha** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 59 et ed. 2<sup>a</sup> p. 86, ubi definitur. = In America tropica (Nova Granata). — In Oceania (ins. Labuan, legit Almquist).

2758. **G. lactinella** Nyl. *Lich. Jap.* p. 113, ubi definitur; thallus K subferruginascit. = In Oceania (ins. Labuan).

2759. **G. subparilis** Nyl. *Lich. ins. Guin.* p. 48, ubi definitur. = In America septentrionali calida (Florida).

2760. **G. subcontexta** Nyl. *Syn. Lich. N. Caled.* p. 79, ubi definitur; *Gr. Dumastii* var. *subcontexta* Nyl. *Exposit. Lich. N. Caled.* p. 50, ubi etiam definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 125, ubi etiam definitur).

2761. **G. globulifica** Nyl. *Syn. Lich. N. Caled.* p. 78, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2762. **G. insculpta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 59 et ed. 2<sup>a</sup> p. 86, ubi sporæ definiuntur. — *Diorygma insculptum* Eschw.; in *Lich. exot.* p. 228 cum *Gr. Dumastii* (Fée) perperam jungitur. = In America tropica (Brasilia).

2763. **G. Babingtonii** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 87, ubi sporæ definiuntur. — *Fissurina Babingtonii* Mont. et *F. insculpta* Mont. *Syllog.* p. 354. = In America tropica (Guyana).

2764. **G. instabilis** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 86, ubi definitur. = In Asia orientali (ins. Bonin, prope Japoniam). — In America tropica (ins. Cuba, *Flora* 1869, p. 124).

2765. **G. incondita** Nyl. *Lich. Andam.* p. 17, ubi definitur. = In Asia meridionali (ins. Andaman).

2766. **G. incrustans** Nyl. *Enum. Lich.* p. 130; *Lich. ins. Guin.* p. 49. — *Fissurina incrustans* Fée *Essai* p. 60, tab. XIII, fig. 2, et *Supplém.* p. 46, tab. XL Fissur. fig. 2. = In America tropica.

2767. **G. subnitens** Nyl. in *Flora* 1886, p. 103 et *Lich. ins. Guin.* p. 49. = In America tropica (ins. Cuba).

2768. **G. interversa** Nyl. *Lich. ins. Guin.* p. 49, ubi definitur. = In America septentrionali calida (Florida).

2769. **G. lactea** Nyl. *Enum. Lich.* p. 130. — *Fissurina lactea* Fée *Essai* p. 61, tab. XVI, fig. 6, et *Supplém.* p. 47, tab. XL Fissur. fig. 4. = In America tropica.

2770. **G. leuconephela** Nyl. in *Flora* 1869, p. 73, ubi definitur. = In Asia meridionali (Bengalia).

2771. **G. egena** Nyl. *Lich. exot.* p. 228, ubi definitur; *Enum. Lich.* p. 130. = In America tropica (Peruvia). — In Oceania (ins. Labuan, legit Almquist, Nyl. in litt.).

— **F. intercludens** Nyl. *Syn. Lich. N. Caled.* p. 82, ubi definitur; *Gr. egena* Nyl.

*Exposit. Lich. N. Caled.* p. 50, ubi pr. p. definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2772. **Graphis cæσιο-hians** Nyl. in litt. = In Oceania (ins. Labuan, legit Almquist supra cortices).

2773. **G. affinissima** Nyl. *Syn. Lich. N. Caled.* p. 81, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2774. **G. albo-rosella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 59 et ed. 2<sup>a</sup> p. 87, ubi definitur. = In America tropica (Nova Granata).

2775. **G. circumradians** Nyl. *Syn. Lich. N. Caled.* p. 80, ubi definitur; in *Flora* 1867, p. 196. = In Asia meridionali (ins. Andaman, *Lich. Andam.* p. 18). — In Oceania (Nova Caledonia).

2776. **G. dimorphiza** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2777. **G. mesographiza** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2778. **G. develatula** Nyl. in *Flora* 1886, p. 327, ubi definitur. = In Oceania (Australia).

2779. **G. hypographa** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2780. **G. adscripturiens** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2781. **G. spumescens** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2782. **G. porrigens** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2783. **G. glaucoderma** Nyl. in *Flora* 1886, p. 103. = In America tropica (ins. Cuba).

2784. **G. monospora** Nyl. *Lich. N. Zeland.* 1888, p. 126, ubi definitur. = In Oceania (Nova Zelandia).

2785. **G. subnivescens** Nyl. in *Flora* 1886, p. 174, *Contrib. da Fl. d'Afric.* p. 9, et *Lich. ins. Guin.* p. 27, ubi definitur. = In Africa occidentali (ins. San Thomé).

2786. **G. irregularis** Nyl. *Lich. exot.* p. 228, ubi definitur et ad novum genus verisimiliter pertinere dicitur; *Enum. Lich.* p. 130. — *Fissurina irregularis* Fée *Essai Supplém.* p. 46, tab. XL *Fissur.* fig. 3. = In America tropica (Peruvia).

7. — *Medusula* Eschw., Nyl. *Prodr. Fl. N. Gran.*

ed. 1<sup>a</sup> p. 60 et ed. 2<sup>a</sup> p. 87 in notulis.

2787. **G. dimorphodes** Nyl. apud Leight. *Lich. of Ceylon* p. 176, tab. XXXVI, fig. 15, ubi definitur. = In Asia meridionali (ins. Ceylonia).

2788. **G. endocarpa** Fée *Essai* p. 49, tab. XIII, fig. 5, et *Supplém.* p. 34, tab. XXXIX *Graph.* fig. 40, Nyl. *Enum. Lich.* p. 130. = In America tropica.

2789. **G. tricola** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 567 et *Lich. Jap.* p. 87, ubi definitur; *Enum. Lich.* p. 130. — *Glyphis tricola* Ach. *Syn. Lich.* p. 107. — *Sarcographa vestita* Fée *Essai Supplém.* p. 44, tab. XC *Sarcogr.* fig. 4; thallus præsertim in stromate K ferruginascit. = In Asia orientali (Japonia; Singapoure, Nyl. et Cromb. *Lich. East. Asia* p. 58). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 11, ubi sporæ definiuntur, et *Lich. ins. Guin.* p. 32). — In America tropica (Mexico, *Flora* 1858, p. 381; ins. Cuba, Wright *Cub.* n° 49; Nova Granata; Peruvia; *Lich. exot.* p. 228; Brasilia, *Flora* 1869, p. 125, *Glyphis tricola* Ach.). — In Oceania (ins. Labuan, *Lich. Jap.* p. 114).

— Var. 1. **olivacea** Nyl. *Enum. Lich.* p. 130. — *Medusula olivacea* Mont. *Cryptog. guyan.* p. 62. = In America tropica (Guyana).

— Var. 2. **Punctum** (Fée) Nyl. *Enum. Lich.* p. 130. = In America tropica.

2790. **G. disjectans** Nyl. *Lich. Jap.* p. 87 in notula, ubi definitur; thallus K —. = In Africa meridionali (Portu Natali).



2791. **Graphis decolorascens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 567, ubi definitur. = In America tropica (Nova Granata).
2792. **G. intricans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 59 et ed. 2<sup>a</sup> p. 87, ubi definitur. = In America tropica (Nova Granata).
2793. **G. Leprieurii** Nyl. *Enum. Lich.* p. 130. — *Opegrapha Leprieurii* Mont. *Sylog.* p. 348. = In America tropica (Guyana gallica).
2794. **G. gracilis** Nyl. *Enum. Lich.* p. 130. — *Ustalia gracilis* Eschw. = In America tropica (Brasilia).
2795. **G. cinnabarina** Fée *Essai* p. 44, tab. XIII, fig. 4, et *Supplém.* p. 31, Nyl. *Enum. Lich.* p. 130. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 60 et ed. 2<sup>a</sup> p. 88, ubi sporæ definiuntur; Peruvia, *Lich. exot.* p. 228).
2796. **G. cinnabarodes** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2797. **G. hæmatites** Fée *Essai* p. 43, tab. XII, fig. 1, et *Supplém.* p. 32, tab. XXXIX Graph. fig. 29, Nyl. *Enum. Lich.* p. 130. — *Ustalia flammula* Eschw. *Fl. brasil.* p. 107 et *U. speciosa* Eschw. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 60, ed. 2<sup>a</sup> p. 88 et *Addit.* p. 568, ubi sporæ definiuntur; Brasilia; Peruvia, *Lich. exot.* p. 228).
2798. **G. deplanata** Nyl. *Lich. exot.* p. 245, ubi definitur; *Lich. îles Marquis.* p. 302; *Enum. Lich.* p. 130. = In Oceania (ins. Nukahiva).
2799. **G. hæmographa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 60, tab. II, fig. 39, et ed. 2<sup>a</sup> p. 88, ubi definitur. = In America tropica (Nova Granata).
2800. **G. cabbalistica** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 60, tab. II, fig. 38, et ed. 2<sup>a</sup> p. 89, ubi definitur. = In America tropica (Nova Granata).

Gen. CVI. — ANOMOMORPHA Nyl. *Lich. ins. Guin.* p. 50.

2801. **A. turbulenta** Nyl. — *Graphis turbulenta* Nyl. *Lich. ins. Guin.* p. 50, ubi definitur; thallus K flavet. = In America septentrionali calida (Florida).

Gen. CVII. — LECANACTIS Eschw. pr. p., Nyl. *Addit. Fl. chil.* p. 186.

Plures e speciebus quæ hoc genus olim ornabant, in stirpe *Graphidis dendriticæ* Ach. nunc locum obtinent, ut videre est in recentiore d<sup>nis</sup> Nylander opere cui titulus : *Lichenes Japoniæ*. Jam monuerat ille auctor in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 54 et ed. 2<sup>a</sup> p. 78 hoc genus forte tollendum esse, quia paraphyses plus minusve distinctæ et inspersæ in speciebus eo relatis haud raro observantur.

2802. **L. Montagnei** Nyl. in *Flora* 1886, p. 176, et *Contrib. da Fl. d'Afric.* p. 11, ubi sporæ definiuntur; *Enum. Lich.* p. 134. — *Graphis Montagnei* van den Bosch, Mont. *Sylog.* p. 346, Nyl. in *Flora* 1866, p. 133. = In Oceania (ins. Java).

— **F. deducens** Nyl. *Lich. ins. Guin.* p. 32, ubi definitur; *L. Montagnei* f. *deducta* Nyl. in *Flora* 1886, p. 176, et *Contrib. da Fl. d'Afric.* p. 11, ubi definitur. = In Africa occidentali (ins. San Thomé).

2803. **L. divergens** Nyl. *Lich. exot.* p. 331, ubi apothecia definiuntur; *Enum. Lich.* p. 134. — *Arthonia divergens* Fée *Essai* p. 52, tab. XIV, fig. 1, et *Supplém.* p. 38, tab. XL Arthon. fig. 7. = In America tropica (Peruvia).

— Var. **sulphurea** Nyl. *Lich. exot.* p. 231, ubi definitur. — *Arthonia sulphurea* Fée *Essai* p. 50 et *Supplém.* p. 36, tab. XL Arthon. fig. 3. = In America tropica (Peruvia).

2804. **L. varians** Nyl. *Lich. exot.* p. 246, ubi definitur; *Lich. îles Marquis.* p. 302; *Enum. Lich.* p. 134. = In Oceania (ins. Nukahiva).

2805. **Lecanactis cymbegrapha** Nyl. *Lich. ins. Guin.* p. 31. — *Graphis cymbegrapha* Leighton *Lich. Amaz. et Andin.* p. 452, tab. LVI, fig. 41. = In America tropica (regione Amazonica et Andina).

2806. **L. leucophora** Nyl. in *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 41 et *Lich. ins. Guin.* p. 31, ubi definitur. = In Africa occidentali (ins. San Thomé).

2807. **L. obfirmata** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 65, ubi definitur. = In Asia orientali (China).

Gen. CVIII. — THELOGRAPHIS Nyl.

2808. **T. polymorpha** Nyl. *Enum. Lich.* p. 130. — *Graphis polymorpha* Fée *Essai Supplém.* p. 156. = In America tropica.

Gen. CIX. — HELMINTHOCARPON Fée.

2809. **H. Le Prevostii** Fée *Essai Supplém.* p. 156, tab. XXV, fig. 41, Nyl. *Enum. Lich.* p. 130; thallus CaCl erythrinose rubet, *Lich. Port Natal* p. 7. = In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Flora* 1864, p. 618, et *Prodr. Fl. N. Gran. Addit.* p. 568). — In Oceania (ins. Java).

Gen. CX. — LEUCOGRAPHIA Nyl.

2810. **L. astræa** Nyl. *Enum. Lich. Supplém.* p. 337. — *Graphis astræa* Tuck. = In America septentrionali (Carolina).

Gen. CXI. — OPEGRAPHA Ach.

1. — Stirps *Opegraphæ lynceæ* Borr.

2811. **O. Martii** Nyl. in *Flora* 1867, p. 5, ubi definitur. — *Lecanactis Martii* Krempelh. — Vera spermatorum mensura legitur in *Syn. Lich. N. Caled.* p. 62 in notula. In *Flora* 1867, p. 197 in notula male adhuc datur hæc mensura; ponitur enim longitudo 0,001; legendum est 0,010 millim. = In Asia meridionali (Calcutta).

2. — Stirps *Opegraphæ grumulosæ* Duf.

2812. **O. grumulosa** Duf., Nyl. *Prodr. Lich. Gall.* p. 152 et *Lich. N. Zeland.* 1888, p. 148, ubi definitur; *Enum. Lich.* p. 130; thallus CaCl —. = In Africa boreali (Algeria, *Lich. Algér.* p. 315). — Etiam in Europa.

2813. **O. arthonioidea** Nyl. *Lich. N. Zeland.* 1888, p. 148 in notula, ubi definitur; *O. grumulosa* var. *arthonioidea* Nyl. *Prodr. Lich. Gall.* p. 152, ubi definitur; *Enum. Lich.* p. 130; thallus CaCl —. = In Africa boreali (Algeria).

2814. **O. platycarpa** Nyl. *Lich. N. Zeland.* 1888, pp. 147 et 148 in notula, ubi definitur; *O. grumulosa* var. *dirinaria* et var. *platycarpa* in *Lich. algeriens.* p. 318, *Lich. Algér.* p. 334 et in *Prodr. Lich. Gall.* p. 152 definitæ et in *Enum. Lich.* p. 130 indicatæ; thallus CaCl +. = In Africa boreali (Algeria).

3. — Stirps *Opegraphæ varixæ* Pers.

2815. **O. varia** Pers., Nyl. *Lich. Scand.* p. 252, ubi definitur; *Enum. Lich.* p. 131. =

In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 154). — In America boreali. — Etiam in Europa.

Hæc species nunc a cel. Nylander in plures deviditur species, scilicet in *O. notham*, in *O. pulicarem*, in *O. diaphoram*, etc.

2816. **Opegrapha subelevata** Nyl. *Lich. N. Zeland.* 1888, p. 148 in notula, ubi definitur; *O. varia* var. *elevata* Nyl. *Lich. Algér.* p. 334 et *Prodr. Lich. Gall.* p. 152, ubi definitur; thallus CaCl —. = In Africa boreali (Algeria).

2817. **O. notha** Ach. *Syn. Lich.* p. 76, Nyl. apud Hue *Addend. Lichenogr. europ.* p. 247, ubi spermatia definiuntur; *O. varia* f. *notha* Nyl. *Lich. Scand.* p. 253, ubi definitur. = In Africa boreali. — In America boreali et tropica. — Etiam in Europa.

2818. **O. subnothella** Nyl. in *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 42 et *Lich. ins. Guin.* p. 32, ubi definitur. = In Africa occidentali (ins. San Thomé).

2819. **O. pulicaris** Nyl. apud Hue *Addend. Lichenogr. europ.* p. 247; *O. varia* var. *pulicaris* Nyl. *Lich. Scand.* p. 253, ubi definitur. — *Lichen pulicaris* Hoffm. = In Asia meridionali (Calcutta, *Flora* 1867, p. 5). — In Africa boreali (Algeria, *Lich. Algér.* p. 315). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 115, ubi sporæ definiuntur). — Etiam in Europa.

2820. **O. diaphora** Ach. *Method. Lich.* p. 49, Nyl. apud Hue *Addend. Lichenogr. europ.* p. 247; *O. varia* var. *diaphora* Nyl. *Lich. Scand.* p. 253, ubi definitur. — In Africa boreali (Algeria, *Lich. Algér.* p. 315). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61 et 2<sup>a</sup> p. 90, ubi sporæ definiuntur). — Etiam in Europa.

— **F. signata** Ach., Nyl. *Lich. Scand.* et apud Hue locis citat., ubi definitur; *O. varia* f. *signata* Nyl. *Lich. exot.* p. 229. = In America tropica (Peruvia). — Etiam in Europa.

2821. **O. diaphoriza** Nyl. *Lich. N. Zeland.* 1888, p. 114, ubi definitur; in *Flora* 1886, p. 104. = In America tropica (ins. Cuba). — In Oceania (Nova Zelandia).

2822. **O. subdiaphora** Nyl. *Lich. Jap.* p. 83, ubi definitur; thallus K —, CaCl —. = In Asia orientali (Japonia).

2823. **O. primana** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 90, ubi definitur. = In America tropica (Nicaragua).

2824. **O. diagraphoides** Nyl. *Lich. Port Natal* p. 12, ubi definitur. = In Africa meridionali (Portu Natali).

2825. **O. Turneri** Leight. *Lich.-Fl. Gr. Brit.* 3<sup>a</sup> ed. p. 400, Nyl. in *Flora* 1886, p. 326, ubi sporæ definiuntur; *O. betulina* Sm., Nyl. apud Hue *Addend. Lichenogr. europ.* p. 248. = In Oceania (Australia). — Etiam in Europa.

2826. **O. agelæoides** Nyl. *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 114 et fig. 9, ubi definitur; *O. angelæoides* Nyl. in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

2827. **O. spodopolia** Nyl. in *Flora* 1865, p. 339, atque *Lich. N. Zeland.* 1861, p. 257, et 1888, p. 115, ubi definitur. In primo loco citato, errore scribitur *O. spadopolia* Nyl. = In Oceania (Nova Zelandia).

2828. **O. atro-rimalis** Nyl. in *Flora* 1864, p. 388, ubi definitur. = In America septentrionali calida (California). — Etiam in Europa (Gallia).

2829. **O. fusco-maculans** Nyl. *Lich. Antill.* p. 16, ubi definitur. = In America tropica (ins. Guadalupa).

2830. **O. microsema** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61 et ed. 2<sup>a</sup> p. 90, ubi definitur. = In America tropica (Nova Granata).

2831. **O. chionographa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61, tab. II, fig. 42, et ed. 2<sup>a</sup> p. 91, ubi definitur. = In America tropica (Nova Granata).

2832. **O. medusuliza** Nyl. *Lich. Fueg.* p. 17, ubi definitur. = In America australi (Fuegia).



2833. **Opegrapha quaternella** Nyl. in *Flora* 1885, p. 449, ubi definitur. = In America septentrionali (New Bedford).

4. — Stirps *Opegraphæ atræ* Pers.

2834. **O. atra** Pers., Nyl. *Lich. Scand.* p. 254 et apud Hue *Addend. Lichenogr. europ.* p. 250, ubi definitur; *Enum. Lich.* p. 130; *O. Melambo* Fée *Essai Supplém.* p. 20, tab. XXXIX fig. 4 bis. = In Asia. — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 176, et *Contrib. da Flora d'Afric.* p. 12 et *Lich. ins Guin.* p. 32; ins. Madera, *Flora* 1867, p. 234). — In America tropica (Columbia, *Lich. exot.* p. 229), meridionali (Chili, *Addit. Fl. chil.* p. 186) et australi (freto Magellanico, *Lich. N. Zeland.* 1888, p. 147). — In Oceania (ins. Sandwich, *Lich. exot.* p. 245). — Etiam in Europa.

2835. **O. simplicior** Nyl. *Syn. Lich. N. Caled.* p. 55, ubi definitur; in *Flora* 1867, p. 195; *O. atra* f. *simplicior* Nyl. *Exposit. Lich. N. Caled.* p. 49, ubi definitur. = In Oceania (Nova Caledonia).

2836. **O. agelæa** Fée *Essai Supplém.* p. 23, tab. XXXIX Opegr. fig. 14 bis, Nyl. *Syn. Lich. N. Caled.* p. 56, ubi definitur; *Enum. Lich.* p. 131; *O. prosodea* Mont. *Cryptog. guyan.* p. 40; *O. macularis* var. *picta* Eschw. *Fl. brasil.* p. 85. = In Africa meridionali (promont. Bonæ Spei). — In America tropica (Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61 et ed. 2<sup>a</sup> p. 91, ubi sporæ definiuntur et *Addit.* p. 568; Peruvia).

2837. **O. subcentrifuga** Nyl. *Lich. exot.* p. 245, ubi definitur; *Enum. Lich.* p. 131. = In Oceania (ins. Sandwich).

2838. **O. microphlebia** Nyl. *Lich. Antill.* p. 16, ubi definitur. = In America tropica (ins. Guadalupa).

2839. **O. microphleboides** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2840. **O. mesophlebia** Nyl. in litt. = In America septentrionali calida (Mexico, legit Eckfeldt).

2841. **O. lithyrga** Ach. *Syn. Lich.* p. 72, Nyl. *Lich. Scand.* p. 255, ubi definitur; *O. atra* var. *lithyrga* Nyl. *Lich. Algér.* p. 315 et *Prodr. Lich. Gall.* p. 158. = In Africa boreali (Algeria). — Etiam in Europa.

2842. **O. subdifficilis** Nyl. *Lich. N. Zeland.* 1888, p. 115 et fig. 10, ubi definitur. = In Oceania (Nova Zelandia).

2843. **O. consimillima** Nyl. *Lich. ins. Sti Pauli* p. 7 et in *Flora* 1886, p. 321, ubi definitur. = In Africa orientali antaretica (ins. Sti Pauli).

2844. **O. difficilior** Nyl. apud Cromb. *Ins. Rodrig.* p. 443, ubi definitur. = In Africa orientali (ins. Rodriguez).

2845. **O. leptographa** Nyl. *Lich. ins. Guin.* p. 32, ubi definitur. = In Africa occidentali (ins. Principis).

2846. **O. chlorographiza** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2847. **O. fusco-spureans** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2848. **O. interductula** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2849. **O. oblonga** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba)

2850. **O. parvula** Nyl. apud Cromb. *Lich. capens.* p. 179, ubi definitur. = In Africa meridionali (promont. Bonæ Spei).

5. — Stirps *Opegraphæ vulgatæ* Ach.

2851. **O. vulgata** Ach. *Method. Lich.* p. 20, Nyl. *Lich. Scand.* p. 255, ubi definitur;

*Enum. Lich.* p. 131. = In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 158). — In America tropica (Mexico, *Flora* 1858, p. 381). — Etiam in Europa.

2852. **Opegrapha inæqualis** Fée *Essai* p. 26, tab. VI, fig. 1, et *Supplém.* p. 21, tab. XXXIX Opegr. fig. 5, Nyl. in *Flora* 1867, p. 6, ubi definitur; in *Lich. exot.* p. 229, pro Peruvia cum *O. vulgata* Ach. jungitur; in *Lich. Jap.* p. 83 dicitur facie fere eadem esse ac *O. inæquans* Nyl. infra n° 2865, sed typus sine sporis, ideoque hæc species est dubia. = In Asia meridionali (Calcutta). — In America tropica (Peruvia).

2853. **O. assidens** Nyl. *Lich. Jap.* p. 112, ubi definitur. = In Oceania (ins. Labuan).

2854. **O. subvulgata** Nyl. in *Flora* 1869, p. 71, ubi definitur. Huc pertinet *O. vulgata* Nyl. *Syn. Lich. N. Caled.* p. 56, quæ ibi definitur; in *Flora* 1867, p. 196. = In Asia meridionali (Bengalia). — In America tropica (Mexico). — In Oceania (Nova Caledonia).

— **F. absita** Nyl. apud Cromb. *Challeng. Expedit.* p. 226, ubi definitur. = In Oceania (Polynesia, ins. Amirauté).

2855. **O. onchospora** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61, tab. II, fig. 43, et ed. 2<sup>a</sup> p. 91, ubi definitur; in *Addit.* p. 568 vocatur errore *O. onchophora* Nyl. = In America tropica (Nova Granata).

2856. **O. leucophila** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 568, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

2857. \***O. graellior** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 569, ubi definitur. = In America tropica (Nova Granata).

2858. **O. circumducta** Nyl. in *Flora* 1867, p. 374, et 1868, p. 235, ubi definitur. = In Africa occidentali (ins. Madera).

2859. **O. longula** Nyl. *Lich. Andam.* p. 12, ubi definitur. = In Asia meridionali (ins. Andaman).

2860. **O. interalbata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 569 in notula et *Lich. Port Natal* p. 12, ubi definitur. = In Africa meridionali (Portu Natali). — In America tropica (Antillis).

2861. **O. adtinens** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 58, ubi definitur. = In Asia orientali (Malacca).

2862. **O. chlorographa** Nyl. in *Flora* 1866, p. 293, ubi definitur. = In America tropica (ins. Cuba).

2863. **O. subrimulosa** Nyl. in *Flora* 1866, p. 293, ubi definitur. = In America tropica (ins. Cuba).

2864. **O. graphidiza** Nyl. *Lich. Angol.* p. 517, ubi definitur. = In Africa occidentali (Angola).

2865. **O. inæquans** Nyl. *Lich. Jap.* p. 83, ubi definitur. = In Asia orientali (Japonia).

2866. **O. Loandensis** Nyl. *Lich. Angol.* p. 517, ubi definitur. = In Africa occidentali (Angola).

2867. **O. phyllobia** Nyl. in *Flora* 1874, p. 73, ubi definitur. = In Asia meridionali (Singapour, legit Almquist super folia, Nyl. in litt.). — In America tropica (in ripis Amazonæ et in Andibus).

2868. **O. prosodea** Ach. *Syn. Lich.* p. 74, Nyl. *Lich. exot.* p. 229 in notula, *Prodr. Fl. N. Gran. Addit.* p. 568 et *Lich. Andam.* p. 12, ubi sporæ definiuntur; *Enum. Lich.* p. 131. = In Asia meridionali (ins. Andaman). — In Africa occidentali (Guinea, ex Achario). — In America tropica (India Occidentali; Nova Granata). — In Oceania (ins. Labuan, legit Almquist, Nyl. in litt.). — Etiam in Europa (Gallia, *Flora* 1860, p. 546, et 1862, p. 464 in notula; Belgia).

2869. **O. Bonplandiæ** Nyl. *Syn. Lich. N. Caled.* p. 56 et in *Flora* 1869, p. 71, ubi definitur; *O. Bonplandi* Fée *Essai* p. 25, tab. V, fig. 4, et *Supplém.* p. 19. = In Asia meri-

dionali (Bengalia). — In America tropica (ins. Cuba, ubi vigent species typica et formæ in *Flora* 1866, p. 293, et 1869, p. 123 definitæ; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61, ed. 2<sup>a</sup> p. 90 et *Addit.* p. 568, ubi sporæ definiuntur; Brasilia, *Flora* 1869, p. 123, ubi typus et forma quædam definiuntur; Peruvia, *Lich. exot.* p. 229). — In Oceania (Nova Caledonia, *Exposit. Lich. N. Caled.* p. 50 et *Flora* 1867, p. 195).

— *F. compressa* Nyl. *Prodr. Fl. N. Gran. Addit.* p. 568, ubi definitur. — *Graphis compressa* Eschw. *Fl. brasil.* p. 76. = In America tropica (Brasilia).

2870. *Opegrapha abbreviata* Fée *Essai* p. 25 et *Supplém.* p. 18, Nyl. *Lich. exot.* p. 229 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 61 et ed. 2<sup>a</sup> p. 90, ubi definitur, *Addit.* p. 568. = In America tropica (Antillis; Nova Granata; Peruvia).

2871. *O. diagrapha* Nyl. *Syn. Lich. N. Caled.* p. 57, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2872. *O. herpetica* Ach. *Syn. Lich.* p. 72, Nyl. *Lich. Scand.* p. 255 et apud Hue *Addend. Lichenogr. europ.* p. 252, ubi definitur; *Enum. Lich.* p. 131. = In America boreali. — Etiam in Europa.

— Var. *fuscata* Schær., Nyl. in *Flora* 1869. p. 71, ubi sporæ definiuntur; *Enum. Lich.* p. 131. = In Asia meridionali (Bengalia).

2873. *O. leptotera* Nyl. *Syn. Lich. N. Caled.* p. 56, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2874. *O. subsiderella* Nyl. apud Hue *Addend. Lichenogr. europ.* p. 252, ubi definitur. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 65). — Etiam in Europa.

2875. *O. gyrocarpa* Flot, Nyl. in *Flora* 1883, p. 535; thallus et præsertim soredia K (CaCl) reagunt. = In Asia boreali (Lawrencebay, etc. *Lich. Fr. Behr.* pp. 46 et 40, et in posteriore loco sporæ definiuntur). — Etiam in Europa.

2876. *O. robustula* Nyl. *Lich. N. Zeland.* 1888, p. 147 in notula, ubi definitur. Thallus K —, CaCl —. = In America meridionali (Chili).

2877. *O. Duriei* Mont. *Syllog.* p. 351, Nyl. *Prodr. Lich. Gall.* p. 161, ubi definitur; *Enum. Lich.* p. 131. = In Africa boreali (Algeria, *Lich. Algér.* p. 315).

2878. *O. microcycilia* Tuck. *Syn. North Americ. Lich.* II, p. 133; *O. myriocarpa* Tuck., Nyl. *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Nova Anglia).

2879. *O. stictica* Nyl. *Lich. Algér.* p. 335 et *Prodr. Lich. Gall.* p. 161, ubi definitur; *Enum. Lich.* p. 130. — *Lecanactis stictica* Dur. et Mont., Mont. *Syllog.* p. 351. = In Africa boreali (Algeria). — In America tropica (Peruvia, *Lich. exot.* p. 229).

2880. *O. microstictica* Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2881. *O. albo-atra* Nyl. *Enum. Lich.* p. 131. « Thallus cretaceo-albus vel albidus, sat tenuis, determinatus, areolato-rimulosus K (CaCl) nonnihil erythrinose reagens; apothecia sat parva, nigra, rotundata vel oblonga, margine prominulo, sæpius albo-suffuso, passim parum conferta. Sporæ 8<sup>næ</sup> incolores, lineari-fusifformes, 3-septatæ, longit. 0,046-18 et crass. 0,004 millim.; gelatina hymenialis iodo vinose fulvescens; paraphyses mediocres, discretæ; hypothecium nigrum. Subsimilis *O. sticticæ* Nyl., sed thallo alio, sporis brevioribus; fere esset *Lecidea amylacea* Nyl. *Prodr. Lich. Gall.* p. 137, sed apothecia nonnihil lirellina. » = In Africa occidentali (super saxa vulcanica in promontorio Viridi, ex herb. Hooker).

#### 6. — Stirps *Opegraphæ lentiginosæ* Lyell.

2882. *O. diplasiospora* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 62, tab. II, fig. 41, ed. 2<sup>a</sup> p. 92 et *Addit.* p. 569, ubi definitur. = In America tropica (Nova Granata). — Etiam in Europa (Hibernia).



2883. **Opegrapha lentiginosa** Lyell, Nyl. *Prodr. Lich. Gall.* p. 158, ubi definitur; *Enum. Lich.* p. 131. = In America tropica (Mexico, *Flora* 1858, p. 381; Guyana gallica). — Etiam in Europa.
2884. **O. confertula** Nyl. *Lich. N. Caled. Exposit.* p. 49 et *Syn.* p. 54, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).
2885. **O. interalbicans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 62 et ed. 2<sup>a</sup> p. 92, ubi definitur, *Addit.* p. 569. Ad hanc speciem pertinet *Graphis Comma* Eschw. *Fl. brasil.* p. 76. = In America tropica (Nova Granata; Brasilia).
2886. **O. interalbescens** Nyl. in *Flora* 1866, p. 293, ubi definitur. = In America tropica (ins. Cuba). — In Oceania (ins. Labuan, legit Almquist, Nyl. in litt.).
2887. **O. epigraphella** Nyl. *Syn. Lich. N. Caled.* p. 55, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia, ubi reperitur supra thallum *Graphidis consociantis* Nyl. *Syn. Lich. N. Caled.* p. 77).
2888. **O. subsimilata** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 92, ubi definitur. = In Asia orientali (ins. Bonin prope Japoniam).
2889. **O. devia** Knight et Mit., Nyl. *Lich. N. Zeland.* 1888, p. 116, ubi definitur. = In Oceania (Nova Zelandia).
2890. **O. dichænella** Nyl. in *Flora* 1866, p. 134, ubi definitur. = In Oceania (ins. Java).
2891. **O. lepidella** Nyl. in *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 12 et *Lich. ins. Guin.* p. 33, ubi definitur. = In Africa occidentali (ins. San Thomé).
2892. **O. subeffigurans** Nyl. *Lich. N. Zeland.* 1861, p. 258, et 1888, p. 116, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).
2893. **O. aphoristica** Nyl. apud Stizenb. *Ueber die Steinbewohn. Opegr.* — *Art.* p. 36 in notula et *Lichen. afric.* p. 205. = In Africa occidentali (ins. Canariis).

## Gen. CXII. — PLATYGRAPHIA Nyl.

2894. **P. undulata** Nyl. *Enum. Lich.* p. 131. — *Lecanora undulata* Fée *Essai* p. 120, tab. XXVI, fig. 1, et *Supplém.* p. 117, tab. XLII Lecan. fig. 48. = In America tropica (Peruvia, *Lich. exot.* p. 229).
2895. **P. bimarginata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 569 in notula, ubi definitur. — *Lecidea bimarginata* Eschw. *Fl. brasil.* p. 242. = In America tropica (Brasilia).
2896. **P. dilatata** Nyl. *Prodr. Fl. Gran. Addit.* p. 569, ubi sporæ definiuntur; *Enum. Lich.* p. 131. — *Parmelia undulata* Mont. *Syllog.* p. 332. = In America tropica (Guyana; Nova Granata, *Flora* 1864, p. 618; Brasilia, *Flora* 1869, p. 123).
2897. **P. pallidella** Nyl. in *Flora* 1867, p. 6, ubi definitur. = In Asia meridionali (Calcutta). — In Oceania (ins. Taïti).
2898. **P. stenogramma** Nyl. apud Cromb. *Chall. Expedit.* p. 226, ubi definitur. = In Oceania (Polynesia, ins. Amiraute).
2899. **P. homæoides** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 569, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 618).  
— Var. **plicata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 570, ubi definitur. = In America tropica (Nova Granata).
2900. **P. epileuca** Nyl. *Lich. exot.* p. 229, ubi definitur. = In America tropica (Peruvia).
2901. **P. flaviseda** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 570, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 618).
2902. **P. subattingens** Nyl. *Lich. ins. Guin.* p. 51, ubi definitur. = In America septentrionali calida (Florida).

2903. **Platygrapha flavisedella** Nyl. *Lich. Andam.* p. 13, ubi definitur. = In Asia meridionali (ins. Andaman).
2904. **P. psaroleuca** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 570, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 618, ubi *Pl. psoroleuca* errore vocatur).
2905. **P. californica** Nyl. *Syn. Lich. N. Caled.* p. 58 in notula. — *Dirina californica* Tuck. = In America septentrionali (California).
2906. **P. albo-cincta** Nyl. *Prodr. Lich. Gall.* p. 162, ubi definitur; *Enum. Lich.* p. 131. — *Opegrapha albo-cincta* Nyl. *Lich. Algér.* p. 335, ubi definitur. = In Africa boreali (Algeria).
2907. **P. albiseda** Nyl. *Lich. N. Caled. Exposit.* p. 51 et *Syn.* p. 57, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).
2908. **P. flavescens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 62 et ed. 2<sup>a</sup> p. 93, ubi definitur. = In America tropica (Nova Granata).
2909. **P. sulphurescens** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2910. **P. thioleuca** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2911. **P. epileucodes** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2912. **P. opegraphina** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2913. **P. permutans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 63 et ed. 2<sup>a</sup> p. 93, ubi definitur. = In America tropica (Nova Granata).
2914. **P. leucopsara** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 63 et ed. 2<sup>a</sup> p. 94, ubi definitur. = In America tropica (Nova Granata).
2915. **P. glaucomoides** Nyl. in *Flora* 1867, p. 6, ubi definitur. = In Asia meridionali (Calcutta).
2916. **P. ocellata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 64 et ed. 2<sup>a</sup> p. 94, ubi definitur; *Enum. Lich.* p. 131. = In Africa orientali (ins. Madagascar). — In America septentrionali (Louisiana) et tropica (ins. Guadalupa, *Lich. Antill.* p. 18, ubi sporæ definiuntur; Nova Granata, etc.).
2917. **P. Rotula** Nyl. *Lich. Andam.* p. 13, ubi definitur; *Enum. Lich.* p. 131. — *Strigula Rotula* Mont. *Sylog.* p. 375. = In America tropica (ins. Cuba; Brasilia).
2918. **P. phyllosema** Nyl. *Lich. Andam.* p. 13, ubi definitur. = In Asia meridionali (ins. Andaman).
2919. **P. strigulina** Nyl. *Lich. Andam.* p. 13, ubi definitur; *Pl. striguloides* Nyl. *Enum. Lich.* p. 131. = In Africa orientali (ins. Madagascar).
2920. **P. elæocarpa** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 571 ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 618).
2921. **P. congerens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 571, in notula, ubi definitur. = In Oceania (Tasmania).
2922. **P. prominula** Nyl. *Lich. ins. Guin.* p. 47, ubi definitur pr. p.; *Enum. Lich.* p. 131. — *Lecidea cinerascens* Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 59 in notula; *Enum. Lich. Supplém.* p. 337. = In America tropica (Guyana).
2923. **P. lecanoroides** Nyl. *Lich. exot.* p. 229, ubi definitur. — *Arthonia lecanoroides* Fée *Essai* p. 54, tab. XIV, fig. 6, et *Supplém.* p. 40, tab. XL Arthon. fig. 11. = In America tropica (Peruvia).
2924. **P. sublecanorina** Nyl. *Lich. Angol.* p. 518, ubi definitur. = In Africa occidentali (Angola).
2925. **P. periclea** Nyl. *Lich. Scand.* p. 256, ubi definitur; *Enum. Lich.* p. 131. = In America boreali. — Etiam in Europa.
2926. **P. dirinea** Nyl. *Enum. Lich.* p. 131. — *Chiodecton paradoxum* Fée *Essai Cryptog. écorces exot. officin.* p. 64, et *Supplém.* p. 53. « Thallus albus vel albidus, effusus, fere

pulverulentus, tenuis. Apothecia superficilia, prominula, mediocria, rotundata vel non-nihil repando-diformia, marginethallino distincto cincta, supra plana epitheciumque planum, albo-suffusum vel denudatum, atrum, intus nigra; sporæ 8<sup>næ</sup> fusiformes, 3-septatæ, longit. 0,025-35, crass. 0,003 millim. Iodo gelatina hymenialis vinose lutescens præcedente cærulescentia levi.

In herbario Fée examinare contigit formam ejusdem, ut videtur, super corticem Crotonis Cascariillæ nascentem, facie adhuc magis dirinoidea, sporis paulo crassioribus longit. 0,035 et crass. 0,005 millim., semper 3-septatis, gelatina hymeniali iodo rubente ».

= In Africa meridionali (promont. Bonæ Spei). — In America tropica (Peruvia, super corticem Crotonis laxiferæ, ex herb. Fée, Nyl. *Lich. exot.* p. 230; ins. S<sup>to</sup> Domingo, ubi viget forma modo definita).

— **F. multiformis** Nyl. *Lich. exot.* p. 230. — *Dirina multiformis* Mont. *Syllog.* p. 335 et *Plantæ Junghuhn.* p. 453. « Hæc est forma *Pl. dirinæ* Nyl. verrucis apotheciorum albis, sporis 5-septatis angustis, longit. 0,027-30 et crass. 0,002 millim. ». = In Oceania (ins. Java).

2927. **Platygrapha leptographa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup>, p. 64, tab. II, fig. 45, et ed. 2<sup>a</sup> p. 95, ubi definitur. = In America tropica (Nova Granata).

2928. **P. rimata** Nyl. *Prodr. Lich. Gall.* p. 162 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup>, p. 135, ubi definitur; *Enum. Lich.* p. 131. — *Schismatomma dolosum* var. *rimatum* Flot. = In Africa occidentali (ins. Canariis). — In America tropica (Nova Granata). — Etiam in Europa.

2929. **P. occulta** Knight et Mitten, Nyl. *Lich. N. Zeland.* 1888, p. 118, ubi definitur. = In Oceania (Nova Zelandia).

— **F. 1. evolutior** Nyl. *Lich. N. Zeland.* p. 119, ubi definitur.

— **F. 2. decolorascens** Nyl. *Lich. N. Zeland.* 1888, p. 119, ubi definitur. = Utraque forma in Nova Zelandia.

2930. **P. lineolata** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 571, ubi definitur. = In America tropica (Nova Granata, *Flora* 1864, p. 618).

2931. **P. gymnophora** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 572 in notula, ubi definitur. = In America tropica (Peruvia).

2932. **P. evanescens** Nyl. *Enum. Lich.* p. 131. — *Graphis evanescens* Fée *Essai* p. 35, tab. VIII, fig. 2, et *Supplém.* p. 27. = In America tropica (ins. Jamaica).

2933. **P. melastigma** Nyl. — *Stigmatidium melastigma* Nyl. in *Flora* 1867, p. 6, ubi definitur. = In Asia meridionali (Calcutta).

2934. **P. Kurzii** Nyl. *Lich. Andam.* p. 13, ubi definitur. — *Chiodecton Kurzii* Krempelh. = In Asia meridionali (ins. Andaman).

#### Gen. CXIII. — STIGMATIDIUM Meyer.

2935. **S. præpallens** Nyl. *Lich. Jap.* p. 84, ubi definitur; thallus CaCl bene erythrinose rubet. = In Asia orientali (Japonia).

2936. **S. interruptum** Nyl. in *Flora* 1867, p. 6. — *Graphis interrupta* Fée *Essai* p. 41, tab. VIII, fig. 1, et *Supplém.* p. 27. — *Platygrapha interrupta* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 64, tab. II, fig. 44, et ed. 2<sup>a</sup> p. 95, atque *Addit.* p. 572, ubi definitur; *Enum. Lich.* p. 131. — *Chiodecton monosticton* Fée *Essai Supplém.* p. 54. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 230).

2937. **S. extenuatum** Nyl. in *Flora* 1867, p. 6. — *Platygrapha extenuata* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 64, ed. 2<sup>a</sup> p. 96 et *Addit.* p. 572, ubi definitur. = In America tropica (Nova Granata).



2938. **Stigmatidium extenuans** Nyl. — *Platygrapha stigmatica* Krempelh., Nyl. in *Flora* 1867, p. 6, ubi definitur. = In Asia meridionali (Calcutta).

2939. **S. stigmodes** Nyl. — *Opegrapha stigmodes* Nyl. *Syn. Lich. N. Caled.* p. 55, ubi definitur; in *Flora* 1867, p. 195. = In Oceania (Nova Caledonia).

2940. **S. subtilissimum** Nyl. *Lich. N. Zeland.* 1888, p. 118 et fig. 8, ubi definitur; thallus K subflavescit. = In Oceania (Nova Zelandia).

2941. **S. anguinellum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 96 in notula et *Lich. Jap.* p. 84, ubi definitur; thallus K flavet. = In Asia orientali (Japonia).

2942. **S. autographum** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2943. **S. leiostictum** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2944. **S. compunctum** Nyl. *Enum. Lich.* p. 132. — *Sagedia compuncta* Mont. *Cryptog. guyan.* p. 54 = In America tropica (Guyana; Peruvia, *Lich. exot.* p. 230).

2945. **S. granulatum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 65 et ed. 2<sup>a</sup> p. 96, ubi definitur. — *Sagedia granulata* Mont. *Sylog.* p. 360; thallus K subflavescit. = In America tropica (Guyana; Nova Granata).

2946. **S. compunctulum** Nyl. *Lich. N. Zeland.* 1888, p. 118 in notula, et *Lich. ins. Guin.* p. 50, ubi definitur; thallus K subflavescit. = In Oceania (ins. Hawaii).

2947. **S. diffusum** Nyl. *Enum. Lich.* p. 132. — *Trypethelium verrucarioides* Fée *Essai Supplém.* p. 64. « Thallus tenuis, albidus, læviusculus. Apothecia minutissima, punctiformia et passim striguliformia, intus pallida, diffuse sparsa, satis conferta, passim in pulvinulis obsoletis stromata simulantibus disposita; sporæ 8<sup>ne</sup> incolores, fusiformes, 3-septatae, longit. 0,020-25 et crass. 0,003-4 millim. Iodo gelatina hymenialis cærulescens, dein vinose rubescens. Affinis *St. compuncto* Nyl. Invitus nomen *St. verrucarioides* (Fée) rejicio, sed nimis male huic speciei conveniret. » = In America tropica (ins. Sto Domingo, super corticem Crotonis Cascariillæ).

2948. **S. elegans** Nyl. *Syn. Lich. N. Caled.* p. 58 et *Lich. Antill.* p. 18, ubi definitur. — *Sclerophytum elegans* Eschw. *Fl. brasil.* p. 103. = In America tropica (ins. Guadalupa). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

— Var. **glaucovirescens** Nyl. *Syn. Lich. N. Caled.* p. 58, ubi definitur. = In Oceania (Nova Caledonia).

2949. **S. elegantulum** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2950. **S. inscriptum** Nyl. in *Bull. of the Torrey Bot. Club* 1889, p. 105, et *Lich. ins. Guin.* p. 50, ubi definitur. = In America septentrionali (Jacksonville).

2951. **S. subseriale** Nyl. *Syn. Lich. N. Caled.* p. 58. — *Chiodecton subseriale* Nyl. *Exposit. Lich. N. Caled.* p. 52, ubi definitur, et in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

2952. **S. crassum** Duby *Bot. Gall.* II, p. 643; Nyl. *Prodr. Lich. Gall.* p. 163, ubi definitur pr. p.; *Enum. Lich.* p. 132; *S. obscurum* Spreng. = In Asia orientali (Japonia, *Lich. Jap.* p. 84, ubi sporæ definiuntur). — In Africa boreali (Algeria, *Lich. Algér.* p. 315). — Etiam in Europa (in Lusitania viget var. *graphicum* Nyl. *Syn. Lich. N. Caled.* p. 60).

2953. \* **S. quassiæcola** Nyl.; *St. quassiicolum* (nomen erroneum) Nyl. *Syn. Lich. N. Caled.* p. 59, ubi definitur; *S. quassiicolum* Nyl. *Enum. Lich.* p. 132. — *Enterographa quassiæcola* Fée *Essai* p. 57, tab. XXXIII, fig. 2, et *Supplém.* p. 43, tab. XL Enterogr. fig. 1. = In America tropica (ins. Martinica). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

2954. **S. leucolytum** Nyl. *Lich. Sti Pauli* p. 7 et in *Flora* 1886, p. 322, ubi definitur; thallus CaCl roseo-erythrinose tingitur. = In Africa orientali antarctica (ins. Sti Pauli).

2955. **S. venosum** Nyl. *Lich. Port Natal* p. 13, ubi definitur; *Addit. Fl. chil.* p. 169; *Enum. Lich.* p. 132. — *Opegrapha venosa* Sm. = In Africa meridionali (Portu Natali). — Etiam in Europa (Lusitania, *Flora* 1865, p. 605 in notula).

2956. **Stigmatidium stellulatum** Nyl. *Enum. Lich.* p. 132. — *Graphis stellulata* Fée *Essai* p. 148 et *Supplém.* p. 28, tab. XXXV, fig. 6. = In America tropica (ins. Jamaica).

2957. **S. phæosporellum** Nyl. *Lich. exot.* p. 230, ubi definitur; *Enum. Lich.* p. 132. = In America tropica (Peruvia).

2958. **S. albineum** Nyl. *Addit. Fl. chil.* p. 169, ubi definitur; *Enum. Lich.* p. 132. = In America meridionali (Chili).

2959. **S. leptostictum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 64 et ed. 2<sup>a</sup> p. 97, ubi definitur. = In America tropica (Nova Granata).

2960. **S. micrographum** Nyl. in *Flora* 1867, p. 7, ubi definitur. = In Asia meridionali (Calcutta).

2961. **S. graphidioides** Cromb., Nyl. *Lich. Fueg.* p. 17 et apud Cromb. *Falkland isl.* p. 233, ubi definitur. In priore loco scribitur errore *St. graphidiodes*. = In America antarctica (Fuegia).

Gen. CXIV. — ARTHONIA Ach.

Subgen. I. — *Euarthonia* Nyl.

Species in quarum thallo chroolepoidea gonidia inveniuntur.

Sectio A. — SPECIES QUARUM APOTHECIA VARIE COLORATA NON SUNT NIGRA.

1. — Stirps *Arthoniæ cinnabarinæ* Wallr.

Apothecia rufescentia; sporæ 5-septatæ.

2962. **A. cinnabarina** Wallr., Nyl. *Syn. Arthon.* p. 88 et *Lich. Scand.* p. 257, ubi definitur; *Enum. Lich.* p. 132; *A. gregaria* Kærst., Willey (1) *Syn. Arthon.* p. 7. — *Sphaeria gregaria* Weig. = In Asia meridionali (Calcutta, *Flora* 1867, p. 7, ubi sporæ definiuntur). — In Africa boreali (Algeria, *Lich. Algér.* p. 315 et *Prodr. Lich. Gall.* p. 163). — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 65 et 2<sup>a</sup> p. 97). — Etiam in Europa.

— F. 1. **erumpens** Nyl. *Syn. Arth.* p. 89 in notula, ubi sporæ definiuntur. = In America tropica (Guyana gallica).

— F. 2. **cuspidans** Nyl. in *Flora* 1876, p. 310 in notula, ubi definitur. = In America tropica (ins. Cuba). — Etiam in Europa (Hibernia).

2963. **A. adspersa** Nyl. *Lich. N. Zeland.* 1888, p. 119, ubi definitur. — *Ustalia adspersa* Mont. *Cryptog. guyan.* p. 43. — *Arthonia cinnabarina* var. *adspersa* Nyl. *Addit. Fl. chil.* p. 171 in notula, ubi definitur; *Syn. Arthon.* p. 89 in notula; *Enum. Lich.* p. 132. = In Asia orientali (Malacca et China, Nyl. et Cromb. *Lich. East. Asia* pp. 58 et 65). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 12 et *Lich. ins. Guin.* p. 33). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 17; Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 65 et ed. 2<sup>a</sup> p. 97, ubi sporæ definiuntur; Peruvia, *Lich. exot.* p. 230). — In Oceania (ins. Labuan, *Lich. Jap.* p. 112, ubi sporæ definiuntur; Nova Caledonia, *Syn. Lich. N. Caled.* p. 60, ubi etiam definitur, *Flora* 1867, p. 196; ins. Sandwich, *Lich. exot.* p. 245; Nova Zelandia).

2964. \* **A. violacea** Pers., Nyl. *Syn. Arthon.* p. 89 in notula, ubi definitur; *A. cinnabarina* var. *violacea* Nyl. *Enum. Lich.* p. 132. = In Oceania (ins. Marianis, *Lich. exot.* p. 245).

(1) *Synopsis of the genus Arthonia* by Henry Willey. New Bedford, 1890.

2965. \*\* **Arthonia Cascarillæ** Nyl. in *Flora* 1885, p. 447, ubi definitur; *Enum. Lich.* p. 132. — *Coniocarpon Cascarillæ* Fée *Essai* p. 99, tab. XV, fig. 4, et *Supplém.* p. 94, tab. XLII Conioc. fig. 3. = In America tropica (Peruvia).

2966. **A. ochrodes** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2967. **A. pyrrhula** Nyl. in *Flora* 1885, p. 447, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Carolina).

2968. **A. pyrrhuliza** Nyl. in *Flora* 1885, p. 447, ubi definitur. = In America septentrionali (New Bedford).

2969. **A. ilicinella** Nyl. in *Flora* 1867, p. 179, et *Lich. Fueg.* p. 18, ubi definitur. = In America antarctica (Fuegia). — Eliam in Europa (Hibernia).

2970. **A. hypochniza** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2. — Stirps *Arthonia rubellæ* Nyl.

Apothecia plus minusve rufa; sporæ 3-5-raro 7-septatæ.

2971. **A. rubella** Nyl. *Syn. Arthon.* p. 89, ubi definitur; *Enum. Lich.* p. 132; *A. rufella* Nyl. *Addit. Fl. chil.* p. 170, ubi definitur. — *Graphis rubella* Fée *Essai* p. 43, tab. XV, fig. 5, et *Supplém.* p. 31, tab. XXXIX Graph. fig. 26; *Gr. caribæa* Ach. pr. p., cujus sporæ definiuntur in Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 81 in notula et ed. 2<sup>a</sup> p. 98. = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 12 et *Lich. ins. Guin.* p. 34, ubi sporæ definiuntur). — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 65 et ed. 2<sup>a</sup> p. 98, ubi sporæ definiuntur, et *Addit.* p. 572) et meridionali (Chili).

— **F. inferiuscula** Nyl. apud Cromb. *Challeng. Expedit.* p. 217, ubi definitur. = In America septentrionali (ins. Bermudis).

— Var. **confluens** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 572, ubi definitur. = In America tropica (Nova Granata).

2972. **A. erupta** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2973. **A. viridicans** Nyl. *Lich. Jap.* p. 107, ubi definitur; Willey *Syn. Arthon.* p. 10; species notabilis paraphysisibus distinctis, quod in hoc genere rarissime invenitur. = In America septentrionali (Texas).

2974. **A. compensata** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2975. **A. compensatula** Nyl. in *Flora* 1886, p. 104, et *Lich. Andam.* p. 15, ubi sporæ definiuntur. = In America tropica (ins. Cuba).

2976. **A. ulcerosula** Nyl. *Lich. Andam.* p. 15 in notula, ubi definitur. = In Africa orientali (ins. Mauritii).

2977. **A. ochrospila** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

2978. **A. subrubella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> pp. 65 et 81, ed. 2<sup>a</sup> p. 98 in notulis, ubi definitur; *A. varia* var. *subrubella* Nyl. *Enum. Lich.* p. 132. = In America tropica (ins. S<sup>ti</sup> Thomæ Antillarum, *Flora* 1880, p. 128, ubi sporæ definiuntur; Peruvia).

2979. **A. conturbata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 65 et ed. 2<sup>a</sup> 98 in notulis, ubi definitur. = In America tropica (Mexico).

2980. **A. caribæa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 81 in notula et ed. 2<sup>a</sup> p. 98, *Syn. Lich. N. Caled.* p. 61, ubi definitur; *Syn. Arthon.* p. 89; *Enum. Lich.* p. 132. — *Graphis caribæa* Ach. *Syn. Lich.* p. 86 pr. p., pro altera parte vide supra *A. rubellam* Nyl. n<sup>o</sup> 2971. = In America tropica (Peruvia, *Lich. exot.* p. 230). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

2981. **A. catenatula** *Lich. Andam.* p. 14, ubi definitur. = In Asia meridionali (ins. Andaman).



2982. **Arthonia ochraceella** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2983. **A. leucographella** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2984. **A. explanata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 66 et ed. 2<sup>a</sup> p. 99, ubi definitur. = In America tropica (Nova Granata).
2985. **A. substellata** Nyl. *Syn. Lich. N. Caled.* p. 62, ubi definitur; *A. polymorpha* var. *substellata* Ach., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 106, ubi definitur. Sistit *Graphidem atratam* Fée *Essai* p. 35 et *Supplém.* p. 27 et *Arthoniam atratam* Fée, quæ sub posteriore nomine definitur apud Nyl. *Exposit. Lich. N. Caled.* p. 51, necnon *A. variam* var. *atratam* Nyl. *Enum. Lich.* p. 132, sed apud Nyl. et Cromb. *Lich. East. Asia* p. 59, hæc *Graphis atrata* Fée cum *A. varia* Nyl. jungitur. = In Asia orientali (ins. Bonin, prope Japoniam). — In America tropica (Antillis). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).
2986. **A. septisepta** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
2987. **A. varia** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> pp. 66 et 82 in notulis et ed. 2<sup>a</sup> pp. 98 et 99 in notula, *Syn. Lich. N. Caled.* p. 60, ubi definitur; *Enum. Lich.* p. 132. — *Opegrapha abnormis* var. *varia* Ach. *Lichenogr. univ.* p. 259. — *Arthonia stenographella* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 82 in notula et ed. 2<sup>a</sup> p. 99, atque *Lich. Jap.* p. 85, ubi definitur. In *Syn. Lich. N. Caled.* p. 61 et apud Stizenb. in *Flora* 1891, p. 114, utraque species dicitur jungenda esse. = In Asia orientali (ins. Bonin, prope Japoniam; China, forma indeterminata ad Hong-Kong ex herb. Tuck.). — In Africa tropica. — In America tropica (ins. Jamaïca). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).
2988. **A. interducta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 82 in notula et ed. 2<sup>a</sup> p. 98, ubi definitur. = In America tropica (Nicaragua).
2989. **A. impallens** Nyl. in *Flora* 1885, p. 448, ubi definitur. = In America septentrionali (New-Jersey).
2990. **A. Antillarum** Nyl. *Syn. Lich. N. Caled.* p. 61, ubi definitur; *A. varia* var. *Antillarum* Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 136, ubi definitur, et p. 100, atque ed. 1<sup>a</sup> p. 66; in *Lich. exot.* p. 231 cum *A. varia* Nyl. jungitur. — *Coniocarpon Antillarum* Fée *Essai Supplém.* p. 49, tab. XLII Conioc. fig. 4; thallus K flavescit. = In Asia meridionali (Calcutta, *Flora* 1867, p. 7, ubi sporæ definiuntur). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 12, et *Lich. ins. Guin.* p. 33). — In America tropica (Antillis; Nova Granata). — In Oceania (ins. Labuan, *Lich. Jap.* p. 112, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 196).
2991. **A. perpallens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 100 et *Lich. Jap.* p. 85, ubi definitur; in *Flora* 1867, p. 7 in notula. = In Asia orientali (ins. Bonin prope Japoniam).
2992. **A. fusco-pallens** Nyl. *Lich. exot.* p. 230, ubi definitur; *Syn. Arthon.* p. 92; *Enum. Lich.* p. 132. = In America tropica (Guyana gallica; Peruvia).
2993. **A. conferta** Nyl. *Enum. Lich.* p. 132. — *Coniocarpon confertum* Fée *Essai Supplém.* p. 95. Immerito jungit huic speciei cl. Willey *Synops. Arthon.* p. 12 *A. substellatam* Nyl. supra n° 2985, quæ est distincta species. « Thallus macula pallide flavente indicatus. Apothecia fusca, deformia vel confluentia; sporæ 6-8<sup>na</sup> oblongæ, 5-septatæ, longit. 0,018-20 et crass. 0,007 millim. Iodo gelatina hymenialis intense cærulescens. Affinis *A. fusco-pallenti* Nyl., differens macula thalli determinata et apotheciis. » = In America tropica (ins. Antillis, supra corticem Mangiferae indicæ).
2994. **A. subpolymorpha** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 58, ubi definitur. = In Asia orientali (Malacca).
2995. **A. platyspilea** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 66 et ed. 2<sup>a</sup> p. 99 in notulis, ubi definitur. = In America tropica (Mexico).
2996. **A. ephelodes** Nyl. *Syn. Lich. N. Caled.* p. 60, ubi definitur; in *Flora* 1867, p. 196; sporæ vulgo 2-septatæ. = In Oceania (Nova Caledonia).

2997. **Arthonia subvaria** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).  
 2998. **A. variella** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).  
 2999. **A. ochro-lutea** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).  
 3000. **A. ochro-cincta** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).  
 3001. **A. fusco-albella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 66 et ed. 2<sup>a</sup> p. 100, ubi definitur. = In America tropica (Nova Granata).  
 3002. **A. pulicosa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 66 et ed. 2<sup>a</sup> p. 100, ubi definitur. = In America tropica (Nova Granata).

### 3. — Stirps *Arthoniæ luridæ* Ach.

Apothecia fusca vel fusco-nigricantia; sporæ 1-septatæ.

3003. **A. lurida** Ach. *Syn. Lich.* p. 7, Nyl. *Syn. Arthon.* p. 91 et *Lich. Scand.* p. 258, ubi definitur; *Enum. Lich.* p. 132; in *Flora* 1875, p. 364. Distinguenda est ab *A. spadicea* Leight. specie mere europæa; utraque a cl. Stizenberger *Lich. helvet.* p. 221 immerito jungitur. = In Oceania (Nova Zelandia). — Etiam in Europa.  
 3004. **A. conspicua** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 67 et ed. 2<sup>a</sup> p. 101 in notulis, ubi definitur. — *Myriangium inconspicuum* Bab. *Lich. of N. Zeal.* p. 46, tab. CXXVIII. B. = In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 259, et 1888, p. 123).  
 3005. **A. albo-rufella** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 101 in notula, ubi definitur. = In America tropica (ins. Cuba).  
 3006. **A. aphanocarpa** Nyl. *Syn. Arthon.* p. 90, ubi sporæ definiuntur; *Enum. Lich.* p. 132. = In America tropica (Guyana gallica).

### 4. — Stirps *Arthoniæ pruinosa* Ach.

Apothecia pallida vel fusca; sporæ 3-septatæ.

3007. **A. pruinosa** Ach. *Syn. Lich.* p. 7, Nyl. *Syn. Arthon.* p. 90 et *Lich. Scand.* p. 258, ubi definitur; *Enum. Lich.* p. 132; *A. impolita* Borr., Willey *Syn. Arthon.* p. 18. — *Lichen impolitus* Ehrh. — *Lecanora fecunda* Tuck., Nyl. *Syn. Lich. N. Caled.* p. 60 in notula. Thallus CaCl erythrinose tingitur. = In America septentrionali (California). — Etiam in Europa.  
 3008. **A. polygramma** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 66 et ed. 2<sup>a</sup> p. 99, ubi definitur. = In America tropica (Nova Granata).  
 — Var. **denudata** *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 66 et ed. 2<sup>a</sup> p. 100, ubi definitur. = In America tropica (Nova Granata).  
 3009. **A. limitata** Nyl. *Enum. Lich.* p. 132. « Thallus limitatus. Apothecia conferta sat parva fere confluentia; sporæ 3-septatæ, longit. 0,016-18 et crass. 0,008 millim. Iodo gelatina hymenialis cærulescens, thecæ vinose rubescentes. » = In Asia tropica (ins. Ceylonia, super corticem Cocoës legit Gardener ex herb. Hooker).  
 3010. **A. lilacina** Mont. et v. d. Bosch, Mont. *Plant. Junghuhn.* p. 478 et *Sylog.* p. 353, Nyl. *Syn. Arthon.* p. 91. = In Oceania (ins. Java).  
 3011. **A. diffusa** Nyl. in *Flora* 1885, p. 448, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Nova Anglia).  
 3012. **A. cinereo-pruinosa** Schær., Nyl. *Syn. Arthon.* p. 94, ubi definitur; *Enum. Lich.* p. 132 et *Supplém.* p. 337. = In America boreali. — Etiam in Europa.  
 3013. **A. impolitella** Nyl. in *Flora* 1867, p. 7, ubi definitur. = In Asia meridionali (Calcutta).

3014. **Arthonia glaucescens** Nyl. *Enum. Lich. Supplém.* p. 337. « Thallus albidus, glaucescens, opacus, tenuis, subdeterminatus, continuus. Apothecia primo alba, fere albo-farinosa, crebra, rotundata, dein glauca vel glauco-fuscescentia, tenuiter albo-suffusa, depressa, albo-marginata (margine plano), inde quasi ocellata, rotundata vel nonnihil difformia, intus sordide pallescentia; sporæ 8<sup>ae</sup>, formæ solitæ, 3-septatæ, longit. 0,016-18 et crass. 0,007 millim. Iodo gelatina hymenialis cœrulescit. Apothecia medioeria latit. 1 millim.; juniora varioloidea. » = In America septentrionali (Carolina, super cortices).

5. — Stirps *Arthoniæ noli-tangere* Nyl.

Apothecia fulvescentia; sporæ 3-septatæ.

3015. **A. noli-tangere** Nyl. *Addit. Fl. chil.* p. 170, ubi definitur; *Syn. Arthon.* p. 90; *Enum. Lich.* p. 132. — *Chrysothrix noli-tangere* Mont. *Syllog.* p. 382; *Cilicia noli-tangere* Mont. = In America tropica (Peruvia, *Lich. exot.* p. 231) et meridionali (Chili; Republica Argentina).

6. — Stirps *Arthoniæ sanguineæ* Willey.

Apothecia sanguinea; sporæ murali-divisæ.

3016. **A. sanguinea** Will., Nyl. in *Flora* 1885, p. 311, ubi definitur; Will. *Syn. Arthon.* p. 22. = In America septentrionali (California).

7. — Stirps *Arthoniæ albata* Nyl.

Apothecia pallida vel pruinosa; sporæ 7-12 septatæ seu murali-divisæ.

3017. **A. nephelina** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 101, ubi definitur. = In America tropica (Nova Granata).

3018. **A. albata** Nyl. *Lich. exot.* p. 231, ubi definitur; *Syn. Arthon.* p. 93; *Enum. Lich.* p. 133. = In America tropica (Peruvia).

3019. **A. aleurocarpa** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 572, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata)

3020. **A. scriblitella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 67, tab. II, fig. 49, et ed. 2<sup>a</sup> p. 102, ubi definitur; thallus CaCl +, sed apothecia CaCl —. = In America tropica (Nova Granata).

3021. **A. aleurina** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 102, ubi definitur. = In Asia meridionali (Cochinchina).

3022. **A. subsimillima** Nyl. *Syn. Lich. N. Caled.* p. 64, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3023. **A. aleurodes** Nyl. *Lich. Antill.* p. 17, ubi definitur; thallus CaCl —, sed farina alba apotheciorum CaCl +. = In America tropica (ins. Guadalupa).

3024. **A. xanthocarpa** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 67 et ed. 2<sup>a</sup> p. 102, ubi definitur. = In America tropica (Nova Granata).

3025. **A. undenaria** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 68, tab. II, fig. 50, et ed. 2<sup>a</sup> p. 102, ubi definitur. = In America tropica (Nova Granata).

3026. **A. albo-virens** Nyl. *Syn. Lich. N. Caled.* p. 64, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3027. **A. fissurinella** Nyl. in *Flora* 1869, p. 125, ubi definitur. = In America tropica (Brasilia).



3028. **Arthonia fissurinea** Nyl. in *Flora* 1885, p. 447, ubi definitur. = In America septentrionali calida (Florida).

3029. **A. chiodectella** Nyl. in *Flora* 1869, p. 125 in notula, ubi definitur. = In America septentrionali (Louisiana).

3030. **A. chiodectoides** Nyl. in *Flora* 1869, p. 72, ubi definitur; thallus K flavescit. = In Asia meridionali (Bengalia).

8. — Stirps *Arthoniæ purpurissatæ* Nyl.

Apothecia fusco-nigra; sporæ 1-septatæ.

3031. **A. purpurissata** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 68 et ed. 2<sup>a</sup> p. 103, ubi definitur. = In America tropica (Nova Granata).

Sectio B. — SPECIES QUARUM APOTHECIA SUNT NIGRA.

9. — Stirps *Arthoniæ spectabilis* Flot.

Sporæ pluri-oculares, 3-12-septatæ seu murali-divisæ.

3032. **A. leprariella** Nyl. *Enum. Lich.* p. 133. « Sporæ 5-7 septatæ, longit. 0,042-46 et crass. 0,019-21 millim. » = In Asia meridionali (India).

3033. **A. interveniens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 68 et ed. 2<sup>a</sup> p. 104 in notulis, ubi definitur. = In America septentrionali.

3034. **A. ampliata** Knight et Mitten, Nyl. *Lich. N. Zeland.* 1888, p. 122 et fig. 6, ubi definitur. = In Oceania (Nova Zelandia).

3035. **A. obtusula** Nyl. *Lich. N. Zeland.* 1888, p. 122, ubi definitur. = In Oceania (Nova Zelandia).

3036. **A. ambiguella** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 68, tab. II, fig. 48, et ed. 2<sup>a</sup> p. 103, ubi definitur. = In America tropica (Nova Granata).

3037. **A. adveniens** Nyl. *Syn. Lich. N. Caled.* p. 63, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

— Var. **cinerascens** Nyl. *Syn. Lich. N. Caled.* p. 163, ubi definitur. = In Oceania (Nova Caledonia).

3038. **A. tædiosa** Nyl. *Addit. Fl. Chil.* p. 171, ubi definitur; *Syn. Arthon.* p. 93; *Enum. Lich.* p. 133; *A. lirellans* Almqvist *Monogr. Arthon. Scand.* p. 40. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 136 et *Addit.* p. 572, ubi denuo definitur) et meridionali (Chili). — Etiam in Europa (Lusitania, *Flora* 1865, p. 605, et 1885, p. 449).

3039. **A. Huegelii** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 572 in notula, ubi definitur. — *Lecidea Huegelii* Krempelh. = In Oceania (Australia).

3040. **A. spectabilis** Flot., Nyl. *Enum. Lich.* p. 133 et *Lich. Scand.* p. 259. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 58). — Etiam in Europa.

3041. **A. anastomosans** Nyl. *Lich. Scand.* p. 259, ubi definitur; *A. radiata* var. *anastomosans* Ach. *Lichenogr. univ.* p. 146; *A. dispersa* Duf., Nyl. *Addit. Fl. chil.* p. 171, *Syn. Arthon.* p. 93 et *Lich. Algér.* p. 336, ubi definitur; *Enum. Lich.* p. 133. = In America meridionali (Chili). — Etiam in Europa.

3042. **A. homœophana** Nyl. *Syn. Lich. N. Caled.* p. 65 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 105 in notula, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3043. **Arthonia abnormis** Nyl. *Syn. Lich. N. Caled.* p. 64, ubi definitur. — *Opegrapha abnormis* Ach. *Syn. Lich.* p. 74. E dictis in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>a</sup> p. 104 in notulis, est *Arthonia anastomosans* Nyl. *Exposit. Lich. N. Caled.* p. 51, quæ ibi definitur. = In Asia meridionali (Calcutta, *Flora* 1867, p. 7, ubi sporæ definiuntur). — In America tropica (ins. Jamaïca). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

3044. **A. albo-virescens** Nyl. in *Bull. of the Torrey Bot. Club* 1889, p. 103, et *Lich. ins. Guin.* p. 51, ubi definitur. = In America septentrionali calida (Florida).

3045. **A. violascens** Flot., Nyl. *Enum. Lich.* p. 133. « Thallus tenuis, albidus, opacus, subleprosus. Apothecia medioeria, nigra vel violaceo-nigra, opaca, innata, rotundato-diformia, sæpe confluentia vel semel aut bis rimose disrupta, plana, interdum fere in lineam rimis ita disruptam confluentia, intus concoloria; sporæ 8<sup>næ</sup> incolores, ellipsoideæ, murali-divisæ, longit. 0,046-66 et crass. 0,024-28 millim. Thalamium lamina tenui nonnihil rufescens; iodo gelatina hymenialis intensive cœrulescens, dein vinose obscure rubescens. » = In Africa meridionali (promont. Bonæ Spei, ubi est corticola ex herb. Hooker).

— Var. **subcinerascens** Nyl. in litt. « Thallus albus vel albidus, tenuis, sat determinatus. Apothecia nonnihil cinerascens-suffusa, margine thallino discisso cincta; sporæ minus divisæ 7-septatæ et parce longitrorsum divisæ, longit. 0,032-36 et crass. 0,013-15 millim. Iodo gelatina hymenialis vinose rubens, præcedente cœrulescentia. » = In America septentrionali (Ohio, lecta a Lea ex herb. Hooker).

3046. **A. angulata** Fée *Essai Supplém.* p. 39, Nyl. *Enum. Lich.* p. 133; *A. polymorpha* Eschw. *Fl. brasil.* p. 111, Nyl. *Syn. Arthon.* p. 94, e dictis in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>a</sup> p. 104. = In America tropica (Guyana; Brasilia).

3047. **A. platygraphidea** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>e</sup> p. 104 in notulis, ubi definitur. = In America tropica (Mexico).

3048. **A. stictica** Nyl. *Enum. Lich.* p. 133. — *Lecidea stictica* Fée *Essai Supplém.* p. 103. « Thallus cinerascens vel cinereo-virescens, tenuis, determinatus. Apothecia medioeria, latit. fere 1 millim. interdum attingentia, nigra, rotundata, plana, convexiuscula, passim oblonga, intus concoloria; sporæ 8<sup>næ</sup>, demum infuscatæ, oblongæ, utroque apice paulum angustatæ, 9-septatæ, longit. 0,060-75 et crass. 0,020-25 millim. Iodo gelatina hymenialis intense cœrulescens. Facie *A. microspermæ* Nyl., sed revera affinis *A. angulata* Fée. » = In America tropica (ins. Antillis, supra corticem *Exostemmatidis floribundæ* ex herb. Fée).

3049. **A. macrotheca** Fée *Essai Supplém.* p. 42, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>a</sup> p. 104, ubi sporæ definiuntur; *Enum. Lich.* p. 133; *A. rugosa* Fée *Essai* p. 56, sed non *A. polymorpha* Eschw., ut perperam indicatur in *Lich. exot.* p. 231. = In America tropica (Nova Granata; Peruvia).

3050. **A. mesoleuca** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>a</sup> p. 104 in notulis, ubi definitur. = In America tropica (Mexico).

3051. **A. cyrtodes** Nyl. in *Flora* 1866, p. 293, ubi sporæ definiuntur; Will. *Syn. Arthon.* p. 50. — *Lecidea cyrtodes* Tuck. pr. p., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 66 in notula, ubi definitur. = In America tropica (ins. Cuba; ins. Guadalupa, *Lich. Antill.* p. 17, ubi sporæ definiuntur).

3052. **A. distendens** Nyl. in *Flora* 1866, p. 293, et 1883, p. 312, ubi definitur; Will. *Syn. Arthon.* p. 50. — *Lecidea cyrtodes* Tuck. pr. p., Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 66 in notula. = In America tropica (ins. Cuba). Hæc *Arthonia* atque præcedens sunt fere *Lecidæ*.

3053. **A. spilomatoides** Nyl. *Addit. Fl. chil.* p. 169, ubi definitur; *Syn. Arthon.* p. 94; *Enum. Lich.* p. 133. = In America meridionali (Chili).

3054. **A. moniliformis** Fée in herb., Nyl. *Lich. exot.* p. 231; *Prodr. Fl. N. Gran.*

*Addit.* p. 573; *Enum. Lich.* p. 133. — *Coniocarpon caribæum* Fée *Essai* p. 99 et *Supplém.* p. 94. = In America tropica (Peruvia).

10. — Stirps *Arthoniæ polymorphæ* Ach.

Sporæ 3-5-septatæ, incolores vel aliquando fuscescentes.

3055. **Arthonia polymorpha** Ach. *Syn. Lich.* p. 7, *Nyl. Lich. N. Zeland.* 1888, p. 112, ubi pr. p. definitur; *A. dilatata* Fée *Essai* p. 54, tab. XIII, fig. 7, et *Supplém.* p. 38, tab. XL Arthon. fig. 9, *Nyl. Syn. Arthon.* p. 94 et *Enum. Lich.* p. 133. = In America tropica (Antillis).

3056. **A. meizomorpha** *Nyl. Lich. N. Zeland.* 1888, p. 122, ubi definitur pr. p.; *A. polymorpha* *Nyl. Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>a</sup> p. 105, ubi definitur. = In America tropica (Nova Granata). — Etiam in Europa (Lusitania).

3057. **A. peraffinis** *Nyl. Lich. N. Caled. Exposit.* p. 51 et *Syn.* p. 63, *Lich. N. Zeland.* 1888, p. 122 et fig. 7, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia; Nova Zelandia).

3058. **A. dispartibilis** *Nyl.* in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

3059. **A. oxytera** *Nyl. Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 69 et ed. 2<sup>a</sup> p. 105 in notulis, ubi definitur. = In America tropica (Mexico).

3060. **A. polymorphoides** *Nyl.* apud Croub. *Challeng. Exped.* p. 216, ubi definitur. = In America septentrionali (ins. Bermudis).

3061. **A. complanata** Fée *Essai* p. 54 et *Supplém.* p. 39, tab. XL Arthon. fig. 10, *Nyl. Addit. Fl. chil.* p. 171 et *Lich. Antill.* p. 18, ubi definitur; *Enum. Lich.* p. 133. In *Syn. Arthon.* p. 95 datur ut var. *A. melanophthalmæ* Duf.; *A. subrotunda* Fée *Essai Supplém.* p. 39 et tab. XL Arthon. fig. 10 bis. = In America tropica (ins. Guadalupa; Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 70 et ed. 2<sup>a</sup> p. 106, ubi sporæ definiuntur; Peruvia, *Lich. exot.* p. 231) et meridionali (Chili).

3062. \* **A. excedens** *Nyl. Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 70, ed. 2<sup>a</sup> p. 106 et *Addit.* p. 573, ubi definitur. = In America tropica (Nova Granata) — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 258, et 1888, p. 121, ubi apothecia et sporæ definiuntur).

3063. **A. subexcedens** *Nyl.* in *Flora* 1879, p. 221, ubi definitur. = In America tropica (ins. Cuba, *Flora* 1886, p. 404) et antarctica (Fuegia, *Lich. Fueg.* p. 18). — Etiam in Europa (Hibernia).

3064. **A. complanatulula** *Nyl.*, *Nyl.* et Croub. *Lich. East. Asia* p. 59, ubi definitur. = In Asia orientali (Malacca). — In Oceania (ins. Labuan, legit Almqvist, *Nyl.* in litt.)

3065. **A. melanophthalma** Duf., *Nyl. Syn. Arthon.* p. 94 et *Lich. Algér.* p. 336, ubi definitur; *Enum. Lich.* p. 133, non *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 70 et ed. 2<sup>a</sup> p. 106, quæ species est *A. astroidea* Ach. = In Africa boreali (Algeria, *Prodr. Lich. Gall.* p. 166). — Etiam in Europa meridionali.

3066. **A. palmicola** Ach. *Syn. Lich.* p. 5, *Nyl.* in *Flora* 1876, p. 284, et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71 et ed. 2<sup>a</sup> p. 107, ubi definitur. In *Syn. Arthon.* p. 95 cum *A. complanata* Fée jungitur. = In Africa boreali (Ægypto). — In America antarctica (Staten Island, *Lich. Fueg.* p. 18, ubi sporæ definiuntur).

3067. **A. dendritella** *Nyl.* apud Croub. *Ins. Rodrig.* p. 443, ubi definitur. = In Africa orientali (ins. Rodriguez).

3068. **A. propinqua** *Nyl. Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 70 et ed. 2<sup>a</sup> p. 106, ubi definitur; *Enum. Lich.* p. 133. = In Asia meridionali (ins. Ceylonia). = In Africa occidentali (Guinea). — In Oceania (Australia, *Flora* 1886, p. 326, ubi sporæ definiuntur).

3069. **A. analogella** *Nyl. Prodr. Fl. N. Gran. Addit.* p. 573, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).



3070. **Arthonia septiseptella** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).  
 3071. **A. phæonephela** Nyl. *Syn. Lich. N. Caled.* p. 62, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).  
 3072. **A. miserula** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 70 et ed. 2<sup>a</sup> p. 106, ubi definitur. = In America tropica (Nova Granata).  
 3073. **A. pruinosula** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 575, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).  
 3074. **A. microspermoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 70 et ed. 2<sup>a</sup> p. 107 in notulis, ubi definitur. = In Oceania (ins. Java).  
 3075. **A. paralia** Nyl. in *Flora* 1877, p. 565, ubi definitur. = In America septentrionali, *Flora* 1885, p. 449. — Etiam in Europa (Hibernia).

11. — Stirps *Arthoniæ astroideæ* Ach.

Sporæ ovoideæ 3-raro 4-5-septatæ.

3076. **A. astroidea** Ach. *Syn. Lich.* p. 6, Nyl. *Syn. Arthon.* p. 95 et *Lich. Scand.* p. 259, ubi definitur; *Enum. Lich.* p. 133. = In America boreali et tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 573, ubi dicitur *Arthonia* quæ ibid. ed. 1<sup>a</sup> p. 70 et ed. 2<sup>a</sup> p. 106 *A. melanophthalma* Duf. vocatur, esse *A. astroidea* Ach.; in his tribus locis definitur). — In Oceania (Australia, *Flora* 1886, p. 326). — Etiam in Europa.  
 — **F. radiata** Ach., Nyl. *Lich. Algér.* p. 315. — *Opegrapha radiata* Pers. = In Africa boreali (Algeria).  
 — Var. 1. **Swartziana** Nyl. *Lich. Algér.* p. 337, *Lich. exot.* p. 245 et *Lich. Scand.* p. 259, ubi definitur; *Enum. Lich.* p. 133; *A. Swartziana* Ach. *Syn. Lich.* p. 5. = In Asia meridionali (Calcutta, *Flora* 1867, p. 8). — In Oceania (ins. Sandwich). — Etiam in Europa.  
 — Var. 2. **melanosticta** (Del.) Nyl. *Enum. Lich.* p. 133. = In Asia occidentali (Arabia).  
 3077. **A. xylographica** Nyl. in *Flora* 1885, p. 312, ubi definitur. = In America septentrionali (New Bedford).  
 3078. **A. subastroidella** Nyl. in *Flora* 1885, p. 312, ubi definitur. = In America septentrionali (New Bedford).  
 3079. **A. quintaria** Nyl. in *Flora* 1885, p. 312, ubi definitur. = In America septentrionali (Nova Cæsarea).  
 3080. **A. subastroidea** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).  
 3081. **A. Hamamelidis** Nyl. in *Flora* 1885, p. 447, ubi definitur. = In America septentrionali (New Bedford).  
 3082. **A. turbatula** Nyl. *Lich. Fueg.* p. 18, ubi definitur. = In America antarctica (Fuegia).  
 3083. **A. subvelata** Nyl. in *Flora* 1869, p. 71, ubi definitur. = In Asia meridionali (Bengalia).  
 3084. **A. phylloica** Nyl. apud Cromb. *Ins. Rodrig.* p. 443, ubi definitur. = In Africa orientali (ins. Rodriguez).  
 3085. **A. subgyrosa** Nyl. in *Flora* 1869, p. 72, ubi definitur. = In Asia meridionali (Bengalia).  
 3086. **A. ramosula** Nyl. *Addit. Fl. chil.* p. 170, *Lich. Algér.* p. 335 et *Prodr. Lich. Gall.* p. 167, ubi definitur; *Syn. Arthon.* p. 97; *Enum. Lich.* p. 133. = In Africa boreali

(Algeria). — In America septentrionali, *Enum. Lich. Supplém.* p. 337, et meridionali (Chili).

3087. **Arthonia fusco-nigra** Nyl. *Lich. exot.* p. 245 et *Lich. Andam.* p. 15, ubi definitur. = In Oceania (ins. Taiti; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 121, ubi etiam definitur).

3088. **A. bessalis** Nyl. *Lich. Andam.* p. 15, ubi definitur. = In Asia meridionali (ins. Andaman). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 12 et *Lich. ins. Guin.* p. 33, ubi sporæ definiuntur).

3089. **A. hapaliza** Nyl. *Addit. Fl. chil.* p. 172, ubi definitur; *Syn. Arth.* p. 96; *Enum. Lich.* p. 133. = In America meridionali (Chili).

3090. **A. torulosa** Fée *Essai* p. 53, tab. XXIV, fig. 4, et *Supplém.* p. 41, tab. XL Arthon. fig. 13 bis, Nyl. in *Flora* 1865, p. 605, ubi sporæ definiuntur; *Enum. Lich.* p. 133. = In America tropica.

3091. **A. indistincta** Nyl. *Lich. N. Zeland.* 1888, p. 120, ubi definitur. = In Oceania (Nova Zelandia).

3092. **A. variiformis** Nyl. *Lich. algeriens* p. 318, *Lich. Algér.* p. 336 et *Prodr. Lich. Gall.* p. 167, ubi definitur; *Syn. Arthon.* p. 98; *Enum. Lich.* p. 133. = In Africa boreali (Algeria).

3093. **A. albo-pulverea** Nyl. *Lich. algeriens* p. 319, *Lich. Algér.* p. 336 et *Prodr. Lich. Gall.* p. 167, ubi definitur; *Syn. Arthon.* et *Enum. Lich.* locis citat. = In Africa boreali (Algeria).

3094. **A. platygraphella** Nyl. *Lich. N. Zeland.* 1861, p. 258, et 1888, p. 120, ubi definitur; in *Flora* 1865, p. 337 in notula. = In Oceania (Nova Zelandia).

3095. **A. circumalbicans** Nyl. in *Flora* 1867, p. 7, et *Syn. Lich. N. Caled.* p. 62, ubi definitur; in *Flora* 1867, p. 196. = In Asia meridionali (Calcutta). — In Oceania (Nova Caledonia).

3096. **A. epiodes** Nyl. *Lich. N. Zeland.* 1888, p. 121, ubi definitur. = In Oceania (Nova Zelandia).

3097. **A. extenuescens** Nyl. *Lich. Jap.* p. 112, ubi definitur; apothecia stigmatidioidea. = In Oceania (ins. Labuan).

3098. **A. stictoides** Desmaz., Nyl. *Syn. Arth.* p. 97, *Lich. Algér.* p. 336 et *Prodr. Lich. Gall.* p. 167, ubi definitur; *Enum. Lich.* p. 133 et *Supplém.* p. 337. = In America antarctica (Botany Bay, *Lich. N. Zeland.* 1861, p. 258 in notula, et 1888, p. 120). — Etiam in Europa (Gallia).

3099. **A. lactea** Nyl. in litt. — *Chiodecton lacteum* Fée *Essai Supplém.* p. 51; Nyl. *Enum. Lich.* p. 135. = In America tropica.

3100. **A. lecideella** Nyl. *Enum. Lich. Supplém.* p. 337. « Thallus tenuis, dilute flavidus. Apothecia nudiuscula aut cæcio-suffusa, nigra, rotundata; sporæ oblongæ, 3-septatæ, longit. 0,017-20 et crass. 0,005-6 millim. Iodo gelatina hymenialis vinose rubens. » = In America septentrionali (Nova Anglia).

#### 12. — Stirps *Arthoniæ punctiformis* Ach.

Sporæ ovoideæ 3-septatæ.

3101. **A. punctiformis** Ach. *Syn. Lich.* p. 4, Nyl. *Syn. Arthon.* p. 99 et *Lich. Scand.* p. 260, ubi definitur; *Enum. Lich.* p. 133. = In Asia orientali (Japonia, Nyl. et Cromb. *Lich. East. Asia* p. 68 et *Lich. Jap.* p. 86). — Etiam in Europa.

— F. **subeminula** Nyl. in *Flora* 1876, p. 284, ubi definitur. = In America boreali (Ægypto).

3102. **Arthonia pertabescens** Nyl. *Lich. Jap.* p. 85, ubi definitur. = In Asia orientali (Japonia).

3103. **A. tædiosula** Nyl. *Lich. Jap.* p. 85, ubi definitur. = In Asia orientali (Japonia).

3104. **A. varians** Nyl. *Lich. Scand.* p. 260, ubi definitur. — *Lichen varians* Dav. — *Arthonia glaucomaria* Nyl. in *Syn. Arthon.* p. 98 definita et *A. parasemoides* Nyl. in *Syn. Arthon.* loc. citat. et in *Lich. Algér.* p. 330 æque ac in *Prodr. Lich. Gall.* p. 168 definita; utraque in *Enum. Lich.* p. 133. = In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 216). — Etiam in Europa.

3105. **A. hibernica** Nyl. in *Flora* 1876, p. 237, ubi definitur; in *Flora* 1885, p. 449. = In America boreali (New York, Massachusetts, Illinois et Florida, Will. *Syn. Arthon.* p. 30). — Etiam in Europa (Hibernia).

3106. **A. abrothallina** Nyl. *Syn. Arthon.* p. 99 et *Enum. Lich.* p. 133. = In America antarctica (ins. Maclovianis, ubi viget super thallum *Stictæ d'Urvillei* Del.).

### 13. — Stirps *Arthoniæ dispersæ* Nyl.

Sporæ 4-septatæ.

3107. **A. dispersa** Nyl. *Lich. Scand.* p. 261, ubi definitur; *A. minutula* Nyl. *Syn. Arthon.* p. 102 et *Prodr. Lich. Gall.* p. 169, ubi definitur; *Enum. Lich.* p. 133. — *Opegrapha dispersa* Schrad. = In Oceania (Nova Zelandia?). — Etiam in Europa.

3108. **A. subminutula** Nyl. in *Flora* 1885, p. 312, ubi definitur. = In America septentrionali (New Bedford).

3109. **A. dispersula** Nyl. in *Flora* 1876, p. 285, ubi definitur; *A. Austini* Willey *Syn. Arthon.* p. 3, Nyl. *Lich. Jap.* p. 108, ubi denuo definitur. = In Africa boreali (Ægypto). — In America septentrionali calida (Florida).

3110. **A. subdispersa** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

3111. **A. subdispersula** Nyl. *Lich. N. Zeland.* 1888, p. 148, ubi definitur. = In America tropica (ins. Cuba).

3112. **A. ochrodiscodes** Nyl. *Lich. Jap.* p. 107, ubi definitur; epithecium K purpurascit; species peculiaris, fere *Melaspilea*. = In America septentrionali calida (Florida).

3113. **A. tædescens** Nyl. apud Willey *Syn. Arthon.* p. 30. = In America septentrionali calida (Florida).

3114. **A. pandanicola** Nyl. *Lich. exot.* p. 246, ubi definitur; *Syn. Arthon.* p. 103; *Enum. Lich.* p. 134. Ab hac specie non differt *A. Pandani* Nyl. *Lich. îles Marquis.* p. 302, Nyl. in litt. = In Oceania (ins. Nukahiva).

### Subgen. II. — *Allarthonia* Nyl.

Species in quarum thallo viridia gonidia simplicia seu haplogonidia reperiuntur.

3115. **A. mediella** Nyl. *Lich. Scand.* p. 259, ubi definitur; *A. trabinella* Th. Fr., Nyl. in *Flora* 1861, p. 372. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 67 et 68 in notula). — Etiam in Europa.

3116. **A. microsperma** Nyl. *Enum. Lich.* p. 133. — *Lecidea complanata* Fée *Essai* p. 112 et *Supplém.* p. 103; sporæ 4-septatæ long. 0,009-14 et crass. 0,0035-45 millim. = In America tropica.

3117. **A. biseptella** Nyl. apud Willey *Syn. Arthon.* p. 29. « Thallus macula alba vel albida, nigricanti-limitata indicatus. Apothecia nigra, parva, subangulosa vel astroideo-difformia, plana; sporæ 8<sup>næ</sup> incolores, oviformes, vulgo bi-septatæ (mixtis 4-septatis),



longit. 0,011-12 et crass. 0,0043-50 millim. Iodo gelatina hymenialis saltem sordide vinose rubens. Affinis *A. microspermæ* Nyl. quæ sporis 1-septatis mox differt. » = In Asia orientali (ins. Ogassawara, olim Bonin vel Mou-nin, supra corticem lævem, et non in ins. Cuba Americæ tropicæ, ut errore indicatur in Willey *Syn. Arthon.* p. 29).

3118. **Arthonia myriadea** Nyl. *Syn. Arthon.* p. 101 et *Enum. Lich.* p. 134. — *Coniocarpon myriadeum* Fée *Essai* p. 99, tab. XV, fig. 5, et *Supplém.* p. 94. = In America tropica, ad corticem Crotonis Cascarillæ.

3119. **A. patellulata** Nyl. *Syn. Arthon.* p. 102 et *Lich. Scand.* p. 262, ubi definitur; *Enum. Lich.* p. 134. = In Europa.

— **F. subpallidiuscula** Nyl. in *Flora* 1885, p. 448, ubi definitur. = In America septentrionali (New Bedford).

3120. **A. alexandrina** Nyl. in *Flora* 1876, p. 285, ubi definitur. = In Africa boreali (Ægypto).

3121. **A. stictaria** Nyl. in *Flora* 1867, p. 440, et *Lich. N. Zeland.* 1888, p. 123, ubi definitur; *Conspect. Stict.* p. 8 in notula. Obvenit supra thallum *Stictæ auratæ* Ach. = In Africa occidentali (ins. Madera). — In Oceania (Nova Zelandia).

3122. **A. subconveniens** Nyl. in *Flora* 1867, p. 440, et *Lich. N. Zeland.* 1888, p. 123, ubi sporæ definiuntur. = In America tropica (Brasilia, ubi reperitur supra thallum *Ricasoliæ dissectæ* Nyl. *Conspect. Stict.* p. 8 in notula).

3123. **A. subminutissima** Nyl. in *Flora* 1885, p. 448, ubi definitur. = In America septentrionali (New Bedford).

3124. **A. terrigena** Willey *Syn. Arthon.* p. 35; Nyl. in *Flora* 1885, p. 448, ubi definitur. = In America septentrionali (New Bedford).

Gen. CXV. — MELASPILEA Nyl.

3125. **M. Esenbeckiana** Nyl. *Enum. Lich.* p. 134. — *Melanotheca Esenbeckiana* Fée *Essai Cryptog. écorc. exot. officin. Supplém.* p. 71, tab. XXXVI, fig. 14. = In America tropica (India Occidentali).

3126. **M. bifurca** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 112, ubi definitur; *Enum. Lich.* p. 134. = In America tropica.

3127. **M. angulosa** Nyl. *Enum. Lich.* p. 134. « Thallus albidus vel roseo-albidus, tenuis, effusus vel subdeterminatus. Apothecia nigra, adpressa, plana, anguloso-diformia, interdum triangularia, margine attenuato plus minusve distincto, intus nigricantia; sporæ 8<sup>næ</sup>, incolores vel fuscæ, uni-septatæ, longit. 0,019-21 et crass. 0,008-16 millim.; paraphyses graciles non confertæ; hypothecium dilute fuscum. Iodo gelatina hymenialis non colorata. Facie omnino *Arthoniæ* cujusdam; affinis *M. bifurcæ* Nyl. » = In America tropica (Brasilia, super corticem, ex herb. Lenormand).

3128. **M. deformis** Nyl. *Prodr. Lich. Gall.* p. 170, ubi definitur; *Enum. Lich.* p. 134. — *Opegrapha varia* var. *deformis* Schær. — *Melanotheca deformis* Nyl. *Syn. Arthon.* p. 88 in notula. = In America septentrionali (ins. Sti Petri). — Etiam in Europa.

3129. **M. arthonioides** Nyl. *Prodr. Lich. Gall.* p. 170, ubi definitur; *Enum. Lich.* p. 134. — *Lecidea arthonioides* Fée *Essai* p. 107, tab. XVI, fig. 6, et *Supplém.* p. 103. — *Patellaria mixta* Nyl. *Lich. Algér.* p. 344, ubi definitur. — *Melanotheca arthonioides* Nyl. *Syn. Arthon.* p. 88 in notula. = In Africa boreali (Algeria) — In America, ubi late distribuitur, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 112 in notula. — Etiam in Europa.

— **F. Sprengelii** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 112 in notula. — *Gyalecta Sprengelii* Ach. in herb. — *Lecanactis urceolata* Fr. *Lichenogr. europ. reform.* p. 376, ubi hæc species Europæ immerito tribuitur. = In America.

3130. **Melaspilea opegraphoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 et ed. 2<sup>a</sup> p. 111, ubi definitur. = In America tropica (ins. Cuba, *Flora* 1886, p. 104; Nova Granata).
3131. **M. gemella** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 576 in notula et *Lich. Jap.* p. 86, ubi definitur. — *Graphis scaphella* var. *gemella* Eschw. *Fl. brasil.* p. 90. = In Asia orientali (Japonia). — In America septentrionali (Carolina septentrionali) et tropica (Brasilia). — In Oceania (ins. Labuan, *Lich. Jap.* p. 112, ubi sporæ definiuntur).
3132. **M. Comma** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 112, ubi definitur. — *Opegrapha Comma* Ach. *Syn. Lich.* p. 73 pr. p. = In Africa et in America ex Achario.
3133. **M. commatodes** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
3134. **M. viridicans** Nyl. in *Flora* 1866, p. 134, ubi definitur. = In Oceania (ins. Java).
3135. **M. myriostigma** Nyl. in *Flora* 1866, p. 134, ubi definitur. = In Oceania (ins. Java).
3136. **M. microspilota** Nyl. *Syn. Lich. N. Caled.* p. 68, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).
3137. **M. metabola** Nyl. *Lich. Andam.* p. 18 et *Syn. Lich. N. Caled.* p. 69, ubi definitur; in *Flora* 1867, p. 196; thallus K flavescit. = In Asia meridionali (ins. Andaman). — In Oceania (Nova Caledonia; Nova Zelandia, *Lich. N. Zeland.* 1888, p. 124, ubi sporæ definiuntur).
3138. **M. circumserpens** Nyl. apud Cromb. *Austral. Lich.* p. 401, ubi definitur. = In Oceania (Australia).
3139. **M. lobulata** Nyl. *Lich. N. Zeland.* 1888, p. 124, ubi definitur. — *Arthonia lobulata* Knight et Mitten. = In Oceania (Nova Zelandia).
- M. poetarum* Nyl. in *Flora* 1869, p. 85, *Opegrapha poetarum* de Notar., est revera *Hysterium*, ut dicitur in *Flora* 1864, p. 491.

## Gen. CXVI. — SCHIZOGRAPHIA Nyl.

3140. **S. attenuata** Nyl. *Enum. Lich.* p. 134. — *Xylographa attenuata* Dar. et Lév. — *Mycoporum attenuatum* Nyl. *Prodr. Lich. Gall.* p. 171, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa (ins. Corsica, Stizenb. *Lichen. afric.* p. 203).

Subtrib. II. — **Syngraphidei** (*Apothecia composita*).

## Gen. CXVII. — GLYPHUS Ach.

3141. **G. torquescens** Nyl. *Lich. Jap.* p. 114, ubi definitur. = In Oceania (ins. Labuan).
3142. **G. heteroclita** Mont. *Plant. cellul. exot.* III Cent. n° 100, in *Annal. Scienc. nat.* janv. 1843, et *Cryptog. guyan.* p. 61; Nyl. *Lich. Jap.* p. 114, ubi spermatia definiuntur; *Enum. Lich.* p. 134; *Gl. Leprieurii* Mont. in *Annal. Scienc. nat.* 3<sup>e</sup> série, t. XVI, p. 79, *Plant. Junghuhn.* p. 490 et *Syllog.* p. 355. Thallus K vel stroma K lutescunt et dein subferruginascunt. = In America tropica (Guyana). — In Oceania (ins. Java, *Flora* 1886, p. 134).
3143. \* **G. labuana** Nyl. *Lich. Jap.* p. 115, ubi definitur; thallus K lutescit. = In Oceania (ins. Labuan).
3144. **G. labyrinthica** Ach. *Syn. Lich.* p. 107, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71, ed. 2<sup>a</sup> p. 107 et *Addit.* p. 573, ubi sporæ definiuntur; *Enum. Lich.* p. 134; stroma K flavescit. = In omnibus terris tropicis. In Asia orientali (Singapoure, Nyl. et Cromb, *Lich. East.*

*Asia* p. 59). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261) et occidentali (Guinea, ex Achario; ins. San Thomé, *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 11 et *Lich. ins. Guin.* p. 32). — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata; Peruvia, *Lich. exot.* p. 231). — In Oceania (ins. Labuan, *Lich. Jap.* p. 114; ins. Java, *Flora* 1866, p. 134).

3145. **Glyphis actinobola** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71 et ed. 2<sup>a</sup> p. 108, ubi definitur. = In America tropica (Nova Granata).

3146. **G. medusulina** Nyl. *Prodr. Fl. N. Gran.* locis citat. et *Syn. Lich. N. Caled.* p. 83, ubi definitur. = In America tropica (Nova Granata). — In Oceania (Nova Caledonia).

3147. **G. cicatricosa** Ach. *Syn. Lich.* p. 107, Nyl. *Addit. Fl. chil.* p. 173 et *Syn. Lich. N. Caled.* p. 82, ubi definitur; *Enum. Lich.* p. 134. = In omnibus terris tropicis. In Asia orientali (Singapoure et China, Nyl. et Cromb. *Lich. East. Asia* pp. 59 et 65) et meridionali (Calcutta, *Flora* 1867, p. 8, ubi sporæ definiuntur). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261). — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71 et ed. 2<sup>a</sup> p. 108, ubi sporæ definiuntur; Peruvia, *Lich. exot.* p. 231) et meridionali (Chili). — In Oceania (ins. Labuan, *Lich. Jap.* p. 114, ubi sporæ definiuntur; ins. Nukahiva, *Lich. exot.* p. 246 et *Lich. îles Marquis.* p. 302; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 52 et *Flora* 1867, p. 196). — Errore indicatur in Europa a divo Montagne, Nyl. *Prodr. Lich. Gall.* p. 172 in notula.

3148. **G. favulosa** Ach. *Syn. Lich.* p. 107, Nyl. *Enum. Lich.* p. 134; *Gl. cicatricosa* var. *favulosa* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71 et ed. 2<sup>a</sup> p. 108, æque ac *Lich. Antill.* p. 21, ubi definitur. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 65) et meridionali (Calcutta, *Flora* 1867, p. 8). — In America tropica (Mexico, *Flora* 1858, p. 381; ins. Guadalupa; Nova Granata). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196). — Etiam in Europa (Lusitania, *Prodr. Lich. Gall.* p. 172 in notula).

3149. **G. confluens** Mont. *Cryptog. guyan.* p. 61, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71 et 2<sup>a</sup> p. 109, ubi sporæ definiuntur. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 14). — In America tropica (Guyana; Nova Granata).

— **F. analoga** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 573, ubi sporæ definiuntur. = In America tropica (Nova Granata).

3150. **G. sericea** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 573, ubi pr. p. definitur. — *Leio-gramma sericeum* Eschw. *Fl. brasil.* p. 99. = In America tropica (Brasilia).

3151. **G. tricosula** Nyl. apud Cromb. *Ins. Rodrig.* p. 444, ubi definitur. = In Africa orientali (ins. Rodriguez).

3152. **G. circumplexa** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 59, ubi definitur. = In Asia orientali (Singapoure).

#### Gen. CXVIII. — CHIODECTON Ach.

3153. **C. cerebriforme** Mont. *Sylog.* p. 356, Nyl. *Addit. Fl. chil.* p. 173 et *Lich. Fueg.* p. 17, ubi definitur; *Enum. Lich.* p. 134; thallus K lutescit. = In America meridionali (Chili) et antarctica (Patagonia).

3154. **C. stalactinum** Nyl. *Addit. Fl. chil.* p. 173, ubi definitur; *Enum. Lich.* p. 134. = In America meridionali (Chili).

3155. **C. hypoleucum** Nyl. *Addit. Fl. chil.* p. 172, ubi definitur; *Enum. Lich.* p. 134. = In America meridionali (Chili).

3156. **C. perplexum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71, tab. II, fig. 51, ed. 2<sup>a</sup> p. 109 et *Addit.* p. 574, æque ac in *Flora* 1866, p. 294, ubi definitur; thallus CaCl erythri-



nose tingitur. = In America tropica (Nova Granata, sed ad hanc speciem pertinent tantum in collect. Lindig n<sup>i</sup> 2577 e Choachi et 2578 nec non 309 e Tequendama).

— Var. **pelinum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 72 et ed. 2<sup>a</sup> p. 109, ubi definitur, *Addit.* p. 574. = In America tropica (Nova Granata).

3157. **Chiodecton farinaceum** Fée *Essai Supplém.* p. 50 et *Monogr.* tab. II. fig. 3, Nyl. in *Flora* 1866 p. 134 et *Prodr. Fl. N. Gran. Addit.* p. 574, ubi definitur; *Enum. Lich.* p. 135; *C. perplexum* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 71, ed. 2<sup>a</sup> p. 109 et *Addit.* p. 574, in collect. Lindig n<sup>us</sup> 2630 e Bogota et var. *cæsium* Nyl. ibid. definita e La Mesa n<sup>us</sup> 743; thallus CaCl —. = In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 232).

— Var. **subfibrosum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 574, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

3158. \***C. decussans** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 574, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

3159. \*\***C. glaucoleucum** Nyl. in *Flora* 1866, p. 294, ubi definitur. = In America tropica (ins. Cuba).

3160. \*\*\***C. pterophorum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 574, ubi definitur; in *Flora* 1864, p. 618. = In America tropica ((Nova Granata).

3161. **C. effusum** Fée *Essai* p. 63, tab. XVII, fig. 4, et *Supplém.* p. 51, atque *Monogr.* tab. III, fig. 2, Nyl. *Lich. exot.* p. 232; *Enum. Lich.* p. 135; *Prodr. Fl. N. Gran. Addit.* p. 574. Vix differt a *Ch. farinaceo* Fée. = In America tropica (Peruvia).

3162. **C. confusum** Nyl. *Lich. Andam.* p. 14 in notula, ubi definitur. = In Africa orientali (ins. Mauritii).

3163. **C. inconspicuum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 72 et ed. 2<sup>a</sup> p. 109, ubi definitur. = In America tropica (Nova Granata).

3164. **C. rubro-cinctum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 72 et ed. 2<sup>a</sup> p. 110, ubi definitur; *Enum. Lich.* p. 135. — *Hypochnus rubro-cinctus* Ehrenb. = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 11 et *Lich. ins. Guin.* p. 33). — In America tropica (Mexico, *Flora* 1858, p. 381; Nova Granata; Peruvia et Bolivia, *Lich. exot.* p. 232 in notula). — In Oceania (Nova Caledonia, *Syn. Lich. N. Caled.* p. 68 in notula).

3165. **C. nigro-cinctum** Mont. *Syllog.* p. 356, Nyl. *Lich. exot.* p. 261, ubi definitur pr. p.; *Enum. Lich.* p. 135. = In Africa orientali (ins. Borbonia). — In America tropica (Guyana).

3166. **C. sphærale** Ach. *Syn. Lich.* p. 108, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 72, ed. 2<sup>a</sup> p. 110 et *Addit.* p. 575, ubi definitur; *Enum. Lich.* p. 135. = In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 176, *Contrib. da Fl. d'Afric.* p. 11 et *Lich. ins. Guin.* p. 33, ubi sporæ definiuntur). — In America tropica (Nova Granata; Peruvia, *Lich. exot.* p. 232; Brasilia, *Flora* 1869, p. 123). — In Oceania (ins. Java, *Flora* 1866, p. 134, et pro hac regione est quod a Montagne et van den Bosch *Plant. Junghuhn.* p. 488 *Ch. farinaceum* Fée perperam dicitur; Australia, *Flora* 1886, p. 326, ubi sporæ definiuntur).

3167. **C. subordinatum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 574, ubi definitur; *Ch. subseriatum* Nyl. in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

3168. **C. submoniliforme** Nyl. *Lich. N. Zeland.* 1888, p. 117, ubi definitur. = In Oceania (Nova Zelandia).

3169. **C. hypochnoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 et ed. 2<sup>a</sup> p. 111, ubi definitur. = In America tropica (Nova Granata).

3170. **C. heterotropum** Nyl. in *Flora* 1867, p. 8, et *Syn. Lich. N. Caled.* p. 68, ubi definitur; thallus CaCl erythrinose tingitur. = In Asia meridionali (Calcutta). — In Oceania (ins. Java; Nova Caledonia, *Flora* 1867, p. 196).

3171. **Chiodecton heterotropoides** Nyl. *Mexic. Plant.* p. 6, ubi definitur. = In America tropica (Mexico).
3172. **C. congestulum** Nyl. *Syn. Lich. N. Caled.* p. 67, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Australia; Nova Caledonia).
3173. **C. subsphærale** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 59, ubi definitur. = In Asia orientali (Malacca).
3174. **C. natalense** Nyl. *Lich. Port Natal* p. 13, ubi definitur. = In Africa meridionali (Portu Natali).
3175. **C. Meratii** Fée *Essai* p. 64, tab. XVII, fig. 3, et *Supplém.* p. 52 atque *Monogr.* tab. III, fig. 4, Nyl. *Lich. exot.* p. 232, ubi definitur pr. p.; *Enum. Lich.* p. 135. = In America tropica.
3176. **C. arthonioides** Nyl. *Lich. exot.* p. 232, ubi apothecia definiuntur; *Ch. depressum* Fée *Essai* p. 65, tab. XVII, fig. 2, et *Supplém.* fig. 54, Nyl. *Lich. Andam.* p. 14 in notula. — *Arthonia glyphisoides* Fée *Essai Supplém.* p. 40, tab. XXXVI, fig. 2. Nomen *depressum* a divo Fée datum, quamvis prioritate gaudens, non servandum censuit d<sup>r</sup> Nylander, quia, licet specimen *Ch. depressi* ab illo auctore sibi missi cum *Ch. arthonioides* quadret, figura sporarum in tab. XL, fig. 7 delineatarum a sporis hujus posterioris speciei remouetur, etenim hæ sporæ sunt 8<sup>næ</sup>, fusiformæ-bacillares, 3-septatæ, longit. 0,055-65 et crass. 0,006-7 millim., et apud Fée 7-10 septatæ effinguntur. = In America tropica (ins. Antillis, etc.).
3177. **C. seriale** Ach. *Syn. Lich.* p. 108, Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 et ed. 2<sup>a</sup> p. 110 in notulis atque *Addit.* p. 575 necnon *Syn. Lich. N. Caled.* p. 67, ubi definitur; *Enum. Lich.* p. 135. — *Trypethelium paradoxum* Ach. *Syn. Lich.* p. 106. = In America tropica (Nova Granata, *Flora* 1864, p. 618) et meridionali (Chili, *Addit. Fl. chil.* p. 186). — In Oceania (ins. Labuan, legit Almquist, Nyl. in litt.; Nova Caledonia, *Flora* 1867, p. 169).  
— **F. lineolare** Nyl. in litt. = In Oceania (ins. Labuan, legit Almquist).
3178. **C. dendrizans** Nyl. in litt. = In Asia orientali (Singapoure, legit Almquist).
3179. **C. separatum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 575, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).
3180. **C. neo-hollandicum** Nyl. *Syn. Lich. N. Caled.* p. 59 in notula, ubi definitur. = In Oceania (Australia).
3181. **C. depressulum** Nyl. *Lich. exot.* p. 246, ubi definitur; *Enum. Lich.* p. 135 et *Lich. îles Marquis.* p. 302. In *Lich. Andam.* p. 14 perperam scribitur *Ch. depressum* Nyl. = In Oceania (ins. Nukahiva).
3182. **C. intermissum** Nyl. *Lich. Andam.* p. 14, ubi definitur. = In Asia meridionali (ins. Andaman).
3183. **C. hamatum** Nyl. *Lich. N. Caled. Exposit.* p. 51 et *Syn.* p. 66, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).
3184. **C. diplosporum** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).
3185. **C. leprobum** Nyl. in *Flora* 1886, p. 104. = In America tropica (ins. Cuba).

(A suivre)

# LICHENES EXOTICOS

A PROFESSORE W. NYLANDER DESCRIPTOS VEL RECOGNITOS

ET IN HERBARIO MUSEI PARISIENSIS PRO MAXIMA PARTE ASSERVATOS  
IN ORDINE SYSTEMATICO DISPOSITOS

A. M. HUE

ROTHOMAGENSIS SACERDOS.

*Suite et fin.*

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Series IX. — PYRENODEI.

TRIB. XXXI. — PYRENOCARPEI.

Subtrib. I. — **Eupyrenocarpei.**

Sectio I. — GENERA QUORUM THALLUS EST GONIMICUS, Nyl. in *Flora* 1883, p. 449.

I. — **Corei.**

Gen. CXIX. — CORA Fr.

3186. **C. Pavonia** Fr., Nyl. *Syn.* II, p. 49 et tab. IX, fig. 33, *Addit. Fl. chil.* p. 151, *Lich. And. Boliv.* p. 382 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 113, ubi definitur; *Enum. Lich.* p. 110. — *Thelephora Pavonia* Web. — *Cora gyrolophia* Fr., Nyl. *Addit. Fl. chil.* p. 182, nam omnes *Coras* ad unam speciem jungere fas est, sicut dicitur in *Essai d'une nouv. Classif. des Lich.* (2<sup>e</sup> Mém. 1855) p. 176 in notula. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 et ed. 2<sup>a</sup> p. 113; Bolivia, ubi fertilis lecta fuit; Peruvia, *Lich. exot.* p. 218). — In Oceania (ins. Taiti, *Lich. exot.* p. 240).

II. — **Dichonemei.**

Gen. CXX. — DICHONEMA Nees.

3187. **D. sericeum** Nyl. *Syn.* II, p. 51, tab. IX, fig. 36, et *Syn. Lich. N. Caled.* p. 83, ubi definitur; *Enum. Lich.* p. 110. — *Thelephora sericea* Sw. — *Dictyonema sericeum* Berk. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 257). — In America tropica



(Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 in notula et ed. 2<sup>a</sup> p. 113; Peruvia, *Flora* 1855, p. 674, et *Lich. exot.* p. 218). — In Oceania (ins. Taïti, *Lich. exot.* p. 240; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 44 et *Flora* 1867, p. 196).

3188. **Dichonema irpicinum** Nyl. *Syn.* II, p. 51, ubi definitur; *D. sericeum* var *irpicinum* Nyl. *Syn. Lich. N. Caled.* p. 83, ubi etiam definitur. — *Dictyonema irpicinum* Mont. *Sylog.* p. 179. = In Oceania (ins. Java, *Flora* 1866, p. 131; ins. Taïti, *Lich. exot.* p. 240, ubi definitur; Nova Caledonia *Flora* 1867, p. 196).

Sectio II. — GENERA QUORUM THALLUS EST GONIDICUS VEL GONIDIMICUS.

Gen. CXXI. — THELOCARPON Nyl.

3189. **Th. majusculum** Nyl. in *Flora* 1885, p. 300, ubi definitur. = In America boreali (Illinois).

Gen. CXXII. — THELOCOCUM Nyl. in *Flora* 1873, p. 289, et 1885, p. 45.

3190. **Th. albidum** Nyl.; *Thelocarpon albidum* Nyl. *Lich. algeriens.* p. 317, *Lich. Algér.* p. 338, *Prodr. Lich. Gall.* p. 173 et *Pyrenoc.* p. 9, ubi definitur; *Enum. Lich.* p. 135. = In Africa boreali (Algeria).

Gen. CXXIII. — NORMANDINA Nyl.

3191. **N. pulchella** Nyl. *Lich. And. Boliv.* p. 382. — *Verrucaria pulchella* Borr. — *Lenormandia Jungermanniae* Del. — *Normandina Jungermanniae* Nyl. *Pyrenoc.* p. 10, *Prodr. Lich. Gall.* p. 173 et *Addit. Fl. chil.* p. 151, ubi definitur; *Enum. Lich.* p. 135. = In Asia orientali (Japonia, *Lich. Jap.* p. 88). — In Africa boreali (Algeria, *Lich. And. Boliv.* p. 367 in notula) et meridionali (Portu Natali, *Lich. Port Natal* p. 14). — In America tropica (Mexico, *Flora* 1858, p. 381, et *Mexic. Plant.* p. 6; ins. Guadalupa, *Lich. Antill.* p. 22; Nova Granata, *Flora* 1864, p. 618, sed in *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 in notula et ed. 2<sup>a</sup> p. 113 indicatur non in hac regione, sed in Mexico et in Bolivia; Bolivia, *Lich. And. Boliv.* p. 382). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 127). — Etiam in Europa.

3192. **N. viridis** Nyl. *Pyrenoc.* p. 11 et *Prodr. Lich. Gall.* p. 174, ubi definitur; *Enum. Lich.* p. 135. — *Endocarpon viride* Ach. *Syn. Lich.* p. 100. = In Asia orientali (China, prov. Yun-nan, *N. Davidis* Hue *Lich. Yunn.* II, p. 43, specimen quod cel. Nylander primum novam speciem habuerat et quod in *Lich. Jap.* p. 88 in notula ad *N. viridem* Nyl. retulit). — In America boreali. — Etiam in Europa.

Gen. CXXIV. — ENDOCARPON Hedw.

Pars I. — *Species quarum sporæ sunt simplices et incolores.*

A. — *Thallus peltatus et in plurimis umbilicato-adfixus.*

3193. **E. miniatum** Ach. *Syn. Lich.* p. 101, Nyl. *Pyrenoc.* p. 11 et *Lich. Scand.* p. 264, ubi definitur; *Enum. Lich.* p. 135. = In Africa boreali (Algeria, *Lich. Algér.* p. 316 et *Prodr. Lich. Gall.* p. 174) et in aliis regionibus. — In America boreali. — Etiam in Europa.

— Var. **complicatum** Nyl. *Pyrenoc.* et *Lich. Scand.* locis citat., ubi definitur; *Enum. Lich.* p. 135. = In Africa boreali (Algeria, *Flora* 1878, p. 345). — Etiam in Europa.

3194. \* **Endocarpon Muehlenbergii** Ach. *Syn. Lich.* p. 101, *Nyl. Pyrenoc.* p. 12, ubi definitur; *Enum. Lich.* p. 135. = In America boreali.

3195. \*\* **E. solstitiale** Hochst., *Nyl. Pyrenoc.* p. 12, vix a præcedente differt. = In Africa orientali (Abyssinia).

3196. \*\*\* **E. Manitense** Tuck., *Nyl. Pyrenoc.* p. 12, ubi definitur. = In America boreali.

3197. **E. fluviatile** DC. *Fl. fr.* II, p. 413, *Nyl. Pyrenoc.* p. 12 et *Lich. Scand.* p. 265, ubi definitur; *Enum. Lich.* p. 135. = In America boreali. — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 126). — Etiam in Europa.

3198. **E. Moulinsii** Mont. *Sylog.* p. 359, *Nyl. Pyrenoc.* p. 13 et *Prodr. Lich. Gall.* p. 175, ubi definitur; *Enum. Lich.* p. 135. = In Asia (mont. Himalaya). — In America septentrionali (Texas). — Etiam in Europa (Gallia).

3199. **E. corniculatum** *Nyl. Pyrenoc.* p. 13, ubi definitur; *Enum. Lich.* p. 135. = In Africa (Abyssinia).

3200. **E. ? fragile** Tayl., *Nyl. Pyrenoc.* p. 14, ubi definitur; *Enum. Lich.* p. 135. = In Oceania (Tasmania).

B. — *Thallus minor, plerumque totus adnatus vel saltem non umbilicato-adfixus.*

3201. **E. Tuckermani** Ravenel, *Nyl. Pyrenoc.* p. 14, ubi definitur; *Enum. Lich.* p. 135. = In America septentrionali (Carolina meridionali et Texas).

3202. **E. rufescens** Ach. *Syn. Lich.* p. 100, *Nyl. Pyrenoc.* p. 14 et *Lich. Scand.* p. 265, ubi definitur; *Enum. Lich.* p. 135. = In Africa boreali (Algeria, *Lich. Algér.* p. 316 et *Prodr. Lich. Gall.* p. 175; Ægypto, *Lich. Ægypt.* p. 75). — In America boreali, et forsitan *E. arboreum* Tuck. e Nova Anglia, ad hanc speciem pro una parte est referendum, et pro altera parte ad præcedentem pertinet. — Etiam in Europa.

3203. **E. hepaticum** Ach. *Lichenogr. univers.* p. 298, *Nyl. Pyrenoc.* p. 15, *Lich. Scand.* p. 265 et *Syn.* I, tab. I, fig. 7, ubi definitur; *Enum. Lich.* p. 135. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — In Africa boreali (Algeria, *Lich. Algér.* p. 316, *Prodr. Lich. Gall.* p. 176, et ibi etiam definitur, *Flora* 1878, p. 341; Ægypto, *Lich. Ægypt.* p. 7) et meridionali (promont. Bonæ Spei). — In America boreali. — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 127). — Etiam in Europa.

— Var. 1. **albatum** *Nyl. Pyrenoc.* p. 15; *E. albatum* Ach. *Syn. Lich.* p. 98. Est *E. hepaticum* in locis umbrosis pallidum evadens. = In Asia Minori (Syria).

— Var. 2. **lachneum** *Nyl.* in *Flora* 1878, p. 343; *E. lachneum* Ach. *Syn. Lich.* p. 99, *Nyl. Pyrenoc.* p. 15, ubi cum *E. hepatico* Ach. jungitur, et in *Flora* 1860, p. 546, ad *E. rufescens* Ach. refertur. = In Africa boreali (Algeria). — Etiam in Europa.

3204. **E. contumescens** *Nyl.* in *Flora* 1878, p. 341, ubi definitur. = In Africa boreali (Algeria).

3205. **E. rufo-pallens** *Nyl.* in *Flora* 1878, p. 343, ubi definitur. = In Africa boreali (Algeria).

3206. **E. imbricatum** *Nyl. Pyrenoc.* p. 15 et *Prodr. Lich. Gall.* p. 176, ubi definitur; *Enum. Lich.* p. 136. = In Africa boreali (Algeria). — Etiam in Europa (Gallia meridionali).

3207. **E. botularium** *Nyl.* in *Flora* 1862, p. 83, ubi definitur. = In America boreali (Groenlandia).

3208. **E. tenellum** *Nyl. Lich. algeriens.* p. 316, *Lich. Algér.* p. 339, *Prodr. Lich. Gall.* p. 176 et *Pyrenoc.* p. 16, ubi definitur; *Enum. Lich.* p. 136. = In Africa boreali (Algeria).

3209. **E. peltatum** Tayl., *Nyl. Pyrenoc.* p. 16, ubi definitur; *Enum. Lich.* p. 136. = In Africa meridionali (promont. Bonæ Spei).

3210. **Endocarpon tephroides** Ach. *Syn. Lich.* p. 98. — *Verrucaria tephroides* Nyl. *Pyrenoc.* p. 17 et *Lich. Scand.* p. 267, ubi definitur; *Enum. Lich.* p. 136. = In Asia boreali (Kony-ambay, *Lich. Fr. Behr.*, p. 25). — In America boreali. — Etiam in Europa.

3211. **E. perumbratum** Nyl. — *Verrucaria perumbrata* Nyl. in *Flora* 1878, p. 343, ubi definitur. = In Africa boreali (Algeria).

3212. **E. subcrustosum** Nyl.; *E. cinerascens* var. *subcrustosum* Nyl. *Lich. Algér.* p. 340, ubi definitur. — *Verrucaria subcrustosa* Nyl. *Pyrenoc.* p. 18 et *Prodr. Lich. Gall.* p. 178, ubi etiam definitur; *Enum. Lich.* p. 136. = In Africa boreali (Algeria) et occidentali (ins. Canariis).

3213. **E. dædaleum** Krempelb. — *Verrucaria dædalea* Nyl. *Lich. Fr. Behr.* p. 25. = In Asia boreali (Konyambay). — Etiam in Europa.

Pars II. — *Species quarum sporæ, 1-2 in thecis, sunt fuscæ vel fuscescentes et murali-divisæ; spermatia recta arthrosterigmatibus infixa.*

1. — Stirps *Endocarpi pallidi* Nyl.

3214. **E. pallidum** Ach. *Syn. Lich.* p. 100, Nyl. *Lich. Algér.* p. 339, ubi definitur; in *Flora* 1878, p. 341. — *Verrucaria pallida* Nyl. *Lich. Scand.* p. 268, *Prodr. Lich. Gall.* p. 178 et *Pyrenoc.* p. 20, ubi definitur; *Enum. Lich.* p. 136. = In Africa boreali (Algeria). — In America boreali (Nova Anglia) et tropica (Brasilia, *Lich. And. Boliv.* p. 382). — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1861, p. 259, et 1888, p. 127, ubi sporæ definiuntur). — Etiam in Europa.

3215. **E. Garovaglii** Schær. *Enum. Lich. europ.* p. 234. — *Verrucaria Garovaglii* Mont. *Sylog.* p. 367, Nyl. *Pyrenoc.* p. 20 et *Lich. Angol.* p. 519, ubi definitur; *Enum. Lich.* p. 136. = In Africa occidentali (ins. Angola). — Etiam in Europa.

3216. **E. pallidulum** Nyl. — *Verrucaria pallidula* Nyl. in *Flora* 1874, p. 73 et *Lich. Jap.* p. 88, ubi definitur. = In Asia orientali (Japonia). — In America tropica (Peruvia).

3217. **E. petrolepideum** Nyl. — *Verrucaria petrolepidea* Nyl. *Lich. Jap.* p. 88, ubi definitur. = In Asia orientali (Japonia).

2. — *Pyrenothamnia* Tuck.

3218. **E. Spraguei** Nyl. — *Pyrenothamnia Spraguei* Tuck. *Syn. North Americ. Lich.* II, p. 138. — *Verrucaria Spraguei* Nyl. *Lich. N. Zeland.* 1888, p. 151, ubi definitur. = In America boreali (Washington territorio).

Gen. CXXV. — VERRUCARIA Pers.

Subgen. I. — *Verrucaria* proprie dicta.

Apothecia pyrenio denigrata, saltem superne vel in ostiolo, raro tota pallida, adhuc rarius pyrenio modo superne rufescente; sporæ variæ. Spermatia sterigmatibus vulgo simplicibus adfixa.

I. — *Species potissime saxicolæ vel terrestres.*

1. — Stirps *Verrucariæ umbrinæ* Wahlenb.

Sporæ 1-2 in thecis, fuscescentes vel incolores, murali-divisæ; adsunt gonidimia hymenialia; paraphyses nullæ.

3219. **V. umbrina** Wahlenb., Nyl. *Pyrenoc.* p. 21 et *Lich. Scand.* p. 269, ubi definitur;



*Enum. Lich.* p. 136. = In Asia (mont. Himalaya). — In America boreali. — In Oceania (Nova Zelandia?, *Lich. N. Zeland.* 1888, p. 134). — Etiam in Europa.

— Var. **monospora** Nyl. *Addit. Fl. chil.* p. 175, ubi definitur; *Pyrenoc.* p. 21; *Enum. Lich.* p. 136. = In America meridionali (Chili).

3220. **Verrucaria discedens** Nyl. in *Flora* 1885, p. 602, et *Lich. Fr. Behr.* p. 71, ubi definitur. = In America boreali (Port-Clarence).

3221. **V. subumbrina** Nyl. *Lich. Scand.* p. 269, ubi definitur. = In America boreali (Alaska, *Lich. Fr. Behr.* p. 89, ubi sporæ definiuntur). — Etiam in Europa.

3222. **V. theleodes** Nyl. *Lich. Fr. Behr.* p. 71, ubi sporæ definiuntur; *Lich. Scand.* p. 292. — *Sporodictyon theleodes* Sommerf. = In America boreali (Port-Clarence). — Etiam in Europa.

3223. **V. diffusilis** Nyl. in *Flora* 1884, p. 217, et *Lich. Fr. Behr.* p. 41, ubi definitur. = In Asia boreali (Konyambay).

## 2. — Stirps *Verrucariæ intercedentis* Nyl.

Sporæ 8<sup>næ</sup>, incolores vel fuscae, murali-divisæ; gonidimia hymenialia in apotheciis quarundam specierum conspiciuntur; paraphyses nullæ.

3224. **V. obtenta** Nyl. in *Flora* 1885, p. 602, et *Lich. Fr. Behr.* p. 71, ubi definitur. = In America boreali (Port-Clarence).

3225. **V. intercedens** Nyl. *Pyrenoc.* p. 33, *Lich. Scand.* p. 276 et *Lich. Fr. Behr.* pp. 72 et 89, ubi definitur; *Enum. Lich.* p. 137. = In America boreali (Port-Clarence et Alaska). — Etiam in Europa.

— F. 1. **fusco-argillacea** Nyl. *Lich. Fr. Behr.* p. 42, ubi sporæ definiuntur; *V. fusco-argillacea* Anzi *Lich. rarior. Langob.* n° 368. — *Polyblastia fusco-argillacea* Anzi *Symb. Lich. rarior. Ital. superior.* p. 26. = In Asia boreali (Konyambay). — Etiam in Europa.

— F. 2. **integrascens** Nyl. *Lich. Fr. Behr.* p. 42, ubi definitur. = In Asia boreali (Konyambay).

3226. **\*V. intermedia** Nyl. *Lich. Fr. Behr.* p. 89, ubi sporæ definiuntur. — *Polyblastia intermedia* Th. Fr. *Polyblast. scandinav.* p. 24. = In America boreali (Alaska). — Etiam in Europa boreali.

3227. **V. interversa** Nyl. in *Flora* 1884, p. 217, et *Lich. Fr. Behr.* p. 40, ubi definitur. = In Asia boreali (Konyambay).

3228. **V. exalbida** Nyl. in *Flora* 1885, p. 603, et *Lich. Fr. Behr.* p. 72, ubi definitur. = In America boreali (Port-Clarence).

3229. **V. bryophila** Nyl. *Lich. Scand.* p. 292. — *Polyblastia bryophila* Lœnnr. in *Flora* 1858, p. 631. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 67, ubi definitur pro parte). — Etiam in Europa boreali.

3230. **V. lactea** Ach. *Lichenogr. univers.* p. 277; Nyl. *Lich. ins. Guin.* p. 51, ubi sporæ definiuntur. = In America septentrionali calida (Florida) et tropica (India occidentali).

3231. **V. elactescens** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 60, ubi definitur. = In Asia orientali (Malacca).

3232. **V. augescens** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 60 et Nyl. *Sert. Lichen. trop. Lab. et Singap.* (1) p. 25, ubi definitur. = In Asia orientali (Singapour).

3233. **V. nigrata** Nyl. *Prodr. Lich. Gall.* p. 184 atque *Pyrenoc.* p. 34 et *Lich. Fr. Behr.* p. 67, ubi definitur; *Enum. Lich.* p. 137; *V. gelatinosa* Nyl. *Collectan. lichenol. in*

(1) *Sertum Lichenarum tropicarum e Labuan et Singapore* conscripsit W. Nylander. Accedunt Observationes. Parisiis 1891.

*Gall. merid. et Pyren.* p. 16, non Ach. = In America boreali (Port-Clarence). — Etiam in Europa.

3234. **Verrucaria pernigrata** Nyl. in *Flora* 1885, p. 604, et *Lich. Fr. Behr.* p. 67, ubi definitur. = In America boreali (Port-Clarence).

3235. **V. hymenogonia** Nyl. *Pyrenoc.* p. 32 et in *Flora* 1881, p. 540, ubi definitur; *Enum. Lich.* p. 137. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 72). — Etiam in Europa.

3236. **V. subareolata** Nyl. in *Flora* 1884, p. 217, et *Lich. Fr. Behr.* p. 41, ubi definitur. = In Asia boreali (Konyambay).

3237. **V. extabescens** Nyl. in *Flora* 1878, p. 344, ubi definitur. = In Africa boreali (Algeria).

3238. **V. diffractella** Nyl. *Pyrenoc.* p. 33, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Nova Anglia).

3239. **V. Sendtneri** Nyl. *Pyrenoc.* p. 33, ubi definitur; *Enum. Lich.* p. 137. — *Polyblastia Sendtneri* Krempelh. in *Flora* 1855, p. 67. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — Etiam in Europa.

### 3. — Stirps *Verrucariæ pyrenophoræ* Ach.

Sporæ 8<sup>næ</sup>, incolores, 4-5 septatæ; paraphyses nullæ.

3240. **V. pyrenophora** Ach. *Syn. Lich.* p. 94, Nyl. *Pyrenoc.* p. 26 et *Lich. Scand.* p. 273, ubi definitur; *Enum. Lich.* p. 137. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 72, ubi definitur pro parte). — Etiam in Europa.

3241. **V. Sprucei** Ch. Bab., Leight. *Angiocarp. Lich.* p. 54, tab. XXIII, fig. 4-6; *V. pyrenophora* var. *Sprucei* Nyl. *Pyrenoc.* p. 27 et *Lich. Scand.* p. 273, ubi definitur; *Enum. Lich.* p. 137. = In Africa orientali (Abyssinia). — In America septentrionali. — Etiam in Europa.

3242. **V. Auruntii** Mass. *Geneac. Lich.* p. 221, Nyl. *Lich. Fr. Behr.* p. 72, ubi definitur; *V. incavata* Nyl. *Lich. Scand.* p. 273, ubi definitur. = In America boreali (Port-Clarence). — Etiam in Europa.

3243. **V. pertusura** Nyl. in *Flora* 1884, p. 218, et *Lich. Fr. Behr.* p. 41, ubi definitur. = In Asia boreali (Konyambay).

3244. **V. prævalescens** Nyl. apud Cromb. *Kerguel. land* p. 192, ubi definitur. = In Africa australi (ins. Kerguelen).

3245. **V. calcicola** Nyl. *Lich. N. Zeland.* 1888, p. 127, ubi definitur. = In Oceania (Nova Zelandia).

### 4. — Stirps *Verrucariæ nigrescentis* Pers.

Sporæ 8<sup>næ</sup>, incolores, simplices; paraphyses nullæ.

3246. **V. amphibola** Nyl. *Lich. algeriens.* p. 315, *Lich. Algér.* p. 340, *Prodr. Lich. Gall.* p. 180 et *Pyrenoc.* p. 22, ubi definitur; *Enum. Lich.* p. 136. = In Africa boreali (Algeria). — Etiam in Europa.

3247. **V. virens** Nyl. *Pyrenoc.* p. 24 et *Lich. Scand.* p. 270, ubi definitur. = In Europa.

— **F. Novæ Angliæ** Nyl. *Pyrenoc.* p. 24, ubi definitur. — *Sagedia Novæ-Angliæ* Tuck. = In America septentrionali.

3248. **V. tessellatula** Nyl. apud Cromb. *Kerguel. land.* p. 191, ubi definitur. = In Africa australi (ins. Kerguelen).

3249. **V. glaucina** Ach. *Syn. Lich.* p. 94, Nyl. in *Flora* 1881, p. 189, ubi sporæ defi-

niuntur. = In Asia orientali (China, Nyl. et Cromb. *Lich. East. Asia* p. 66). — Etiam in Europa.

3250. **Verrucaria fuscella** Ach. *Lichenogr. univers.* p. 289, Nyl. in *Flora* 1881, p. 189 et apud Hue *Addend. Lichenogr. europ.* p. 279, ubi definitur, atque *Lich. Scand.* p. 271; Hepp *Lich. europ.* n° 90. — *Lichen fuscillus* Turn. — *Verrucaria glebulosa* Nyl. *Prodr. Lich. Gall.* p. 180 et *Pyrenoc.* p. 23, ubi definitur, atque *Lich. parisiens.* n° 147. = In Asia orientali (Japonia, *Lich. Jap.* p. 88). — Etiam in Europa.

— Var **nigricans** Nyl. in *Flora* 1881, p. 189, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 88, ubi sporæ definiuntur). — Etiam in Europa.

3251. **V. glaucinodes** Nyl. *Lich. Jap.* p. 89, ubi definitur. = In Asia orientali (Japonia).

3252. **V. viridula** Ach. *Lichenogr. univ.* p. 673, Nyl. *Pyrenoc.* p. 23, *Lich. Scand.* p. 271 et *Prodr. Lich. Gall.* p. 181, ubi definitur; *Enum. Lich.* p. 137; *V. nigrescens* var. *viridula* Nyl. *Lich. Algér.* p. 341, ubi definitur. = In Asia orientali (Japonia, *Lich. Jap.* p. 89, ubi sporæ definiuntur). — In Africa boreali (Algeria). — In America boreali (Ohio). — Etiam in Europa.

3253. **V. subfuscella** Nyl. *Lich. Scand.* p. 271, ubi definitur; *V. fuscella* Schær. *Enum. Lich. europ.* p. 215, Nyl. *Pyrenoc.* p. 23 et *Prodr. Lich. Gall.* p. 181, ubi definitur; *V. nigrescens* var. *fuscella* Nyl. *Lich. Algér.* p. 341, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

3254. **V. nigrescens** Pers., Nyl. *Pyrenoc.* p. 23 et *Lich. Scand.* p. 271, ubi definitur; *Enum. Lich.* p. 137. = In Africa boreali (Algeria, *Lich. Algér.* p. 316 et *Prodr. Lich. Gall.* p. 180, *V. conspurcans* Dur. et Mont., Nyl. *Lich. Algér.* p. 342 in notula). — In America boreali. — Etiam in Europa.

— Var. **devians** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 65, ubi definitur. = In Asia orientali (China).

3255. \***V. subnigrescens** Nyl. in litt. ad Stizenb. et apud Stizenb. *Lich. helv.* p. 234, atque apud Lamy *Catal. Lich. Caut. et Lourdes* p. 103. In hoc posteriore opere ponitur errore ut synonymon *V. fusca* Pers. Nyl. *Lich. Pyren.-Orient.* p. 60, nam in hac regione celeb. Nylander veram *V. fuscam* Pers. collegit ut affirmat in pagina 86 operis, desinente anno 1891, editi, cui titulus: *Lichenes Pyrenæorum-Orientalium*, proindeque mensura sporarum in Lamy opere citato est erronea, nam ad *V. fuscam* Pers. pertinet: in *V. subnigrescenti* Nyl. sporæ sunt longit. 0,014-15 et crassit. 0,007 millim. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 42, ubi sporæ definiuntur). — Etiam in Europa.

3256. \*\***V. fusca** Pers., Nyl. *Lich. Scand.* p. 271, ubi definitur; *Lich. Pyren.-Orient.* p. 60 et *Lich. N. Zeland.* 1888, p. 127, atque apud Hue *Addend. Lichenogr. europ.* p. 276, ubi sporæ definiuntur. = In Oceania (Nova Zelandia). — Etiam in Europa.

3257. **V. obnigrescens** Nyl. in *Flora* 1875, p. 362, et *Lich. Fr. Behr.* p. 72, ubi definitur. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 42). — In America boreali (Port-Clarence). — Etiam in Europa.

3258. **V. obfuscata** Nyl. apud Cromb. *Kerguel. land* p. 191, ubi definitur. = In Africa australi (ins. Kerguelen).

3259. **V. mauroides** Schær. *Enum. Lich. europ.* p. 215, Nyl. in *Flora* 1881, p. 452, ubi pro parte definitur; *V. margacea* f. *mauroides* Nyl. *Lich. Lapp. orient.* p. 169. = In Europa.

— F. **conizodes** Nyl. *Lich. Fr. Behr.* p. 89, ubi definitur. = In America boreali (Alaska).

3260. **V. fuscula** Nyl. *Pyrenoc.* p. 22, ubi definitur; *Enum. Lich.* p. 136. — *Endocarpon areolatum* Nyl. *Lich. algeriens.* p. 316, ubi definitur. — *Verrucaria areolata* Nyl. *Lich. Algér.* p. 340 et *Prodr. Lich. Gall.* p. 180, ubi definitur. = In Africa boreali (Algeria, *Flora* 1878, p. 341, ubi sporæ definiuntur). — Etiam in Europa.



3261. **Verrucaria spodopsara** Nyl. *Quelq. Lich. Algér.* p. 217 et *Lich. Ægypt.* p. 8, ubi definitur. = In Africa boreali (Algeria).

3262. **V. scotinopsara** Nyl. *Quelq. Lich. Algér.* p. 217 et *Lich. Ægypt.* p. 8, ubi definitur. = In Africa boreali (Algeria).

3263. **V. microspora** Nyl. *Pyrenoc.* p. 29 et in *Flora* 1860, p. 83, ubi definitur; *Enum. Lich.* p. 137. = In America boreali (Groenlandia).

— Var. **ecrustacea** Nyl. *Addit. Fl. chil.* p. 173, ubi definitur. = In America meridionali (Chili).

3264. **V. halophila** Nyl. *Lich. Jap.* p. 89, ubi sporæ definiuntur; *V. microspora* f. *halophila* Nyl. *Prodr. Lich. Gall.* p. 183, ubi definitur. = In Asia orientali (Japonia). — Etiam in Europa (Gallia occidentali).

3265. **V. submicrospora** Nyl. *Lich. Jap.* p. 90, ubi definitur. = In Asia orientali (Japonia).

3266. **V. minima** Mass. ex Arn. in Museo parisiensi, Nyl. *Pyrenoc.* p. 23 et *Lich. Jap.* p. 90, ubi definitur; *Enum. Lich.* p. 137. = In Asia orientali (Japonia). — Etiam in Europa (Franconia).

3267. **V. mucosa** Ach. *Syn. Lich.* p. 93, Nyl. *Pyrenoc.* p. 28 et *Lich. Scand.* p. 275, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In Asia boreali (Lawrencebay, *Lich. Fr. Behr.* p. 16). — Etiam in Europa.

3268. **V. ceuthocarpa** Wahlenb. *Flora lappon.* p. 467, Nyl. *Lich. Scand.* p. 274, ubi definitur. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 16). — Etiam in Europa.

3269. **V. dermoplaca** Nyl. *Lich. Fueg.* p. 19 et apud Cromb. *Falkl. isl.* p. 234, ubi definitur. = In America australi (ins. Maclovianis).

3270. **V. maura** Wahlenb. *Flora lappon.* p. 466, Nyl. *Pyrenoc.* p. 28 et *Lich. Scand.* p. 273, ubi definitur; *Enum. Lich.* p. 137. = In Asia boreali (Lawrence ins., etc., *Lich. Fr. Behr.* pp. 16, 42 et 51), orientali (Japonia, *Lich. Jap.* p. 89, ubi sporæ definiuntur) et meridionali (India). — In Africa boreali (Algeria, *Lich. Algér.* p. 316, et *Prodr. Lich. Gall.* p. 183). — In America australi (Fuegia, *Lich. Fueg.* p. 19, ubi sporæ denuo definiuntur). — In Oceania (Nova Zelandia?, *Lich. N. Zeland.* 1888, p. 134). — Etiam in Europa.

##### 5. — Stirps *Verrucariæ rupestris* Schrad.

3271. **V. rupestris** Schrad. *Spic. Fl. German.* p. 109, tab. II, fig. 7, Nyl. *Pyrenoc.* p. 30 et *Lich. Scand.* p. 273, ubi definitur; *Enum. Lich.* p. 137. = In Africa boreali (Algeria, *Lich. Algér.* p. 316, *Prodr. Lich. Gall.* p. 183, in *Flora* 1878, pp. 341 et 344, atque in hoc posteriore loco sporæ definiuntur). — In America boreali. — Etiam in Europa.

3272. **V. devergescens** Nyl. in *Flora* 1877, p. 462, et *Lich. Fr. Behr.* p. 42, ubi definitur. = In Asia boreali (Konyambay). — Etiam in Europa.

3273. **V. margacea** Wahlenb. *Flora lappon.* p. 463, Nyl. *Pyrenoc.* p. 23 et *Lich. Scand.* p. 272, ubi definitur; *Enum. Lich.* p. 137. = In Africa orientali (Abyssinia). — Etiam in Europa.

3274. **V. latebrosa** Koerber *Syst. Lich. Germ.* p. 349; Nyl. *Lich. Jap.* p. 89, ubi sporæ definiuntur. = In Asia orientali (Japonia). — Etiam in Europa.

3275. **V. æthiobola** Wahlenb. in Ach. *Lichenogr. univ.* p. 292, Nyl. apud Hue *Addend. Lichenogr. europ.* p. 281, ubi definitur; *V. margacea* var. *æthiobola* Wahlenb. *Fl. lappon.* p. 463, Nyl. *Prodr. Lich. Gall.* p. 181 et *Lich. Scand.* p. 272, ubi definitur; *Pyrenoc.* p. 23 et *Enum. Lich.* p. 137; *V. papillosa* Koerb. *Syst. Lich. German.* p. 350. = In Asia orientali (Japonia, *Lich. Jap.* p. 89, ubi sporæ definiuntur). — Etiam in Europa.

3276. **Verrucaria aethioboliza** Nyl. *Lich. S<sup>ti</sup> Pauli* p. 7 et in *Flora* 1886, p. 322, ubi definitur. = In Africa orientali antarctica (ins. Sancti Pauli).

3277. **V. prævia** Nyl. *Lich. Jap.* p. 89, ubi definitur. = In Asia orientali (Japonia).

3278. **V. acrotella** Ach. *Method. Lich.* p. 125, Nyl. *Lich. Scand.* p. 293, ubi definitur. = In Asia boreali (Lawrence insula, *Lich. Fr. Behr.* p. 51). — Etiam in Europa.

3279. **V. riparia** Nyl. *Lich. Fr. Behr.* pp. 16 et 42, ubi sporæ definiuntur; *V. margacea* var. *riparia* Nyl. *Lich. Lapp. orient.* p. 170, ubi definitur. = In Asia boreali (Lawrence insula, etc.). — Etiam in Europa.

3280. **V. lævata** Ach. *Syn. Lich.* p. 94, Nyl. *Pyrenoc.* p. 26 et *Lich. Fr. Behr.* p. 5, ubi definitur. = In Asia boreali (Lawrence insula). — Etiam in Europa.

3281. **V. prominula** Nyl. *Lich. Armor. et Delphin.* p. 411 et *Lich. Fr. Behr.* p. 72, ubi definitur. = In America boreali (Port-Clarence). — Etiam in Europa.

3282. **V. integra** Nyl. *Lich. Scand.* p. 276, ubi definitur; *V. rupestris* var. *integra* Nyl. *Pyrenoc.* p. 31, ubi etiam definitur; *Enum. Lich.* p. 137. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 72). — Etiam in Europa.

— **F. sublimitans** Nyl. in litt.; *V. integræ limitans* Nyl. *Lich. Ægypt.* p. 7, ubi definitur; nomen illud jam usurpatum mutari debuit, cfr. infra n<sup>o</sup> 3439. = In Africa boreali (Ægypto).

3283. \* **V. mortarii** Arn. apud Lamy *Catal. Lich. Mont-Dore* p. 162; *V. integra* f. *mortarii* Nyl. in *Flora* 1878, p. 344, ubi definitur. = In Africa boreali (Algeria). — Etiam in Europa.

3284. **V. rudereella** Nyl. apud Cromb. *Challeng. Exped.* p. 217, ubi definitur. = In America septentrionali (Illinois, haud procul a Chicago, *Lich. Jap.* p. 109; ins. Bermudis).

3285. **V. muralis** Ach. *Syn. Lich.* p. 95, Nyl. *Pyrenoc.* p. 32 et *Lich. Scand.* p. 275, ubi definitur; *Enum. Lich.* p. 137. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 42). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 72). — Etiam in Europa.

— **F. dolosula** Nyl. *Lich. Fr. Behr.* p. 72, ubi definitur. = In America boreali (Port-Clarence).

3286. **V. subjunctiva** Nyl. in *Flora* 1884, p. 218, et *Lich. Fr. Behr.* p. 42, ubi definitur. = In Asia boreali (Konyambay).

3287. **V. peloclita** Nyl. in *Flora* 1877, p. 461, et *Lich. Fr. Behr.* p. 43, ubi definitur. = In Asia boreali (Konyambay). — Etiam in Europa.

#### 6. — Stirps *Verrucariæ epigææ* Ach.

Sporæ 8<sup>næ</sup>, incolores, simplices; paraphyses distinctæ, graciles.

3288. **V. epigæa** Ach. *Syn. Lich.* p. 96, Nyl. *Pyrenoc.* p. 35 et *Lich. Scand.* p. 276, ubi definitur. = In America septentrionali. — Etiam in Europa.

#### II. — *Species potissime corticolæ, paucæ saxicolæ.*

##### 7. — *Porinula* Nyl.

Sporæ 8<sup>næ</sup>, incolores, vulgo fusiformes et pluri-septatæ; paraphyses graciles.

3289. **V. chlorotica** Ach. *Syn. Lich.* p. 94, Nyl. *Pyrenoc.* p. 36 et *Lich. Scand.* p. 277, ubi definitur; *Enum. Lich.* p. 138. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 43 et 51) et orientali (Japonia, *Lich. Jap.* p. 90, ubi pr. p. definitur). — In America tro-

pica (Peruvia, *Lich. exot.* p. 232). — In Oceania (ins. Nukahiva, *Lich. exot.*, p. 247). — Etiam in Europa.

3290. \* **Verrucaria carpinea** Pers., Ach. *Syn. Lich.* p. 88, Nyl. *Lich. Scand.* p. 278, ubi definitur. = In Oceania (ins. Nukahiva, *Lich. exot.* p. 247 et *Lich. îles Marquis.* p. 302). — Etiam in Europa.

3291. \*\* **V. cinerea** Pers. in Uster's *Annal. bot.* 1 St. p. 28, tab. III, fig. 6 A, Nyl. *Pyrenoc.* p. 37, ubi definitur; *Enum. Lich.* p. 438. = In Asia meridionali (India). — In America boreali (Terra Nova, ubi lecta fuit a Despréaux ex herb. Bory de St-Vincent). — Etiam in Europa.

3292. **V. subcinerea** Nyl. *Pyrenoc.* p. 37, ubi definitur. = In America septentrionali (Texas).

3293. **V. subchlorotica** Nyl. *Syn. Lich. N. Caled.* p. 85, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3294. **V. grandicula** Nyl. *Lich. Jap.* p. 90, ubi definitur. = In Asia orientali (Japonia).

3295. **V. quintaria** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 415 in notula et *Lich. Jap.* p. 91, ubi definitur. = In Asia orientali (Japonia).

3296. **V. parvata** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 66 et *Lich. Jap.* p. 90, ubi definitur. = In Asia orientali (Japonia; China).

3297. **V. rhapsispora** Knight, Nyl. in *Flora* 1886, p. 327, ubi definitur. = In Oceania (Australia).

3298. **V. leptalea** Nyl. in *Flora* 1874, p. 45, ubi definitur; *V. lectissima* var. *leptalea* Nyl. *Pyrenoc.* p. 38, *Prodr. Lich. Gall.* p. 187 et *Enum. Lich.* p. 438. — *Biatora vernalis* var. *leptalea* Dur. et Mont., Nyl. *Lich. Algér.* p. 313. = In Africa boreali (Algeria). — In Europa (in Helvetia saltem, Stizenb. *Lich. helvet.* p. 251).

3299. **V. leptaleoides** Nyl. in *Flora* 1874, p. 45, ubi definitur. = In Asia boreali (Lawrence ins., *Lich. Fr. Behr.* p. 51) et orientali (Japonia, *Lich. Jap.* p. 90, ubi sporæ definiuntur). — Etiam in Europa boreali (Finlandia).

3300. **V. leptaleina** Nyl. *Lich. N. Zeland.* 1888, p. 430, ubi definitur. = In Oceania (Nova Zelandia).

3301. **V. sublectissima** Nyl. in *Flora* 1885, p. 441, et *Lich. Fr. Behr.* p. 51, ubi definitur. = In Asia boreali (Lawrence insula).

3302. **V. heteropsis** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74 et ed. 2<sup>a</sup> p. 415 in notulis, ubi definitur. = In America tropica (Mexico).

3303. **V. albicascens** Nyl. *Lich. N. Zeland.* 1888, p. 429, ubi definitur. = In Oceania (Nova Zelandia).

3304. **V. indutula** Nyl. *Lich. N. Zeland.* 1888, p. 429, ubi definitur. = In Oceania (Nova Zelandia).

3305. **V. emiscens** Nyl. *Lich. N. Zeland.* 1888, p. 429, ubi definitur. = In Oceania (Nova Zelandia).

3306. **V. subsimplicans** Nyl. *Lich. N. Zeland.* 1888, p. 430, ubi definitur. = In Oceania (Nova Zelandia).

— **F. albens** Nyl. *Lich. N. Zeland.* loc. citat., ubi definitur. = In eadem regione.

3307. **V. epiphylla** Nyl. *Pyrenoc.* p. 38, ubi definitur. — *Porina epiphylla* Fée *Essai Supplém.* p. 76. = In Africa orientali (ins. Madagascar). — In America tropica. — In Oceania (ins. Java; ins. Taïti, *Lich. exot.* p. 247) et in aliis locis tropicis.

3308. **V. præstans** Nyl. *Lich. Angol.* p. 520, ubi definitur. = In Asia meridionali (ins. Andaman, *Lich. Andam.* p. 19, ubi sporæ definiuntur). — In Africa occidentali (Angola).

3309. **V. nana** Nyl. *Pyrenoc.* p. 38, ubi definitur. — *Porina nana* Fée *Essai Supplém.* p. 75, tab. XXXVI, fig. 12. = In America tropica.



3310. **Verrucaria disterrina** Nyl. *Lich. ins. Guin.* p. 37, ubi definitur. = In Africa occidentali (ins. Principis).

3311. **V. astuta** Nyl. *Lich. ins. Guin.* p. 37, ubi definitur. = In Africa occidentali (ins. Principis).

3312. **V. mastoidea** Nyl. *Pyrenoc.* p. 38, *Lich. Andam.* p. 19 et *Syn. Lich. N. Caled.* p. 84, ubi definitur; *Enum. Lich.* p. 138. — *Pyrenula mastoidea* Ach. *Syn. Lich.* p. 122. — *Porina mastoidea* Fée *Essai* p. 82 et *Supplém.* p. 74; *P. americana* Fée *Essai* p. 83, tab. XX, fig. 4, et *Supplém.* p. 74, tab. XXXVI, fig. 11, et XLI, fig. 2; *P. viridi-olivacea* Fée *Essai Supplém.* p. 74; *P. marginata* Fée *Essai* p. 82, tab. XXI, fig. 5, et *Supplém.* p. 74, et tab. XLI, fig. 1. = In omnibus terris tropicis. In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 59). — In Africa occidentali (ins. San Thomé, *Lich. ins. Guin.* p. 37). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74 et 2<sup>a</sup> p. 113; Peruvia, *Lich. exot.* p. 232). — In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 15, ubi sporæ definiuntur; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 52 et *Flora* 1867, p. 196; ins. Nukahiva, *Lich. exot.* p. 247, *Porina americana* Fée, Nyl. *Lich. îles Marq.* p. 302).

— Var. **pertusarioides** Nyl. *Enum. Lich.* p. 138. = In America tropica (Guyana gallica).

3313. \* **V. internigrans** Nyl. *Lich. Andam.* p. 18, ubi sporæ definiuntur; *V. mastoidea* var. *internigrans* Nyl. *Syn. Lich. N. Caled.* p. 84, ubi definitur. = In Asia meridionali (ins. Andaman). — In Oceania (Nova Caledonia).

3314. **V. firmula** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3315. **V. nonaria** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3316. **V. mastoidiza** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3317. **V. mastoidea** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3318. **V. comparatula** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3319. **V. Tetraceræ** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 114, ubi sporæ definiuntur. — *Pyrenula Tetraceræ* Ach. *Syn. Lich.* p. 125; *V. mastoidea* var. *Tetraceræ* Nyl., *Pyrenoc.* p. 39, ubi definitur; *Enum. Lich.* p. 138. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 14, ubi definitur pr. p.). — In America tropica (Mexico, *Flora* 1858, p. 381; Guyana gallica; Nicaragua) et meridionali (Argentina, *Lich. Fueg.* p. 19, ubi sporæ definiuntur).

3320. **V. dissipans** Nyl. in *Flora* 1866, p. 294, ubi definitur. = In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 14, ubi sporæ definiuntur). — In America tropica (ins. Cuba).

3321. **V. interstes** Nyl. *Syn. Lich. N. Caled.* p. 84, ubi definitur; in *Flora* 1867, p. 196. = In Asia meridionali (ins. Andaman, *Lich. Andam.* p. 19, ubi sporæ definiuntur). — In Oceania (Nova Caledonia).

3322. **V. subinterstes** Nyl. *Lich. Andam.* p. 19, ubi definitur. = In Asia meridionali (ins. Andaman).

3323. **V. chlorotera** Nyl. *Syn. Lich. N. Caled.* p. 85, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3324. **V. mastoidella** Nyl. in *Flora* 1867, p. 8, ubi definitur. = In Asia meridionali (Calcutta).

3325. **V. globosa** Tayl., Nyl. in *Flora* 1883, p. 534, et *Lich. ins. Guin.* p. 38, ubi definitur. = In Africa occidentali (ins. Principis). — Etiam in Europa (Hibernia).

3326. **V. innata** Nyl. *Pyrenoc.* p. 39, ubi definitur; *Enum. Lich.* p. 138. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261).

3327. **V. desquamescens** Nyl. *Pyrenoc.* p. 39, ubi definitur; *Enum. Lich.* p. 138. — *Porina desquamescens* Fée *Essai Supplém.* pp. 75, 155 et 157, tab. XLI, fig. 5 et 9. = In America tropica (Peruvia, *Lich. exot.* p. 232).

3328. **Verrucaria nucula** Nyl. *Pyrenoc.* p. 40, *Syn. Lich. N. Caled.* p. 85 et *Lich. Antill.* p. 22, ubi definitur; *Enum. Lich.* p. 138. — *Porina nucula* Ach. *Syn. Lich.* p. 112. = In omnibus regionibus tropicis. In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 178, et *Contrib. da Fl. d'Afric.* p. 14 et *Lich. ins. Guin.* p. 37, ubi sporæ definiuntur; Guinea). — In America tropica (ins. Guadalupa; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74 et ed. 2<sup>a</sup> p. 114, ubi sporæ definiuntur). — In Oceania (ins. Java; Nova Caledonia, *Flora* 1867, p. 196).

— Var. 1. **endochrysea** Nyl. *Lich. Antill.* p. 22. — *Porina endochrysa* Mont. *Sylog.* p. 360. = In America tropica (ins. Cuba, *Flora* 1866, p. 294, *V. endochrysea* Nyl.; Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74 et ed. 2<sup>a</sup> p. 114, ubi, æque ac in præcedente loco, sporæ definiuntur).

— Var. 2. **granulatula** Nyl. *Lich. Antill.* p. 22, ubi definitur. = In America septentrionali (Carolina).

3329. \* **V. rudiusecula** Nyl. *Syn. Lich. N. Caled.* p. 85, ubi definitur, in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3330. **V. dolichophora** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74 et ed. 2<sup>a</sup> p. 114, ubi definitur. = In America tropica (Nova Granata).

3331. \* **V. belonospora** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 114, ubi definitur. = In America tropica (Nova Granata).

3332. **V. catapasta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74, ed. 2<sup>a</sup> p. 115, ubi definitur, et *Addit.* p. 576. = In America tropica (Nova Granata).

3333. **V. sulfurea** Nyl. — *Byssophyton sulfureum* Mont. *Sylog.* p. 357, Nyl. *Lich. exot.* p. 247; *Enum. Lich.* p. 140 in notula. = In Oceania (ins. Taïti).

3334. **V. punctillata** Nyl. in *Flora* 1884, p. 223, et *Lich. Fr. Behr.* p. 25, ubi definitur. = In Asia boreali (Konyambay).

#### 8. — Stirps *Verrucariæ insuetæ* Nyl.

Sporæ 8<sup>nr</sup>, incolores et 3-septatæ; paraphyses mediocres.

3335. **V. insueta** Nyl. apud Cromb. *Kerguel. land* p. 192, ubi definitur. = In Africa australi (ins. Kerguelen).

#### 9. — Stirps *Verrucariæ muscicolæ* Ach.

Sporæ 2-8<sup>nr</sup>, incolores et murali-divisæ; paraphyses graciles.

3336. **V. muscicola** Ach. in herb., Nyl. *Pyrenoc.* p. 40, ubi definitur; *Enum. Lich.* p. 138. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 26, ubi sporæ definiuntur). — Etiam in Europa.

3337. **V. heterospora** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3338. **V. geminella** Nyl. *Pyrenoc.* p. 40 et in *Flora* 1858, p. 381, ubi definitur; *Enum. Lich.* p. 138. = In America tropica (Mexico).

3339. **V. thelostomoides** Nyl. *Pyrenoc.* p. 41, ubi definitur; *Enum. Lich.* p. 138. = In Asia meridionali (India).

3340. **V. modestula** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3341. **V. kerguelana** Nyl. apud Cromb. *Kerguel. land* p. 192, ubi definitur. = In Africa australi (ins. Kerguelen).

3342. **V. luridella** Nyl. *Pyrenoc.* p. 41, ubi definitur; *Enum. Lich.* p. 138. = In America tropica (Bolivia, *Lich. exot.* p. 232).

3343. **V. eminentior** Nyl. *Syn. Lich. N. Caled.* p. 86, ubi definitur; *Thelenella eminentior*

tior Nyl. *Exposit. Lich. N. Caled.* p. 54, ubi definitur; in *Flora* 1867, p. 196. = In America tropica (Brasilia, *Flora* 1869, p. 125, ubi sporæ definiuntur). — In Oceania (Nova Caledonia).

3344. **Verrucaria exocha** Nyl. *Lich. N. Zeland.* 1888, p. 127 et fig. 2, atque in *Flora* 1869, p. 125, ubi definitur. = In Oceania (Nova Zelandia).

3345. **V. perfragilis** Nyl. *Lich. N. Zeland.* 1888, p. 125, ubi definitur. — *Porina endochrysa* Bab. *Lich. New Zeal.* p. 42, tab. CXXVIII D. Hæc in Nyl. *Pyrenoc.* p. 40 cum *Verrucaria nucula* Nyl. jungitur. Arnold *Exsicc.* 1203; Lojka *Lich. univ.* n. 146. = In Oceania (Nova Zelandia).

3346. **V. albo-linita** Nyl. *Lich. ins. Guin.* p. 38, ubi definitur. = In Africa occidentali (ins. Principis).

3347. **V. viridata** Nyl. *Lich. ins. Guin.* p. 38, ubi definitur. = In Africa occidentali (ins. Principis).

3348. **V. proponens** Nyl. *Syn. Lich. N. Caled.* p. 91, ubi definitur; in *Flora* 1867, p. 196; sporæ murali-divisæ, attamen hæc species forte potius pertineat ad stirpem *V. epidermidis* Ach. = In Oceania (Nova Caledonia).

#### 10. — Stirps *Verrucariæ porinopseos* Nyl.

Sporæ 8<sup>næ</sup>, incolores, simplices et magnæ; paraphyses graciles.

3349. **V. porinopsis** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 68 et Nyl. *Lich. Jap.* p. 91, ubi definitur. = In Asia orientali (Japonia).

#### 11. — Stirps *Verrucariæ variolosæ* Pers.

Sporæ 2-8<sup>næ</sup> in thecis, fuscæ, raro incolores, magnæ et murali-divisæ; paraphyses graciles.

3350. **V. variolosa** Nyl. *Pyrenoc.* p. 41, ubi definitur; *Enum. Lich.* p. 138. — *Pyrenula variolosa* Pers. in Gaudich. *Uran. Bot.* p. 181. = In Africa tropica. — In America tropica (Mexico, *Flora* 1858, p. 381; ins. Cuba, Mont. *Sylog.* p. 368). — In Oceania (ins. Marianis, *Lich. exot.* p. 247).

— F. **pyrinoica** Nyl. *Pyrenoc.* p. 42, ubi definitur; *V. pyrinoica* Ach. *Syn. Lich.* p. 91. = In Africa occidentali (Guinea).

3351. **V. ascidioides** Nyl. *Lich. N. Caled. Exposit.* p. 53 et *Syn.* p. 90, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3352. **V. lugescens** Nyl. in *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 35, ubi definitur. = In Africa occidentali (ins. San Thomé).

3353. **V. borbonica** Nyl. *Pyrenoc.* p. 42, ubi definitur; *Enum. Lich.* p. 138. = In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261).

3354. **V. guineensis** Nyl. *Lich. ins. Guin.* p. 36, ubi definitur. = In Africa occidentali (ins. Principis).

3355. **V. andamanica** Nyl. *Lich. Andam.* p. 19, ubi definitur. = In Asia meridionali (ins. Andaman).

3356. **V. papillifera** Nyl. *Pyrenoc.* p. 42, ubi definitur; *Enum. Lich.* p. 138. = In America tropica (Guyana gallica).

3357. **V. epapillata** Nyl. *Pyrenoc.* p. 43 et *Prodr. Fl. N. Gran. Adht.* p. 576, ubi definitur; *Enum. Lich.* p. 138. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East-Asia* p. 59) et meridionali (ins. Ceylonia).

3358. **V. chilensis** Nyl. — *Pyrenastrum chilense* Mont., Nyl. *Addit. Fl. chil.* p. 187. = In America meridionali (Chili).



3359. **Verrucaria operta** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 576, ubi definitur; in *Flora* 1864, p. 618; sporæ incolores et binæ in thecis. = In America tropica (Nova Granata).

3360. **V. intrusa** Nyl. *Pyrenoc.* p. 43, ubi definitur; *Enum. Lich.* p. 138; sporæ incolores et thecæ plerumque monosporæ. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75 et ed. 2<sup>a</sup> p. 116; Bolivia, *Lich. exot.* p. 232).

3361. **V. euthelia** Nyl. in *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 35, ubi definitur; sporæ 8<sup>nae</sup> incolores. = In Africa occidentali (ins. San Thomé).

3362. **V. interponens** Nyl. *Lich. Andam.* p. 20, ubi definitur; sporæ 8<sup>nae</sup> incolores, submurali-divisæ. = In Asia meridionali (ins. Andaman).

3363. **V. pyrenuloides** Nyl. *Pyrenoc.* p. 44, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 74 et ed. 2<sup>a</sup> p. 115 et *Syn. Lich. N. Caled.* p. 86, ubi definitur; *Enum. Lich.* p. 138. — *Trypethelium pyrenuloides* Mont. *Sylog.* p. 371. Animadvertendum est hanc speciem et *V. libricolam* Fée, quæ in *Expositione synoptica Pyrenocarpeorum* sub hac stirpe ponuntur, in opere huic posteriore cui titulus: *Lichenes insularum Guineensium* ad stirpem *V. nitidæ* Schrad. referri. Nihilominus illæ ambæ species earumque affines ob sporas murali-vel saltem submurali-divisas in stirpe *V. variolosæ* Pers. hic disponendæ videntur. = In Africa orientali (ins. Madagascar), meridionali (Portu Natali, *Lich. Port Natal* p. 14, ubi definitur pr. p.) et occidentali (ins. San Thomé, *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 35, ubi sporæ definiuntur). — In America septentrionali (Carolina, ubi forma quædam in *Pyrenoc.* p. 44 definitur) et tropica (ins. Sancti-Thomæ Antillarum, *Flora* 1880, p. 128; Nova Granata; Peruvia, *Lich. exot.* p. 232). — In Oceania (ins. Sandwich; ins. Taïti, *Lich. exot.* p. 247; Nova Caledonia, *Flora* 1867, p. 196; ins. Amirauté).

3364. **V. duplicans** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75 et ed. 2<sup>a</sup> p. 116, ubi definitur, atque *Addit.* p. 576. = In America tropica (ins. Guadalupa, *Lich. Antill.* p. 22, ubi definitur forma sporis 2-8<sup>nis</sup>; Nova Granata; Nicaragua).

3365. **V. duplicascens** Nyl. *Lich. Andam.* p. 19, ubi definitur; sporæ binæ in thecis et incolores. = In Asia meridionali (ins. Andaman).

3366. **V. libricola** Nyl. *Syn. Lich. N. Caled.* p. 87, ubi definitur. — *Pyrenula libricola* Fée *Essai Supplém.* p. 82; *Pyr. aspistea* Fée ibid. p. 83, tab. XXXVII, fig. 2. — *Verrucaria aspistea* Nyl. *Pyrenoc.* p. 43, ubi definitur; *Enum. Lich.* p. 138; *V. analepta* var. *americana* Ach. *Syn. Lich.* p. 88. — *Pyrenula leucostoma* Ach. *Syn. Lich.* p. 124, Nyl. *Pyrenoc.* p. 43 in notula. = In omnibus regionibus tropicis. In Asia meridionali (Calcutta, *Flora* 1867, p. 8; ins. Ceylonia, ex herb. Hooker). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261). — In America tropica (India occidentali; Peruvia, *Lich. exot.* p. 232). — In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 46, ubi sporæ definiuntur; ins. Taïti et Sandwich, *Lich. exot.* p. 247; Nova Caledonia, *Flora* 1867, p. 196).

— Var. **Cinchonarum** Nyl.; *V. aspistea* var. *Cinchonarum* Nyl. *Lich. exot.* p. 232. — *Parmentaria Cinchonarum* Fée *Essai Supplém.* p. 68. = In America tropica (Peruvia).

3367. **V. astroidea** Nyl. *Lich. N. Zeland.* 1888, p. 132, ubi definitur; *V. aspistea* var. *astroidea* Nyl. *Pyrenoc.* p. 44, ubi pr. p. definitur. — *Parmentaria astroidea* Fée *Essai* p. 70, tab. XX, fig. 1, et *Supplém.* p. 67. — *Pyrenastrum americanum* Spreng. *Syst. Veg.* IV, p. 248; *P. gemmeum* Tuck. *Supplém.* I, p. 249. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75 et ed. et 2<sup>a</sup> p. 116, ubi sporæ definiuntur). — In Oceania (ins. Taïti, *Lich. exot.* p. 247; Nova Zelandia).

3368. **V. paramera** Nyl. apud Cromb. *Challeng. Exped.* p. 227, ubi definitur; accedit ad *V. libricolam* Nyl., sed illius sporæ sunt minores atque simpliciores. = In Oceania (Polynesia).

3369. **V. congestula** Stirton, Nyl. apud Cromb. *Challeng. Exped.* p. 221, ubi definitur; est forsan *Sphæria* quædam. = In Africa australi (ins. Kerguelen).

12. — Stirps *Verrucariæ nitidæ* Schrad.

Sporæ 8<sup>næ</sup>, fuscæ, raro incolores, mediocres et plerumquæ 4-loculares; paraphyses graciles.

3370. **Verrucaria aggregata** Fée *Essai* p. 91, Nyl. *Pyrenoc.* p. 44, ubi definitur; *Enum. Lich.* p. 138. — *Pyrenula aggregata* Fée *Essai Supplém.* p. 80. — *Trypethelium nudum* Fée *ibid.* p. 61. — *Verrucaria thelena* Mont. in *Annal. Sc. nat.* 2<sup>mæ</sup> sér. tom. XIX, p. 54. — In Asia meridionali (Singapoure, *Sert. Lich. trop. Lab. et Singap.* p. 25, ubi sporæ definiuntur). — In America tropica (Nicaragua, etc., *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 120 in notula, ubi definitur forma peculiaris; Peruvia, *Lich. exot.* p. 232, ubi forma alia definitur). — In Oceania (ins. Labuan, *Lich. Jap.* p. 115 et *Sert. Lich. trop. Lab. et Singap.* p. 15, ubi sporæ definiuntur).

— F. 1. **heteroclita** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2<sup>a</sup> p. 119 in notulis. — *Pyrenula heteroclita* Ach. *Syn. Lich.* p. 127. — In Africa occidentali (Guinea).

— F. 2. **segregata** Nyl. *Syn. Lich. N. Caled.* p. 89, ubi definitur. — In Oceania (Nova Caledonia).

3371. **V. congregans** Nyl. in *Flora* 1876, p. 364. — In America tropica (ins. Cuba).

3372. **V. mamillana** Ach. *Syn. Lich.* p. 92, Nyl. *Lich. Antill.* p. 23, ubi sporæ definiuntur; *V. marginata* Nyl. *Pyrenoc.* p. 45, ubi definitur; *V. complanata* Mont. *Sylog.* p. 370, Nyl. *Enum. Lich.* p. 138; *V. Kunthii* Fée *Essai* p. 88, tab. XXXIV, fig. 4; *V. Santensis* Tuck. *Syn. North Americ. Lich.* II, p. 140, Nyl. *Pyrenoc.* p. 45 in notula et *Lich. N. Zeland.* 1888, p. 131, ubi definitur. — *Pyrenula marginata* Hook. in *Kunth Syn. Pl. æquin. Orb. nov.* p. 20; *P. Kunthii* Fée *Essai Supplém.* p. 80. — In Asia orientali (Malacca et China, Nyl. et Cromb. *Lich. East. Asia* pp. 60 et 65). — In Africa orientali (ins. Borbonia et Madagascar, *Lich. exot.* p. 261) et occidentali (Guinea; ins. San Thomé, *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 34, ubi sporæ definiuntur). — In America tropica (ins. Guadalupa; Guyana; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75 et ed. 2<sup>a</sup> p. 117, ubi sporæ definiuntur sub duplici nomine: *V. mamillana* Ach. et *V. Santensi* Tuck.; Peruvia, *Lich. exot.* p. 232). — In Oceania (ins. Labuan, *Lich. Jap.* p. 115 et *Sert. Lich. trop. Lab. et Singap.* p. 15, ubi sporæ definiuntur; ins. Java, *Flora* 1866, p. 134, ubi sporæ adhuc definiuntur; ins. Sandwich, *Lich. exot.* p. 247; Nova Caledonia, *Flora* 1867, p. 196 et *Syn. Lich. N. Caled.* p. 88 pro parte tantum, nam *V. Santensis* Tuck. in hoc posteriore loco definita est saltem pro parte *V. subglabrata* Nyl., cfr. Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 15; Nova Zelandia).

— Var. **diminuens** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 117, ubi definitur. — In Asia orientali (China).

3373. \* **V. convexa** Nyl. *Lich. Antill.* p. 23, ubi sporæ definiuntur; *V. marginata* var. *convexa* Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75 et ed. 2<sup>a</sup> p. 117, ubi definitur. — In America tropica (ins. Guadalupa; Nova Granata).

3374. **V. circumrubens** Nyl. *Syn. Lich. N. Caled.* p. 89, ubi definitur; in *Flora* 1867, p. 196. — In Oceania (Nova Caledonia).

3375. **V. nitida** Schrad., Ach. *Lichenogr. univ.* p. 279, Nyl. *Pyrenoc.* p. 45, *Lich. Scand.* p. 279 et *Syn. Lich. N. Caled.* p. 87, ubi definitur; *Enum. Lich.* p. 138; *V. Cinchonæ* Fée *Essai* p. 87; *V. nitens* Fée *Essai* p. 88, tab. XX, fig. 5. — *Pyrenula copalchiana* Fée *Essai Supplém.* p. 79; *Pyr. oleagina* Fée *ibid.*, sed hæc ponitur etiam in Nyl. *Enum. Lich.* p. 141 ut varietas *Trypethelii annularis* Mont., cfr. infra n° 3529; *Pyr. Cinchonæ* Fée *ibid.* p. 80; *Pyr. nitens* Fée *ibid.* — Fere cosmopolita, sed deest in regionibus antarcticis. In Asia orientali (China et Japonia, Nyl. et Cromb. *Lich. East. Asia* pp. 66 et

69 et *Lich. Jap.* p. 91) et meridionali (Calcutta, *Flora* 1867, p. 8; ins. Andaman, *Lich. Andam.* p. 20). — In Africa boreali (Algeria, *Lich. Algér.* p. 316 et *Prodr. Lich. Gall.* p. 187), orientali (ins. Borbonia, *Lich. exot.* p. 261), meridionali (Portu Natali, *Lich. Port Natal* p. 14, ubi sporæ definiuntur) et occidentali (ins. San Thomé, *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 34). — In America tropica (Mexico, *Flora* 1858, p. 381; ins. Cuba, *Flora* 1866, p. 294, ubi sporæ definiuntur æque ac in duobus locis sequentibus; ins. Guadalupa, *Lich. Antill.* p. 22; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2<sup>a</sup> p. 118; Peruvia et Bolivia, *Lich. exot.* p. 233; Chili, *Addit. Fl. Chil.* p. 187). — In Oceania (ins. Java, *Flora* 1866, p. 134, ubi sporæ et forma peculiaris definiuntur; ins. Taïti, *Lich. exot.* p. 247 et *Lich. îles Marquis.* p. 302; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 52 et *Flora* 1867, p. 196; Nova Zelandia, *Lich. N. Zeland.* 1861, p. 259, et 1888, p. 130, ubi sporæ definiuntur). — Etiam in Europa.

— F. 1. **quassiæcola** Nyl. *Pyrenoc.* p. 46, ubi definitur; *V. quassiæcola* Fée *Essai* p. 149. — *Pyrenula brunnea* Fée *Essai Supplém.* p. 81. = In America tropica (ins. Jamaica).

— F. 2. **pinguis** Nyl. *Pyrenoc.* p. 46 in notula, ubi definitur; *V. pinguis* Fr. *Lichenogr. europ. reform.* p. 443. — *Pyrenula pinguis* Cheval. *Fl. envir. Paris* I, p. 518, Schær. *Enum. Lich. europ.* p. 213. = In America tropica (Mexico, *Flora* 1858, p. 381). — Etiam in Europa.

— Var. **phæospila** Nyl. in *Flora* 1866, p. 294, ubi definitur. = In America tropica (ins. Cuba).

3376. \* **Verrucaria nitidella** Floerke, Nyl. *Lich. N. Zeland.* 1888, p. 130; *V. nitida* var. *nitidella* Nyl. *Pyrenoc.* p. 46, *Prodr. Fl. N. Gran. Addit.* p. 577 et *Syn. Lich. N. Caled.* p. 87, ubi definitur; *Enum. Lich.* p. 138. = In Asia orientali (Japonia, *Lich. Jap.* p. 91) et meridionali (ins. Ceylonia). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261) et occidentali (Guinea). — In America tropica (Nova Granata; Bolivia et Peruvia, *Lich. exot.* p. 233). — In Oceania (Nova Caledonia, *Exposit. Lich. N. Caled.* p. 52 et *Flora* 1867, p. 296; Nova Zelandia). — Etiam in Europa.

3377. \*\* **V. vitrea** Eschw. *Fl. brasil.* p. 130, Nyl. *Exposit. Lich. N. Caled.* p. 52 in notula, ubi definitur; *V. Guayaci* Fée *Essai Supplém.* p. 85. — *Pyrenula Bonplandix* Fée *Essai* p. 74, tab. XXI, fig. 3 et *Supplém.* p. 78; hæ in Nyl. *Pyrenoc.* p. 46 sub *V. nitida* Schrad. ponuntur. = In America tropica (Brasilia).

3378. **V. mastophora** Nyl. *Lich. N. Caled. Exposit.* p. 52 et *Syn.* p. 88, *Lich. Andam.* p. 20 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75 et ed. 2<sup>a</sup> p. 116, ubi definitur, *Addit.* p. 576. = In Asia meridionali (ins. Andaman). — In America tropica (Nova Granata). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

3379. **V. mastophoriza** Nyl. *Lich. Andam.* p. 20, ubi definitur. = In Asia meridionali (ins. Andaman).

3380. **V. mastophoroides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2<sup>a</sup> p. 118, ubi definitur. = In America tropica (Nova Granata).

— Var. **flavicans** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In eadem regione.

3381. **V. aspistea** Nyl. *Syn. Lich. N. Caled.* p. 88 et *Lich. N. Zeland.* 1888, p. 131, ubi definitur. — *Pyrenula aspistea* Ach. *Syn. Lich.* p. 123, Nyl. *Pyrenoc.* p. 46. — *Verrucaria dermatodes* Borr. = In Asia meridionali (ins. Ceylonia; ins. Andaman, *Lich. Andam.* p. 21). — In Africa meridionali (Portu Natali, *Lich. Port Natal* p. 14, ubi sporæ definiuntur) et occidentali (Guinea). — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 24, ubi sporæ denuo definiuntur æque ac in sequenti loco citato; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1 p. 76 et ed. 2<sup>a</sup> p. 118). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196; Nova Zelandia,



*Lich. N. Zeland.* 1861, p. 259, ubi datur sub nomine erroneo *V. nitida* var. *nitidella* Floerk.; cfr. *Syn. Lich. N. Caled.* p. 88 in notula).

3382. \* **Verrucaria porinoides** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2 p. 118 in notulis, ubi definitur. — *Pyrenula porinoides* Ach. *Syn. Lich.* p. 128. = In America tropica.

3383. **V. pleiomeroides** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3384. **V. subnitida** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3385. **V. pleiomerella** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3386. **V. subducta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 75, tab. II, fig. 52, et ed. 2<sup>a</sup> p. 116, atque *Lich. Antill.* p. 23 ac *Lich. Port Natal* p. 14, ubi definitur. = In Africa meridionali (Portu Natali). — In America tropica (ins. Guadalupa; Nova Granata).

— Var. **retracta** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 576, ubi definitur. = In America tropica (Nova Granata).

3387. **V. interducta** Nyl. in *Flora* 1866, p. 134, ubi definitur. = In Oceania (ins. Java).

3388. **V. punctella** Nyl. *Pyrenoc.* p. 46 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2 p. 119, ubi definitur. = In America septentrionali (Carolina) et tropica (Nova Granata).

— Var. 1. **exstans** Nyl. *Prodr. Fl. N. Gran.* locis citat., ubi definitur. = In America tropica (Nova Granata).

— Var. 2. **adacta** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 577, ubi definitur. — *Pyrenula adacta* Fée *Essai* p. 74 et *Supplém.* p. 79, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 117, ubi sporæ definiuntur; in Nyl. *Pyrenoc.* p. 46 in notula cum *V. pingui* Fr. jungitur. = In America meridionali (Nova Granata, etc.).

3389. **V. cerina** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2<sup>a</sup> p. 119 in notulis, ubi definitur. — *Pyrenula cerina* Eschw. *Fl. brasil.* p. 133. = In America tropica (Brasilia).

3390. **V. subpunctella** Nyl. *Lich. N. Zeland.* 1888, p. 131, ubi definitur. = In Oceania (Nova Zelandia).

3391. **V. cryptostoma** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 119, ubi definitur. = In America tropica (Nova Granata).

3392. **V. sexocularis** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 76 et ed. 2<sup>a</sup> p. 118 in notulis atque *Syn. Lich. N. Caled.* p. 87, ubi definitur. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 60). — In Oceania (ins. Labuan, *Lich. Jap.* p. 115 et *Sert. Lichen. trop. Lab. et Singap.* p. 15, ubi sporæ definiuntur; Nova Caledonia, *Flora* 1867, p. 196).

3393. **V. hypophyta** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 119, ubi definitur. = In America tropica (Nova Granata).

3394. **V. subnitidella** Nyl. *Lich. Andam.* p. 20, ubi definitur. = In Asia meridionali (ins. Andaman).

3395. **V. subtrahens** Nyl. in *Flora* 1866, p. 135, ubi definitur. = In Oceania (ins. Java).

3396. **V. infida** Nyl. in *Flora* 1866, p. 295, ubi definitur. = In America tropica (ins. Cuba).

3397. **V. glabrata** Ach. *Syn. Lich.* p. 91, Nyl. *Pyrenoc.* p. 47 et *Syn. Lich. N. Caled.* p. 89, ubi definitur; *Enum. Lich.* p. 138. = In Asia orientali (Japonia, *Lich. Jap.* p. 91, ubi sporæ definiuntur; Birmania et Malacca, Nyl. et Cromb. *Lich. East. Asia* pp. 49 et 60). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 34). — In America septentrionali. — In Oceania (Nova Caledonia, *Lich. N. Caled. Prodr.* p. 283 et *Exposit.* p. 53, ubi sporæ definiuntur, *Flora* 1867, p. 196;

Nova Zelandia, *Lich. N. Zeland.* 1861, p. 259, ubi sporæ definiuntur, et 1888, p. 131). — Etiam in Europa.

— F. **grisea** Nyl. *Syn. Lich. N. Caled.* p. 89, ubi definitur et in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3398. \* **Verrucaria Coryli** Nyl. *Pyrenoc.* p. 47 et *Addit. Fl. chil.* p. 174, ubi definitur; *Enum. Lich.* p. 138. — *Pyrenula Coryli* Mass. *Ric. Lichen. crust.* p. 164, fig. 325. = In America meridionali (Chili). — Etiam in Europa.

3399. **V. imitans** Nyl. in *Flora* 1866, p. 295, ubi definitur. = In America tropica (ins. Cuba).

3400. **V. subglabrata** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 60, ubi definitur. = In Asia orientali (Malacca). — In America tropica (ins. Cuba, *Flora* 1876, p. 365). — In Oceania (Nova Caledonia, *Sert. Lichen. trop. Lab. et Singap.* p. 15 et est saltem pro parte *V. Santensis* Nyl. *Syn. Lich. N. Caled.* p. 88).

3401. **V. obtusior** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 15, ubi definitur. = In Oceania (ins. Labuan).

3402. **V. glabriuscula** Nyl. in *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 13 et *Lich. ins. Guin.* p. 35, ubi definitur. = In Africa occidentali (ins. San Thomé).

3403. **V. falklandica** Nyl. *Lich. Fueg.* p. 22, ubi definitur; thallus K —. = In America australi (ins. Falkland, ubi est corticola).

3404. **V. pleiomeria** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 576, ubi definitur; in *Flora* 1864, p. 618; sporæ 6-8 locales. = In America tropica (Nova Granata).

3405. **V. farrea** Ach. *Syn. Lich.* p. 96 (quoad specim. corticol.), Nyl. *Pyrenoc.* p. 47 et *Lich. Scand.* p. 279, ubi definitur; *Enum. Lich.* p. 138. = In Oceania (Nukahiva, *Lich. exot.* p. 247 et *Lich. îles Marquis.* p. 302). — Etiam in Europa.

3406. **V. hyalospora** Nyl. *Pyrenoc.* p. 48, ubi definitur; *Enum. Lich. Supplém.* p. 337; sporæ incolores. = In America boreali (Nova Anglia).

3407. **V. aurantiaca** Nyl. *Pyrenoc.* p. 48, ubi definitur; *Enum. Lich.* p. 138. — *Pyrenula aurantiaca* Fée *Essai Supplém.* p. 82, tab. XXXVII, fig. 1; sporæ incolores vel fuscae. = In America tropica. — In Oceania (ins. Nukahiva, *Lich. exot.* p. 247 et *Lich. îles Marquis.* p. 302).

3408. **V. micromma** Mont. *Cryptog. guyan.* p. 48 et *Syllog.* p. 368, Nyl. *Pyrenoc.* p. 49 et *Lich. N. Zeland.* 1888, p. 131, ubi definitur; *Enum. Lich.* p. 139. = In America tropica (Guyana gallica, *Addit. Fl. chil.* p. 174, ubi sporæ definiuntur). — In Oceania (Nova Zelandia).

— F. **leucomma** Nyl. *Addit. Fl. chil.* p. 174, ubi definitur; in *Pyrenoc.* p. 49 similiter definitur, sed sine nomine. = In America meridionali (Chili).

3409. **V. confinis** Nyl. *Pyrenoc.* p. 49, *Addit. Fl. chil.* p. 174 et *Lich. N. Caled. Exposit.* p. 52 et *Syn.* p. 90, ubi definitur; *Enum. Lich.* p. 139. = In America meridionali (Guyana gallica; Chili). — In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

3410. **V. denudata** Nyl. *Pyrenoc.* p. 49 et *Syn. Lich. N. Caled.* p. 90, ubi definitur; *Enum. Lich.* p. 139; thallus K —. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 60) et meridionali (ins. Ceylonia; ins. Andaman, *Lich. Andam.* p. 21, ubi sporæ definiuntur). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261). — In America tropica. — In Oceania (ins. Labuan, *Lich. Jap.* p. 115 et *Sert. Lichen. trop. Lab. et Singap.* p. 15, ubi sporæ definiuntur; ins. Nukahiva, *Lich. exot.* p. 247 et *Lich. îles Marquis.* p. 302; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 53 et in *Flora* 1867, p. 196).

— F. **ochrotropa** Nyl. *Syn. Lich. N. Caled.* p. 90, ubi definitur. = In Oceania (Nova Caledonia).

3411. **V. albescens** Nyl. *Pyrenoc.* p. 50, ubi definitur; *Enum. Lich.* p. 139. = In America tropica (Guyana britannica).

— **F. subochracea** Nyl. apud Cromb. *Challeng. Exped.* p. 227, ubi definitur. = In Oceania (Polynesia, ins. Amirauté).

3412. **Verrucaria ochraceo-flava** Nyl. *Pyrenoc.* p. 50, ubi definitur; *Enum. Lich.* p. 139. = In America tropica (Mexico; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et ed. 2<sup>a</sup> p. 120, ubi sporæ definiuntur). — In Oceania (ins. Labuan, *Lich. Jap.* p. 115 et *Sert. Lichen. trop. Lab. et Singap.* p. 15).

— **F. nudior** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 60, ubi definitur. = In Asia orientali (Malacca, *Sert. Lichen. trop. Lab. et Singap.* p. 16).

3413. \***V. ochraceo-flavens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et ed. 2<sup>a</sup> p. 120 in notulis, ubi definitur. = In America tropica.

3414. **V. sinapisperma** Fée *Essai* p. 86 et *Supplém.* p. 86, Nyl. *Pyrenoc.* p. 50, ubi definitur; *Enum. Lich.* p. 139. = In America tropica (Peruvia, *Lich. exot.* p. 233).

3415. **V. Canellæ-albæ** Nyl. *Pyrenoc.* p. 51, ubi definitur; *Enum. Lich.* p. 139. — *Pyrenula Canellæ-albæ* Fée *Essai Supplém.* p. 157, tab. XLIII, fig. 4. = In America tropica.

3416. **V. pupula** Nyl. *Pyrenoc.* p. 52 in notula. — *Pyrenula pupula* Ach. *Syn. Lich.* p. 123, *Monogr.* p. 19, tab. XI, fig. 17, Fée *Essai* p. 73, tab. XXI, fig. 1, et *Supplém.* p. 77. — *Verrucaria porinoides* Mont. *Cryptog. guyan.* p. 51, Nyl. *Pyrenoc.* p. 51, ubi definitur; *Enum. Lich.* p. 138. — *Pyrenula porinoides* Ach. *Syn. Lich.* p. 128; *Pyr. cartilaginea* Fée *Essai* p. 77, tab. XXIII, fig. 3 et *Supplém.* p. 77; *Pyr. discolor* Ach. *Syn. Lich.* p. 118, Fée *Essai* p. 71 et *Supplém.* p. 77; *Pyr. myriocarpa* Fée *Essai* p. 74, tab. XXI, fig. 2 et *Supplém.* p. 78; sporæ incolores. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 577, ubi forma quædam definitur; Peruvia, *Lich. exot.* p. 233). — In Oceania (ins. Java, *Flora* 1866, p. 135).

3417. **V. papulosa** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 577, ubi definitur; in *Flora* 1864, p. 618; sporæ incolores. = In America tropica (Nova Granata).

3418. **V. concatervans** Nyl. *Lich. Jap.* p. 109, ubi definitur; sporæ fuscescentes, 6-loculares. Hæc species et *V. catervaria* Fée accedunt ad *Trypethelium ochroleucum* Nyl. infra n° 3519. = In America septentrionali calida (Florida).

3419. **V. catervaria** Fée *Essai* p. 90, tab. XXII, fig. 1, Nyl. *Pyrenoc.* p. 52, ubi definitur; *Enum. Lich.* p. 129; sporæ incolores. = In America tropica (ins. Cuba, *Flora* 1866, p. 295; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 577, ubi sporæ definiuntur).

3420. \***V. diffluens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et ed. 2<sup>a</sup> p. 121, ubi definitur; sporæ incolores. = In America tropica (Nova Granata).

3421. **V. nitidiuscula** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et ed. 2<sup>a</sup> p. 121, ubi definitur; sporæ incolores. = In America tropica (Nova Granata).

3422. **V. ceratina** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et ed. 2<sup>a</sup> p. 121. — *Pyrenula ceratina* Fée *Essai Supplém.* p. 77. Huic speciei jungendæ videntur *V. diffluens* Nyl. et *V. nitidiuscula* Nyl., nam ab illa vix nisi ostiolis differunt. Antea ea *V. ceratina* (Fée) sub *V. pupula* (Ach.) disposita fuerat, *Pyrenoc.* p. 52 in notula. = In America tropica.

3423. **V. concatervata** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 68 et Nyl. *Lich. Jap.* p. 91, ubi definitur; sporæ incolores. = In Asia orientali (Japonia).

3424. **V. trypethelizans** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 60, ubi definitur; sporæ incolores. = In Asia meridionali (Malacca, *Lich. Jap.* p. 91 in notula).

3425. **V. myriomma** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 578, ubi definitur; in *Flora* 1864, p. 618; sporæ incolores. = In America tropica (Nova Granata).

3426. **V. thelotremoides** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 578 et *Lich. Antill.* p. 24, ubi definitur; in *Flora* 1864, p. 618; sporæ incolores. = In America tropica (Nova Granata).

3427. **V. heterochroa** Mont. *Sylog.* p. 370, Nyl. *Pyrenoc.* p. 52, ubi definitur; *Enum. Lich.* p. 139; sporæ incolores. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East.*



Asia p. 60). — In America tropica (Guyana; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 578 et *Flora* 1864, p. 618; Brasilia).

13. — Stirps *Verrucariæ dilutæ* Fée.

Sporæ 8<sup>nae</sup>, incolores et 3-septatae; paraphyses graciles, plus minusve confertæ.

3428. **Verrucaria obvoluta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et 2<sup>a</sup> p. 122, ubi definitur. = In America tropica (Nova Granata).

3429. **V. subvelata** Nyl. *Pyrenoc.* p. 56, ubi definitur. = In Asia meridionali (India).

3430. **V. diluta** Fée *Essai Supplém.* p. 85, Nyl. *Syn. Lich. N. Caled.* p. 91, ubi definitur; *V. Cinchonæ* non Ach. quæ est infra n<sup>o</sup> 3461, sed Nyl. *Pyrenoc.* p. 57, ubi definitur; *Enum. Lich.* p. 139; *V. pyrenuloides* Fée *Essai Supplém.* p. 86. — *Pyrenula verrucaroides* Fée *Essai* p. 76. = In Asia meridionali (Calcutta, *Flora* 1867, p. 8, ubi definitur forma peculiaris). — In America tropica (ins. Cuba, *Flora* 1866, p. 295; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 578, ubi sporæ definiuntur, *Flora* 1864, p. 618; Peruvia, *Lich. exot.* p. 233; Brasilia, *Flora* 1869, p. 125). — In Oceania (ins. Labuan, *Lich. Jap.* p. 115 et *Sert. Lichen. trop. Lab. et Singap.* p. 15; ins. Nukahiva, *Lich. exot.* p. 247 et *Lich. îles Marquis.* p. 302; Nova Caledonia, *Flora* 1867, p. 196).

3431. \* **V. dirempta** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 122, ubi definitur, *Addit.* p. 578. = In America tropica (Nova Granata).

3432. **V. illota** Nyl. in *Flora* 1876, p. 364; *V. diluta* Nyl. *Lich. Antill.* p. 24, ubi definitur. = In America tropica (ins. Martinica et Cuba).

3433. **V. infossa** Nyl. in *Flora* 1886, p. 178, *Contrib. da Fl. d'Afric.* p. 14 et *Lich. ins. Guin.* p. 36, ubi definitur. = In Africa occidentali (ins. San Thomé).

3434. **V. suffusa** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 133, ubi definitur. = In Oceania (Nova Zelandia).

3435. **V. tropica** Ach. *Syn. Lich.* p. 91, Nyl. *Pyrenoc.* p. 57, ubi definitur pro parte; *Enum. Lich.* p. 139; *V. Gaudichaldii* Fée *Essai* p. 87, tab. XXII, fig. 4; *V. Gaudichaudii* Fée *Essai Supplém.* p. 86. = In omnibus fere regionibus tropicis. In Asia orientali (Malacca et Singapoure, Nyl. et Cromb. *Lich. East. Asia* p. 60 et Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 25) et meridionali (Calcutta, *Flora* 1867, p. 8, ubi sporæ definiuntur). — In Africa occidentali (ins. San Thomé, *Flora* 1886, p. 178, *Contrib. da Fl. d'Afric.* p. 14, et *Lich. ins. Guin.* p. 36, ubi sporæ definiuntur). — In Oceania (ins. Java, *Flora* 1866, p. 135; ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 15, ubi sporæ definiuntur).

3436. **V. contendens** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 122, ubi definitur. = In America tropica (Nova Granata).

14. — Stirps *Verrucariæ gemmatæ* Ach.

Sporæ 8<sup>nae</sup>, incolores et 1-septatae; paraphyses graciles.

3437. **V. gemmata** Ach. *Syn. Lich.* p. 90, Nyl. *Pyrenoc.* p. 53 et *Lich. Scand.* p. 280, ubi definitur; *Enum. Lich.* p. 139. = In Africa boreali (Algeria, *Lich. Algér.* p. 316 et *Prodr. Lich. Gall.* p. 188, ubi etiam definitur). — In Africa orientali (ins. Borbonia, *Lich. exot.* p. 261). — In America boreali. — In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 14, ubi sporæ definiuntur). — Etiam in Europa.

3438. \* **V. conoidea** Fr., Nyl. *Pyrenoc.* p. 53 et *Lich. Scand.* p. 280, ubi definitur; *Enum. Lich.* p. 139. = In Africa boreali (Algeria, *V. epipolæa* Nyl. *Lich. Algér.* p. 316). — Etiam in Europa.

3439. **Verrucaria limitans** Nyl. in *Flora* 1866, p. 295, et *Lich. Antill.* p. 24, ubi definitur. = In America tropica (ins. Cuba et Guadalupa).
3440. \***V. glaucescens** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).
3441. **V. subnexa** Nyl. *Lich. Andam.* p. 22, ubi definitur. = In Asia meridionali (ins. Andaman).
3442. **V. subnectenda** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 61, ubi definitur. = In Asia orientali (Malacca).
3443. **V. anisomera** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).
3444. **V. cinefaciens** Nyl. *Lich. Andam.* p. 21, ubi definitur. = In Asia meridionali (ins. Andaman).
3445. **V. biformis** Borr. in *Engl. Bot. Supplém.* tab. 2617, fig. 1, Nyl. *Pyrenoc.* p. 54, ubi definitur. = In America. — Etiam in Europa.
3446. \***V. albo-atra** Krempelsh. in herb., Nyl. in *Flora* 1867, p. 8, ubi definitur. = In Asia meridionali (Calcutta).  
— Var. **detergens** Nyl. in *Flora* 1869, p. 125, ubi definitur. = In America tropica (Brasilia).
3447. **V. conformis** Nyl. in *Flora* 1864, p. 357, et *Lich. N. Zeland.* 1888, p. 132, ubi definitur. = In Oceania (Nova Zelandia). — Etiam in Europa (Gallia, *Flora* 1864, p. 357).
3448. **V. uniformis** Nyl. in *Flora* 1866, p. 295, ubi definitur. = In America tropica (ins. Cuba).
3449. **V. consobrina** Nyl. *Lich. N. Caled. Exposit.* p. 53 et *Syn.* p. 92, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).  
— Var. **subglaucescens** Nyl. in litt.; *V. consobrina* var. *glaucescens* Nyl. *Syn. Lich. N. Caled.* p. 92, ubi definitur. Nomen mutatur, quia jam datum fuit, supra n° 3440. = In Oceania (Nova Caledonia).
3450. **V. holopolia** Nyl. *Syn. Lich. N. Caled.* p. 92, ubi definitur, in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

15. — Stirps *Verrucariæ vagæ* Nyl.

Sporæ 8<sup>næ</sup>, incolores, oblongæ vel fusiformes, raro ovoideæ, 4-septatæ; paraphyses graciles.

3451. **V. vaga** Nyl. *Pyrenoc.* p. 55 et *Syn. Lich. N. Caled.* p. 93, ubi definitur; in *Prodr. Lich. N. Caled.* p. 283 et *Exposit.* p. 54 sporæ tantum definiuntur; *Enum. Lich.* p. 139; in *Flora* 1867, p. 196. = In Africa orientali (ins. Mayotte prope Madagascar). — In Oceania (Nova Caledonia).
3452. **V. Tamarindi** Fée *Essai Supplém.* p. 85, Nyl. *Pyrenoc.* p. 56, ubi definitur. = In America tropica (Antillis).
3453. **V. albido-atra** Nyl. in *Flora* 1886, p. 178, *Contrib. da Fl. d'Afric.* p. 14 et *Lich. ins. Guin.* p. 39, ubi definitur. = In Africa occidentali (ins. San Thomé).
3454. **V. bermudana** Tuck. in manuscript., Nyl. *Sert. Lich. trop. Lab. et Singap.* p. 43, ubi definitur. = In America septentrionali (ins. Bermudis).
3455. **V. terminata** Nyl. *Lich. Andam.* p. 21, ubi definitur. = In Asia meridionali (ins. Andaman).
3456. **V. interspersa** Nyl. *Lich. Andam.* p. 22, ubi definitur. = In Asia meridionali (ins. Andaman).
3457. **V. viridiseda** Nyl. *Pyrenoc.* p. 55, ubi definitur; *Enum. Lich.* p. 139. = In America tropica (Guyana gallica).  
— **F. albiseda** Nyl. *Lich. Jap.* p. 108, ubi definitur. = In America septentrionali calida (Florida).

3458. **Verrucaria subprostans** Nyl. *Pyrenoc.* p. 56 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 77 et ed. 2<sup>a</sup> p. 121, ubi definitur; *Enum. Lich. Supplém.* p. 337. = In America septentrionali (Carolina et Texas) et tropica (Nova Granata).

3459. **V. phæa** Ach. *Syn. Lich.* p. 88, Nyl. *Lich. exot.* p. 233 in notula, ubi definitur. = In America tropica (India occidentali).

3460. **V. insulata** Fée *Essai Supplém.* p. 158, tab. XLIII, fig. 3, Nyl. *Pyrenoc.* p. 56 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 121, ubi definitur; *Enum. Lich.* p. 139. = In Asia orientali (China). — In America tropica.

3461. **V. Cinchonæ** Ach. *Syn. Lich.* p. 90, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 122 in notula; *V. prostans* Mont. *Cryptog. guyan.* p. 47 et *Sylog.* p. 365, Nyl. *Pyrenoc.* p. 57, ubi definitur; *Enum. Lich.* p. 139; paraphyses graciles. = In Africa meridionali (promont. Bonæ Spei). — In America tropica (Peruvia, *Lich. exot.* p. 233). — In Oceania (ins. Nukahiva, *Lich. îles Marquis.* p. 302).

3462. **V. planorbis** Ach. *Syn. Lich.* p. 92, Nyl. *Pyrenoc.* p. 58, ubi definitur; *Enum. Lich.* p. 139. = In America tropica.

3463. **V. planiuscula** Nyl. in herb. Fée, *Pyrenoc.* p. 58, ubi definitur; *Enum. Lich.* p. 139; paraphyses confertæ. = In America tropica.

3464. **V. excellens** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3465. **V. subantecellens** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3466. **V. cineriseda** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3467. **V. planorbiculata** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

16. — *Leiophlæa* Ach., Nyl. in *Flora* 1878, p. 453 in notula.

1<sup>o</sup>. — Sporæ 8<sup>næ</sup>, incolores, 4-septatæ; paraphyses ordinariæ desunt.

3468. **V. epidermidis** Ach. *Syn. Lich.* p. 89, Nyl. *Pyrenoc.* p. 58, *Lich. Scand.* p. 281, in *Flora* 1876, p. 233, et *Syn.* I, tab. I, fig. 16, ubi definitur; *Enum. Lich.* p. 139. = Cosmopolita. In Asia orientali (Japonia, *Lich. Jap.* p. 92; ins. Bonin, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 124 in notula, ubi definitur forma peculiaris). — In Africa boreali (Algeria, *Lich. Algér.* p. 316 et *Prodr. Lich. Gall.* p. 190). — In America tropica (Mexico, *Flora* 1858, p. 381). — Etiam in Europa.

— Var. **lactea** Mont., Nyl. *Addit. Fl. chil.* p. 187. = In America meridionali (Chili).

3469. **V. magnifica** Nyl. *Lich. N. Zeland.* 1888, p. 132 et fig. 5, ubi definitur. = In Oceania (Nova Zelandia).

3470. **V. fallax** Nyl. in *Flora* 1872, p. 363, ubi definitur; *V. epidermidis* var. *fallax* Nyl. *Pyrenoc.* p. 59, ubi definitur pr. p.; *Enum. Lich.* p. 139. = In Asia boreali (Konyambay, etc., *Lich. Fr. Behr.* pp. 17 et 48). — In America boreali (Port-Clarence, *Lich. Fr. Behr.* p. 68) et tropica (Mexico, *Flora* 1858, p. 381). — In Oceania (Australia, *Flora* 1886, p. 327). — Etiam in Europa.

3471. **V. fallacior** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3472. **V. subfallens** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3473. **V. fallaciuscula** Nyl. *Lich. Jap.* p. 92, ubi definitur. = In Asia orientali (Japonia). — In America tropica (ins. Cuba, *Flora* 1876, p. 364).

3474. **V. gemellipara** Knight, Nyl. *Lich. N. Zeland.* 1888, p. 132, ubi definitur. = In Oceania (Nova Zelandia).

3475. **V. circumpressa** Nyl. *Lich. N. Zeland.* 1888, p. 132, ubi definitur. = In Oceania (Nova Zelandia).

3476. **V. analepta** Ach. *Syn. Lich.* p. 88, Nyl. *Lich. Pyren.-Orient.* p. 42, ubi defini-



tur; *V. epidermidis* var. *analepta* Nyl. *Pyrenoc.* p. 59 et *Lich. Scand.* p. 281; *Enum. Lich.* p. 139. = In America meridionali (Chili, *Addit. Fl. chil.* p. 187). — Etiam in Europa.

3477. **Verrucaria consequella** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 43. ubi definitur; vix nisi var. *V. consequentis* Nyl. in *Flora* 1864, p. 357. = In America septentrionali (Massachusetts, ubi est saxicola).

3478. **V. ceyloniensis** Nyl. *Lich. East. Asia* p. 61, ubi pro p. definitur. — *Dactyloblastus ceyloniensis* Mass. *Esame comparat. di alc. gen. di Lich.* p. 46. = In Asia meridionali (ins. Ceylonia).

3479. **V. malaccitula** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 61, ubi definitur. = In Asia orientali (Malacca).

3480. **V. punctiformis** Ach. *Syn. Lich.* p. 87, Nyl. *Lich. Pyren.-Orient.* p. 66 et *Lich. N. Zeland.* 1861, p. 259, atque 1888, p. 133, ubi definitur. = In America boreali (Port-Clarence, *Lich. Fr. Behr.* pp. 67 et 68 in notula) et septentrionali calida (Florida, *Lich. ins. Guin.* p. 51). — In Oceania (Nova Zelandia). — Etiam in Europa.

3481. **V. subatomaria** Nyl. *Lich. N. Zeland.* 1888, p. 134, et *Lich. Andam.* p. 22, ubi definitur. = In Oceania (Nova Zelandia).

3482. **V. planorbella** Nyl. *Lich. Andam.* p. 22, ubi definitur. = In Asia meridionali (ins. Andaman).

3483. **V. bryospila** Nyl. in *Flora* 1864, p. 357, et *Lich. Fr. Behr.* p. 67, ubi definitur. = In America boreali (Port-Clarence). — Etiam in Europa boreali (Norvegia).

3484. **V. prospersella** Nyl. *Lich. Jap.* p. 108, ubi definitur; species saxicola accedens ad *Arthopyreniam inconspicuam* Lahm *Westfalen Flechten* p. 149. = In America septentrionali (Illinois).

3485. **V. gemmatella** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 16, ubi definitur; est forsitan Fungillus. = In Oceania (ins. Labuan).

2°. — Sporæ 8<sup>na</sup>, incolores, ovoideæ et simplices.

3486. **V. microphora** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 124, ubi definitur. = In America tropica (Nova Granata).

3°. — Sporæ 8<sup>na</sup>, incolores, ter vel pluri-septatæ.

3487. **V. subpunctiformis** Nyl. *Lich. ins. Guin.* p. 51, ubi definitur. = In America septentrionali calida (Florida).

3488. **V. majuscula** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 122 in notula et *Lich. Jap.* p. 92 atque in *Flora* 1867, p. 9, ubi definitur. = In Asia orientali (ins. Ogassawara, olim Bonin, prope Japoniam) et meridionali (Calcutta).

3489. **V. maurospila** Nyl. *Lich. N. Zeland.* 1888, p. 134, ubi definitur. = In Oceania (Nova Zelandia).

3490. **V. subfallax** Nyl. *Lich. Fueg.* p. 19 ubi definitur. = In America australi (Fuegia).

3491. **V. rhyponia** Nyl. *Pyrenoc.* p. 60 et *Lich. Scand.* p. 281, ubi definitur; *Enum. Lich.* p. 139. = In Africa boreali (Algeria, *Lich. Algér.* p. 316). — Etiam in Europa.

3492. **V. Cerasi** Schrad., Ach. *Syn. Lich.* p. 89, Nyl. *Lich. Pyren.-Orient.* p. 41; *V. epidermidis* var. *Cerasi* Nyl. *Lich. Scand.* p. 281, ubi definitur; *Pyrenoc.* p. 59. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 123, ubi sporæ definiuntur). — Etiam in Europa.

3493. **V. quinque-septata** Nyl. *Pyrenoc.* p. 58, ubi definitur; *Enum. Lich.* p. 139. =

In Asia orientali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 26, ubi sporæ definiuntur). — In America septentrionali (Carolina).

3494. **Verrucaria quinque-septatula** Nyl. apud Cromb. *Ins. Rodrig.* p. 444, ubi definitur. = In Africa orientali (ins. Rodriguez).

3495. **V. zosta** Knight, Nyl. in *Flora* 1886, p. 327, ubi definitur. = In Oceania (Australia).

17. — Stirps *Verrucariæ thelenæ* Ach.

Sporæ 8<sup>næ</sup>, fuscae et 1-septatæ.

3496. **V. thelena** Ach. *Syn. Lich.* p. 92, Nyl. *Pyrenoc.* p. 60, ubi definitur; *Enum. Lich.* p. 139. — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 123, ubi forma peculiaris et sporæ definiuntur).

— F. **albidior** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 123, ubi definitur. = In Asia orientali (China). = In America tropica (Nicaragua).

3497. **V. hymnothora** Ach. *Syn. Lich.* p. 92, Nyl. *Lich. exot.* p. 233, ubi definitur in notula. = In America meridionali (Chili, *Addit. Fl. chil.* p. 187).

3498. **V. apposita** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 123, ubi definitur. = In America tropica (Nova Granata).

3499. **V. conothelena** Nyl. *Lich. Andam.* p. 21, ubi definitur. = In Asia meridionali (ins. Andaman).

— Var. **errans** Nyl. *Lich. Andam.* p. 21, ubi definitur. = In eadem insula.

3500. **V. cinerella** Flot., Nyl. *Pyrenoc.* p. 60 et *Addit. Fl. chil.* p. 174, ubi definitur; *Enum. Lich.* p. 139. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 123, ubi sporæ definiuntur; Bolivia, *Lich. exot.* p. 232) et meridionali (Chili).

3501. **V. thelenula** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3502. **V. microthelena** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

3503. **V. miculiformis** Nyl. in *Flora* 1876, p. 364. = In America tropica (ins. Cuba).

— Var. **distincta** Nyl. in *Flora* 1876, p. 364. = In eadem regione.

3504. **V. abditula** Nyl. in litt. = In America tropica (ins. Cuba, legit Wright, n<sup>o</sup> 521).

18. — Stirps *Verrucariæ oxysporæ* Nyl.

Sporæ 8<sup>næ</sup>, incolores et aciculares.

3505. **V. raphidiophora** Nyl. *Syn. Lich. N. Caled.* p. 93, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

Incertæ sedis.

3506. **V. evanidula** Nyl. in *Flora* 1887, p. 136, ubi definitur. = In Asia orientali (China). — In Africa australi (ins. Kerguelen).

Subgen. II. — *Trypethelium* Ach., Nyl. *Syn. Lich. N. Caled.* p. 94.

Sectio A. — APOTHECIA SUBSOLITARIA.

3507. **T. uberinum** Nyl. *Pyrenoc.* p. 72 et *Syn.* I, tab. I, fig. 20, ubi definitur; *Enum. Lich.* p. 141. — *Pyrenula uberina* Fée *Essai* p. 83, tab. XX, fig. 3, et *Supplém.* p. 84. = In America tropica (Peruvia, *Lich. exot.* p. 233).

3508. **Trypethelium uberinoides** Nyl. *Pyrenoc.* p. 72, ubi definitur; in *Flora* 1858, p. 381. = In America tropica (Mexico).

3509. **T. melanophthalmum** Nyl. *Pyrenoc.* p. 72 et *Syn.* I, tab. I, fig. 21, ubi definitur; *Enum. Lich.* p. 141. — *Verrucaria melanophthalma* Mont. *Syllog.* p. 365 (ex specimine auctoris, sed non ex indicatione sporarum). = In America tropica (Guyana).

— **F. arcte-cinctum** Nyl. *Pyrenoc.* p. 73, ubi definitur. — *Pyrenula arcte-cincta* Fée *Essai Supplém.* p. 84. = In America tropica.

3510. **T. megaspermum** Mont. *Cryptog. guyan.* p. 52 et *Syllog.* p. 371, Nyl. *Enum. Lich.* p. 141. — *Verrucaria globifera* Eschw. *Fl. brasil.* p. 131, Nyl. in *Flora* 1866, p. 295, ubi errore legitur *V. globulifera*. = In America tropica (ins. Cuba; Guyana; Brasilia).

Sectio B. — APOTHECIA PLURA CONNATA.

a. — Sporæ pauciloculares, typice quadriloculares.

3511. **T. anomalum** Ach. *Syn. Lich.* p. 405 pr. p., hoc est quoad specimen in Indiis lectum, nam exemplar e Guinea proveniens ad aliam speciem attinet, Nyl. in *Flora* 1865, p. 429. — *Melanothecha Achariana* Fée *Essai Supplém.* p. 71, tab. XXXVI, fig. 10, in tab. XLI fig. 1 sporæ juveniles tantum 1-septatæ indicantur; Nyl. *Pyrenoc.* p. 69, ubi definitur; *Enum. Lich.* p. 140, et *Syn. Arthon.* p. 88 in notula. — *Mycoporum Acharii* Meyer in *Spreng. Syst.* IV, p. 242. — *Porodothion Acharii* Mont. *Cub.* p. 153. = In Africa tropica (Guinea). — In America tropica (Antillis, Guyana, etc.).

3512. **T. cruentum** Mont. *Cryptog. guyan.* p. 53 et *Syllog.* 372; Nyl. *Pyrenoc.* p. 73, ubi definitur; *Enum. Lich.* p. 141. = In Asia orientali (ins. Bonin seu Ogassawara, *Verrucaria erythrothelia* Nyl. in herb. Tuck., Nyl. *Lich. Jap.* p. 93). — In America tropica (Guyana).

— **F. subdecolor** Nyl. *Lich. Jap.* p. 93, ubi definitur; materia « cruenta » chrysophanica K violaceo dissolvitur. = In Asia orientali (ins. Bonin).

3513. **T. cruentatum** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3514. **T. cruentulum** Nyl. apud Croumb. *Ins. Rodrig.* p. 445, ubi definitur. = In Africa orientali (ins. Rodriguez).

3515. **T. subincrumentum** Nyl. *Lich. Jap.* p. 109, ubi definitur; materia cruenta K violaceo-dissolvitur. = In America septentrionali calida (Florida).

3516. **T. Scoria** Fée *Essai* p. 69 et *Supplém.* p. 61, *Monogr. Trypeth.* p. 37, tab. XV, fig. 2, Nyl. *Pyrenoc.* p. 74, ubi definitur; *Enum. Lich.* p. 141; *Tr. phlyctæna* Fée *Essai* p. 68, tab. XIX, fig. 3, et *Supplém.* p. 61 (non *Tr. phlyctenula* ut errore scripsit D<sup>r</sup> Nylander); *Tr. Feei* Meissner, Fée *Monogr. Trypeth.* p. 33, tab. XIV fig. 2, et *Essai Supplém.* p. 60; *Tr. carolinanum* Tuck. *Syn. North Americ. Lich.* II, p. 139, ubi cum *Tr. Scoria* Nyl. sub *Tr. mastoideo* Ach. ponitur. = In America septentrionali (Carolina) et tropica (Mexico, *Flora* 1858, p. 381; Nova Granata, *Prodr. Fl. N. Gran. Addit.* p. 579; etc.).

— **F. endochraceum** Nyl. *Lich. Jap.* p. 115, et *Sert. Lichen. trop. Lab. et Singap.* p. 16, ubi spermatia definiuntur. = In Oceania (ins. Labuan).

— Var. 1. **convexum** Nyl. *Pyrenoc.* p. 74, ubi definitur. = In America tropica.

— Var. 2. **sordidius** Nyl. in *Flora* 1869, p. 126, ubi definitur. = In America tropica (Brasilia).

3517. \* **T. Leprieurii** Mont. *Cryptog. guyan.* p. 52 et *Syllog.* p. 372, Nyl. *Pyrenoc.* p. 74, ubi definitur; *Enum. Lich.* p. 141. = In America tropica (Guyana gallica).

3518. **T. phæothelium** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 579, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

3519. **T. ochroleucum** Nyl. in *Flora* 1869, p. 126, ubi sporæ et spermatia definiuntur.



— *Verrucaria ochroleuca* Eschw. *Fl. brasil.* p. 135, quæ in Nyl. *Enum. Lich.* p. 139 sub nomine erroneo *V. ochrochlora* scribitur. — *Trypethelium pallescens* Fée *Monogr. Trypeth.* p. 31, tab. XIII, fig. 3, et *Essai Supplém.* p. 60; Nyl. *Pyrenoc.* p. 74, ubi definitur; *Enum. Lich.* p. 141; *Tr. erubescens* Kunz., Fée *Monogr. Trypeth.* p. 32, tab. XIV, fig. 1 et *Essai Supplém.* p. 60; *Tr. Kunzei* Fée *Essai Supplém.* p. 61; *Tr. quassiæcola* Fée *Monogr. Trypeth.* p. 39, tab. XV, fig. 2, et *Essai Supplém.* p. 62, nec differre videtur *Verrucaria tessella* Pers. Variat sporis 6-ocularibus. — In Asia orientali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 26, ubi pr. p. definitur) et meridionali (Calcutta, *Flora* 1867, p. 9, ubi sporæ definiuntur). — In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup>, p. 79, ed. 2<sup>a</sup> p. 127 et *Addit.* p. 579, ubi sporæ definiuntur; Brasilia). — In Oceania (ins. Marianis).

— Var. **subdissocians** Nyl. in *Flora* 1864, p. 618. — In America tropica (Nova Granata).

3520. **Trypethelium straminicolor** Nyl. *Lich. Jap.* p. 115 et *Sert. Lichen. trop. Lab. et Singap.* p. 15, ubi definitur. — In Asia orientali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 26). — In Oceania (ins. Labuan).

3521. **T. exocanthum** Tuck. *Syn. North Americ. Lich.* II, p. 140, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 127, ubi definitur, et *Lich. Jap.* p. 109, ubi sporæ definiuntur. — In America septentrionali (Alabama et Louisiana).

3522. **T. erumpens** Fée *Monogr. Trypeth.* p. 27, tab. XIII, fig. 1, et *Essai Supplém.* p. 58, Nyl. *Pyrenoc.* p. 75, ubi definitur; *Enum. Lich.* p. 141. — In America tropica (Peruvia, *Lich. exot.* p. 233).

3523. **T. pulcherrimum** Fée *Monogr. Trypeth.* p. 41, tab. XI, fig. 2, et *Essai Supplém.* p. 63, Nyl. *Pyrenoc.* p. 75, ubi definitur; *Enum. Lich.* p. 141; *T. porosum* Fée *Essai Supplém.* p. 69, tab. XIX, fig. 2. — In America tropica (Antillis).

3524. **T. duplex** Fée *Monogr. Trypeth.* p. 28, tab. XIII, fig. 4, et *Essai Supplém.* p. 58, Nyl. *Pyrenoc.* p. 75, ubi definitur; *Enum. Lich.* p. 141. — In America tropica (Antillis).

3525. **T. triplex** Nyl. in *Flora* 1869, p. 125, ubi definitur. — In America tropica (Brasilia).

3526. **T. inconspicuum** Meissner, Fée *Monogr. Trypeth.* p. 40, tab. XVI, fig. 3, et *Essai Supplém.* p. 63, Nyl. *Pyrenoc.* p. 76, ubi definitur; *Enum. Lich.* p. 141; *Tr. crassum* Fée *Monogr. Trypeth.* p. 43, tab. XVI, fig. 5, *Essai* p. 66, tab. XIX, fig. 5. — *Pyrenodium crassum* Fée *Essai Supplém.* p. 69. — In America tropica (Peruvia, *Lich. exot.* p. 233).

3527. **T. nigritulum** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 79, ed. 2<sup>a</sup> p. 127 et *Addit.* p. 579, ubi definitur. — In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 61). — In America tropica (Nova Granata). — In Oceania (ins. Labuan, *Lich. Jap.* p. 116 et *Sert. Lichen. trop. Lab. et Singap.* p. 17).

3528. **T. leucotrypum** Nyl. in *Flora* 1867, p. 9, ubi definitur. — In Asia meridionali (Calcutta).

3529. **T. annulare** Mont. *Cryptog. guyan.* p. 53 et *Sylog.* p. 372, Nyl. *Pyrenoc.* p. 76, ubi definitur; *Enum. Lich.* p. 141. — *Pyrenula annularis* Fée *Essai* p. 73, tab. XXI, fig. 4, et *Supplém.* p. 77. — In America tropica (ins. Guadalupa, *Lich. Antill.* p. 24; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 80 et ed. 2<sup>a</sup> p. 127, ubi sporæ definiuntur; Bolivia, *Lich. exot.* p. 233; Brasilia, ubi viget forma peculiaris cujus sporæ definiuntur in *Flora* 1869, p. 126).

— F. **meiophorum** Nyl. *Syn. Lich. N. Caled.* p. 93, ubi definitur. Definitur etiam sine nomine in *Exposit. Lich. N. Caledon.* p. 54 et typus citatur in *Flora* 1867, p. 196. — In Oceania (Nova Caledonia).

— Var. **subdepressum** Nyl. *Pyrenoc.* p. 76, ubi definitur; *Lich. exot.* p. 233; *T. an-*

*nulare* var. *oleagineum* Nyl. *Enum. Lich.* p. 141. — *Pyrenula oleagina* Fée *Essai Supplém.* p. 79. = In America tropica (Bolivia).

3530. **Trypethelium ochrothelium** Nyl. *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 80 et ed. 2<sup>a</sup> p. 128, ubi definitur. = In America tropica (Nova Granata).

3531. **T. ochrothelizum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 26, ubi definitur. = In Asia orientali (Singapoure). — In America tropica (ins. Cuba, *Flora* 1876, p. 365).

3532. **T. sulbalbens** Nyl. in *Flora* 1886, p. 178, *Contrib. da Fl. d'Afric.* p. 14 et *Lich. ins. Guin.* p. 39, ubi definitur. = In Africa occidentali (ins. San Thomé).

3533. **T. scorizum** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3534. **T. acrophæum** Nyl. in *Flora* 1876, p. 365. Ad stirpem peculiarem pertinet. = In America tropica (ins. Cuba).

3535. **T. columbianum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 579, ubi definitur; in *Flora* 1864, p. 618. Tangit *Tr. uberinum* Nyl. supra n° 3507. = In America tropica (Nova Granata).

3536. **T. Sprengelii** Ach. *Syn Lich.* p. 104, Nyl. *Pyrenoc.* p. 77 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 128, ubi sporæ definiuntur; *Enum. Lich.* p. 141; Fée *Essai* p. 65, tab. I, fig. 18, et XIX, fig. 1, *Supplém.* p. 56; Mont. *Cryptog. guyan.* p. 53. = In Asia orientali (Japonia, *Lich. Jap.* p. 93; Malacca et Japonia, Nyl. et Cromb. *Lich. East. Asia* pp. 61 et 69) et meridionali (Calcutta, *Flora* 1867, p. 9, ubi sporæ definiuntur). — In America tropica (Antillis; Guyana, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 128, ubi sporæ definiuntur; Nova Granata, *ibid.* et ed. 1<sup>a</sup> p. 80; Peruvia, *Lich. exot.* p. 233). — In Oceania (ins. Java, *Flora* 1866, p. 135).

— F. **inæquale** Nyl. *Pyrenoc.* p. 77 in notula, ubi definitur; *Tr. inæquale* Fée *Monogr. Trypeth.* p. 30, tab. XIII, fig. 2, et *Essai Supplém.* p. 59. = In America tropica (Peruvia).

— Var. 1. **Anacardii** Nyl. *Pyrenoc.* p. 77 in notula; *Enum. Lich.* p. 141; *Tr. Anacardii* Fée *Monogr. Trypeth.* p. 21, tab. XI, fig. 3, *Essai Supplém.* p. 57, tab. XL Trypeth. fig. 2. = In America tropica (ins. Guadalupa).

— Var. 2. **papillosum** Nyl. *Pyrenoc.* p. 77, ubi definitur; *Tr. papillosum* Ach. *Syn. Lich.* p. 104. = In Africa occidentali (Guinea).

3537. **T. platystomum** Mont. *Syllog.* p. 372, Nyl. *Pyrenoc.* p. 77, ubi definitur; *Enum. Lich.* p. 141. = In Asia orientali (Singapoure, Nyl. et Cromb. *Lich. East. Asia* p. 61). — In America tropica (Guyana gallica).

— F. **leucostomum** Nyl. in *Flora* 1886, p. 178, *Contrib. da Fl. d'Afric.* p. 14 et *Lich. ins. Guin.* p. 39, ubi definitur. = In Africa occidentali (ins. San Thomé).

3538. **T. virens** Tuck. *Syn. North Americ. Lich.* II, p. 139, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 128 in notula; *Tr. Sprengelii* var. *virens* Nyl. *Pyrenoc.* p. 77, ubi definitur. = In Asia orientali (Malacca, Nyl. et Cromb. *Lich. East. Asia* p. 61). — In America tropica.

3539. **T. scorites** Tuck. *Syn. North Americ. Lich.* II, p. 139, Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 128 in notula, ubi definitur. — *Verrucaria scorites* Tuck. = In America septentrionali (Misissippi).

3540. **T. epileucodes** Nyl. *Lich. Jap.* p. 116 et *Sert. Lichen. trop. Lab. et Singap.* p. 16, ubi definitur. = In Oceania (ins. Labuan).

b. — Sporæ murali-divisæ.

3541. **T. meristoporum** Mont. et v. d. Bosch *Plant. Junghuhn.* p. 487, Mont. *Syllog.* p. 373, Nyl. *Pyrenoc.* p. 77, ubi definitur; *Enum. Lich.* p. 141. = In Oceania (ins. Java).

3542. **T. varium** Nyl. *Pyrenoc.* p. 78, ubi definitur; *Enum. Lich.* p. 141. — *Meissneria varia* Fée *Essai supplém.* p. 66. = In America tropica (Brasilia).

3543. **T. variatulum** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3544. **Trypethelium variatum** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 579, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

3545. **T. subvariatum** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3546. **T. madreporiforme** Eschw. *Fl. brasil.* p. 156, Nyl. *Pyrenoc.* p. 78, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 80 et ed. 2<sup>a</sup> p. 128 et in *Flora* 1869, p. 73, ubi definitur; *Enum. Lich.* p. 141; *Tr. marginatum* Fée *Monogr. Trypeth.* p. 24, tab. XII, fig. 2, *Essai supplém.* p. 57. = In Asia meridionali (Bengalia). — In Africa tropica. — In America tropica. — In Oceania (Nova Zelandia, *Lich. N. Zeland.* 1888, p. 134).

3547. **T. phæomelodes** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3548. **T. infuscatulum** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

3549. **T. Cumingii** Mont. *Sylog.* p. 373, Nyl. *Pyrenoc.* p. 78, ubi definitur; *Enum. Lich.* p. 141. = In Oceania (ins. Philippinis).

3550. **T. sphærioides** Mont. *Cryptog. Guyan.* p. 53 et *Sylog.* p. 373, Nyl. *Pyrenoc.* p. 79, ubi definitur; *Enum. Lich.* p. 141. = In Africa tropica (Guinea). — In America tropica (Guyana).

3551. **T. porosum** Ach. *Syn. Lich.* p. 106, Nyl. *Pyrenoc.* p. 79, ubi definitur; *Enum. Lich.* p. 141. = In America tropica (India occidentali).

— **F. endoleucum** Nyl. *Pyrenoc.* p. 79, ubi definitur. — *Pyrenula endoleuca* Fée *Essai* p. 79 et *Supplém.* p. 83. = In America tropica (Antillis).

3552. **T. connivens** Nyl. *Pyrenoc.* p. 79, ubi definitur; *Lich. exot.* p. 233 et *Enum. Lich.* p. 141. = In America tropica (Peruvia).

3553. **T. subdiscretum** Nyl. in *Flora* 1869, p. 73, ubi definitur. = In Asia meridionali (Bengalia).

Gen. CXXVI. — PARATHELIUM Nyl.

3554. **P. polysemum** Nyl. in *Bot. Zeit.* 1862, p. 279, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78, tab. II, fig. 53, et ed. 2<sup>a</sup> p. 126, ubi definitur. = In America tropica (Nova Granata).

3555. **P. indutum** Nyl. in *Bot. Zeit.* 1862, p. 279, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 79, tab. II, fig. 54, et ed. 2<sup>a</sup> p. 126, ubi definitur. = In America tropica (Nova Granata).

3556. **P. emergescens** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

Gen. CXXVII. — THELOPSIS Nyl. *Pyrenoc.* p. 65.

3557. **T. inordinata** Nyl. in *Flora* 1867, p. 9, ubi definitur. = In Asia meridionali (Calcutta).

3558. **T. melathelia** Nyl. in *Flora* 1864, p. 258, ubi definitur. = In Asia boreali (Konnyambay, *Lich. Fr. Behr.* p. 26). — Etiam in Europa (Scotia).

Gen. CXXVIII. — STRIGULA Fr.

3559. **S. complanata** Mont. *Cuba* p. 140, tab. VII, fig. 3, et *Sylog.* p. 375, Nyl. *Pyrenoc.* p. 65 et *Syn. Lich. N. Caled.* p. 96, ubi definitur; *Enum. Lich.* p. 140. — *Phyllocharis complanata* Fée *Essai* p. XCIX, tab. II, fig. 3. — *Stigmatidium phyllochare* Spreng. *Stat. Veget.* 4, p. 243. — *Strigula orbicularis* Fr. *Ecl. Fung.* p. 549. — *Phyllocharis elegans* Fée *Essai* p. C, tab. II, fig. 7. — *Craspedon concretum* Fée ibid. tab. II, fig. 4. — *Stigmatidium elegans* et *St. concretum* Spreng. loc. citat. — *Verrucaria epiphylla* Eschw. *Fl. brasil.* p. 141. — *Strigula Feei* Mont. *Cuba* p. 135, tab. VII, fig. 4, et *Sylog.* p. 375. Specimina pycnidifera sistunt *Strigulam melanophthalmam* Mont. *Sylog.* p. 376, *Melanophthalmum Antillarum* Fée *Essai* p. C, tab. II, fig. 2. = In omnibus fere regionibus tropicis. In Africa



occidentali (ins. San Thomé, *Contrib. da Fl. d'Afric.* p. 15 et *Lich. ins. Guin.* p. 39, et in hoc posteriore loco sporæ definiuntur). — In America tropica (ins. Cuba; Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 78 et ed. 2<sup>a</sup> p. 125). — In Oceania (ins. Java; Nova Caledonia, *Exposit. Lich. N. Caled.* p. 54 et *Flora* 1867, p. 196).

— Var. 1. **virescens** Nyl. *Pyrenoc.* p. 67, ubi definitur; *Enum. Lich.* p. 140. — *Cepha-leuros virescens* Kunz. = Obvenit cum typo. In Oceania (Polynesia, *Lich. exot.* p. 247).

— Var. 2. **major** Nyl. in Museo Berolinensi, *Prodr. Fl. N. Gran. Addit.* p. 578. = In America tropica (Caraccas).

3560. **Strigula Nemathora** Mont. *Cuba* p. 143 et *Syllog.* p. 375, Nyl. *Pyrenoc.* p. 67 et *Syn. Lich. N. Caled.* p. 96, ubi definitur; *Enum. Lich.* p. 140. — *Nemathora argentea* Fée *Essai* p. XCIV, tab. II, fig. 4 et 8. = In omnibus fere regionibus tropicis. In America tropica (ins. Cuba). — In Oceania (Nova Caledonia, *Exposit. Lich. N. Caled.* p. 54 et *Flora* 1867, p. 196).

3561. **S. actinoplaca** Nyl. *Pyrenoc.* p. 67 et *Sert. Lichen. trop. Lab. et Singap.* p. 27, ubi definitur; *Enum. Lich.* p. 140. = In Asia orientali (Singapoure, legit Almquist). — In America tropica (Mexico).

3562. **S. nitidula** Mont. *Cuba* p. 139, tab. VII, fig. 2, et *Syllog.* p. 375, Nyl. *Pyrenoc.* p. 68, ubi definitur; *Enum. Lich.* p. 140. = In America tropica (ins. Cuba).

3563. **S. hypothelia** Nyl. *Lich. Angol.* p. 520, ubi definitur. = In Africa meridionali (Angola).

3564. **S. Microthyrium** Mont. *Syllog.* p. 376, Nyl. *Lich. exot.* p. 247. = In Oceania (ins. Taïti).

3565. **S. ciliata** Mont. *Syllog.* p. 376, Nyl. *Lich. exot.* p. 247 et *Pyrenoc.* p. 68 in notula. = In Oceania (ins. Taïti).

Gen. CXXIX. — SARCOPIYRENIA Nyl.

3566. **S. gibba** Nyl. *Pyrenoc.* p. 69, ubi definitur; *Enum. Lich. Supplém.* p. 337. — *Verrucaria gibba* Nyl. *Lich. algeriens.* p. 315, *Lich. Algér.* p. 342 et *Prodr. Lich. Gall.* p. 185, ubi definitur; *Enum. Lich.* p. 137. = In Africa boreali (Algeria). — Etiam in Europa.

Gen. CXXX. — MELANOTHECA Fée.

3567. **M. crotonicola** Nyl. in *Flora* 1865, p. 429. « Thallus macula alba subfarinosa indicatus; sporæ 8<sup>m</sup>, 3-septatæ, longit. 0,016-22 et crass. 0,007-8 millim. » = In America tropica.

3568. **M. brasiliensis** Nyl. in *Flora* 1865, p. 429. « Thallus macula albida vel pallida, nigricanti-limitata indicatus. Apothecia nigra maculari-diformia, latit. 1-2 millim. et non-nihil latiora, convexula; sporæ 8<sup>m</sup>, incolores, 4-septatæ, longit. 0,024-36 et crass. 0,011-13 millim. » = In America tropica (Brasilia, legit Martius).

3569. **M. arthoniella** Nyl. *Pyrenoc.* p. 70, ubi definitur; *Enum. Lich.* p. 140 et in *Flora* 1865, p. 429. = In America tropica (Brasilia).

3570. **M. indica** Nyl. in *Flora* 1867, p. 9, ubi definitur. = In Asia meridionali (Calcutta).

— Var. **vaga** Nyl. in *Flora* 1867, p. 9 in notula, ubi definitur. = In Asia meridionali (Calcutta).

3571. **M. gelatinosa** Nyl. *Pyrenoc.* p. 70, ubi definitur; in *Flora* 1865, p. 429; *Enum. Lich.* p. 140. — *Arthonia gelatinosa* Chev. *Fl. envir. Paris* I, p. 543. = In Asia orientali (Japonia, *Lich. Jap.* p. 93, ubi sporæ definiuntur). — In Oceania (Australia, *Flora* 1886, p. 327, ubi sporæ adhuc definiuntur). — Etiam in Europa.

3572. **Melanotheca aciculifera** Nyl. *Pyrenoc.* p. 71 et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 79 et ed. 2<sup>a</sup> p. 126, ubi definitur; *Enum. Lich.* et in *Flora 1865* locis citat. = In America tropica (Guyana gallica; Nova Granata).

3573. **M. agminella** Nyl. in *Flora 1876*, p. 365. = In America tropica (ins. Cuba).

3574. **M. opegraphella** Nyl. *Syn. Arthon.* p. 88 in notula. = In America tropica (Guyana gallica, in Museo parisiensi).

Gen. CXXXI. — ASTROTHELIUM Eschw.

Sectio A. — SPORÆ TRISEPTATÆ VEL 4-LOCULARES.

3575. **A. pyrenastræum** Nyl. *Lich. Jap.* p. 109, ubi definitur. = In America septentrionali calida (Florida).

3576. **A. conicum** Eschw. *Fl. Brasil.* p. 163, Nyl. *Pyrenoc.* p. 80, ubi definitur; *Enum. Lich.* p. 141. — *Pyrenastrum cinnamomeum* Eschw. = In America tropica meridionali.

3577. **A. leucoconicum** Nyl. in *Flora 1869*, p. 126, ubi definitur. = In America tropica (Brasilia).

3578. **A. sulphureum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 129 et *Addit.* p. 580, ubi sporæ definiuntur. — *Pyrenastrum sulphureum* Eschw. *Fl. brasil.* p. 144. — *Pyrenodium hypoxylon* Fée *Essai Supplém.* p. 69; *Astrothelium hypoxylon* Nyl. *Pyrenoc.* p. 80, ubi definitur; *Enum. Lich.* p. 141. Melius forsitan ad *Trypethelia* referatur, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 128. = In America tropica (Nova Granata, *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 80; Peruvia, *Lich. exot.* p. 233).

— Var. 1. **macrocarpon** Nyl. *Pyrenoc.* p. 80, ubi definitur; *Enum. Lich.* p. 140. — *Porina macrocarpa* Fée *Essai* p. 81. — *Pyrenodium macrocarpon* Fée *Essai supplém.* p. 69. = In America tropica meridionali.

— Var. 2. **subpallescens** Nyl. *Syn. Lich. N. Caled.* p. 94, ubi definitur; in *Flora 1867*, p. 196. = In Oceania (Nova Caledonia).

3579. **A. clandestinum** Nyl. *Pyrenoc.* p. 81, ubi definitur; *Enum. Lich.* p. 141. — *Trypethelium clandestinum* Fée *Essai* p. 68, tab. XVIII, fig. 4. — *Pyrenodium clandestinum* Fée *Essai Supplém.* p. 68. = In America tropica (Peruvia, *Lich. exot.* p. 233).

3580. **A. leucothelium** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 580, ubi definitur. = In America tropica (Nova Granata).

3581. \***A. scorioides** Nyl. *Prodr. Fl. N. Gran. Addit.* p. 580, ubi definitur; in *Flora 1864*, p. 618. = In America tropica (Nova Granata).

3582. **A. cubanum** Nyl. in *Flora 1876*, p. 365. = In America tropica (ins. Cuba).

3583. **A. cryptothelium** Nyl. in *Flora 1876*, p. 365. = In America tropica (ins. Cuba).

Sectio B. — SPORÆ PLURILOCULARES, 6-18 SEPTATÆ VEL MURALI-DIVISÆ.

3584. **A. ochrocleistum** Nyl. *Lich. N. Zeland.* 1888, p. 135, ubi definitur. = In Oceania (Nova Zelandia).

3585. **A. diplocarpum** Nyl. *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 129 in notula et *Addit.* p. 580, ubi definitur; in *Flora 1864*, p. 618. = In America tropica (Nova Granata).

3586. **A. diplocarpoides** Nyl. in *Flora 1876*, p. 365. = In America tropica (ins. Cuba).

3587. **A. subæquans** Nyl. in *Flora 1876*, p. 365. = In America tropica (ins. Cuba).

3588. **A. homothelium** Nyl. in *Flora 1876*, p. 365. = In America tropica (ins. Cuba).

3589. **A. pyrenastroides** Nyl. *Lich. N. Zeland.* 1888, p. 135 et fig. 1, ubi definitur;

Lojka *Lich. univ.* n° 149. — *Verrucaria pyrenastroides* Knight. = In America tropica (ins. Cuba, *Flora* 1876, p. 365). — In Oceania (Nova Zelandia).

3590. **Astrothelium sepultum** Mont. *Cryptog. guyan.* p. 53 et *Sylog.* p. 374, Nyl. *Pyrenoc.* p. 81, ubi definitur; *Enum. Lich.* p. 141. = In America meridionali tropica (Guyana; Peruvia, *Lich. exot.* p. 233).

3591. **A. heterophorum** Nyl. *Syn. Lich. N. Caled.* p. 94, ubi definitur; in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

3592. **A. interlatens** Nyl. *Syn. Lich. N. Caled.* p. 95, ubi definitur; *A. intercalans* Nyl. in *Flora* 1867, p. 196; *Trypethelium megaspermum* Mont. *Cryptog. guyan.* p. 52 et *Sylog.* p. 371; Nyl. *Exposit. Lich. N. Caled.* p. 54, ubi sporæ definiuntur. Sporæ binæ in thecis et fuscæ. = In America tropica (Guyana). — In Oceania (Nova Caledonia).

— Var. **nudatum** Nyl. *Lich. N. Caled.* p. 95, ubi definitur; *A. intercalans* var. *denudatum* Nyl. in *Flora* 1867, p. 196. = In Oceania (Nova Caledonia).

#### Subtrib. II. — Peridiei.

#### Gen. CXXXII. — MYCOPORUM Flot.

##### Sectio A. — SPORÆ 1-SEPTATÆ.

3593. **M. marmoratum** Schl., Nyl. in *Flora* 1878, p. 344. = In Africa boreali (Algeria). — Etiam in Europa.

3594. **M. sparsellum** Nyl. *Prodr. Fl. N. Granat. Addit.* p. 575, ubi definitur; in *Flora* 1864, p. 618. = In America tropica (Nova Granata).

3595. **M. melaspileoides** Nyl. *Syn. Lich. N. Caledon.* p. 65, ubi definitur. = In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

3596. **M. perminimum** Nyl. in *Flora* 1878, p. 341, ubi definitur. = In Africa boreali (Algeria).

3597. **M. abrothalloides** Nyl. *Syn. Lich. N. Caled.* p. 66, ubi definitur. = In Oceania (Nova Caledonia, *Flora* 1867, p. 196).

3598. **M. melatylum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 17, ubi definitur. = In Oceania (ins. Labuan).

3599. **M. melatyloides** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 17, ubi definitur. = In Oceania (ins. Labuan).

##### Sectio B. — SPORÆ MURALI-DIVISÆ.

3600. **M. pycnocarpum** Nyl. in *Flora* 1858, p. 381, et *Prodr. Fl. N. Gran.* ed. 1<sup>a</sup> p. 73 et ed. 2<sup>a</sup> p. 111, ubi definitur, et *Addit.* p. 576; *Enum. Lich.* p. 135. = In America tropica (Mexico; Nova Granata).

— Var. **ohiense** Nyl. *Enum. Lich.* p. 135. = In America septentrionali (Ohio).

3601. **M. consimillimum** Nyl. in *Flora* 1886, p. 177, *Contrib. da Fl. d'Afric.* p. 12 et *Lich. ins. Guin.* p. 34, ubi definitur; thallus K + flavet. Affinis est illa species *M. fusco-cinereo* Nyl. apud Zwackh *Lich. Heidelb.* p. 79, *Arthoniæ fusco-cinereæ* Zwackh *Exsicc.* n° 311. = In Africa occidentali (ins. San Thomé).

3602. **M. deflexulum** Nyl. in *Flora* 1876, p. 365. = In America tropica (ins. Cuba).

#### Gen. CXXXIII. — ENDOCOCCUS Nyl.

3603. **E. erraticus** Nyl. *Pyrenoc.* p. 64, *Lich. Scand.* p. 283 et *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup>



p. 124, ubi definitur; *Enum. Lich.* p. 140. — *Tichotecium erraticum* Mass. *Symmict. Lich. nov.* p. 94. — *Microthelia ventosicola* Mudd. *Brit. Lich.* p. 307, *Exsicc.* n° 300. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 43). — In Africa boreali (Algeria, *Quelq. Lich. Algér.* p. 217, ubi sporæ definiuntur). — In America tropica (Nova Granata). — Etiam in Europa.

3604. **Endococcus exocarpellus** Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 61, ubi definitur. = In Asia orientali (Singapoure).

3605. **E. Thalamita** Nyl. apud Cromb. *Challeng. Expedit.* p. 217, ubi definitur. = In America septentrionali (ins. Bermudis).

3606. **E. gemmifer** Nyl. *Pyrenoc.* p. 64, ubi definitur et errore scribitur *E. gemmiferus* Nyl. — *Verrucaria gemmifera* Tayl. = In Asia boreali (Konyambay, *Lich. Fr. Behr.* p. 25). — Etiam in Europa.

Gen. CXXXIV. — LEPRARIA Ach.

I. — *Thallus gonimicus.*

3607. **Dendriscoaulon bolacinum** Nyl. apud Hue *Addend. Lichenogr. europ.* p. 315. — *Collema atro-cæruleum* var. *bolacinum* Schær. *Enum. Lich. europ.* p. 249. = Supra thallum *Ricasolix glomuliferæ* de Notar., Nyl. *Syn.* I, p. 369.

3608. **Dendriscoaulon filicinellum** Nyl. *Lich. N. Zeland.* 1888, p. 40, ubi definitur. — *Leptogium dendroides* Nyl. in *Flora* 1867, p. 438, ubi definitur. = In Oceania (Nova Zelandia).

II. — *Thallus gonidicus.*

3609. **Leprocaulon nanum** Nyl. apud Hue *Addend. Lichenogr. europ.* p. 316. — *Stereocaulon nanum* Ach., Nyl. *Syn.* I, p. 253, ubi definitur; *Enum. Lich.* p. 97; thallus K flavet, *Sert. Lichen. trop. Lab. et Singap.* p. 43 in notula. = In Africa boreali (Algeria, *Lich. Algér.* p. 308 et *Prodr. Lich. Gall.* p. 42). — Etiam in Europa.

3610. **Leprocaulon tenellum** Nyl. *Lich. Jap.* p. 49. — *Stereocaulon tenellum* Tuck. in *Bot. Wilkes Voyag.* p. 123, tab. II, fig. 2; thallus K vix lutescit. = In Asia orientali (Japonia). — In America tropica (Peruvia).

3611. **Leprocaulon Arbuscula** Nyl. *Lich. ins. Guin.* p. 8. — *Stereocaulon Arbuscula* Nyl. *Syn.* I, p. 253, ubi definitur; *Enum. Lich.* p. 97. = In Asia (mont. Himalaya). — In Africa occidentali (ins. San Thomé). — In America tropica (ins. Cuba, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 42).

His tribus speciebus addendum est *Leprocaulon albicans* Nyl., *Stereocaulon albicans* Th. Fr. pr. p., Nyl. supra n° 268. Huic speciei immerito jungitur a cl. Tuckerman *Syn. North Americ. Lich.* I, p. 234 *Stereocaulon tenellum* Tuck., quod a cel. Nylander propria habetur species, supra n° 3610.

3612. **Leproloma lanuginosum** Nyl. in *Flora* 1883, p. 407. — *Lichen lanuginosus* Ach. *Prodr. Lich.* p. 465. — *Amphiloma lanuginosum* Nyl. *Syn.* II, p. 52, ubi definitur et datur ut mere europæum. = In Asia orientali (Japonia, *Lich. Jap.* p. 88). — In Africa orientali (ins. Socotora, Stizenb. *Lichen. African.* p. 87, ubi indicatur etiam uterque sequens locus. — In America tropica (Brasilia). — In Oceania (Nova Zelandia). — Etiam in Europa.

3613. **Lepraria flava** Ach. *Lichenogr. univ.* p. 663; Nyl. *Lich. Jap.* p. 416. = In Oceania (ins. Labuan, *Sert. Lich. trop. Lab. et Singap.* p. 17). — Etiam in Europa.

3614. **Lepraria latebrarum** Ach. *Lichenogr. univ.* p. 665; Nyl. *Lich. N. Zeland.* 1888, p. 136. = In Oceania (Nova Zelandia). — Etiam in Europa.

3615. **Lepraria farinosa** Ach. *Lichenogr. univ.* p. 666; Nyl. *Lich. Jap.* p. 93. = In Asia orientali (Japonia). — Etiam in Europa.

In notula p. 21 *Serti Lichen. trop. Lab. et Singap.* poscit cel. Nylander *Chroolepa* (Trentepohlias), quæ Lichenes imperfectos et plerumque normaliter steriles complectuntur, sub tribu *Cænogonicorum*, tanquam appendicem, poni. Inter hos Lichenes numerantur *Leprariæ*, quæ thallos late diffusos sæpius offerunt et raro genere determinari valent.

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## APPENDIX

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Quum pars quædam hujus operis jam prelo mandata fuisset, cel. Nylander, mense octobri, anno 1890, *Lichenes Japoniæ* in lucem edidit. Hi Lichenes a cl. Almquist tum in Japonia, tum in ins. Labuan, illustrissimo Nordenskiöld expeditionem navis « Vega » ducente, anno 1879 collecti fuerunt. Insuper illis plures species americanas adjunxit prof. Nylander. Omnes hi Lichenes, incipiente genere *Physcia* n° 925 in nostro opere loco suo positi fuerunt. Convenit autem species quæ ad genera genus *Physciam* præcedentia attinent, nunc enumerare. Quapropter speciebus novis seu nondum indicatis novus dabitur numerus; reliquas vero jam nobis cognitæ cum suo numero proprio resumemus. Insuper, mense Augusto anni 1891, novum edidit opus cel. Nylander, scilicet *Sertum Lichenææ tropicæ e Labuan et Singapore*, complectens Lichenes a cl. Almquist in eodem itinere ad oram Asiæ orientalis collectos et etiam nonnullas species, ex insula Labuan, quæ in priore libello omissæ fuerunt. *Pyrenocarpei* hujus posterioris operis tantum in nostro opere enumerati sunt; quapropter reliquas species simul ac Lichenes japonicos infra reperire est.

### I. — *Species novæ vel quæ in hoc opere nondum enumeratæ fuerunt.*

3616. **Sirosiphon pulvinatus** de Bréb. in Kuetzing *Spec. Algar.* p. 317, Nyl. *Lich. Jap.* p. 13. = In Asia orientali (Japonia). — Etiam in Europa.

3617. **Pyrenopsis conturbatula** Nyl. *Lich. Jap.* p. 13, ubi definitur. = In Asia orientali (Japonia).

3618. **Pyrenopsis compacta** Willey, Nyl. *Lich. Jap.* p. 102, ubi definitur. = In America septentrionali (New Bedford).

3619. **Pyrenopsis phæococca** Tuck. *Syn. North Americ. Lich.* I, p. 136, Nyl. *Lich. Jap.* p. 103, ubi pro parte definitur. = In America septentrionali (Carolina septentrionali, Massachusetts et New Hampshire).

3620. **Pyrenopsis subareolata** Nyl. in *Flora* 1884, p. 391, ubi definitur; *Lich. Scand.* p. 27. = In America septentrionali (montibus Albis). — Etiam in Europa (Gallia).

3621. **Pyrenopsis hæmaleella** Nyl. in *Flora* 1882, p. 455, ubi definitur; *Euopsis hæmaleella* Nyl. in *Flora* 1877, p. 457, ubi definitur. = In America septentrionali (New Bedford, *Lich. Jap.* p. 103, ubi sporæ definiuntur). — In Europa boreali (Finlandia).

3622. **Pyrenopsis subfuliginea** Nyl. in *Flora* 1867, p. 369, ubi definitur. = In America septentrionali (New Bedford, *Lich. Jap.* p. 103, ubi sporæ definiuntur). — Etiam in Europa boreali (Finlandia).

3623. **Amphopsis phylliscina** Nyl. *Lich. Jap.* p. 101, ubi definitur. — *Pyrenopsis phylliscina* Tuck. *Syn. North Americ. Lich.* I, p. 137. Hæc species ob spermogonia sper-



mogoniis *Phyllisci* similia, a genere *Pyrenopsis* removetur et novo subgeneri adscribitur. = In America septentrionali (New Bedford).

3624. **Cladopsis melambola** Nyl. *Lich. Jap.* p. 102, ubi definitur. — *Pyrenopsis melambola* Tuck. *Syn. North Americ. Lich.* I, p. 136. = In America septentrionali (Alabama).

3625. **Magnopsis pertenella** Nyl. in *Flora* 1875, p. 102, ubi definitur. = In America septentrionali (New Bedford, *Lich. Jap.* p. 102, ubi sporæ definiuntur). — Etiam in Europa (Fennia).

3626. **Collemopsis furfurella** Nyl. in *Flora* 1881, p. 453. — *Collema furfurellum* Nyl. *Lich. Scand.* p. 28, ubi definitur. — *Pyrenopsis corallina* Willey, Tuck. *Syn. North Americ. Lich.* I, p. 137, Nyl. *Lich. Jap.* p. 102. = In America septentrionali (Massachusetts). — Etiam in Europa boreali.

3627. **Collemopsis intervagans** Nyl. *Lich. Jap.* p. 15, ubi definitur. = In Asia orientali (Japonia).

3628. **Leptogidium Moorei** Nyl. *Lich. Jap.* p. 14, ubi definitur. — *Leptogium Moorei* Hepp. Notandum est hoc genus a cel. Nylander hic in *Lichineis* et non in *Collemeis* collocari. = In Asia orientali (Japonia). — Etiam in Europa (Anglia).

3629. **Leptogium pichneoides** Nyl. *Lich. Jap.* p. 15, ubi definitur. = In Asia orientali (Japonia).

3630. **Leptogium microscopicum** Nyl. *Syn.* I, p. 122, tab. IV, fig. 17, et *Prodr. Lich. Gall.* p. 26, ubi definitur; *Enum. Lich.* p. 90 et *Supplém.* p. 333. = In Asia orientali (Japonia, *Lich. Jap.* p. 15). — Etiam in Europa.

3631. **Stenocybe euspora** Nyl. *Lich. Jap.* p. 16, ubi sporæ definiuntur. — *Calicum eusporum* Nyl. *Syn.* I, p. 160, tab. V, fig. 28, et *Prodr. Lich. Gall.* p. 32; *Enum. Lich.* p. 92; *Lich. montdorienses exsicc.* n° 2; Zwackh *Exsicc.* n° 71. = In Asia orientali (Japonia). — Etiam in Europa.

3632. **Coniocybe gracilentia** Ach., Nyl. *Syn.* I, p. 162, tab. V, fig. 43, ubi definitur; *Enum. Lich.* p. 93. = In Asia orientali (Japonia, *Lich. Jap.* p. 16, ubi sporæ definiuntur). — Etiam in Europa.

3633. **Trachylia Sancti-Jacobi** Nyl. *Lich. Jap.* p. 103, ubi definitur. — *Acolium Sancti-Jacobi* Tuck. *Syn. North Americ. Lich.* p. II, p. 137. = In America septentrionali (California).

3634. **Stereocaulon curtatum** (*Lecanocaulon*) Nyl. *Lich. Jap.* p. 18, ubi definitur; thalli fibrillæ K —, vel obsolete flavescunt. = In Asia orientali (Japonia).

3635. **Stereocaulon exutum** Nyl. *Lich. Jap.* p. 18, ubi definitur; thalli axis K —. Comparari potest cum *St. coralloide* Fr. = In Asia orientali (Japonia).

3636. **Pilophoron clavatum** Nyl. *Lich. Jap.* p. 17, ubi definitur; thallus K flavescit. = In Asia orientali (Japonia).

3637. **Cladonia corymbosa** Nyl. *Lich. Jap.* p. 20; *Cl. furcata* var. *corymbosa* Nyl. *Syn.* I, p. 207, et *Lich. Scand.* p. 56, ubi definitur. — *Cenomyce allotropa* var. *corymbosa* Ach. *Lichenogr. univ.* p. 556. = In Asia orientali (Japonia). — Etiam in Europa.

— F. **foliosa** Nyl. *Lich. Jap.* p. 20; *Cl. racemosa* f. *foliosa* Delise apud Duby *Bot. Gall.* II, p. 623; Norrlin *Herb. Lich. Fenn.* n° 435. = In Asia orientali (Japonia). — Etiam in Europa.

3638. **Schizopelte californica** Th. Fr. in *Flora* 1875, p. 143, Tuck. *Syn. North Americ. Lich.* I, p. 46, Nyl. *Lich. Jap.* p. 103, ubi definitur; thallus CaCl extus intusque bene erythrinose reagit. Hoc genus ad tribum *Roccelleorum* vel ad propriam accedentem pertinet, atque *Dispositioni systematicæ Lichenum* in principio hujus operis positæ addendum est. = In America septentrionali (California).

3639. **Alectoria proluxa** Ach., Nyl. *Lich. Jap.* p. 23; *A. jubata* var. *proluxa* Nyl. *Syn.* I, p. 280, et *Lich. Scand.* p. 72, ubi definitur; in *Flora* 1869, p. 444 datur thalli reactio erronea; vera reperitur apud Hue *Addend. Lichenogr. europ.* p. 38, thallus K =, CaCl =. = In Asia orientali (Japonia). — Etiam in Europa.

3640. **Alectoria lactinea** Nyl. *Lich. Jap.* p. 23, ubi definitur; comparari potest cum *A. proluxa* Ach., sed thallus K (CaCl) fugaciter extus violacee reagit, et intus —. = In Asia orientali (Japonia).

3641. **Alectoria oregana** Tuck., Nyl. *Lich. Jap.* p. 104, ubi definitur; thallus basi pallescens K (CaCl) —. Subsimilis est *A. proluxæ* f. *lanestri* Ach. = In America septentrionali (Oregon).

3642. **Parmelia præsoresdiosa** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 18, ubi definitur. Pertinet ad stirpem *P. perlatae* Ach. et est sat similis *P. perlatae* var. *sorediatae* Schær. = In Asia orientali (Singapoure).

3643. **Parmelia irrugans** Nyl. *Lich. Jap.* p. 26, ubi definitur; thallus K =. Pertinet ad stirpem *P. perlatae* Ach. = In Asia orientali (Japonia).

3644. **Parmelia suberinita** Nyl. *Lich. Jap.* p. 26, ubi definitur. Pertinet ad stirpem *P. perlatae* Ach., sed ejus speciei medulla thalli *P. crinitæ* Ach., supra n° 600, similis, K e flavo ferrugineo-sanguinea evadit. = In Asia orientali (Japonia).

3645. **Parmelia leucotyliza** Nyl. *Lich. Jap.* p. 26, ubi definitur; thallus K ± et medulla CaCl —. E stirpe *P. tiliacæ* Ach. est hæc species. = In Asia orientali (Japonia).

3646. **Parmelia lævior** Nyl. *Lich. Jap.* p. 28, ubi definitur; thallus K flavet et medulla e flavo rubescit. Stirpi *P. saxatilis* Ach. adscribenda est hæc species. = In Asia orientali (Japonia).

3647. **Parmelia adaugescens** Nyl. *Lich. Jap.* p. 28, ubi definitur; affinis *P. sulcatae* Tayl. supra n° 595, quacum reactione convenit. = In Asia orientali (Japonia).

3648. **Parmelia marmoriza** Nyl. *Lich. Jap.* p. 28, ubi definitur; hæc species ad stirpem *P. saxatilis* Ach. etiam adinet, sed forsitan affinior est *P. sinuosæ* Ach., supra n° 667; thallus extus K —, intus autem e flavo rubricosus evadit. = In Asia orientali (Japonia).

3649. **Parmelia exasperata** de Notar., Nyl. *Syn.* I, p. 396 et *Lich. Scand.* p. 102, ubi definitur; *P. olivacea* var. *exasperata* Nyl. *Enum. Lich.* p. 105. — *Collema exasperatum* Ach. *Lichenogr. univ.* p. 645. — *Parmelia olivacea* var. *aspidota* Ach. *Lichenogr. univ.* p. 403; medulla thalli CaCl —. = In Asia orientali (Japonia). — Etiam in Europa.

3650. **Parmelia japonica** Tuck. *Syn. North Americ. Lich.* II, p. 142, Nyl. *Lich. Jap.* p. 30. Subgeneri *Anziæ* Parmeliarum, supra n<sup>is</sup> 753-759, annumeranda est hæc species. = In Asia orientali (Japonia).

3651. **Sticta insinuans** Nyl. *Lich. Jap.* p. 30, ubi definitur; thallus K — et medulla K (CaCl) sat erythrinose reagit. Hæc species prope *S. damæcormem* var. *sinuosam* Nyl. supra n° 817, locanda est. = In Asia orientali (Japonia).

3652. **Ricasolia adscripturiens** Nyl. *Lich. Jap.* p. 31, ubi definitur; vix nisi subspecies *R. adscriptæ* Nyl., supra n° 876; medulla K (CaCl) erythrinose reagit. = In Asia orientali (Japonia).

3653. **Nephromium murayamanum** Nyl. *Lich. Jap.* p. 32, ubi definitur; medulla K —. = In Asia orientali (Japonia).

3654. **Physcia dissidens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 36, ubi definitur. Ea species, cujus thallus K —, generis novi vel subgeneris, fere *Lecanora* videtur; accedit quodam modo ad *Ph. balaninam* Nyl., supra n° 989. = In America septentrionali calida (Mexico).

3655. **Coccocarpia imbricascens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 19 in notula, ubi definitur. Species comparanda cum *C. blepharophora* Nyl., *Lecidea blepharophora* Nyl., supra n° 1901; thallus K vage ferruginascit. = In herbario Schimper sine loco indicato.

3656. **Lecanora castaniza** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 36, ubi definitur; thallus K —. Pertinet hæc species ad stirpem *L. circinatæ* Ach., supra n° 1343. = In America septentrionali calida (Mexico).

3657. **Lecanora japonica** Tuck., Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 35, ubi definitur; thallus K flavet et epithecium CaCl —. Accedit ad *L. albellam* Ach., supra n° 1380, vel ad *L. cæσιο-rubellam* Ach., n° 1382. = In Asia orientali (Japonia).

3658. **Lecanora thelococcoides** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 37, ubi definitur. Hæc species videtur ad stirpem *L. cervinæ* Ach., supra n° 1513, pertinere. = In America septentrionali (California).

3659. **Ascidium interponendum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 20, ubi definitur; subsimile est *A. domingensi* Fée, supra n° 1795, et illius thallus K lutescit atque iodo sporæ colorantur. = In Asia orientali (Singapoure).

3660. **Crocynia pyxinoides** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 37, ubi definitur. (Genus *Crocynia* ponitur supra n° 1848). = In America tropica (ins. Cuba, legit Wright n° 145).

3661. **Lecidea subbreviscula** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 40, ubi definitur: comparanda est hæc species cum *L. Fendleri* Tuck., supra n° 1885. = In America tropica (ins. Cuba, legit Wright n° 120).

3662. **Lecidea glabriuscula** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 40, ubi definitur. Subsimitis dicitur *L. brevisculæ* Nyl., supra n° 1887. = In America tropica (ins. Cuba, legit Wright, n<sup>is</sup> 726 et 727).

3663. **Lecidea pelomela** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 38, ubi definitur. Subsimitis est sequenti speciei. = In America tropica (ins. Cuba, legit Wright, n° 138 a).

3664. **Lecidea subfurfurosa** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 38, ubi definitur. Species illa accedit ad stirpem *L. hypomele* Nyl., supra n° 1919. = In America tropica (ins. Cuba, legit Wright, n° 128; Nyl. in litt.).

3665. **Lecidea gyalizella** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 38, ubi definitur. Ea species videtur e stirpe *Biatoræ adpressæ* Hepp *Flecht. europ.* n° 277. = In America septentrionali (New Bedford).

3666. **Lecidea lividula** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 39, ubi definitur. Hujus speciei thallus K flavet. = In America septentrionali calida (Florida).

3667. **Lecidea insimilans** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 38, ubi definitur. Pertinet hæc species ad stirpem *L. sphaeroidis* Sommerf. supra n° 2050. = In America tropica (ins. Cuba, legit Wright, n° 139).

3668. **Lecidea rubello-virens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 21, ubi definitur. Ea species est ex eadem stirpe ac præcedens et facie fere *L. comparandæ* Nyl., supra n° 2081. = In Asia orientali (Singapoure).

3669. **Lecidea subspadicea** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 39, ubi definitur. Non est forsitan nisi subspecies *L. spadiceæ* Tuck., supra n° 2134. = In America septentrionali calida (Florida).

3670. **Lecidea subpar** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 39, ubi definitur. Affinis est hæc species *L. hostheleoidi* Nyl., supra n° 2161. = In America tropica (ins. Cuba, legit Wright, n° 114).

3671. **Lecidea incomptula** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 40, ubi definitur.



Est etiam hæc species e stirpe *L. luteolæ* Ach. = In America tropica (ins. Cuba, legit Wright, n° 113).

3672. **Lecidea combinans** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 40, ubi definitur. Prope *L. ischnosporam* Nyl., supra n° 2184; locum tenet hæc species. = In America tropica (ins. Cuba legit Wright, n° 101.)

3673. **Lecidea leptoclinella** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 8, ubi definitur. Ea species *L. nigritulæ* Nyl. supra n° 2423, subsimilis dicitur. = In Oceania (ins. Labuan).

3674. **Lecidea destituta** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur. Hæc species est incertæ sedis et forsitan ad viciniam *Lecanoræ conioptæ* Nyl. in *Flora* 1873, p. 19 pertinet. = In America septentrionali (Illinois).

3675. **Lecidea cohibilis** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. Est subspecies *L. atro-albæ* Flot., supra n° 2506, a qua thallo K flavente et non dein rubescente differt; medulla iodo tingitur. = In America septentrionali (ditione Tennessee).

3676. **Lecidea interposita** Nyl. in litt.; *L. interponens* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. Posterius illud nomen mutandum erat utpote jam adhibitum, ut videre est supra n° 2158. Illius thallus K — et medulla I —, atque est subspecies *L. lavatæ* Ach., supra n° 2516. = In America septentrionali (ditione Tennessee).

3677. **Graphis singaporina** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 23, ubi definitur. Facie *Gr. dissidentis* Nyl. supra n° 2593, tangit hæc species *Gr. assimilem* Nyl. et *Gr. anguilliformem* Tayl. n<sup>is</sup> 2572 et 2610 = In Asia orientali (Singapoure).

3678. **Lecanactis flexans** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 23, ubi definitur. Subsimilis dicitur hæc species *Graphidi flexuosæ* Nyl., supra n° 2639, atque observandum est hæc vox generica *Lecanactis* a celeb. Nylander recentius derelicta, ut videre est supra n° 2802, ab illo nunc frequenter usurpari ad designandas species quæ pro maxima parte ad stirpem *Graphidis dendriticæ* Ach. attinent. = In Asia orientali (Singapoure).

3679. **Graphis leucolyta** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 24 in notula, ubi definitur. In stirpe *Gr. frumentariæ* Fée locum habet hæc species. = In Asia orientali (Malacca).

3680. **Graphis syngraphizans** Wright *Cub.* in herbario. Sic descripta fuit hæc species a celeb. Nylander in litt. «Thallus macula glaucescenti-pallida indicatus. Apothecia erumpentia, lanceolata, albo-suffusa, latit. 0,5 millim., forma thalodeo-marginata; sporæ fuscae, ellipsoideæ, oblongæ, 6-loculares, longit. 0,018-22 et crassit. 0,010 millim., iodo obscuriores. In stirpe *Gr. frumentariæ* Fée locum tenet hæc species sed ejus nomea non bonum, nam in hac nihil syngraphizans inest. » = In Asia orientali (insulis Bonin, nunc Ogassawara nuncupatis, ubi est corticola et lecta fuit a Wright in *U. S. North. Pacific Expedition* under Ringgold and Rodgers in annis 1853-1856). Hoc specimen in Museo parisiensi asservatur æque ac alia *Graphis* ex eodem loco et eadem expeditione proveniens cui a Wright nomen *Graphis leurocordia* impositum fuit. In hac posteriore *Graphidem Chrysenteron* Mont., supra n° 2703, sporis destitutam, celeb. Nylander recognovit.

3681. **Arthonia aleurella** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 22, ubi definitur. Affinis est illa nova species *A. aleurocarpæ* Nyl., supra n° 3019. Iodo thallus et apothecia colorantur, atque sporæ fulvo-rubescunt. = In Asia orientali (Singapoure).

3682. **Arthonia subbessalis** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 23, ubi definitur. Affinis dicitur ea nova species *A. fusco-nigræ* Nyl. et *A. bessali* Nyl., supra n<sup>is</sup> 3087 et 3088. = In Asia orientali (Singapoure).

3683. **Glyphis duodenaria** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 25, ubi defi-

nitur. Subsimilis est illa nova species *Gl. heteroclitæ* Mont. vel *Gl. labuanæ* Nyl., supra n<sup>is</sup> 3142 et 3143. = In Asia orientali (Singapoure).

3684. **Verrucaria fusco-nigricans** Nyl. in herb. Tuck. «Thallus fuscus vel cervino-brunneus, vel brunneo-nigrescens, sat tenuis, areolato-rimosus, subopacus vel opacus, areolis contiguus planis (lateribus contiguus et hypothallo nigris). Apothecia immersa, pallida, pyrenio integre fuscescente vel pallido, extus parum vel vix visibilia; sporæ ellipsoideæ, longit. 0,011-13 et crassit. 0,006-7 millim.; gelatina hymenialis iodo vinose rubescente. Thallus crassitie fere 0,25 millim.; facie sicut in *V. fuscula* Nyl. vel in *V. viridula* Ach. ». Est e stirpe *V. nigrescentis* Pers. = In America septentrionali calida (Texas, supra saxa calcarea, Tuckerman).

3685. **Verrucaria micula** Flot. in litt. ad Kœerb., Nyl. apud Hue *Addend. Lichenogr. europ.* p. 300, ubi sporæ definiuntur, et apud Norrlin *Tavastl. Flora* p. 195, ubi datur ut subspecies *V. cinerellæ* Flot., supra n<sup>o</sup> 3500; Stizenb. *Lichen. African.* p. 229. = In Africa orientali (ins. Socotora et Madagascar). — In America septentrionali et meridionali (Paraguay). — Etiam in Europa.

3686. **V. stenobola** Nyl. in litt. «Thallus macula albida indicatus; apothecia pyrenio dimidiatim nigro (latit. circit. 0,3 millim.); sporæ 8<sup>na</sup> tenuiter aciculares (obsolete vel vix septatulæ, subrectæ, longit. 0,070 et crass. 0,002 millim.; gelatina hymenialis iodo non tingitur vel lutescit. Accedit hæc species ad *V. raphidiophoram* Nyl., supra n<sup>o</sup> 3505 », = In Asia meridionali (ins. Ceylonia, ubi est corticola et lecta fuit a cl. Almquist).

3687. In secundæ Familiæ sexta Tribu cui nomen *Collemei*, tria addenda sunt genera quæ singula singulam mere europæam speciem continent, scilicet: 1<sup>o</sup> **SYNALISSINA** Nyl. in *Flora* 1883, p. 134, et apud Hue *Addend. Lichenogr. europ.* p. 13, cujus unica species, *S. intricata* Nyl., *Omphalaria intricata* Arnold *Exsicc.* 399, in Tyrolia atque in Scotia collecta fuit. 2<sup>o</sup> **SYNALISSOPSIS** Nyl. apud Stizenb. *Lich. helvet.* p. 5, genus cui attribuitur *S. picina* Nyl., *Collema picinum* Nyl. *Prodr. Lich. Gall.* p. 19 et *Syn.* I, p. 96, ubi definitur, et *Enum. Lich.* p. 88, *C. pulposum* var. *diffRACTO-areolatum* Schær. *Enum. Lich. europ.* p. 259, in Gallia (Neustria) et in Helvetia vicens. Illius thallus tenuis, effusus; apothecia endocarpea et thecæ polysporæ. 3<sup>o</sup> **PSOROPSIS** Nyl. apud Zwackh *Lich. Heidelb.* p. 4. Hoc genus a *Collempsi* differt sicut *Cladopsis* a *Pyrenopsi*, id est thallo papilloso (Nyl. in litt.); ejus unica species, *Ps. Rehmica* Nyl., *Psorotichia Rehmica* Mass. *Miscell.* p. 23, Zw. *Lich. exsicc.* n<sup>o</sup> 250 et Anzi *Lich. varior. Veneti* n<sup>o</sup> 16, ex Italia et Germania provenit. Proinde que genera in hac sexta Tribu sequenti ordine disponenda sunt :

Synalissina Nyl.

Synalissa Dur.

Synalissopsis Nyl.

Paulia Fée.

Omphalaria Dur. et Mont.

Collempsis Nyl.

Psoropsis Nyl.

Anema Nyl., etc.

Inde patet quinque genera *Dispositioni systematicæ Lichenum* quæ in initio hujus operis ponitur addenda esse, nempe tria modo enumerata et insuper *Crocyniam* Ach. et *Schizopelten* Th. Fr., supra n<sup>is</sup> 1848 et 3638. Insuper secundæ tribui addendum est novum subgenus *Amphopsis* de quo agitur supra n<sup>o</sup> 3623.

## II. — Species in hoc opere jam indicatæ.

1<sup>o</sup>. **Sirosiphon saxicola** Næg. = In Asia orientali (Japonia, *Lich. Jap.* p. 13).

20<sup>b</sup>. **Pyrenopsis polycocca** Nyl. *Lich. Jap.* p. 102, ubi sporæ definiuntur; hæc species in Nyl. *Syn.* I, p. 96 et in Hue *Lich. exot.* supra n° 20, sub genere *Synalissa* ponitur.

44<sup>b</sup>. **Collema flaccidum** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 14); et meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 17).

45<sup>b</sup>. **Collema subconveniense** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 14, ubi sporæ definiuntur).

61<sup>b</sup>. **Collema nigrescens** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 14, ubi sporæ definiuntur).

71<sup>b</sup>. **Collema thysanæum** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 14, ubi sporæ definiuntur).

80<sup>b</sup>. **Dichodium byrsinum** Nyl. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 18).

100<sup>b</sup>. **Leptogium tremelloides** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 15).

— Var. **pichneum** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 15).

101<sup>b</sup>. **Leptogium azureum** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 15).

115<sup>b</sup>. **Leptogium Menziesii** Mont. = In Asia orientali (Japonia, *Lich. Jap.* p. 14).

130<sup>b</sup>. **Leptogium muscicola** Fr. = In Asia orientali (Japonia, *Lich. Jap.* p. 15, ubi sporæ definiuntur).

149<sup>b</sup>. **Calicium hyperelloides** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 16). — Etiam in Europa (Lusitania).

155<sup>b</sup>. **Calicium curtum** Borr. = In Asia orientali (Japonia, *Lich. Jap.* p. 16).

179<sup>b</sup>. **Sphærophoron compressum** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 16).

182<sup>b</sup>. **Sphærophoron coralloides** forma **meiophorum** Nyl. *Lich. Jap.* p. 16, ubi definitur; thalli medulla I —. = In Asia orientali (Japonia).

188<sup>b</sup>. **Bæomyces rufus** var. **subsquamulosus** Nyl. in *Flora* 1877, p. 463; thallus K flavescit. = In Asia orientali (Japonia, *Lich. Jap.* p. 16). — Etiam in Europa.

195<sup>b</sup>. **Bæomyces roseus** Pers. = In Asia orientali (Japonia, *Lich. Jap.* p. 16).

232<sup>b</sup>. **Stereocaulon ramulosum** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 17).

237<sup>b</sup>. **Stereocaulon proximum** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 18).

240<sup>b</sup>. **Stereocaulon mixtum** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 18).

248<sup>b</sup>. **Stereocaulon paschale** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 18).

256<sup>b</sup>. **Stereocaulon japonicum** Th. Fr., Nyl. *Lich. Jap.* p. 18. = In Asia orientali (Japonia). — In Oceania (ins. Java).

257<sup>b</sup>. **Stereocaulon denudatum** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 18).

278<sup>b</sup>. **Cladonia pyxidata** f. 2. **chlorophæa** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 19).

281<sup>b</sup>. **Cladonia decorticata** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

284<sup>b</sup>. **Cladonia cariosa** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

285<sup>b</sup>. **Cladonia subcariosa** Nyl. *Lich. Jap.* p. 20; thallus et præsertim podetia K e flavo ferruginascunt. Vix differt *Cl. glaucina* Coem., quæ est sterilis. = In Asia orientali (Japonia).

287<sup>b</sup>. **Cladonia fimbriata** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 19).

288<sup>b</sup>. **Cladonia ochrochlora** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 19).

— F. 2. **ceratodes** Floerke, Coemans *Cladon. Belg.* n° 81. = In Asia orientali (Japonia, *Lich. Jap.* p. 19).



— F. 3. **phyllostrata** Floerke, Zwackh *Exsicc.* n° 563. = In eadem regione, *Lich. Jap.* p. 19).

293<sup>b</sup>. **Cladonia gracilis** f. 6. **phyllophora** Floerke; *Cl. anthocephala* Del. = In Asia orientali (Japonia, *Lich. Jap.* p. 19).

294<sup>b</sup>. **Cladonia chordalis** Floerke; *Cl. gracilis* f. *chordalis* Nyl. *Lich. Jap.* p. 19; thallus K —. = In Asia orientali (Japonia).

295<sup>b</sup>. **Cladonia verticillata** Hoffm., Nyl. *Lich. Jap.* p. 20; thallus K flavet. Est subspecies *Cl. cervicornis* Schær., et ab ea distinguenda est *Cl. subverticillata* Nyl. adtinens ad analogam *Cl. soboliferam* Nyl., cujus thallus K —. = In Asia orientali (Japonia).

296<sup>b</sup>. **Cladonia sobolifera** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

299<sup>b</sup> **Cladonia cervicornis** Schær. = In Asia orientali (Japonia, *Lich. Jap.* p. 19).

315<sup>b</sup>. **Cladonia furcata** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

316<sup>b</sup>. **Cladonia racemosa** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

317<sup>b</sup>. **Cladonia adpersa** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

322<sup>b</sup>. **Cladonia scabriuscula** Del. = In Asia orientali (Japonia, *Lich. Jap.* p. 20).

329<sup>b</sup>. **Cladonia squamosa** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 21).

331<sup>b</sup>. **Cladonia delicata** Floerke. = In Asia orientali (Japonia, *Lich. Jap.* p. 21).

340<sup>b</sup>. **Cladonia cornucopioides** Fr. = In Asia orientali (Japonia, *Lich. Jap.* p. 21).

350<sup>b</sup>. **Cladonia bacillaris** Nyl. = In Asia boreali (Japonia, *Lich. Jap.* p. 21).

363<sup>b</sup>. **Cladina rangiferina** Nyl. *Lich. Jap.* p. 21; thallus K flavet. = In Asia orientali (Japonia).

— F. 3. **dealbata** Coem. *Cladon. Belg.* n° 138, Nyl. *Lich. Jap.* p. 21. = In Asia orientali (Japonia). — Etiam in Europa.

364<sup>b</sup>. **Cladina sylvatica** Nyl. *Lich. Jap.* p. 21; thallus K —. = In Asia orientali (Japonia).

— F. **subspumosa** Coem. *Cladon Belg.* n° 163, Nyl. *Lich. Jap.* p. 21; thallus K —. = In Asia orientali (Japonia). — Etiam in Europa.

375<sup>b</sup>. **Cladina uncialis** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 21).

382<sup>b</sup>. **Cladia aggregata** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 21).

426<sup>b</sup>. **Ramalina calicaris** Fr. = In Asia orientali (Japonia, *Lich. Jap.* p. 21).

427<sup>b</sup>. **Ramalina farinacea** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

458<sup>b</sup>. **Ramalina cuspidata** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

461<sup>b</sup>. **Ramalina pusilla** Le Prév. = Etiam in Europa (in Gallia occidentali et meridionali; in ins. Noirmoutier lecta fuit a doctore Viaud-Grandmarais et edita in exsiccatis Arnold n° 968 et Zwackh n° 1140).

464<sup>b</sup>. **Ramalina geniculata** Hook. et Tayl. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

492<sup>b</sup>. **Usnea florida** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

501<sup>b</sup>. **Usnea articulata** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

503<sup>b</sup>. **Usnea ceratina** = Ach. In Asia orientali (Japonia *Lich. Jap.* p. 22). Habitatio in Chili referenda est ad priorem varietatem hujus speciei.

506<sup>b</sup>. **Usnea longissima** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

513<sup>b</sup>. **Neuropogon melaxanthus** Nyl. f. **sulphurea** Nyl. scribi debet f. **sulphureus** Nyl.

518<sup>b</sup>. **Cetraria crispa** var. 2. **subtubulosa** Fr. = In Asia orientali (Japonia, *Lich. Jap.* p. 22).

531<sup>b</sup>. **Platysma collatum** Nyl. *Lich. Jap.* p. 23, ubi denuo definitur. = In Asia orientali (Japonia).

- 535<sup>b</sup>. **Platysma nephromoides** Nyl. *Lich. Jap.* p. 24; Hook. et Thoms. *Ind. orient.* 2020; thallus K =, K (CaCl) +. = In Asia orientali (Japonia).
- 542<sup>b</sup>. **Platysma ciliare** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 24).
- 544<sup>b</sup>. **Platysma sæpincola** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 25).
- 545<sup>b</sup>. **Platysma ulophyllum** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 25).
- 547<sup>b</sup>. **Platysma Fahlunense** forma **insolitum** Nyl. *Lich. Jap.* p. 25, ubi definitur; medulla thalli K —. = In Asia orientali (Japonia).
- 551<sup>b</sup>. **Platysma Pinastri** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 23).
- 553<sup>b</sup>. **Platysma glaucum** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 24).
- 554<sup>b</sup>. **Platysma lacunosum** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 24).
- 555<sup>b</sup>. **Platysma septentrionale** Nyl. *Lich. Jap.* p. 24; thallus K flavet, medulla K (CaCl) leviter vel vix erythrinose reagit. = In Asia orientali (Japonia).
- 563<sup>b</sup>. **Alectoria chalybeiformis** Ach.; *A. prolixa* var. *chalybeiformis* Nyl. *Lich. Jap.* p. 23. = In Asia orientali (Japonia).
- 565<sup>b</sup>. **Alectoria sulcata** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 23, ubi sporæ definiuntur).
- 566<sup>b</sup>. **Alectoria ochroleuca** Nyl. *Lich. Jap.* p. 23; thallus K (CaCl) extus flavet. = In Asia orientali (Japonia).
- 567<sup>b</sup>. **Alectoria osteina** Nyl. *Lich. Jap.* p. 22; thalli medulla K (CaCl) erythrinose reagit. = In Asia orientali (Japonia).
- 568<sup>b</sup>. **Alectoria sarmentosa** Ach., Nyl. *Lich. Jap.* p. 23; medulla K (CaCl) leviter erythrinose reagit. = In Asia orientali (Japonia).
- 577<sup>b</sup>. **Evernia thamnoides** Flot.; *E. mesomorpha* Nyl. *Lich. Jap.* p. 25; thallus K (CaCl) extus nonnihil flavescit. = In Asia orientali (Japonia).
- 580<sup>b</sup>. **Parmelia caperata** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 25).
- 591<sup>b</sup>. **Parmelia subaurulenta** Nyl. *Lich. Jap.* p. 25, ubi sporæ definiuntur. = In Asia orientali (Japonia et China).
- 595<sup>b</sup>. **Parmelia perforata** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 26) et meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 18).
- 599<sup>b</sup>. **Parmelia perlata** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 26).  
— Var. 4. **platysmoides** Nyl. in herb. *Soc. bot. France* et apud Stizenb. *Lich. ins. Maderæ* p. 7. et *Lichen African.* p. 53. = In Africa occidentali (ins. Teneriffa et Maderæ).
- 602<sup>b</sup>. **Parmelia cetrarioides** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 26).
- 606<sup>b</sup>. **Parmelia tinctorum** Despr. = In Asia orientali (Japonia, *Lich. Jap.* p. 26) et meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 18).
- 615<sup>b</sup>. **Parmelia martinicana** Nyl. In exemplaribus hujus operis seorsim impressis hæc species nomine erroneo *P. martinica* Nyl. vocatur.
- 638<sup>b</sup>. **Parmelia adducta** Nyl. *Lich. Jap.* p. 27; thallus K =. = In Asia orientali (Japonia, sed ibi sterilis, proindeque incerta).
- 641<sup>b</sup>. **Parmelia sublævigata** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 27).
- 652<sup>b</sup>. **Parmelia scortella** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 27, ubi definitur).
- 653<sup>b</sup>. **Parmelia lævigata** Ach., Nyl. *Lich. Jap.* p. 27; *Lichen lævigatus* Sm.; thalli medulla K (CaCl) nonnihil erythrinose reagit. = In Asia orientali (Japonia).
- 671<sup>b</sup>. **Parmelia lævigatula** Nyl. *Lich. Jap.* p. 27; thallus K supra flavet, medulla autem CaCl erythrinose et K (CaCl) magis intensive erythrinose tingitur. Ibi sterilis ideoque incerta. = In Asia orientali (Japonia).
- 694<sup>b</sup>. **Parmelia saxatilis** forma **divaricata** Del., Nyl., *Lich. Jap.* p. 27, ubi definitur. = In Asia orientali (Asia).

- 696<sup>b</sup>. **Parmelia fraudans** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 28).  
 702<sup>b</sup>. **Parmelia conspersa** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 704<sup>b</sup>. **Parmelia subconspersa** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 708<sup>b</sup>. **Parmelia Mougeotii** Schær. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 721<sup>b</sup>. **Parmelia olivacea** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 727<sup>b</sup>. **Parmelia stygia** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 730<sup>b</sup>. **Parmelia lanata** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 737<sup>b</sup>. **Parmelia arizonica** Nyl. *Lich. Jap.* p. 104, ubi definitur; thallus K flavescit et medulla K ferrugineo-tingitur. — *Omphalodium arizonicum* Tuck. = In America septentrionali (Arizona et non in Brasilia, ut errore scripsi sub numero 737 hujus operis).  
 738<sup>b</sup>. **Parmelia physodes** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 739<sup>b</sup>. **Parmelia vittata** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 29).  
 748<sup>b</sup>. **Parmelia pertusa** Schær., Nyl. *Lich. Jap.* p. 30; thallus K flavescit. = In Asia orientali (Japonia).  
 — F. **subimpertusa** Nyl. *Lich. Jap.* p. 30, ubi definitur. = In Asia orientali (Japonia).  
 751<sup>b</sup>. **Parmelia hypotrypa** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 30).  
 767<sup>b</sup>. **Lobarina retigera** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 31).  
 781<sup>b</sup>. **Stictina Mougeotiana** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 31).  
 844<sup>b</sup>. **Sticta aurata** Ach. = In Asia orientali (Japonia, *Lich. Jap.* p. 30).  
 864<sup>b</sup>. **Ricasolia Wrightii** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 31).  
 876<sup>b</sup>. **Ricasolia adscripta** Nyl. *Lich. Jap.* p. 31, ubi sporæ definiuntur; thallus K (CaCl) —. = In Asia orientali (Japonia).  
 889<sup>b</sup>. **Nephromium tomentosum** f. **rameum** Nyl. *Syn.* I, p. 319, ubi definitur. — *Nephroma resupinatum* var. *rameum* Schær. *Enum. Lich. europ.* p. 18. = In Asia orientali (Japonia, *Lich. Jap.* p. 32, ubi sporæ definiuntur). — Etiam in Europa.  
 889<sup>b</sup>. **Nephromium helveticum** Nyl. *Lich. Jap.* p. 32, — *Nephroma helvetica* Ach. *Lichenogr. univ.* p. 523. = In Asia orientali (Japonia).  
 890<sup>b</sup>. **Nephromium lævigatum** Nyl. *Lich. Jap.* p. 32. — *Nephroma lævigata* Ach. *Syn. Lich.* p. 242. = In Asia orientali (Japonia).  
 891<sup>b</sup>. **Nephromium parile** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 32).  
 901<sup>b</sup>. **Peltigera rufescens** Hoffm. = In Asia orientali (Japonia, *Lich. Jap.* p. 32).  
 907<sup>b</sup>. **Peltigera dolichorrhiza** Nyl. = In Asia orientali (Japonia, *Lich. Jap.* p. 32).  
 960<sup>b</sup>. **Physcia crispa** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 4).  
 1004<sup>b</sup>. **Physcia picta** Nyl. Locis in Asia meridionali citatis addendum est nomen Singapoure et delendum Malacca, quod ad formam sequentem pertinet.  
 — F. 1. **foliicola** Cromb., Nyl. et Cromb. *Lich. East. Asia* p. 52. = In Asia meridionali (Malacca).  
 — F. 2. **sorediata** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 18; thallus K ±. = In Asia meridionali (Singapoure).  
 1007<sup>b</sup>. **Physcia cæσιο-picta** Nyl. Ad hanc speciem e China pertinet ut synonymon *Ph. picta* f. *sorediifera* Nyl., Nyl. et Cromb. *Lich. East. Asia* p. 62.  
 1056<sup>b</sup>. **Pannaria pannosa** Del. = In Asia meridionali (Singapoure, *Sert. Lich. trop. Lab. et Singap.* p. 19).  
 1098<sup>b</sup>. **Coccocarpia ciliolata** Mont. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 18, ubi pro parte definitur. — In Oceania (ins. Labuan, *Sert. Lich. trop. Lab. et Singap.* p. 4).  
 1134<sup>b</sup>. **Psoroma discernens** Nyl. *Sert. Lichen. trop. et Singap.* p. 4, ubi definitur. = In Oceania (ins. Labuan).



1271<sup>b</sup>. **Lecanora xanthophæa** Nyl. = In America septentrionali (ditione Tennessee, *Sert. Lichen. trop. Lab. et Singap.* p. 35, ubi sporæ definiuntur).

1279<sup>b</sup>. **Lecanora sophodes** Ach. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 4, ubi sporæ definiuntur).

1352<sup>b</sup>. **Lecanora subcrenulata** Nyl. = In Oceania (ins. Java et ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 4, ubi pro parte definitur).

1420<sup>b</sup>. **Lecanora lutescens** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 4, ubi definitur).

1546<sup>b</sup>. **Lecanora punicea** Ach. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 49).

1606<sup>b</sup>. **Pertusaria marginata** Nyl. Ab hac specie non differunt *P. propinqua* Muell. et *P. laqueata* Muell., Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 35.

1622<sup>b</sup>. **Pertusaria Wulfenii** f. 2. **rupicola** Nyl. Post hæc verba : In Asia orientali Japonia, addendum est : *Lich. Jap.* p. 55).

1624<sup>b</sup>. **Pertusaria achroiza** Nyl. Addendum est in hac specie sporas variare 4<sup>nas</sup> in thecis, *Prodr. Fl. N. Gran.* ed. 2<sup>a</sup> p. 125.

1693<sup>b</sup>. **Thelotrema cavatum** Ach., Nyl. *Sert. Lichen. trop. Lab. et Singap.* pp. 5 et 49, ubi sporæ definiuntur. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).

1694<sup>b</sup>. **Thelotrema dolichosporum** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 5, ubi pro parte definitur).

1725<sup>b</sup>. **Thelotrema pycnophragmium** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 5, ubi definitur. = In Oceania (ins. Labuan).

1726<sup>b</sup>. **Thelotrema terebratum** Ach., Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 49. = In Asia meridionali (Singapoure). — In America tropica (ins. Cuba).

— **F. subeminescens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 5, ubi definitur. = In Asia meridionali (Singapoure). — In America tropica (ins. Cuba).

1734<sup>b</sup>. **Thelotrema dolichotatum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 49, ubi definitur. = In Asia meridionali (Singapoure).

1758<sup>b</sup>. **Thelotrema subgeminum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 5, ubi sporæ definiuntur; *T. monosporum* var. *subgeminum* Nyl. *Syn. Lich. N. Caled.* p. 38. = In Oceania (ins. Labuan).

1796<sup>b</sup>. **Ascidium xanthostroma** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 20, ubi definitur; *A. rhodostroma* var. *xanthostroma* Nyl. = In America tropica (ins. Cuba, legit Wright, n° 33).

1797<sup>b</sup>. **Ascidium majorinum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 30, ubi definitur; thallus K sublutescit. = In Asia meridionali (Singapoure).

— **F. longius** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 20, ubi definitur. = In Asia meridionali (Singapoure).

1798<sup>b</sup>. **Ascidium xanthostromizum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 20, ubi definitur. = In Asia meridionali (Singapoure).

1799<sup>b</sup>. **Ascidium Cinchonarum** Fée. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 5, sed hæc species ibi est dubia utpote sporis destituta).

1804<sup>b</sup>. **Ascidium depressum** Nyl. — *Thelotrema depressum* Mont. *Cryptog. guyan.* p. 55 et n° 240 necnon *Syllog.* p. 362, proindeque addenda est sub hac specie habitatio : In Guyana gallica, et delendum est *Thelotrema depressum* Nyl. *Enum. Lich.* p. 118, quod supra n° 1745 ponitur.

1805<sup>b</sup>. **Ascidium monobactrium** Nyl. var. **meizobactrium** Nyl. et var. **subgranulatum** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 6, ubi definiuntur. = In Oceania (ins. Labuan).

1806<sup>b</sup>. **Gyrostomum scyphuliferum** Nyl. = In Oceania (ins. Labuan, *Sert. Lich. trop. Lab. et Singap.* p. 6).

1844<sup>b</sup>. **Cœnogonium confervoides** Nyl. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 21, ubi pro parte definitur).

1852<sup>b</sup>. **Byssocaulon filamentosum** Nyl. Addendum est : In America tropica (Guyana).

1857<sup>b</sup>. **Lecidea cupularis** Ach. *Syn. Lich.* p. 46, Nyl. etc. Nomen Acharii omissum fuit in n° 1857.

1866<sup>b</sup>. **Lecidea lutea** Schær. — *Gyalecta lutea* Nyl. *Sert. Lichen. trop. Lab. et Singap.* pp. 6 et 21, et in posteriore loco sporæ definiuntur. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).

1867<sup>b</sup>. **Lecidea (Gyalecta) proboscidea** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 22 in notula, ubi hujus speciei accuratior definitio datur.

1886<sup>b</sup>. **Lecidea glabella** Nyl. *Sert. Lichen trop. Lab. et Singap.* p. 37, ubi denuo definitur

1901<sup>b</sup>. **Lecidea blepharophora** Nyl. in *Sert. Lichen. trop. Lab. et Singap.* generi *Coccocarpia* adscribitur, atque ab hac *C. blepharophora* forsân non specie differre *C. azurellam* Nyl. supra n° 1096, dicitur.

1938<sup>b</sup>. **Lecidea decoloranda** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 6, ubi definitur; thallus K sublutescit. = In Oceania (ins. Labuan).

1961<sup>b</sup>. **Lecidea meiocarpa** Nyl. vix differt a *L. sylvana* Th. Fr. *Lichenogr. scand.* p. 430, Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 35.

2066<sup>b</sup>. **L. sabuletorum** Flørke. = Addendum est in Africa (Algeria), nam *L. vernalis* var. *Muscorum* Nyl. *Prodr. Lich. Gall.* p. 107, ubi definitur, *Lich. Algér.* p. 313 et *Enum. Lich.* p. 121, *L. sphaeroides* var. *Muscorum* Schær. *Enum. Lich. europ.* p. 140, synonymon habetur *Lecidex sabuletorum* Flørke apud Stizenberger *Lecid. sabulet.* p. 29.

2072<sup>b</sup>. **Lecidea triseptulans** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 6, ubi definitur. = In Oceania (ins. Labuan).

2091<sup>b</sup>. **Lecidea connexula** Nyl. Hæc species in *Lich. Jap.* p. 111 stirpi *L. sphaeroidis* Sommerf. potius tribuitur, sed in *Sert. Lich. trop. Lab. et Singap.* p. 7, ubi etiam definitur, ad stirpem *L. luteolæ* Ach. certe pertinere affirmatur. = In Oceania (ins. Labuan).

2114<sup>b</sup>. **Lecidea sophodina** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 21, ubi definitur; thallus K —. = In Asia meridionali (Singapoure).

2193<sup>b</sup>. **Lecidea microlepta** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 7, ubi definitur. Forsân *L. chloroticulæ* Nyl. in *Flora 1877*, p. 564, et apud Hue *Addend. Lichenogr. europ.* p. 167, proxima est illa species. = In Oceania (ins. Labuan).

2243<sup>b</sup>. **Lecidea parasema** Ach. var. 1 **elæochroma** Nyl. forma **Hartungiana** (Hepp. in herb.) Nyl. in litt. ad Stizenb. et apud Stizenb. *Lichen. African.* p. 164, ubi definitur, et *Lich. ins. Maderæ* p. 10; thallus K flavet et K (CaCl) aurantiacus evadit. = In Africa occidentali (ins. Porto Santo prope Maderam).

2257<sup>b</sup>. **Lecidea granulosa** Nyl. Errore scriptum fuit : *L. granulosa* Nyl.

2280<sup>b</sup>. **Lecidea Armstrongiæ** Jones. Species quæ in hac stirpe *L. improvisæ* Nyl. *Lich. Scand.* p. 213 remanere debent sunt : 2280 *L. Armstrongiæ* Jones; 2281 *L. denotata* Nyl.; 2282 *L. improvisula* Nyl.; 2283 *L. globulisporea* Nyl. et 2284 *L. prænotata* Nyl. cæteræ ad finem *Biatorarum* sub stirpe *Lecidex fossarum* Duf. sunt referendæ.

2321<sup>b</sup>. **Lecidea hebescens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur. Sat similis est hæc species *L. albocarulescenti* Ach., supra n° 2320, proindeque ad stirpem *L. contiguæ* Fr. referri debet; illius thallus K extus intusque flavet. = In America septentrionali (ditione Tennessee).

- 2335<sup>b</sup>. **Lecidea tennesensis** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur; thallus K flavet. = In America septentrionali (ditione Tennessee).
- 2343<sup>b</sup>. **Lecidea plana** Lahm. f. **subsparsula** Nyl. in litt.; *L. plana* f. *subsparsa* Nyl. quod nomen mutatum fuit, quia jam usurpatum fuerat, supra n° 2297.
- 2400<sup>b</sup>. **Lecidea premnea** Ach. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 7, ubi sporæ definiuntur).
- 2403<sup>b</sup>. **Lecidea plurilocularis** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 7, ubi pro parte definitur).
- 2443<sup>b</sup>. **Lecidea insidians** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur. Ad stirpem *L. stellulatæ* Tayl., supra n° 2439, attinet hæc species et illius thallus K flavet. = In America septentrionali (ditione Tennessee).
- 2449<sup>b</sup>. **Lecidea melaxanthiza** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 7, ubi definitur. K erythrinus vel aurantiace erythrinus evadit thallus hujus speciei, quæ affinis est *L. melaxanthellæ* Nyl., supra n° 2448. = In Oceania (ins. Labuan).
- 2557<sup>b</sup>. **Graphis scripta** Ach., Nyl. *Sert. Lichen. trop. Lab. et Singap.* pp. 40 et 23. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).
- 2563<sup>b</sup>. **Graphis tenella** Ach. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 10, ubi sporæ definiuntur).
- 2572<sup>b</sup>. **Graphis assimilis** Nyl. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 3, ubi sporæ definiuntur).
- 2580<sup>b</sup>. **Graphis sophistica** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 10).
- 2586<sup>b</sup>. **Graphis tortuosa** Ach. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 10, ubi sporæ definiuntur).
- 2587<sup>b</sup>. **Graphis analoga** Nyl. Varietatem *subradiatam* Nyl. hujus speciei sistunt *Gr. atrofusca* Muell. et *Gr. polycarpa* Muell., Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42 in notula.
- 2600<sup>b</sup>. **Graphis subrigida** Nyl. — *Lecanactis subrigida* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 24, ubi sporæ definiuntur. = In Asia meridionali (Singapoure).
- 2613<sup>b</sup>. **Graphis Afzelii** Ach., Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 23, ubi sporæ definiuntur, et p. 36. = In Asia orientali (Japonia) et meridionali (Singapoure). — In America septentrionali (ins. Bermudis).
- 2619<sup>b</sup>. **Graphis subelegans** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. = In America septentrionali calida (Mexico).
- 2620<sup>b</sup>. **Graphis striatula** Nyl. *Sert. Lichen. trop. Lab. et Singap.* pp. 40 et 23. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).
- 2631<sup>b</sup>. **Graphis diversa** Nyl. — *Lecanactis diversa* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi apothecia et sporæ definiuntur. = In Oceania (ins. Labuan).
- F. **glyphidioidea** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 24. = In Asia meridionali (Singapoure).
- Lecanactis cohibens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 24 in notula, ubi definitur. — *Graphis diversa* f. *cohibens* Nyl. = In Asia meridionali (Malacca).
- 2634<sup>b</sup>. **Graphis diversula** Nyl. — *Lecanactis diversula* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi apothecia et sporæ definiuntur. = In Oceania (ins. Labuan).
- 2635<sup>b</sup>. **Graphis serpentosa** Nyl. — *Lecanactis serpentosa* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur, et p. 24. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).
- 2639<sup>b</sup>. **Graphis flexuosa** Nyl. — *Lecanactis flexuosa* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur, et p. 23. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).



2640<sup>b</sup>. **Graphis heterocarpa** Nyl. — *Lecanactis heterocarpa* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. Ab hac Graphide vix specie differt *Gr. adtenuans* Nyl., supra n° 2641. = In Oceania (ins. Labuan).

2643<sup>b</sup>. **Graphis subinusta** Nyl. — *Lecanactis subinusta* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur. = In Oceania (ins. Labuan).

2672<sup>b</sup>. **Graphis confluens** Nyl. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 24, ubi sporæ definiuntur).

2680<sup>b</sup>. **Graphis adscribens** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 40, ubi sporæ definiuntur).

2686<sup>b</sup>. **Graphis Balbisina** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. = In America septentrionali calida (Mexico).

2693<sup>b</sup>. **Graphis peralbida** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. Subsimitis dicitur hæc species *Gr. chlorocarpæ* Fée supra n° 2700; thallus K —. = In America septentrionali calida (Mexico).

2701<sup>b</sup>. **Graphis excellens** Nyl. Ah hac forsane specie non distinguitur *Gr. chlorocarpoides* Nyl., supra n° 2702. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi definitur).

2703<sup>b</sup>. **Graphis Chrysenteron** Mont.; *Gr. chrysentera* Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 41, ubi sporæ definiuntur).

2729<sup>b</sup>. **Graphis Poitæoides** Nyl. ex ins. Cuba, Wright n° 77, thallo K croceo-ferruginascente et sporis iodo non tinctis prædita est, *Sert. Lichen. trop. Lab. et Singap.* p. 42.

2757<sup>b</sup>. **Graphis tachygrapha** Nyl. — *Fissurina tachygrapha* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 43, ubi sporæ definiuntur. Hæc non specie forsane differt a *Gr. Dumastii* Nyl., supra n° 2755. = In Oceania (ins. Labuan).

2758<sup>b</sup>. **Graphis lactinella** Nyl. — *Fissurina lactinella* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 43, ubi definitur. = In Oceania (ins. Labuan).

2764<sup>b</sup>. **Graphis instabilis** Nyl. — *Fissurina instabilis* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 36, ubi definitur. = In Asia orientali (ins. Ogassawara, olim Bonin, prope Japoniam).

2771<sup>b</sup>. **Graphis egena** Nyl. — *Fissurina egena* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 43, ubi sporæ definiuntur. = In Oceania (ins. Labuan).

2772<sup>b</sup>. **Graphis cæσιο-hians** Nyl. — *Fissurina cæσιο-hians* Nyl. *Sert. Lichen. Lab. et Singap.* p. 43, ubi definitur. = In Oceania (ins. Labuan).

2789<sup>b</sup>. **Graphis tricosa** Nyl. — *Medusula tricosa* Nyl. *Sert. Lichen. trop. Lab. et Singap.* pp. 43 et 25. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).

2807<sup>b</sup>. **Lecanactis obfirmata** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. = In Oceania (ins. Labuan).

— *F. incolorata* Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. = In Oceania (ins. Labuan).

2840<sup>b</sup>. **Opegrapha mesophlebia** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 42, ubi definitur. = In America septentrionali calida (Mexico).

2853<sup>b</sup>. **Opegrapha assidens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 8, ubi definitur. = In Oceania (ins. Labuan).

2861<sup>b</sup>. **Opegrapha adtinens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 8, ubi definitur. = In Oceania (ins. Labuan).

2867<sup>b</sup>. **Opegrapha phyllobia** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 22, ubi spermatia definiuntur. = In Asia meridionali (Singapoure).

2868<sup>b</sup>. **Opegrapha prosodea** Ach. = In Oceania (ins. Labuan, Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 8, ubi sporæ definiuntur).

- 2886<sup>b</sup>. **Opegrapha interalbescens** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 8, ubi sporæ definiuntur).
- 2888<sup>b</sup>. **Opegrapha subsimilata** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 35, ubi definitur. = In Asia orientali (ins. Ogassawara, olim Bonin, prope Japoniam).
- 2963<sup>b</sup>. **Arthonia adspersa** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 9, ubi sporæ definiuntur).
- 2987<sup>b</sup>. **Arthonia varia** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 9, ubi sporæ definiuntur).
- 2990<sup>b</sup>. **Arthonia Antillarum** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 9, ubi sporæ definiuntur).
- 3040<sup>b</sup>. **Arthonia spectabilis** Flot. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 9, ubi sporæ definiuntur).
- 3061<sup>b</sup>. **Arthonia complanata** Fée. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 22, ubi sporæ definiuntur).
- 3064<sup>b</sup>. **Arthonia complanatulula** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 9, ubi sporæ definiuntur).
- 3097<sup>b</sup>. **Arthonia extenuescens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 9, ubi definitur. = In Oceania (ins. Labuan).
- 3112<sup>b</sup>. **Arthonia floridana** Willey *Syn. Arthon.* p. 3 eadem est species ac *A. ochrodiscodes* Nyl., quæ supra sub hoc numero ponitur proindeque prius nomen prioritate gaudens servandum, posterius autem delendum est; Will. in litt. ad Nyl. mense octobri 1891.
- 3117<sup>b</sup>. **Arthonia biseptella** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 35, ubi definitur. = In Asia orientali (ins. Ogassawara, olim Bonin, prope Japoniam).
- 3131<sup>b</sup>. **Melaspilea gemella** Nyl. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 10, ubi sporæ definiuntur).
- 3141<sup>b</sup>. **Glyphis torquescens** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 13, ubi definitur; thallus K vix lutescit. = In Asia meridionali (Singapoure).
- 3142<sup>b</sup>. **Glyphis heteroclita** Mont. = In Oceania (ins. Labuan, *Sert. Lichen. trop. Lab. et Singap.* p. 14, ubi spermatia definiuntur).
- 3143<sup>b</sup>. **Glyphis labuana** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 14, ubi definitur. = In Oceania (ins. Labuan).
- 3144<sup>b</sup>. **Glyphis labyrinthica** Ach., Nyl. *Sert. Lichen. trop. Lab. et Singap.* pp. 14 et 25, et in hoc posteriore loco, sporæ definiuntur. = In Asia meridionali (Singapoure). — In Oceania (ins. Labuan).
- 3147<sup>b</sup>. **Glyphis cicatricosa** Ach., Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 14, ubi sporæ definiuntur, et p. 25. = In Asia meridionali (Malacca et Singapoure). — In Oceania (ins. Labuan).
- 3149<sup>b</sup>. **Glyphis confluens** Mont. = In Oceania (ins. Labuan, Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 14, ubi sporæ definiuntur).
- 3152<sup>b</sup>. **Glyphis circumflexa** Nyl. Errore scriptum fuit: *Gr. circumplexa* Nyl. = In Asia meridionali (Singapoure, *Sert. Lichen. trop. Lab. et Singap.* p. 25, ubi definitur).
- 3177<sup>b</sup>. **Chiodecton seriale** Ach. forma **lineolare** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 10, ubi definitur. = In Asia meridionali (Singapoure).
- 3178<sup>b</sup>. **Chiodecton dendrizans** Nyl. *Sert. Lichen. trop. Lab. et Singap.* p. 23, ubi definitur. Subspecies videtur *Chiodecti serialis* Ach. = In Asia meridionali (Singapoure).

## CORRIGENDA

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58. Post hunc numerum legitur : n<sup>us</sup> 58 **Collema coccophylloides** Nyl., et ponendus est n<sup>us</sup> 59.

76. Post hunc numerum legitur : n<sup>us</sup> 79 **Collema conglomeratum** Hoffm., et ponendus est n<sup>us</sup> 77.

288. In ultima linea legitur : *Cl. adpersam*, infra n<sup>o</sup> 316, et ponendus est n<sup>us</sup> 317.

308. Post hunc numerum legitur : n<sup>us</sup> 390 **Cladonia mitrula** Tuck., et ponendus est n<sup>us</sup> 309.

335. In pænultima linea legitur : *C. muscigene* Eschw., et ponenda est *C. muscigena* Eschw.

340. Post hunc numerum legitur : n<sup>us</sup> 343 **Cladonia corallifera** Kunze, et ponendus est n<sup>us</sup> 341.

405. In tertia linea legitur : jamaicense, et ponendum est : jamaicensi.

442. In pænultima linea legitur : **4 membranacea** Nyl., et ponenda est F. 3.

519. In sexta linea n<sup>i</sup> 519 legitur : *Lech. Fr. Behr.*, et ponendum est : *Lich. Fr. Behr.*

653. In pænultima linea delenda est *Parmelia hispidula* Ach., quæ pertinet ad numerum 998.

609 et 664. In prima linea legitur : *Parmelia microcarpa* Pers., et ponenda est *P. macrocarpa* Pers.

781. In tertia linea delenda est *Sticta xanthosticta* Pers., quæ revera ad n<sup>um</sup> 796 pertinet.

800. In secunda linea legitur : *Lichen limbatus*, et legendum est : *Lichen limbatus* Sm.

998. In ultima linea post hæc verba : Italia et, legendum est : Lusitania. Ille error in voluminibus seorsim impressis tantum invenitur.

1004. In tertia linea delenda est : *Parmelia minor* Fée, quæ recte ponitur in n<sup>o</sup> 1001.

1009. In secunda linea legitur : *Pyxine Cocoës* Sw., et ponendus est *Lichen Cocoës* Sw.

1050. In prima linea legitur *Lichen polyrrhizus*, et addendum est : *L. polyrrhizus* L.

1092. Post hunc numerum legitur : n<sup>us</sup> 1893 **Coccocarpia periptera** Nyl., et ponendus est n<sup>us</sup> 1093.

1124. Legitur F. **deaurata** Ach., et ponenda est F. **deauratum** Ach.

1154. In septima linea legitur *Lichen obliteratus*, et addendum est : *L. obliteratus* Pers.

1306. Post hunc numerum legitur : n<sup>us</sup> 1207 **Lecanora homobola** Nyl., et ponendus est n<sup>us</sup> 1307.

1752. Post hunc numerum legitur n<sup>us</sup> 1573 **Thelotrema lecanodeum** Nyl. et ponendus est n<sup>us</sup> 1753.

1807. Legitur **Tremotylum** Nyl. et ponendum est **Tremotylum** Nyl.

2065. Post hunc numerum legitur : n<sup>us</sup> 2666 **Lecidea sabuletorum** Flørke, et ponendus est n<sup>us</sup> 2066.



2238. Post hunc numerum legitur : n<sup>us</sup> 2339 **Lecidea subaromatica** Nyl., et ponendus est n<sup>us</sup> 2239.

2631. In tertia linea delenda est *Arthonia divergens* Fée quæ ad numerum 2803 pertinet.

2803. In prima linea legitur : *Lich. exot.* p. 331, et ponendum est p. 231.

2828. In prima linea legitur : in *Flora* 1864, p. 388, et ponendum est p. 488.

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Huic operi jam perfecto quatuor novæ species addendæ sunt, nempe :

3688. **Cladonia sobolescens** Nyl. forsan subspecies *Cl. cariosæ*; huc Coem. *Cl. Belg.* 49. = In America septentrionali (ditione Tennessee, legit Calkins).

3689. **Cladonia pileolata** Nyl. species peculiaris propriæ stirpis, apotheciis testaceis bæomycoideis epiphyllis. = In America septentrionali (ditione Tennessee, legit Calkins).

3690. **Pycnothelia cladinoïdes** Nyl. = In America septentrionali (ditione Tennessee, legit Calkins).

3691. **Lecidea (Gyalecta) cubana** Nyl. = In America tropica (ins. Cuba).

Inde patet 3689 Lichenum species in hoc volumine enumerari, nam numerus 1745 deleri debet sicut dictum fuit sub numero 1804 b, et sub numero 3687 nulla ponitur species.

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# INDEX GENERUM ET SPECIERUM

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Omnia Lichenum exoticorum sive generica sive specifica nomina quæ in *Archives du Muséum*,  
3<sup>m</sup>e série,

Vol. II, 1890, pp. 244-322, n<sup>is</sup> 1-1007,  
Vol. III, 1891, pp. 33-192, n<sup>is</sup> 1008-3185,  
et vol IV, 1892, pp. 403-156, n<sup>is</sup> 3186-3691 et 1<sup>b</sup>-3178<sup>b</sup>,

vel in volumine seorsim impresso enumerata fuerunt, litterarum ordine in hoc indice digeruntur, atque, paginarum ratione omissa, illis servatur numerus qui eis in hujus operis cursu tributus fuit. Sed notandum est genera vel subgenera litteris majoribus, specierum autem synonyma *cur-sivis* litteris designari. Quoad specifica nomina, quando, genere mutato, in eandem tamen litte-ram desinunt, semel tantum et sub genere a cel. Nylander electo ponuntur. Illæ autem specierum voces, quæ ex uno genere in aliud translatae aliter cadunt, toties quoties eorum exitus variat, iterantur. Quum in eodem genere idem nomen specificum a cel. Nylander pluries usurpatum est, nomini huic quo species nunc designatur primus numerus adscribitur. Tandem cujusvis speciei formæ seu varietates velut specierum nomina enumerantur.

A	
<p>abapha Nyl. <i>Graph</i>..... 2726</p> <p>abaphoides Nyl. <i>Graph</i>..... 2727</p> <p>abbreviata Fée <i>Opegr</i>..... 2870</p> <p>abditula Nyl. <i>Verruc</i>..... 3504</p> <p>abducens Nyl. <i>Graph</i>..... 2577</p> <p>abducens Nyl. <i>Lecid</i>..... 2476</p> <p>abductans Nyl. <i>Lecid</i>..... 2175</p> <p>abnormis Nyl. <i>Arthon</i>..... 3043</p> <p>abnuens Nyl. <i>Parm</i>..... 623</p> <p>abolescens Nyl. <i>Lecan</i>..... 4279</p> <p>abortiva Ach. <i>Cladon</i>..... 287</p> <p>abrothallina Nyl. <i>Arthon</i>..... 3106</p> <p>abrothalloides Nyl. <i>Mycop</i>..... 3597</p> <p>absita Nyl. <i>Opegr</i>..... 2854</p> <p>absolutus Tuck. <i>Bæomyc</i>..... 494</p> <p>abyssinica Nyl. <i>Parm</i>..... 611</p> <p>abyssinica Nyl. <i>Ramal</i>..... 473</p> <p>acanthella Ach. <i>Cetr</i>..... 521</p> <p>accedens Nyl. <i>Lecid</i>..... 2227</p> <p>acervulata Nyl. <i>Lecid</i>..... 2240</p>	<p>Acetabulum Dub. <i>Parm</i>..... 720</p> <p>Achariana Fée <i>Melanoth</i>..... 3511</p> <p>Acharii Fée <i>Graph</i>..... 2598</p> <p>Acharii Mey. <i>Mycop</i>..... 3511</p> <p>Acharii Fée <i>Pertus</i>..... 4656</p> <p>achroa Nyl. <i>Lecan</i>..... 4365</p> <p>achroella Nyl. <i>Lecan</i>..... 4366</p> <p>achroiza Nyl. <i>Pertus</i>..... 4624 et 4624<sup>b</sup></p> <p>achroopholis Nyl. <i>Lecid</i>..... 2218</p> <p>aciculare Tuck. <i>Piloph</i>..... 271</p> <p><i>acicularis</i> Ach. <i>Cenom</i>..... 271</p> <p>aciculifera Nyl. <i>Melanoth</i>..... 3572</p> <p>acromela Nyl. <i>Physc</i>..... 928</p> <p>acrophæum Nyl. <i>Trypeth</i>..... 3534</p> <p><b>Acrosocyphus</b> Lév..... 487</p> <p>acrotella Ach. <i>Verruc</i>..... 3278</p> <p>actinobola Nyl. <i>Glyph</i>..... 3145</p> <p>actinoplaca Nyl. <i>Strig</i>..... 3561</p> <p>actinoptychum Nyl. <i>Collem</i>..... 62</p> <p>actinostoma Pers. <i>Urceol</i>..... 1831</p> <p>actinotum Tuck. <i>Thelotr</i>..... 4685</p> <p>aculeata Fr. <i>Cetr</i>..... 521</p>

acuminata Nyl. <i>Cladon</i> .....	324	agminalis Nyl. <i>Graph</i> .....	2721
Acunhana Nyl. <i>Lecid</i> .....	2438	agminella Nyl. <i>Melanoth</i> .....	2573
acuta Nyl. <i>Cladon</i> .....	291	<b>Agyrium</b> Nyl. ....	2554
adacta Fée <i>Verruc</i> .....	3388	<b>Agyrophora</b> Nyl.....	1022
adaugescens Nyl. <i>Parm</i> .....	3647	aipolia Nyl. <i>Physec</i> .....	973
adducta Nyl. <i>Parm</i> .....	638 et 638 <sup>b</sup>	alaskensis Nyl. <i>Lecid</i> .....	2179
adglutinata Nyl. <i>Physec</i> .....	1001	alba Nyl. <i>Physec</i> .....	950
adhærens Nyl. <i>Parm</i> .....	710	albariella Nyl. <i>Lecan</i> .....	1533
adjectum Nyl. <i>Thelotr</i> .....	1708	albata Nyl. <i>Arthon</i> .....	3018
admixta Nyl. <i>Lecid</i> .....	2419	albatum Nyl. <i>Endocarp</i> .....	3203
adpressum Nyl. <i>Leptog</i> .....	123	albella Ach. <i>Lecan</i> .....	1380
<i>Adscensionis</i> Ach. <i>Parm</i> .....	1006	<i>albellus</i> Pers. Lich.....	1380
adscribens Nyl. <i>Graph</i> .....	2680 et 2680 <sup>b</sup>	albens Nyl. <i>Verruc</i> .....	3306
adscripta Nyl. <i>Ricasol</i> .....	876 et 876 <sup>b</sup>	albescens Nyl. <i>Verruc</i> .....	3411
adsripturiens Nyl. <i>Graph</i> .....	2780	albicans Nyl. <i>Cladon</i> .....	348
adsripturiens Nyl. <i>Ricasol</i> .....	3652	albicans Nyl. <i>Graph</i> .....	2601
adspersa Nyl. <i>Arthon</i> .....	2963 et 2963 <sup>b</sup>	albicans Nyl. <i>Lecan</i> .....	1239
adspersa Floerke <i>Cladon</i> .....	317 et 317 <sup>b</sup>	albicans Nyl. <i>Lecid</i> .....	1984
<i>adspersa</i> Mont. <i>Cladon</i> .....	329	albicans Th. Fr. <i>Stereocaul</i> .....	268 et 3611
adtenuans Nyl. <i>Graph</i> .....	2641 et 2640 <sup>b</sup>	albicanscens Nyl. <i>Verruc</i> .....	3303
adtinens Nyl. <i>Opegr</i> .....	2861 et 2861 <sup>b</sup>	albida Nyl. <i>Lecan</i> .....	1322
adumbrans Nyl. <i>Lecid</i> .....	1957	albidella Nyl. <i>Pertus</i> .....	1592
<i>adumbrata</i> Nyl. <i>Lecid</i> .....	1957	<i>albidiforme</i> Leight. <i>Thelotr</i> .....	1691
advena Nyl. <i>Lecid</i> .....	2350	albidior Nyl. <i>Verruc</i> .....	3496
adveniens Nyl. <i>Arthon</i> .....	3037	albido-atra Nyl. <i>Verruc</i> .....	3453
adveniens Nyl. <i>Pertus</i> .....	1619	albido-fusca Nyl. <i>Lecan</i> .....	1223
adventans Nyl. <i>Pertus</i> .....	1620	albido-lutea Nyl. <i>Lecid</i> .....	2190
adversa Nyl. <i>Lecid</i> .....	2133	albido-pallens Nyl. <i>Lecan</i> .....	1224
ægialita Nyl. <i>Physec</i> .....	1006	albido-pallens Nyl. <i>Pertus</i> .....	1598
æquabilis Nyl. <i>Graph</i> .....	2683	albido-pallens Nyl. <i>Thelotr</i> .....	1703
æqualis Nyl. <i>Lecan</i> .....	1300	albidulum Nyl. <i>Thelotr</i> .....	1729
æquata Ach. <i>Lecan</i> .....	1299	albidum Nyl. <i>Thelococ</i> .....	3190
æruginascens Nyl. <i>Lecid</i> .....	2454	albidum Nyl. <i>Thelotr</i> .....	1719
æruginosa Nyl. <i>Lecan</i> .....	1393	<i>albilabra</i> Nyl. <i>Lecid</i> .....	1875
æruginosa Nyl. <i>Lecid</i> .....	2255 et 2256	albinea Nyl. <i>Physec</i> .....	968
æthiobola Wahlenb. <i>Verruc</i> .....	3275	albineum Nyl. <i>Stigmat</i> .....	2958
æthioboliza Nyl. <i>Verruc</i> .....	3276	albiseda Nyl. <i>Platygr</i> .....	2907
afferens Nyl. <i>Lecid</i> .....	2021	albiseda Nyl. <i>Verruc</i> .....	3457
affinis Nyl. <i>Lecan</i> .....	1494	<i>albo-ater</i> Hoffm. Lich.....	2492
affinis Schær. <i>Lecid</i> .....	2382	albo-atra Schær. <i>Lecid</i> .....	2492
affinissima Nyl. <i>Graph</i> .....	2773	albo-atra Nyl. <i>Opegr</i> .....	2881
affixa Nyl. <i>Physec</i> .....	995	albo-atra Krempelh. <i>Verruc</i> .....	3446
Afzelii Ach. <i>Graph</i> .....	2613 et 2613 <sup>b</sup>	albo-atrata Nyl. <i>Lecan</i> .....	1540
agelæa Fée <i>Opegr</i> .....	2836	albo-atrior Nyl. <i>Lecid</i> .....	2494
agelæa Wallr. <i>Phlyct</i> .....	1821	albo-cæsia Nyl. <i>Lecan</i> .....	1530
agelæoides Nyl. <i>Opegr</i> .....	2826	albo-cærulescens Ach. <i>Lecid</i> .....	2320
aggregans Nyl. <i>Graph</i> .....	2659	<i>albo-cærulescens</i> Fr. <i>Lecid</i> .....	2340
aggregata Nyl. <i>Cladia</i> .....	382 et 382 <sup>b</sup>	albo-ciliata Nyl. <i>Physec</i> .....	943
<i>aggregata</i> Del. Lobar.....	812	albo-cincta Nyl. <i>Platygr</i> .....	2906
aggregata Fée <i>Verruc</i> .....	3370	albo-cyphellata Nyl. <i>Stictina</i> .....	780 et 781
aggregatum Nyl. <i>Collem</i> .....	69	albo-hyalina Nyl. <i>Lecid</i> .....	1962
<i>aggregatus</i> Sw. Lich.....	382	albo-linita Nyl. <i>Verruc</i> .....	3346
aglæa Sommerf. <i>Lecid</i> .....	2360	albo-maculans Nyl. <i>Lecid</i> .....	2166
aglæida Nyl. <i>Lecid</i> .....	2361	albo-nigricans Nyl. <i>Lecid</i> .....	2151



albo-nigrum Tuck. <i>Calic</i> .....	458	ambigens Nyl. <i>Pertus</i> .....	4650
albo-notata Nyl. <i>Graph</i> .....	2706	<i>ambigua</i> Bab. <i>Cetr</i> .....	549
albo-plumbea Nyl. <i>Physc</i> .....	969	<i>ambigua</i> Fr. <i>Lecid</i> .....	2351
albo-prætexta Nyl. <i>Lecid</i> .....	4936	<i>ambigua</i> Nyl. <i>Parmeliops</i> .....	762
albo-pulverea Nyl. <i>Arthon</i> .....	3093	<i>ambigua</i> Mont. <i>Ramal</i> .....	443
albo-punctata Nyl. <i>Usnea</i> .....	500	ambiguella Nyl. <i>Arthon</i> .....	3036
albo-rosella Nyl. <i>Graph</i> .....	2774	ambiguum Nyl. <i>Platysm</i> .....	549
albo-rufella Nyl. <i>Arthon</i> .....	3005	<i>ambiguus</i> Wulf. <i>Lich</i> .....	762
albo-russula Nyl. <i>Lecid</i> .....	2455	americana Nyl. <i>Parm</i> .....	692
albo-thallina Nyl. <i>Lecid</i> .....	2446	<i>americana</i> Fée <i>Porina</i> .....	3342
albo-virens Nyl. <i>Arthon</i> .....	3026	<i>americana</i> Ach. <i>Verruc</i> .....	3366
albo-virescens Nyl. <i>Arthon</i> .....	3044	<i>americanum</i> Spreng. <i>Pyrenastr</i> .....	3367
albuginosa Nyl. <i>Lecid</i> .....	2331	americanus Nyl. <i>Pyrgill</i> .....	471
albula Nyl. <i>Lecid</i> .....	2244 et 2245	amicta Nyl. <i>Graph</i> .....	2617
albulum Nyl. <i>Thelotr</i> .....	4680	amœnior Nyl. <i>Lecid</i> .....	2025
album Nyl. <i>Thelotr</i> .....	1675 et 1758	amphibela Nyl. <i>Pannular</i> .....	1082
alcicornis Floerke <i>Cladon</i> .....	274	amphibola Nyl. <i>Verruc</i> .....	3246
<b>Alectoria</b> Ach.....	556-569 et 3639-3641	<b>Amphidium</b> Nyl.....	433
aleianta Nyl. <i>Pertus</i> .....	1599	<b>Amphiloma</b> Nyl.....	4559
aleurella Nyl. <i>Arthon</i> .....	3681	<b>Amphinomium</b> Nyl.....	89
aleurina Nyl. <i>Arthon</i> .....	3021	amphistieta Knight <i>Sticta</i> .....	862
aleurites Nyl. <i>Parmeliops</i> .....	763	amphitropa Nyl. <i>Lecid</i> .....	2234
aleurocarpa Nyl. <i>Arthon</i> .....	3019	amphiurum Nyl. <i>Dichod</i> .....	81
aleurodes Nyl. <i>Arthon</i> .....	3023	<b>Amphopsis</b> Nyl.....	3623
alexandrina Nyl. <i>Arthon</i> .....	3120	amphorella Nyl. <i>Lecan</i> .....	4496
algeriensis Mont. <i>Myxopunt</i> .....	429	ampliata Knight et Mitt. <i>Arthon</i> .....	3034
aliena Nyl. <i>Lecid</i> .....	2496	amplificans Nyl. <i>Lecid</i> .....	2098
<b>Allarthonia</b> Nyl.....	3115-3124	<i>amplissima</i> Schær. <i>Parm</i> .....	872
allinita Nyl. <i>Lecid</i> .....	2077	<i>amplissimus</i> Scop. <i>Lich</i> .....	872
<b>Allodium</b> Nyl.....	462	amplius Nyl. <i>Thelotr</i> .....	4693
allophana Ach. <i>Lecan</i> .....	4354	Anacardii Nyl. <i>Trypeth</i> .....	3536
allorrhiza Nyl. <i>Lecan</i> .....	4135	anactina Nyl. <i>Urceol</i> .....	1832
allorrhizum Nyl. <i>Psorom</i> .....	4135	anæmica Nyl. <i>Clad</i> .....	338
allosporella Nyl. <i>Graph</i> .....	2668	analepta Ach. <i>Verruc</i> .....	3476
allosporizum Nyl. <i>Thelotr</i> .....	4763	analoga Nyl. <i>Graph</i> .....	2587
allosporoides Nyl. <i>Thelotr</i> .....	4762	analoga Nyl. <i>Glyph</i> .....	3149
allosporum Nyl. <i>Thelotr</i> .....	4761	analogella Nyl. <i>Arthon</i> .....	3069
allotropa Nyl. <i>Lecid</i> .....	2062	analogicum Nyl. <i>Nephroma</i> .....	917
alludens Nyl. <i>Ramal</i> .....	425	<i>anamorpha</i> Nyl. <i>Thelotr</i> .....	4738
alpestre Flot. <i>Stereocaul</i> .....	251	anamorphoides Nyl. <i>Thelotr</i> .....	4731
alpestris Nyl. <i>Cladina</i> .....	365	anamorphum Nyl. <i>Thelotr</i> .....	4738
alpestris Sommerf. <i>Lecid</i> .....	2306	anastomosans Nyl. <i>Arthon</i> .....	3041 et 3043
alphoplaca Nyl. <i>Lecan</i> .....	4342	anastomosans Nyl. <i>Leptog</i> .....	440
alpicola Nyl. <i>Lecid</i> .....	2528	<i>anceps</i> Nyl. <i>Alect</i> .....	409
alpicola Th. Fr. <i>Parm</i> .....	747	anceps Knight <i>Lecid</i> .....	2206
alpina Sommerf. <i>Lecan</i> .....	4491	anceps Nyl. <i>Ramal</i> .....	397
alpina Nyl. <i>Lecid</i> .....	2414	andamanica Nyl. <i>Verruc</i> .....	3355
alpinum Laur. <i>Stereocaul</i> .....	253	andamanicum Nyl. <i>Thelotr</i> .....	4779
<i>alpinum</i> Nyl. <i>Stereocaul</i> .....	251 et 253	andensis Nyl. <i>Phlyctel</i> .....	4811
amara Nyl. <i>Pertus</i> .....	4566	andensis Nyl. <i>Stictina</i> .....	801
amaurocraea Nyl. <i>Cladina</i> .....	378	andesita Nyl. <i>Lecid</i> .....	2082
amazonica Nyl. <i>Parm</i> .....	645	<i>andicola</i> Del. <i>Cenomyce</i> .....	224
Ambavillaria Nyl. <i>Stictina</i> .....	799	andinum Karst. <i>Cænogon</i> .....	4839
<i>Ambavillarius</i> Bory Lichen.....	799	<i>andinum</i> Nyl. <i>Rhytidoc</i> .....	487

<i>andita</i> Nyl. <i>Lecid.</i> .....	2082	<i>apthosus</i> L. Lichen.....	919
<b>Anema</b> Nyl.....	32-33	<i>aphylla</i> Nyl. <i>Cladon</i> .....	301
<i>anfractuosa</i> Eschw. <i>Graph.</i> .....	2571	<i>apocalypticum</i> Nyl. <i>Stereocaul.</i> .....	226
<i>angelæoides</i> Nyl. <i>Opegr.</i> .....	2826	<i>apochræa</i> Anzi <i>Lecan.</i> .....	1430
<i>anglica</i> Nyl. <i>Sphinctr.</i> .....	139	<i>apochræella</i> Nyl. <i>Lecid.</i> .....	1982
<i>angolense</i> Nyl. <i>Tremotyl.</i> .....	1807	<i>apochræiza</i> Nyl. <i>Lecid.</i> .....	1983
<i>anguillæformis</i> Tayl. <i>Graph.</i> .....	2610	<i>apopetræa</i> Nyl. <i>Lecid.</i> .....	2518
<i>anguilliformis</i> Nyl. <i>Graph.</i> .....	2610	<i>apostatica</i> Nyl. <i>Lecan.</i> .....	1257
<i>anguina</i> Nyl. <i>Graph.</i> .....	2654 et 2580	<i>appendiculata</i> Fée <i>Parm.</i> .....	621
<i>anguinellum</i> Nyl. <i>Stigmat.</i> .....	2941	<i>applanata</i> Fée <i>Parm.</i> .....	1004
<i>angulata</i> Fée <i>Arthon.</i> .....	3046	<i>apposita</i> Nyl. <i>Verruc.</i> .....	3498
<i>angulata</i> Nyl. <i>Gyroph.</i> .....	1030	<i>approximata</i> Krempelh. <i>Lecid.</i> .....	2457
<i>angulata</i> Ach. <i>Usnea.</i> .....	512	<i>aprina</i> Nyl. <i>Gyroph.</i> .....	1038
<i>angulosa</i> Ach. <i>Lecan.</i> .....	1381	<i>aptata</i> Krempelh. <i>Parm.</i> .....	639
<i>angulosa</i> Nyl. <i>Melasp.</i> .....	3127	<i>aquila</i> Fr. <i>Physc.</i> .....	988
<i>angulosa</i> Laur. <i>Ramal.</i> .....	402	<i>aquilonia</i> Krempelh. <i>Lecid.</i> .....	1953
<i>angulosa</i> Nyl. <i>Ramal.</i> .....	399	<i>aquilus</i> Ach. Lichen.....	988
<i>angusta</i> Nyl. <i>Cladon.</i> .....	340	<i>Arabum</i> Nyl. <i>Ramal.</i> .....	399
<i>angustata</i> Nyl. <i>Cladon.</i> .....	358	<i>araneosa</i> Bab. <i>Parm.</i> .....	1128
<i>angustata</i> Eschw. <i>Graph.</i> .....	2567	<i>araneosum</i> Nyl. <i>Psorom.</i> .....	1128
<i>angustata</i> Pers. <i>Parm.</i> .....	753	<i>arboreum</i> Tuck. <i>Endocarp.</i> .....	3202
<i>angustata</i> Nyl. <i>Parm.</i> .....	761	<i>arborum</i> Nyl. <i>Cænog.</i> .....	1844
<i>angustata</i> Nyl. <i>Physc.</i> .....	983	<i>Arbuscula</i> Nyl. <i>Leprocaul.</i> .....	3611
<i>angustata</i> Nyl. <i>Sticta.</i> .....	844	<i>arceutina</i> Nyl. <i>Lecid.</i> .....	2138 et 2139
<i>angustatus</i> Hoffm. Lichen.....	983	<i>arceutinoides</i> Nyl. <i>Lecid.</i> .....	2139
<i>angustifolia</i> Mont. <i>Parm.</i> .....	689	<i>arcte-cincta</i> Fée <i>Pyrenul.</i> .....	3509
<i>angustifolia</i> Nyl. <i>Physc.</i> .....	944	<i>arcte-cinctum</i> Nyl. <i>Trypeth.</i> .....	3509
<i>angustiloba</i> Mont. <i>Sticta.</i> .....	839	<i>arctica</i> Nyl. <i>Dactyl.</i> .....	571
<i>angustior</i> Nyl. <i>Parmeliops.</i> .....	761	<i>arctica</i> Ach. <i>Gyroph.</i> .....	1040
<i>anisomera</i> Nyl. <i>Verruc.</i> .....	3443	<i>arctica</i> Sommerf. <i>Lecid.</i> .....	2305
<i>annulare</i> Mont. <i>Trypeth.</i> .....	3529	<i>arcticum</i> Fr. <i>Nephroma.</i> .....	912
<i>annularis</i> Fée <i>Pyrenul.</i> .....	3529	<i>arcticus</i> L. Lichen.....	912
<i>anomala</i> Nyl. <i>Graph.</i> .....	2556	<i>arcuatula</i> Nyl. <i>Lecid.</i> .....	2289
<i>anomala</i> Nyl. <i>Lecid.</i> .....	1997	<i>arenivaga</i> Nyl. <i>Heppia.</i> .....	1115
<i>anomalum</i> Ach. <i>Trypeth.</i> .....	3511	<i>areolata</i> Nyl. <i>Cladon.</i> .....	357
<i>anomœa</i> Ach. <i>Cladon.</i> .....	301	<i>areolata</i> Nyl. <i>Urceol.</i> .....	1830
<b>Anomomorpha</b> Nyl.....	2801	<i>areolata</i> Nyl. <i>Verruc.</i> .....	3260
<i>antarctica</i> Muell. <i>Lecan.</i> .....	1463	<i>areolatum</i> Nyl. <i>Endocarp.</i> .....	3260
<i>antarctica</i> Cromb. <i>Lichina.</i> .....	43	<i>argentata</i> Ach. <i>Lecan.</i> .....	1350
<i>antarcticum</i> Nyl. <i>Nephroma.</i> .....	913	<i>argentea</i> Nyl. <i>Lecid.</i> .....	2121
<i>antarcticus</i> Jacq. Lichen.....	913	<i>argentea</i> Fée <i>Nemath.</i> .....	3560
<i>antaxia</i> Nyl. <i>Phlictid.</i> .....	1810	<i>argillacea</i> Nyl. <i>Lecan.</i> .....	1320
<i>anteoposita</i> Nyl. <i>Lecid.</i> .....	1949	<i>argodes</i> Nyl. <i>Stereocaul.</i> .....	236
<i>anthocephala</i> Del. <i>Cladon.</i> .....	293 <sup>b</sup>	<b>Argopsis</b> Th. Fr.....	269
<i>anthraspis</i> Nyl. <i>Stictina.</i> .....	775	<i>Argus</i> Hook. et Tayl. <i>Stereocaul.</i> .....	236
<i>Antillarum</i> Nyl. <i>Arthon.</i> .....	2990 et 2990 <sup>b</sup>	<i>argyracea</i> Nyl. <i>Stictina.</i> .....	768
<i>Antillarum</i> Fée <i>Melanoph.</i> .....	3559	<i>argyraceus</i> Bory Lichen.....	768
<i>antillensis</i> Nyl. <i>Parm.</i> .....	608	<i>argyromela</i> Nyl. <i>Lecid.</i> .....	2117
<b>Anzia</b> Stizenb.....	753-759 et 3650	<i>arizonica</i> Nyl. <i>Parm.</i> .....	737 et 737 <sup>b</sup>
<i>apalachense</i> Nyl. <i>Collemod.</i> .....	86	<i>arizonicum</i> Tuck. <i>Omphalod.</i> .....	737 et 737 <sup>b</sup>
<i>aphanocarpa</i> Nyl. <i>Arthon.</i> .....	3006	<i>armeniaca</i> Schær. <i>Lecid.</i> .....	2363
<i>aphanotripta</i> Nyl. <i>Lecan.</i> .....	1199	<i>armeniicum</i> DC. <i>Rhizocarp.</i> .....	2363
<i>aphoristica</i> Nyl. <i>Opegr.</i> .....	2893	<i>Armstrongiæ</i> Jon. <i>Lecid.</i> .....	2280 et 2280 <sup>b</sup>
<i>aphthosa</i> Ach. <i>Peltidea.</i> .....	919	<i>aromatica</i> Ach. <i>Lecid.</i> .....	2237

<b>Arthonia</b> Ach.....	2962-3124 et 3681-2	atro-albens Nyl. <i>Lecid.</i> .....	2310
arthoniaria Nyl. <i>Pertus</i> .....	4671	atro-albescens Nyl. <i>Lecid.</i> .....	2344
arthoniella Nyl. <i>Melanoth</i> .....	3369	atro-albicans Nyl. <i>Alect.</i> .....	336
arthonioides Nyl. <i>Opegr.</i> .....	2813	atro-albicans Nyl. <i>Lecid.</i> .....	2509
arthonioides Nyl. <i>Chiodect.</i> .....	3176	atro-albida Nyl. <i>Lecan.</i> .....	1279
arthonioides Nyl. <i>Melaspil.</i> .....	3129	atro-brunnea Schær. <i>Lecid.</i> .....	2364
arthonioides Nyl. <i>Thelotr.</i> .....	1744	atro-brunnescens Nyl. <i>Lecid.</i> .....	2315
articulata Ach. <i>Usnea</i> .....	301 et 504 <sup>b</sup>	atro-brunneum Ram. Rhizocarp.....	2364
artytoides Nyl. <i>Lecid.</i> .....	2080	atro-cæsia Nyl. <i>Lecan.</i> .....	1451
asbolodes Nyl. <i>Lecid.</i> .....	2303	atro-cæsia Nyl. <i>Lecid.</i> .....	2517
ascidioides Nyl. <i>Verruc.</i> .....	3351	atro-cinerea Hepp <i>Lecan.</i> .....	1430
<b>Ascidium</b> Fée.....	1795-1805 et 3659	atro-flavella Nyl. <i>Lecid.</i> .....	2421
Ascociscana Tuck. <i>Lecan.</i> .....	1288	atro-fusca Muell. Graph.....	2587 <sup>b</sup>
aspera Floerke <i>Cladon.</i> .....	293	atro-fusca Hepp <i>Lecid.</i> .....	1973
<i>asperella</i> Hampe <i>Lecan.</i> .....	1131	atropa Nyl. <i>Phlyctel.</i> .....	1816
asperella Nyl. <i>Pannar.</i> .....	4070	atro-pruinosa Nyl. <i>Aggyroph.</i> .....	1022
asperellum Nyl. <i>Psorom.</i> .....	1131	atro-rimalis Nyl. <i>Opegr.</i> .....	2828
asperellum Nyl. <i>Pteryg.</i> .....	15	atro-rimata Nyl. <i>Lecan.</i> .....	1449
<i>aspidota</i> Ach. <i>Lecan.</i> .....	3649	atro-rubicans Nyl. <i>Lecid.</i> .....	2043
aspistea Nyl. <i>Verruc.</i> .....	3381	atro-rufa Ach. <i>Lecid.</i> .....	1972
<i>aspistea</i> Fée et Nyl. <i>Verruc.</i> .....	3366	atro-sanguinea Hepp Biat. ....	2173
assentiens Nyl. <i>Lecid.</i> .....	2264	atro-sanguinea Nyl. <i>Lecid.</i> .....	2340
assidens Nyl. <i>Opegr.</i> .....	2853 et 2853 <sup>b</sup>	atro-setiger Broter. Lichen.....	943
assimilans Nyl. <i>Pertus</i> .....	1610	atro-sulphurea Ach. <i>Lecan.</i> .....	1426
assimilata Nyl. <i>Lecid.</i> .....	2310	atro-sulphureus Wahlenb. Lichen.....	1426
assimile Nyl. <i>Stereocaul.</i> .....	241	atro-violacea Flot. <i>Lecan.</i> .....	1454
assimilis Nyl. <i>Graph.</i> .....	2572 et 2572 <sup>b</sup>	atro-virens Schær. <i>Lecid.</i> .....	2531
associata Th. Fr. <i>Lecid.</i> .....	2535	atrynea Nyl. <i>Lecan.</i> .....	1368
asterella Nyl. <i>Pannular.</i> .....	1086	attenuata Nyl. <i>Schizogr.</i> .....	3140
<i>asterellum</i> Nyl. <i>Pteryg.</i> .....	15	<i>attenuatum</i> Nyl. <i>Mycop.</i> .....	3140
asterizans Nyl. <i>Graph.</i> .....	2623	Auberianum Mont. <i>Thelotr.</i> .....	1766
asticta Nyl. <i>Sticta.</i> .....	863	Auberianoides Nyl. <i>Thelotr.</i> .....	1736
astictina Nyl. <i>Stictina.</i> .....	784	augescens Nyl. <i>Verruc.</i> .....	3232
astomoides Nyl. <i>Pertus.</i> .....	1579	aurantiaca Nyl. <i>Coccocarp.</i> .....	1094
astræa Nyl. <i>Leucogr.</i> .....	2810	aurantiaca Nyl. <i>Lecan.</i> .....	1180
astroidea Ach. <i>Arthon.</i> .....	3076 et 3065	aurantiaca Nyl. <i>Verruc.</i> .....	3407
astroidea Fr. <i>Physc.</i> .....	978	<i>aurantiacus</i> Lightf. Lichen.....	1180
astroidea Nyl. <i>Verruc.</i> .....	3367	aurantiella Nyl. <i>Lecan.</i> .....	1186
<b>Astrothelium</b> Eschw.....	3573-3592	<i>aurata</i> Mont. Biat.....	198
astuta Nyl. <i>Verruc.</i> .....	3311	<i>aurata</i> Ach. <i>Parmosticta.</i> .....	844 et 844 <sup>b</sup>
<i>aterrimum</i> Stirt. Endocarpisc.....	1118	<i>auratum</i> Pers. <i>Nephroma.</i> .....	844
athelia Nyl. <i>Cladon.</i> .....	311	auratus Nyl. <i>Bæomyc.</i> .....	198
athroodes Nyl. <i>Lecan.</i> .....	1536	aurea Nyl. <i>Lecan.</i> .....	1172
atlanticum Tuck. <i>Platysm.</i> .....	534	<i>aurea</i> Goeb. <i>Teleph.</i> .....	844
atra Ach. <i>Lecan.</i> .....	1446	aureola Nyl. <i>Lecan.</i> .....	1253
atra Pers. <i>Opegr.</i> .....	2834	aureola Nyl. <i>Physc.</i> .....	936
<i>atrata</i> Fée Graph.....	2985	aurescens Tuck. <i>Platysm.</i> .....	552
<i>atratum</i> Nyl. <i>Gymnotr.</i> .....	1806	auriculata Th. Fr. <i>Lecid.</i> .....	2355
<i>atratum</i> Fée <i>Thelotr.</i> .....	1806	aurigera Fée <i>Lecid.</i> .....	1917
<i>atricapilla</i> Tayl. <i>Parm.</i> .....	998	aurigera Nyl. <i>Stictina.</i> .....	781
atrichella Nyl. <i>Parm.</i> .....	631	aurore Nyl. <i>Sticta.</i> .....	844
atrichoides Nyl. <i>Parm.</i> .....	636	aurulenta Tuck. <i>Parm.</i> .....	591
atro-alba Flot. <i>Lecid.</i> .....	2506	Aurantii Nyl. <i>Verruc.</i> .....	3242
atro-albella Nyl. <i>Lecid.</i> .....	2432 et 2439	austerodes Nyl. <i>Parm.</i> .....	741



<i>Austini</i> Will. Arthon.....	3109	<i>biatora</i> de Notar. Sticta.....	806
<i>australe</i> A. Rich. <i>Nephroma</i> .....	915	<i>biatorina</i> Nyl. Lecan.....	1200
<i>australe</i> Laur. <i>Sphæroph.</i> .....	180	<i>biatorina</i> Mont. Parm.....	1849
<i>australiensis</i> Cromb. <i>Parm.</i> .....	714	<i>biatoriza</i> Nyl. Lecan.....	1312
<i>australiensis</i> Fr. <i>Ramal.</i> .....	409	<i>bicavatum</i> Nyl. <i>Thelotr.</i> .....	1696
<i>australis</i> Nyl. Urceol.....	1833	<i>bicineta</i> Ram. Lecan.....	1387
<i>australissima</i> Nyl. <i>Lecid.</i> .....	2418	<i>bicinctulum</i> Nyl. <i>Thelotr.</i> .....	1714
<i>autographum</i> Nyl. <i>Stigmat.</i> .....	2942	<i>bicolor</i> Nyl. <i>Alect.</i> .....	559
<i>aversum</i> Nyl. <i>Glossod.</i> .....	205	<i>bifera</i> Nyl. <i>Lecid.</i> .....	2129
<i>avertens</i> Nyl. <i>Thelotr.</i> .....	1709	<i>bifida</i> Eschw. Parm.....	952
<i>azoreum</i> Schær. Stereocaul.....	250	<i>biformis</i> Nyl. Lecan.....	1426
<i>azurella</i> Nyl. <i>Coccoarp.</i> .....	1096 et 1901 <sup>b</sup>	<i>biformis</i> Fée Lecid.....	1866
<i>azureum</i> Nyl. <i>Leptog.</i> .....	101 et 101 <sup>b</sup>	<i>biformis</i> Borr. <i>Verruc.</i> .....	3445
<i>azureus</i> Sw. Lichen.....	101	<i>bifurca</i> Nyl. <i>Melaspil.</i> .....	3126
<b>B</b>			
<i>Babingtonii</i> Nyl. <i>Graph.</i> .....	2763	<i>bilabiata</i> Nyl. <i>Graph.</i> .....	2705
<i>Babingtonii</i> Nyl. Lecan.....	1549	<i>Billardieri</i> Del. <i>Sticta</i> .....	852
<i>bacillaris</i> Nyl. <i>Cladon.</i> .....	350 et 350 <sup>b</sup>	<i>Billardieri</i> Mont. Cetr.....	744
<i>bacillifera</i> Nyl. <i>Lecid.</i> .....	2163 et 2162	<i>bimarginata</i> Nyl. <i>Platygr.</i> .....	2895
<i>baculifera</i> Nyl. <i>Lecid.</i> .....	2131	<i>Bischoffii</i> Nyl. Lecan.....	1301
<i>badia</i> Ach. Lecan.....	1311	<i>bisepitella</i> Nyl. Arthon.....	3117 et 3117 <sup>b</sup>
<i>badiella</i> Nyl. <i>Lecid.</i> .....	2484	<i>bispora</i> Nyl. <i>Lecid.</i> .....	2129
<b>Bæomyces</b> Pers.....	188-204	<i>bisporum</i> Nyl. <i>Thelotr.</i> .....	1794
<i>bahiana</i> Nyl. <i>Parm.</i> .....	659	<i>bistorta</i> Nyl. <i>Ramal.</i> .....	440
<i>bahianum</i> Nyl. <i>Thelotr.</i> .....	1776	<i>blanda</i> Nyl. Lecan.....	1394
<i>balanina</i> Nyl. <i>Physc.</i> .....	989	<i>blandior</i> Nyl. Lecan.....	1460 et 1463
<i>balaninus</i> Wahlenb. Lichen.....	989	<i>blepharophora</i> Nyl. <i>Lecid.</i> ..	1901, 1901 <sup>b</sup> et 3655
<i>Balbisii</i> Fée <i>Graph.</i> .....	2684	<i>blepharophorum</i> Bêl. Collem.....	4901
<i>Balbisina</i> Nyl. <i>Graph.</i> .....	2686 et 2686 <sup>b</sup>	<i>bogotana</i> Nyl. Lecan.....	1351
<i>Balfourii</i> Cromb. <i>Cladon.</i> .....	283	<i>bogotensis</i> Nyl. <i>Ramal.</i> .....	414
<i>balteata</i> Nyl. <i>Parm.</i> .....	751	<i>bolacinum</i> Nyl. <i>Dendriscoc.</i> .....	3607
<i>barbata</i> Fr. <i>Usnea</i> .....	491	<i>Bolanderi</i> Tuck. Endocarpisc.....	1111
<i>barbifera</i> Nyl. <i>Physc.</i> .....	949	<i>boliviana</i> Nyl. <i>Parm.</i> .....	656
<i>Beauvoisii</i> Nyl. <i>Stictina.</i> .....	794	<i>boliviana</i> Nyl. <i>Sticta.</i> .....	822
<i>Beckhausii</i> Koerb. Bacid.....	2163	<i>boliviensis</i> Nyl. <i>Phlyctid.</i> .....	1809
<i>Behringii</i> Nyl. Lecan.....	1444	<i>Bonplandi</i> Fée Opegr.....	2869
<i>Belangeri</i> Mont. Biat.....	1901	<i>Bonplandiæ</i> Nyl. Opegr.....	2869
<i>bella</i> Nyl. Lecan.....	1506	<i>Bonplandiæ</i> Fée Pyrenula.....	3377
<i>bellidiflora</i> Schær. <i>Cladon.</i> .....	343	<i>borbonica</i> Nyl. <i>Cladon.</i> .....	334
<i>belonioides</i> Nyl. Lecan.....	1523	<i>borbonica</i> Nyl. <i>Verruc.</i> .....	3353
<i>belonophorum</i> Nyl. Collem.....	65	<i>bormiensis</i> Nyl. Lecan.....	1437
<i>belonospora</i> Nyl. <i>Verruc.</i> .....	3331	<i>Borreri</i> Turn. <i>Parm.</i> .....	673
<i>bengaliense</i> Nyl. <i>Pyrgid.</i> .....	175	<i>Borreroides</i> Nyl. <i>Parm.</i> .....	677
<i>benguellensis</i> Nyl. Lecan.....	1196	<i>Boryana</i> Del. Cenom.....	334
<i>Berengeriana</i> Nyl. <i>Lecid.</i> .....	1987	<i>Boryana</i> Nyl. <i>Sticta.</i> .....	833
<i>bermudana</i> Tuck. <i>Verruc.</i> .....	3454	<i>Boryanum</i> Ach. Collem.....	80
<i>bermudensis</i> Nyl. Lecan.....	1438	<i>Boschiana</i> Nyl. <i>Stictina.</i> .....	805
<i>Berteroana</i> Nyl. <i>Ricasol.</i> .....	879	<i>botrytis</i> Hoffm. <i>Cladon.</i> .....	308
<i>Berteroanum</i> Mont. Heteroth.....	2106	<i>botularium</i> Nyl. <i>Endocarp.</i> .....	3207
<i>bessalis</i> Nyl. Arthon.....	3088	<i>Bourgæana</i> Mont. <i>Ramal.</i> .....	450
<i>betulina</i> Sm. Opegr.....	2825	<i>brachyspora</i> Th. Fr. <i>Lecid.</i> .....	2356
<b>Biatora</b> Fr.....	1869-2215	<i>bracteata</i> Nyl. Lecan.....	1170
		<i>bracteatum</i> Nyl. Placod.....	1170
		<i>brasiliana</i> Nyl. <i>Parm.</i> .....	655
		<i>brasiliensis</i> Nyl. <i>Cladon.</i> .....	310

brasiliensis Nyl. <i>Melmoth</i> .....	3568	calcarea Nyl. <i>Pertus</i> .....	1626
brasiliensis Nyl. <i>Phlyctel</i> .....	1813	calcolica Nyl. <i>Verruc</i> .....	3245
<i>brasiliensis</i> Del. <i>Sticta</i> .....	796	caliciformis Nyl. <i>Ramal</i> .....	430
Breissonii Nyl. <i>Lecan</i> .....	1244	calicaris Fr. <i>Ramal</i> .....	426 et 426 <sup>b</sup>
brevior Nyl. <i>Graph</i> .....	2572	<i>calicaris</i> Nyl. <i>Ramal</i> .....	439
brevior Nyl. <i>Physc</i> .....	931	<b>Calicium</b> Ach.....	145-162
breviuscula Nyl. <i>Lecid</i> .....	1887	californica Tuck. <i>Cetr</i> .....	524
broccha Nyl. <i>Lecan</i> .....	1450	californica Nyl. <i>Chlorea</i> .....	485
brunnea Mass. <i>Panmar</i> .....	1066	californica Nyl. <i>Platygr</i> .....	2905
<i>brunnea</i> Fée <i>Pyrenula</i> .....	3375	californica Th. Fr. <i>Schizop</i> .....	3638
brunneolum Nyl. <i>Calic</i> .....	161	callispora Nyl. <i>Lecid</i> .....	2469
<i>brunneus</i> Sw. Lichen.....	1066	<i>callithamnia</i> Tuck. <i>Sticta</i> .....	106
bryontha Nyl. <i>Pertus</i> .....	1560	callithamnion Nyl. <i>Leptog</i> .....	106
bryophila Nyl. <i>Verruc</i> .....	3229	callopisma Ach. <i>Lecan</i> .....	1159
bryophiloides Nyl. <i>Urceol</i> .....	1829	<i>callopismum</i> Nyl. <i>Placod</i> .....	1159
bryospila Nyl. <i>Verruc</i> .....	3483	callopidodes Nyl. <i>Lecan</i> .....	1267
Buchanani Nyl. <i>Psorom</i> .....	1140	callosa Nyl. <i>Physc</i> .....	976
bullata Mey. et Flot. <i>Lecid</i> .....	2228	calva Nyl. <i>Lecan</i> .....	1212
bullatum Nyl. <i>Leptog</i> .....	120	calvescens Nyl. <i>Gyroph</i> .....	1029
<i>bullatus</i> Ach. Lichen.....	120	calvescens Nyl. <i>Lecan</i> .....	1412
bumamma Nyl. <i>Lecid</i> .....	2230	calvescens Fée <i>Thelotr</i> .....	1715
Burgessii Mont. <i>Leptog</i> .....	127	<i>calvus</i> Dicks. Lichen.....	1212
byrsinum Nyl. <i>Dichod</i> .....	80 et 80 <sup>b</sup>	calycantha Del. <i>Cladon</i> .....	277
<i>byssiplaca</i> Fée <i>Lecan</i> .....	1356 et 1393	campbelliana Nyl. <i>Lecid</i> .....	2387
byssiseda Nyl. <i>Lecid</i> .....	1884	campestris Schær. <i>Lecan</i> .....	1350
<b>Byssocaulon</b> Mont.....	1851-1853	camptidia Tuck. <i>Lecan</i> .....	1234
byssomorpha Nyl. <i>Lecid</i> .....	2056	camptospora Nyl. <i>Ramal</i> .....	408
<b>C</b>			
cabbalistica Nyl. <i>Graph</i> .....	2800	canalicularis Nyl. <i>Ramal</i> .....	417
cacuminum Th. Fr. <i>Lecan</i> .....	1291	canaliculata Tayl. <i>Ramal</i> .....	422
cæsia Fr. <i>Physc</i> .....	981	<i>canaliculata</i> Fr. <i>Ramal</i> .....	426
cæσιο-alba Nyl. <i>Pertus</i> .....	1601	canariensis Nyl. <i>Chlorea</i> .....	486
cæσιο-cinerea Nyl. <i>Lecan</i> .....	1474	canariensis Nyl. <i>Sticta</i> .....	817
cæσιο-crocata Nyl. <i>Physc</i> .....	955	<i>canariensis</i> Schær. <i>Sticta</i> .....	855
cæσιο-hians Nyl. <i>Graph</i> .....	2772 et 2772 <sup>b</sup>	Candelabrum Nyl. <i>Cladina</i> .....	373
cæσιο-pallens Nyl. <i>Lecid</i> .....	2025	<b>Candelaria</b> Nyl.....	1259-1267
cæσιο-pallida Nyl. <i>Lecid</i> .....	2224	<i>candelaria</i> Nyl. <i>Physc</i> .....	1265
cæσιο-picta Nyl. <i>Physc</i> .....	1007	candida Anzi <i>Lecan</i> .....	1464
<i>cæσιο-pruinosa</i> Fée Arthon.....	2649	candida Ach. <i>Lecid</i> .....	2223
<i>cæσιο-pruinosa</i> Nyl. <i>Lecid</i> .....	2455	candidata Nyl. <i>Graph</i> .....	2611
<i>cæσιο-pruinosa</i> Nyl. <i>Pyxine</i> .....	1009	candidissima Nyl. <i>Glyphol</i> .....	1552
cæσιο-rubella Ach. <i>Lecan</i> .....	1382	<i>candidus</i> Web. Lichen.....	2223
cæσιο-rufa Nyl. <i>Lecan</i> .....	1227	Canellæ-albæ Nyl. <i>Verruc</i> .....	3415
cæσιο-rufella Nyl. <i>Lecan</i> .....	1229	canescens Ach. <i>Lecid</i> .....	2416
cæσιο-rufescens Nyl. <i>Lecan</i> .....	1183	canina Hoffm. <i>Peltig</i> .....	898
cæsitia Nyl. <i>Physc</i> .....	982	<i>canina</i> Mont. <i>Peltig</i> .....	901
cæsium Nyl. <i>Chiodect</i> .....	3157	<i>caninus</i> L. Lichen.....	898
<i>cæsius</i> Hoffm. Lichen.....	981	cano-rubella Nyl. <i>Lecid</i> .....	1902
cæspitellum Nyl. <i>Leptog</i> .....	129	<i>capense</i> Mass. <i>Placod</i> .....	1174
cæspititia Floerke <i>Cladon</i> .....	330	capensis Fée <i>Dirina</i> .....	1555
cæspitosa Nyl. <i>Omphal</i> .....	24	capensis Nyl. <i>Parm</i> .....	662
calcarea Sommerf. <i>Lecan</i> .....	1477	capensis Nyl. <i>Physc</i> .....	935
		capensis Nyl. <i>Ramal</i> .....	411
		caperata Ach. <i>Parm</i> .....	580 et 580 <sup>b</sup>
		caperata Bory <i>Sticta</i> .....	826

<i>caperatula</i> Nyl. <i>Parm.</i> .....	585	<i>ceracea</i> Nyl. <i>Graph.</i> .....	2649
<i>caperatus</i> L. Lichen.....	580	<i>ceranoides</i> Borr. <i>Collem.</i> .....	43
<i>capitata</i> Ach. <i>Ramal.</i> .....	447	<i>cerasentera</i> Nyl. <i>Lecid.</i> .....	2210
<i>capitellata</i> Nyl. <i>Cladina.</i> .....	378	<i>Cerasi</i> Schrad. <i>Verruc.</i> .....	3492
<i>caraccensis</i> Nyl. <i>Parm.</i> .....	689	<i>ceratina</i> Ach. <i>Usnea.</i> .....	503 et 503 <sup>b</sup>
<i>carcata</i> Ach. <i>Cladon.</i> .....	348	<i>ceratina</i> Fée <i>Verruc.</i> .....	3422
<i>caribæa</i> Nyl. <i>Arthon.</i> .....	2974 et 2980	<i>ceratites</i> Nyl. <i>Siph.</i> .....	208
<i>caribæum</i> Fée Coniocarp.....	3034	<i>ceratodes</i> Floerke <i>Cladon.</i> .....	288 <sup>b</sup>
<i>cariosa</i> Floerke <i>Cladon.</i> .....	284 et 284 <sup>b</sup>	<i>ceratophylla</i> Eschw. <i>Cladon.</i> .....	275
<i>cariosa</i> Laur. <i>Ramal.</i> .....	448	<i>ceratophyllina</i> Nyl. <i>Cladon.</i> .....	301
<i>carnella</i> Nyl. <i>Lecan.</i> .....	4195	<i>ceratophyllus</i> Sw. Lichen.....	275
<i>carneo-albens</i> Nyl. <i>Lecid.</i> .....	4943	<i>cerebriforme</i> Mont. <i>Chiodect.</i> .....	3153
<i>carneo-fusca</i> Nyl. <i>Lecan.</i> .....	4236	<i>cerebrinella</i> Nyl. <i>Lecid.</i> .....	2453
<i>carneola</i> Fr. <i>Cladon.</i> .....	305	<i>cereolinum</i> Ach. <i>Stereocaul.</i> .....	263
<i>carneola</i> Ach. <i>Lecid.</i> .....	4864	<i>cerina</i> Ach. <i>Lecan.</i> .....	4491
<i>carneo-lutea</i> Nyl. <i>Lecid.</i> .....	4859	<i>cerina</i> Nyl. <i>Verruc.</i> .....	3389
<i>carneo-lutescens</i> Nyl. <i>Lecan.</i> .....	4349	<i>cerinella</i> Nyl. <i>Lecan.</i> .....	4494
<i>carneo-pallescens</i> Nyl. <i>Cladon.</i> .....	280	<i>cerinus</i> Ehrh. Lichen.....	4491
<i>carneo-pallida</i> Nyl. <i>Cladon.</i> .....	292	<i>cerodes</i> Nyl. <i>Lecan.</i> .....	4208
<i>carneo-pallida</i> Nyl. <i>Pertus.</i> .....	4665	<i>ceruchis</i> de Notar. <i>Ramal.</i> .....	389
<i>carnulenta</i> Nyl. <i>Lecan.</i> .....	4405	<i>cervicornis</i> Schær. <i>Cladon.</i> .....	299 et 299 <sup>b</sup>
<i>caroliniana</i> Nyl. <i>Cladina.</i> .....	377	<i>cervicornis</i> Tuck. <i>Parm.</i> .....	689
<i>caroliniana</i> Nyl. <i>Parm.</i> .....	661	<i>cervicornis</i> Nyl. <i>Stictina.</i> .....	774
<i>carolinianum</i> Tuck. <i>Trypeth.</i> .....	3516	<i>cervina</i> Nyl. <i>Cladon.</i> .....	278
<i>carpineae</i> Ach. <i>Verruc.</i> .....	3290	<i>cervina</i> Ach. <i>Lecan.</i> .....	4513
<i>carpoloma</i> Nyl. <i>Stictina.</i> .....	780	<i>cervina</i> Nyl. <i>Lecan.</i> .....	4514
<i>carpoloma</i> Rich. <i>Sticta.</i> .....	851	<i>cervino-fusca</i> Nyl. <i>Lecid.</i> .....	2009
<i>carpolomoides</i> Nyl. <i>Sticta.</i> .....	814	<i>cervinus</i> Pers. Lichen.....	4513
<i>carporrhizans</i> Tayl. <i>Parm.</i> .....	635	<b>Cetraria</b> Ach.....	517-524
<i>cartilaginea</i> Ach. <i>Lecan.</i> .....	4335	<i>cetrariæformis</i> Del. <i>Cladon.</i> .....	348
<i>cartilaginea</i> Fée <i>Verruc.</i> .....	3416	<i>cetrarioides</i> Schw. <i>Cladon.</i> .....	359
<i>caryophyllata</i> Fée <i>Lecid.</i> .....	4933	<i>cetrarioides</i> Nyl. <i>Parm.</i> .....	602 et 602 <sup>b</sup>
<i>Casarettiana</i> Nyl. <i>Ricasol.</i> .....	884	<i>cetrariza</i> Nyl. <i>Alect.</i> .....	560
<i>Cascarillæ</i> Nyl. <i>Arthon.</i> .....	2965	<i>cetrata</i> Nyl. <i>Parm.</i> .....	795
<i>Cascarillæ</i> Fée <i>Graph.</i> .....	2570	<i>ceuthocarpa</i> Wahlenb. <i>Verruc.</i> .....	3268
<i>castanea</i> Schær. <i>Lecan.</i> .....	4513	<i>ceyloniensis</i> Nyl. <i>Verruc.</i> .....	3478
<i>castanea</i> Hepp <i>Biatora.</i> .....	4543	<i>chalybeia</i> Borr. <i>Lecid.</i> .....	2390
<i>castanella</i> Nyl. <i>Lecan.</i> .....	4543	<i>chalybeiza</i> Nyl. <i>Lecid.</i> .....	2380
<i>castaniza</i> Nyl. <i>Lecan.</i> .....	3656	<i>chalybeiformis</i> Ach. <i>Alect.</i> .....	563 et 563 <sup>b</sup>
<i>catapasta</i> Nyl. <i>Verruc.</i> .....	3332	<i>cheileum</i> Ach. <i>Collem.</i> .....	55
<i>catawbensis</i> Nyl. <i>Lecid.</i> .....	2490	<i>chilena</i> Nyl. <i>Dirina.</i> .....	4558
<i>catenatula</i> Nyl. <i>Arthon.</i> .....	2981	<i>chilena</i> Nyl. <i>Parm.</i> .....	660
<i>catervaria</i> Fée <i>Verruc.</i> .....	3419	<i>chilena</i> Mont. <i>Ramal.</i> .....	448
<i>cathomelizans</i> Nyl. <i>Thelotr.</i> .....	4743	<i>chilense</i> Mont. <i>Erioderma.</i> .....	4106
<i>caudata</i> Nyl. <i>Lecid.</i> .....	2292	<i>chilense</i> Mont. <i>Pyrenastr.</i> .....	3358
<i>cavatum</i> Ach. <i>Thelotr.</i> .....	1693 et 1693 <sup>b</sup>	<i>chilensis</i> Nyl. <i>Bæomyc.</i> .....	488
<i>cedrina</i> Nyl. <i>Xylogr.</i> .....	2553	<i>chilensis</i> Bert. <i>Ramal.</i> .....	445
<i>cellulifera</i> Tayl. <i>Sticta.</i> .....	852	<i>chilensis</i> Nyl. <i>Verruc.</i> .....	3358
<i>cellulosa</i> Ach. <i>Peltid.</i> .....	894	<i>chiodectella</i> Nyl. <i>Arthon.</i> .....	3029
<i>cellulosum</i> Nyl. <i>Nephroma.</i> .....	894	<i>chidectoides</i> Nyl. <i>Arthon.</i> .....	3030
<i>cenisea</i> Ach. <i>Lecan.</i> .....	4368	<b>Chiodecton</b> Ach.....	3153-3185
<i>cenisia</i> Nyl. <i>Lecan.</i> .....	4368	<i>chiodectonoides</i> Nyl. <i>Pertus.</i> .....	4654
<i>cenotea</i> Schær. <i>Cladon.</i> .....	328	<i>chionea</i> Norm. <i>Lecid.</i> .....	2499
<i>centrifuga</i> Ach. <i>Parm.</i> .....	718	<i>chionographa</i> Nyl. <i>Opegr.</i> .....	2831



chionostomum Nyl. <i>Thelotr.</i> .....	1723	ciliatus Nyl. <i>Neurop.</i> .....	514
chlarodes Nyl. <i>Lecan.</i> .....	1357	ciliolata Mont. <i>Coccocarp.</i> .....	1098 et 1098 <sup>b</sup>
chlarona Nyl. <i>Lecan.</i> .....	1336 et 1360	<i>ciniciodorum</i> Mass. <i>Leptog.</i> .....	100
chlaronella Nyl. <i>Lecan.</i> .....	1359	<i>Cinchonæ</i> Del. <i>Sticta.</i> .....	794
chlarotera Nyl. <i>Lecan.</i> .....	1360	<i>Cinchonæ</i> Ach. <i>Verruc.</i> .....	3461
chlaroterodes Nyl. <i>Lecan.</i> .....	1358	<i>Cinchonæ</i> Fée <i>Verruc.</i> .....	3375
<b>Chlorea</b> Nyl. ....	484-490	<i>Cinchonæ</i> Nyl. <i>Verruc.</i> .....	3430
chloritis Tuck. <i>Lecid.</i> .....	2093	<i>Cinchonarum</i> Fée <i>Ascid.</i> .....	1799 et 1799 <sup>b</sup>
chlorocarpa Fée <i>Graph.</i> .....	2700	<i>Cinchonarum</i> Fée <i>Lecid.</i> .....	2454
chlorocarpoides Nyl. <i>Graph.</i> ...	2702 et 2701 <sup>b</sup>	<i>Cinchonarum</i> Nyl. <i>Verruc.</i> .....	3366
chloroconia Tuck. <i>Lecid.</i> .....	2408	<i>cincinnati</i> Fr. <i>Alect.</i> .....	568
chlorographa Nyl. <i>Opegr.</i> .....	2862	<i>cincinnati</i> Ach. <i>Parm.</i> .....	749
chlorographiza Nyl. <i>Opegr.</i> .....	2846	<i>cinefaciens</i> Nyl. <i>Verruc.</i> .....	3444
chloroleuca Nyl. <i>Lecan.</i> .....	4192	<i>cineraria</i> Nyl. <i>Pertus.</i> .....	1669
<i>chloroleuca</i> Hook. et Tayl. <i>Sticta.</i> .....	833	<i>cinerascens</i> Nyl. <i>Arthon.</i> .....	3037
chloromeloides Nyl. <i>Leptog.</i> .....	419	<i>cinerascens</i> Nyl. <i>Lecan.</i> .....	1311
chloromelum Nyl. <i>Leptog.</i> .....	418	<i>cinerascens</i> Nyl. <i>Lecid.</i> .....	2922
<i>chloromelus</i> Sw. Lichen.....	418	<i>cinerascens</i> Nyl. <i>Pannar.</i> .....	1037
chlorophæa Floerke <i>Cladon.</i> .....	278 et 278 <sup>b</sup>	<i>cinerascens</i> Nyl. <i>Parm.</i> .....	711
chlorophæata Nyl. <i>Lecid.</i> .....	2205	<i>cinerascens</i> Nyl. <i>Physc.</i> .....	950
chlorophana Ach. <i>Lecan.</i> .....	1505	<i>cinerea</i> Sommerf. <i>Lecan.</i> .....	1465
chloroplaca Fée <i>Lecid.</i> .....	2061	<i>cinerea</i> Fée <i>Graph.</i> .....	2612
chlorotera Nyl. <i>Verruc.</i> .....	3323	<i>cinerea</i> Pers. <i>Verruc.</i> .....	3291
chlorotica Ach. <i>Lecid.</i> .....	2187	<i>cinerella</i> Flot. <i>Verruc.</i> .....	3500
chlorotica Ach. <i>Verruc.</i> .....	3289	<i>cinereo-cæsia</i> Sw. <i>Urceol.</i> .....	1825
chloroticoides Nyl. <i>Lecid.</i> .....	2083	<i>cinereo-fusca</i> Fée <i>Lecid.</i> .....	1942
<b>Chondropsis</b> Nyl. ....	765	<i>cinereo-glaucia</i> Tayl. <i>Sticta.</i> .....	835
chordalis Floerke <i>Cladon.</i> .....	294 et 294 <sup>b</sup>	<i>cinereo-glaucia</i> Hampe <i>Sticta.</i> .....	850
<i>Chroolepus</i> Ag. ....	3615	<i>cinereo-lutescens</i> Nyl. <i>Lecid.</i> .....	1963
<i>chrysentera</i> Nyl. <i>Graph.</i> .....	2703 et 2703 <sup>b</sup>	<i>cinereo-pruinosa</i> Schær. <i>Arthon.</i> .....	3012
Chrysenteron Mont. <i>Graph.</i> .....	2703	<i>cinereo-rufescens</i> Nyl. <i>Lecan.</i> .....	1489
chrysantha Tuck. <i>Cetr.</i> .....	555	<i>cinereo-virens</i> Eschw. <i>Lecan.</i> .....	1497
chrysanthum Nyl. <i>Platys.</i> .....	555	<i>cinereo-virens</i> Schær. <i>Lecid.</i> .....	2236
chrysocharpa Eschw. <i>Graph.</i> .....	2602	<i>cinereus</i> L. Lichen.....	1465
chrysocephalum Ach. <i>Calic.</i> .....	445	<i>cineriseda</i> Nyl. <i>Verruc.</i> .....	3466
chrysochroa Nyl. <i>Lecan.</i> .....	1158	<i>cineritia</i> Ach. <i>Parm.</i> .....	1559
<i>chrysochroum</i> Nyl. <i>Placod.</i> .....	1158	<i>cineritium</i> Nyl. <i>Amphil.</i> .....	1559
chrysoleuca Nyl. <i>Lecan.</i> .....	1330	<i>cinnabarina</i> Wallr. <i>Arthon.</i> .....	2962
<i>chrysoleucus</i> Sm. Lichen.....	1330	<i>cinnabarina</i> Fée <i>Graph.</i> .....	2795
chrysophthalma DC. <i>Physc.</i> .....	935	<i>cinnabarina</i> Ach. <i>Lecan.</i> .....	1174
<i>chrysophthalmus</i> L. Lichen.....	935	<i>cinnabarina</i> Sommerf. <i>Lecid.</i> .....	1923
<i>chrysops</i> Tuck. <i>Lecan.</i> .....	1506	<i>cinnabarinum</i> Nyl. <i>Placod.</i> .....	1174
chrysosticta Tayl. <i>Lecid.</i> .....	2466	<i>cinnabariza</i> Nyl. <i>Lecan.</i> .....	1175
cicatricosa Ach. <i>Glyphis.</i> .....	3147 et 3147 <sup>b</sup>	<i>cinnabarodes</i> Nyl. <i>Graph.</i> .....	2796
ciliare Nyl. <i>Platysm.</i> .....	542 et 542 <sup>b</sup>	<i>cinnabarodes</i> Nyl. <i>Lecid.</i> .....	1924
<i>ciliaris</i> Ach. <i>Cetr.</i> .....	542	<i>cinnamomea</i> Th. Fr. <i>Lecan.</i> .....	1228
<i>ciliaris</i> D C. <i>Physc.</i> .....	941	<i>cinnamomea</i> Ach. <i>Sticta.</i> .....	771
<i>ciliaris</i> Nyl. <i>Stictina.</i> .....	809	<i>cinnamomeum</i> Eschw. <i>Pyrenastr.</i> .....	3576
<i>ciliata</i> Ach. <i>Lecan.</i> .....	1125	<i>circinarioides</i> Fée <i>Solorina.</i> .....	1091
<i>ciliata</i> D C. <i>Parm.</i> .....	599	<i>circinata</i> Ach. <i>Lecan.</i> .....	1343
<i>ciliata</i> Nyl. <i>Parm.</i> .....	595	<i>circinatum</i> Nyl. <i>Placod.</i> .....	1343
<i>ciliata</i> Mont. <i>Strig.</i> .....	3565	<i>circinatus</i> Pers. Lichen.....	1343
<i>ciliatum</i> Nyl. <i>Leptog.</i> .....	408	<i>circumalbicans</i> Nyl. <i>Arthon.</i> .....	3095
<i>ciliatum</i> Nyl. <i>Psoroma.</i> .....	1125	<i>circumalbicans</i> Nyl. <i>Lecid.</i> .....	2001

circumdiluens Nyl. <i>Lecid.</i> .....	2256	coccophylloides Nyl. <i>Collem.</i> .....	59
circumducta Nyl. <i>Opegr.</i> .....	2858	coccophyllum Nyl. <i>Collem.</i> .....	58
circumflexa Nyl. <i>Glyphis.</i> .....	3152 <sup>b</sup>	Cocoës Nyl. <i>Pyxine.</i> .....	1009
circumflexa Nyl. <i>Lecid.</i> .....	2291	Cocoës Fée Circinar.....	1091
circummunita Nyl. <i>Lecan.</i> .....	1478	<b>Cœnogonium</b> Ehrenb.....	1836-1847
circumnodata Nyl. <i>Parm.</i> .....	685	cœrulescens Nyl. <i>Leptog.</i> .....	121
circumpallescens Nyl. <i>Lecid.</i> .....	2020	cœrulescens de Notar. <i>Sticta.</i> .....	806
<i>circumplexa</i> Nyl. <i>Glyphis.</i> .....	3152 et 3152 <sup>b</sup>	cœrulescens Nyl. <i>Stictina.</i> .....	777
circumplumescens Nyl. <i>Lecan.</i> .....	1350	cognata Nyl. <i>Lecid.</i> .....	2194
circumpressa Nyl. <i>Verruc.</i> .....	3475	cohibens Nyl. <i>Graph.</i> .....	2631 et 2631 <sup>b</sup>
circumpurpurans Nyl. <i>Lecid.</i> .....	1942	cohibilis Nyl. <i>Lecid.</i> .....	3675
circumradians Nyl. <i>Graph.</i> .....	2775	coilocarpa Ach. <i>Lecan.</i> .....	1373
circumrubens Nyl. <i>Verruc.</i> .....	3374	Colensoi Nyl. <i>Lecid.</i> .....	1880
circumserpens Nyl. <i>Melasp.</i> .....	3438	Colensoi Bab. <i>Stereocaul.</i> .....	227
circumtincta Nyl. <i>Lecid.</i> .....	1933	Colensoi Nyl. <i>Sticta.</i> .....	842
cirrochroa Ach. <i>Lecan.</i> .....	1157	collatum Nyl. <i>Platysm.</i> .....	531 et 531 <sup>b</sup>
<i>cirrochroum</i> Nyl. <i>Placod.</i> .....	1157	<b>Collema</b> Ach.....	34-79
citima Nyl. <i>Lecid.</i> .....	2246	<b>Collemodium</b> Nyl.....	85-88
<i>citrina</i> Tayl. <i>Cetr.</i> .....	534	<b>Collemopsis</b> Nyl.....	30-31 et 3626-27
<i>citrina</i> Ach. <i>Lecan.</i> .....	1178	colliculosa Nyl. <i>Graph.</i> .....	2681
<i>citrina</i> Schær. <i>Lecid.</i> .....	2414	<i>colliculosum</i> Mont. <i>Scleroph.</i> .....	2681
<i>citrina</i> Pers. <i>Sticta.</i> .....	778	colludens Nyl. <i>Lecid.</i> .....	2503
<i>citrinella</i> Ach. <i>Lecid.</i> .....	2414	colobicum Nyl. <i>Thelotr.</i> .....	1751
<i>citrinella</i> Fr. <i>Parm.</i> .....	1214	colobina Ach. <i>Lecan.</i> .....	1286
<i>citrinum</i> Flot. <i>Placod.</i> .....	1178	colobina Tuck. <i>Pertus.</i> .....	1641
<i>citrinum</i> Tayl. <i>Platysm.</i> .....	534	colobinoides Nyl. <i>Lecan.</i> .....	1287
<b>Cladia</b> Nyl.....	381-383	colpodes Ach. <i>Parm.</i> .....	754
<b>Cladina</b> Nyl.....	363-380	colubrosa Nyl. <i>Graph.</i> .....	2657
cladinodes Nyl. <i>Pycnothel.</i> .....	3688	columbiana Nyl. <i>Graph.</i> .....	2715
cladodes Nyl. <i>Lecan.</i> .....	1167	columbianum Nyl. <i>Trypeth.</i> .....	3535
<b>Cladonia</b> Hoffm.....	273-362 et 3637	columellatum Nyl. <i>Thelotr.</i> .....	1775
<i>Cladonia</i> Tuck. <i>Evern.</i> .....	574	comata Nyl. <i>Siph.</i> .....	211
<b>Cladopsis</b> Nyl.....	3624	<b>Combea</b> de Notar.....	474
cladonioica Nyl. <i>Lecid.</i> .....	2379	combeoides Nyl. <i>Ramal.</i> .....	390
cladonioides Nyl. <i>Chlorea.</i> .....	489	combinans Nyl. <i>Lecid.</i> .....	3672
clandestinum Nyl. <i>Astrothel.</i> .....	3579	cometia Fée <i>Graph.</i> .....	2708
clandestinum Fée <i>Thelotr.</i> .....	1687	cometia Nyl. <i>Stictina.</i> .....	785
<i>clathrata</i> de Notar. <i>Sticta.</i> .....	844	Comma Nyl. <i>Graph.</i> .....	2560
clavata Nyl. <i>Cladon.</i> .....	348	<i>Comma</i> Eschw. <i>Graph.</i> .....	2885
clavatum Nyl. <i>Piloph.</i> .....	3636	Comma Nyl. <i>Melasp.</i> .....	3132
claviceps Th. Fr. <i>Stereocaul.</i> .....	235	commatella Nyl. <i>Graph.</i> .....	2592
cleistoblephara Nyl. <i>Graph.</i> .....	2605	commatodes Nyl. <i>Melasp.</i> .....	3133
cleistomma Nyl. <i>Graph.</i> .....	2604	communis D C. <i>Pertus.</i> .....	1575
<i>cleitops</i> Fée <i>Graph.</i> .....	2604	<i>communis</i> Nyl. <i>Pertus.</i> .....	1576
coaddita Nyl. <i>Lecid.</i> .....	2049	commutans Nyl. <i>Lecan.</i> .....	1219
coarctata Ach. <i>Lecan.</i> .....	1502	comosa Nyl. <i>Physc.</i> .....	948
coccifera Nyl. <i>Pyxine.</i> .....	1015	comosa Ach. <i>Usnea.</i> .....	499
<b>Coccocaripa</b> Pers.....	1088-1099 et 3655	<i>comosus</i> Bory Lichen.....	943
coccocarpioides Nyl. <i>Lecid.</i> .....	2216	compacta Arn. <i>Lecan.</i> .....	1144
coccocarpiopsis Nyl. <i>Lecan.</i> .....	1341	compacta Nyl. <i>Lecid.</i> .....	1876
coccocarpum Nyl. <i>Gymnod.</i> .....	1143	compacta Nyl. <i>Physc.</i> .....	990
coccodes Bél. <i>Lecid.</i> .....	2102	compacta Will. <i>Pyrenops.</i> .....	3618
coccophora Nyl. <i>Pertus.</i> .....	1670	compactum Cromb. <i>Leptog.</i> .....	118
<i>coccophorum</i> Nyl. <i>Thelocarp.</i> .....	1670	compactum Cromb. <i>Sphaeroph.</i> .....	181

- compar Nyl. *Stictina*..... 776  
 comparanda Nyl. *Lecid.*..... 2081  
 comparata Nyl. *Parm.*..... 601  
 comparatula Nyl. *Verruc.*..... 3318  
 comparilis Nyl. *Graph.*..... 2751  
 compendiosa Nyl. *Lecan.*..... 1346  
 compensata Nyl. *Arthon.*..... 2974  
 compensata Nyl. *Lecan.*..... 1304  
 compensatula Nyl. *Arthon.*..... 2975  
 complanata Fée *Arthon.*..... 3061 et 3061<sup>b</sup>  
 complanata Koerb. *Lecan.*..... 1492  
 complanata Fée *Lecid.*..... 3116  
 complanata Nyl. *Ramal.*..... 418  
 complanata Fée *Strig.*..... 3539  
 complanata Nyl. *Verruc.*..... 3372  
 complanatula Nyl. *Arthon.*..... 3064 et 3064<sup>b</sup>  
 complanatus Sw. Lichen..... 418  
 complexum Nyl. *Cænog.*..... 1841  
 complicata Laur. *Cetrar.*..... 532  
 complicatula Nyl. *Leptogiops.*..... 136  
 complicatum Ach. *Endocarp.*..... 3193  
 complicatum Nyl. *Platyism.*..... 532  
 componens Nyl. *Graph.*..... 2606  
 compressa Nyl. *Graph.*..... 2869  
 compressum Ach. *Sphæroph.*..... 179 et 179<sup>b</sup>  
 compressum Nyl. *Stereocaul.*..... 232 et 237  
 compressum Bab. *Stereocaul.*..... 234  
 punctata Ach. *Porina.*..... 1781  
 punctata Mont. *Sagedia.*..... 2944  
 punctata Ach. *Urceol.*..... 1772  
 punctellum Nyl. *Thelotr.*..... 1760  
 punctulum Nyl. *Stigmat.*..... 2946  
 punctum Nyl. *Stigmat.*..... 2944  
 punctum Nyl. *Thelotr.*..... 1772  
 punctus Sm. Lichen..... 1772  
 concatenata Tuck. *Lecid.*..... 2003  
 concatenans Nyl. *Verruc.*..... 3418  
 concatenata Nyl. *Verruc.*..... 3423  
 conchata Nyl. *Cladon.*..... 303  
 concilians Nyl. *Lecan.*..... 1402  
 concolor Nyl. *Graph.*..... 2737  
 concolor Dicks. Lichen..... 1265  
 concordans Nyl. *Lecid.*..... 2402 et 2386  
 concordata Nyl. *Lecid.*..... 2386  
 concreta Nyl. *Pertus.*..... 1590  
 concreta Nyl. *Usnea.*..... 503  
 concretum Fée *Crasped.*..... 3559  
 concretum Fée *Thelotr.*..... 1704  
 Condaminea Nyl. *Graph.*..... 2596  
*Conduminea* Fée *Lecid.*..... 1922  
 condensatum Hoffm. *Stereocaul.*..... 262  
 conferta Nyl. *Arthon.*..... 2993  
 conferta (Dub.) *Lecan.*..... 1436  
 conferta Leight. *Graph.*..... 2574  
 confertula Nyl. *Opegr.*..... 2884  
 confertum Fée *Coniocarp.*..... 2993  
 confertum Nyl. *Thelotr.*..... 1693  
 confervoides Nyl. *Cænog.* 1844, 1843 et 1844<sup>b</sup>  
 confervoides Nyl. *Lecid.*..... 2521  
 configurans Nyl. *Lecid.*..... 1935  
 confinis Nyl. *Verruc.*..... 3409  
 confirmata Nyl. *Ramal.*..... 432  
 conlectens Nyl. *Lecan.*..... 1384  
 conlectens Nyl. *Lecid.*..... 2271  
 confluens Nyl. *Arthon.*..... 2971  
 confluens Mont. *Glyph.*..... 3149 et 3149<sup>b</sup>  
 confluens Nyl. *Graph.*..... 2672 et 2672<sup>b</sup>  
 confluens Ach. *Lecid.*..... 2329  
 confluens Fr. *Parm.*..... 1006  
 confluens Nyl. *Parm.*..... 663  
 conforme Fée *Thelotr.*..... 1700  
 conformis Nyl. *Verruc.*..... 3447  
 confragosa Nyl. *Lecan.*..... 1289  
 confragosula Nyl. *Lecan.*..... 1302  
 confundens Nyl. *Pertus.*..... 1637  
 confusum Nyl. *Chiodect.*..... 3162  
 congerens Nyl. *Platygr.*..... 2921  
 congestula Stirt. *Verruc.*..... 3369  
 congestulum Nyl. *Chiodect.*..... 3172  
 congestum Nyl. *Stereocaul.*..... 266  
 conglomerata Nyl. *Graph.*..... 2609  
 conglomeratum Hoffm. *Collem.*..... 77  
 congregans Nyl. *Verruc.*..... 3371  
 congregata Nyl. *Heppia.*..... 1116  
 congregatum Nyl. *Endocarpisc.*..... 1116  
 congruens Ach. *Parm.*..... 712  
 conicum Eschw. *Astroth.*..... 3576  
 coniochlora Mont. *Lecid.*..... 2401  
 coniocraea Nyl. *Cladon.*..... 288  
 coniocraea Floerke *Cladon*..... 298  
**Coniocybe** Ach..... 163-164 et 3632  
 conioys Wahlenb. *Lecid.*..... 2425  
 conioys Nyl. *Lecid.*..... 2244  
 conioptoides Nyl. *Lecid.*..... 2427  
 conista Ach. *Cladon.*..... 287  
 conistizum Nyl. *Collem.*..... 68  
 conizæa Nyl. *Lecan.*..... 1410  
 conizodes Nyl. *Verruc.*..... 3259  
 conizopta Nyl. *Lecan.*..... 1411  
 conjuncta Nyl. *Lecid.*..... 2097  
 conjungens Nyl. *Lecan.*..... 1189  
 connata Nyl. *Graph.*..... 2573  
 connatum Eschw. *Oxystom.*..... 2573  
 connexula Nyl. *Lecid.*..... 2091 et 2091<sup>b</sup>  
 connivens Nyl. *Trypeth.*..... 3552  
 conoidea Fr. *Verruc.*..... 3438  
 conoplea Nyl. *Pannar.*..... 1057  
 conothelena Nyl. *Verruc.*..... 3499



consentanea Nyl. <i>Graph.</i> .....	2752	coriacea Nyl. <i>Ricasol.</i> .....	865
consentiens Nyl. <i>Lecid.</i> .....	2348	coriacea Nyl. <i>Siph.</i> .....	216
consequella Nyl. <i>Verruc.</i> .....	3477	corniculans Nyl. <i>Parm.</i> .....	610
consimillima Nyl. <i>Opegr.</i> .....	2843	corniculata Nyl. <i>Pertus.</i> .....	1618
consimillimum Nyl. <i>Mycop.</i> .....	3601	corniculatum Nyl. <i>Endocarp.</i> .....	3199
consobrina Nyl. <i>Verruc.</i> .....	3349	cornucopioides Fr. <i>Cladon.</i> .....	340 et 340 <sup>b</sup>
consocians Nyl. <i>Graph.</i> .....	2685	<i>cornu damæ</i> Hoffm. <i>Platysm.</i> .....	817
consors Nyl. <i>Parm.</i> .....	664	<i>cornuta</i> Ach. <i>Cenom.</i> .....	287
conspersa Fée <i>Lecid.</i> .....	2285	cornuta Fr. <i>Cladon.</i> .....	298
conspersa Ach. <i>Parm.</i> .....	702 et 702 <sup>b</sup>	cornuta Flot. <i>Usnea</i> .....	504
conspersula Nyl. <i>Parm.</i> .....	707	cornutula Nyl. <i>Cladon.</i> .....	350
<i>conspersus</i> L. Lichen.....	702	<i>coronata</i> (Muell.) <i>Lecan.</i> .....	1375
conspicua Nyl. <i>Arthon.</i> .....	3004	<i>coronata</i> Nyl. <i>Parm.</i> .....	680
conspicua Del. <i>Cladon.</i> .....	314	<i>coronata</i> Nyl. <i>Ricasol.</i> .....	878
conspirans Nyl. <i>Lecid.</i> .....	2458	coronulans Nyl. <i>Lecan.</i> .....	1396 et 1400
conspiciens Nyl. <i>Lecid.</i> .....	2133	coronulata Nyl. <i>Lecan.</i> .....	1400
<i>conspureans</i> Dur. <i>Verruc.</i> .....	3254	corrosa Nyl. <i>Ricasol.</i> .....	880
constans Nyl. <i>Lecan.</i> .....	1445	corrugata Nyl. <i>Lecan.</i> .....	1386
constipans Nyl. <i>Lecan.</i> .....	1173	corrugatum Nyl. <i>Leptog.</i> .....	125
constrictans Nyl. <i>Parm.</i> .....	703	corticatum Nyl. <i>Stereocaul.</i> .....	245
contendens Nyl. <i>Verruc.</i> .....	3436	<i>corticola</i> Nyl. <i>Lecan.</i> .....	1460
contexta Nyl. <i>Graph.</i> .....	2753	corticum Nyl. <i>Lecid.</i> .....	2163
contigua Fr. <i>Lecid.</i> .....	2317	Coryli Nyl. <i>Verruc.</i> .....	3398
continens Nyl. <i>Lecid.</i> .....	2433	corymbescens Nyl. <i>Cladon.</i> .....	325
contingens Nyl. <i>Lecid.</i> .....	2475	corymbosa Nyl. <i>Cladon.</i> .....	3637
contorta Nyl. <i>Lecan.</i> .....	1477	corymbosula Nyl. <i>Cladon.</i> .....	282
contorta Nyl. <i>Parm.</i> .....	695	<b>Corynophoron</b> Nyl.....	227
contractula Nyl. <i>Lecan.</i> .....	1337	costaricensis Nyl. <i>Parm.</i> .....	666
<i>controversum</i> Pers. <i>Cænog.</i> .....	1836	costata Floerke <i>Cladon.</i> .....	279
contumescens Nyl. <i>Endocarp.</i> .....	3204	cotaria Nyl. <i>Lecan.</i> .....	1502
conturbata Nyl. <i>Arthon.</i> .....	2979	crassa Ach. <i>Lecan.</i> .....	1327
conturbatula Nyl. <i>Pyrenops.</i> .....	3617	crassa Nyl. <i>Ramal.</i> .....	458
convarians Nyl. <i>Lecid.</i> .....	1855	crassius Nyl. <i>Leptog.</i> .....	118
conveniens Nyl. <i>Thelotr.</i> .....	1746	crassulum Nyl. <i>Thelotr.</i> .....	1673
convexa Nyl. <i>Verruc.</i> .....	3373	crassum Nyl. <i>Sphæroph.</i> .....	179
convexum Nyl. <i>Trypeth.</i> .....	3516	crassum Dub. <i>Stigmat.</i> .....	2952
<i>copalchiana</i> Fée <i>Pyrenula.</i> .....	3375	<i>crassum</i> Fée <i>Trypeth.</i> .....	3526
Copelandi Nyl. <i>Lecid.</i> .....	2505	<i>crassus</i> Huds. Lichen.....	1327
<b>Cora</b> Fr.....	3186	crenata Nyl. <i>Lecan.</i> .....	1259
coracina Ach. <i>Lecid.</i> .....	2497	crenata Nyl. <i>Parm.</i> .....	715
corallifera Kunze <i>Cladon.</i> .....	341	crenata Nyl. <i>Stictina.</i> .....	768
<i>corallifera</i> Nyl. <i>Physc.</i> .....	951	crenatellum Tuck. <i>Leptog.</i> .....	404
<i>coralliphora</i> Nyl. <i>Physc.</i> .....	951	crenatum Nyl. <i>Homod.</i> .....	131
corallina Eschw. <i>Lecid.</i> .....	1893	crenulans Nyl. <i>Pannar.</i> .....	1066
<i>corallina</i> Will. <i>Pyrenops.</i> .....	3626	<i>crenulata</i> Nyl. <i>Lecan.</i> .....	1260
corallinum Nyl. <i>Stereocaul.</i> .....	261	<i>crenulata</i> Eschw. <i>Parm.</i> .....	878
<i>coralloidea</i> Wahlenb. <i>Cetr.</i> .....	553	<i>crenulata</i> Nyl. <i>Ricasol.</i> .....	883
coralloidea Nyl. <i>Lecid.</i> .....	2103	crenulatus Hepp. <i>Bæom.</i> .....	190
coralloides Nyl. <i>Lecan.</i> .....	1166	cribellans Nyl. <i>Lecan.</i> .....	1326
coralloides Pers. <i>Sphæroph.</i> .....	182	<i>cribellata</i> Tayl. <i>Parm.</i> .....	752
coralloides Fr. <i>Stereocaul.</i> .....	247	crinalis Nyl. <i>Alect.</i> .....	568
coralloideum Nyl. <i>Platysm.</i> .....	553	crinita Ach. <i>Parm.</i> .....	600
coralloideum Nyl. <i>Psoroma.</i> .....	1127	crispa Ach. <i>Cetr.</i> .....	518
corallophora Nyl. <i>Physc.</i> .....	951	crispa Nyl. <i>Physc.</i> .....	960 et 960 <sup>b</sup>

<i>crispata</i> Ach. <i>Cladon</i> .....	318	<i>cuspidans</i> Nyl. <i>Arthon</i> .....	2962
<i>crispatellum</i> Nyl. <i>Leptog</i> .....	103	<i>cuspidata</i> Ach. <i>Ramal</i> .....	458 et 458 <sup>a</sup>
<i>crispatula</i> Nyl. <i>Cladina</i> .....	363	Cuticula Fée <i>Lecid</i> .....	2412
<i>crispatula</i> Nyl. <i>Heppia</i> .....	1112	<i>cyanescens</i> Nyl. <i>Lecan</i> .....	1436
<i>crispatula</i> Despr. <i>Ramal</i> .....	453	<i>cyanescens</i> Nyl. <i>Leptog</i> .....	124
<i>crispatus</i> Ach. Bæom.....	318	<i>cyanipes</i> Nyl. <i>Cladon</i> .....	306
<i>crispellum</i> Nyl. <i>Psorom</i> .....	1133	<i>cyanizum</i> Nyl. <i>Leptog</i> .....	124
<i>cristata</i> Nyl. <i>Parm</i> .....	620	<i>cyanocentra</i> Nyl. <i>Lecid</i> .....	2013
<i>cristatella</i> Tuck. <i>Cladon</i> .....	360	<i>cyathicarpa</i> Del. <i>Sticta</i> .....	789
<i>cristatum</i> Schær. <i>Collem</i> .....	50	<i>cyathicarpa</i> Nyl. <i>Sticta</i> .....	788
<i>cristifera</i> Tayl. <i>Parm</i> .....	604	<i>cylindrica</i> Ach. <i>Gyroph</i> .....	1041
<i>cristulata</i> Ach. <i>Parm</i> .....	754	<i>cylindrica</i> Mont. <i>Physc</i> .....	933
<i>critica</i> Nyl. <i>Lecan</i> .....	1490	<i>cylindricus</i> L. Lichen.....	1041
<i>crocantha</i> Nyl. <i>Lecan</i> .....	1188	<i>cylindriphora</i> Tayl. <i>Parm</i> .....	1130
<i>crocata</i> Nyl. <i>Stictina</i> .....	778	<i>cylindriphorum</i> Nyl. <i>Psorom</i> .....	1130
<i>crocatus</i> L. Lichen.....	778	<i>cymbalifera</i> Tuck. <i>Physc</i> .....	932
<i>crocea</i> Ach. <i>Physc</i> .....	925	<i>cymbegrapha</i> Nyl. <i>Lecanact</i> .....	2805
<i>crocea</i> Ach. <i>Solorina</i> .....	921	<i>cymosa</i> Nyl. <i>Cladina</i> .....	263
<i>croceella</i> Nyl. <i>Lecid</i> .....	1996	<i>cymosum</i> Cromb. <i>Stereocaul</i> .....	249
<i>croceus</i> L. Lichen.....	921	<i>cyphalea</i> Nyl. <i>Lecid</i> .....	2288
<i>crocoides</i> Nyl. <i>Solorinina</i> .....	910	<i>cyphelliformis</i> Cromb. <i>Lecan</i> .....	1203
<b>Grocynia</b> Ach..... 1848-1850 et	3660	<i>cypria</i> Koerb. <i>Lecan</i> .....	1446
<i>cronia</i> Nyl. <i>Coccocarp</i> .....	1091	<i>cyrtelloides</i> Nyl. <i>Lecid</i> .....	2055
<i>crossophylla</i> Nyl. <i>Pannul</i> .....	1087	<i>cyrtodes</i> Nyl. <i>Arthon</i> .....	3051
<i>crotonicola</i> Nyl. <i>Melanoth</i> .....	3567	<i>cyrtospora</i> Nyl. <i>Lithogr</i> .....	2548
<i>cruentatum</i> Nyl. <i>Trypeth</i> .....	3513	<i>cyttarina</i> Nyl. <i>Lecid</i> .....	2116
<i>cruentulum</i> Nyl. <i>Trypeth</i> .....	3514		
<i>cruentum</i> Mont. <i>Trypeth</i> .....	3512	<b>D</b>	
<i>crustulata</i> Nyl. <i>Lecid</i> .....	2324	<b>Dactylina</b> Nyl.....	571
<i>crustulata</i> Floerke <i>Lecid</i> .....	2243	<i>dactylina</i> Nyl. <i>Pertus</i> .....	1562
<i>crustulosa</i> Ach. <i>Gyroph</i> .....	1032	<i>dactylinum</i> Tuck. <i>Leptog</i> .....	96
<i>cryptocarpa</i> Nyl. <i>Pertus</i> .....	1657	<i>dactylinus</i> Ach. Lichen.....	1562
<i>cryptostoma</i> Nyl. <i>Verruc</i> .....	3391	<i>dactyliza</i> Nyl. <i>Physc</i> .....	950
<i>cryptothelium</i> Nyl. <i>Astrothel</i> .....	3583	<i>dactyliza</i> Nyl. <i>Siph</i> .....	221
<i>cryptotrema</i> Nyl. <i>Thelotr</i> .....	1754	<i>dactyloideum</i> Nyl. <i>Leptog</i> .....	120
<i>crystallifera</i> Tayl. <i>Lecid</i> .....	2233	<i>dactylopholis</i> Nyl. <i>Lecan</i> .....	1542
<i>cubana</i> Nyl. <i>Lecid</i> .....	3689	<i>dactylota</i> Tuck. <i>Cladon</i> .....	307
<i>cubanum</i> Nyl. <i>Astrothel</i> .....	3582	<i>dædalea</i> Nyl. <i>Verruc</i> .....	3213
<i>cubanum</i> Tuck. <i>Thelotr</i> .....	1764	<i>dædaleum</i> Krempelh. <i>Endocarp</i> .....	3213
<i>cubanus</i> Nyl. <i>Pyrgill</i> .....	173	<i>dædaleum</i> Nyl. <i>Leptog</i> .....	121
<i>cubensis</i> Nyl. <i>Parm</i> .....	643	<i>dædaleus</i> Flot. Stephan.....	121
<i>cucullatum</i> Hoffm. <i>Platysm</i> .....	527	<i>damæcormis</i> Ach. <i>Sticta</i> .....	817
<i>cucullatus</i> Bell. Lichen.....	527	<i>dasycera</i> Nyl. <i>Usnea</i> .....	492
<i>cucurbitula</i> Mont. <i>Pertus</i> .....	1639	<i>dasy-poga</i> Tuck. <i>Ramal</i> .....	400
<i>cumanensis</i> Fée <i>Ramal</i> .....	439	<i>dasy-poga</i> Fr. <i>Usnea</i> .....	497
<b>Cumingii</b> Mont. <i>Trypeth</i> .....	3549	<i>dasy-pogoides</i> Nyl. <i>Usnea</i> .....	498
<b>Cunninghami</b> Cromb. <i>Parm</i> .....	699	<i>Davidis</i> Hue Norm.....	3192
<i>cuprea</i> Sommerf. <i>Lecid</i> .....	1986	<i>dealbata</i> Coem. <i>Cladina</i> .....	363 <sup>b</sup>
<i>cupularis</i> Ach. <i>Lecid</i> ..... 1857 et 1857 <sup>b</sup>		<i>dealbata</i> Nyl. <i>Graph</i> .....	2607
<i>cupularis</i> Knight <i>Pertus</i> .....	1631	<i>dealbata</i> Nyl. <i>Lecan</i> .....	1507
<i>cupulifera</i> Nyl. <i>Lecid</i> .....	2108	<i>dealbata</i> Nyl. <i>Pertus</i> .....	1572
<i>curtatum</i> Nyl. <i>Stereocaul</i> .....	3634	<i>dealbatus</i> Ach. Lichen.....	1572
<i>Curtisii</i> Tuck. <i>Calic</i> .....	460	<i>deaurata</i> Ach. <i>Psorom</i> .....	1124
<i>curtum</i> Borr. <i>Calic</i> ..... 455 et 455 <sup>b</sup>			

<i>debile</i> Turn. et Borr. Calic.....	456	<i>dendroides</i> Nyl. Graph.....	2626
<i>decedens</i> Leight. <i>Lecid.</i> .....	2478	<i>dendroides</i> Nyl. Leptog.....	3608
<i>deceptor</i> Nyl. <i>Lecid.</i> .....	1875	<i>dendroides</i> Del. <i>Ramal.</i> .....	395
<i>decinerascens</i> Nyl. <i>Lecid.</i> .....	2501	<i>denotanda</i> Nyl. <i>Pertus.</i> .....	1587
<i>decipiens</i> Ach. <i>Lecid.</i> .....	2217	<i>denotata</i> Nyl. <i>Lecid.</i> .....	2281 et 2280 <sup>b</sup>
<i>decipiens</i> Mont. <i>Ramal.</i> .....	456	<i>densata</i> Nyl. <i>Cladon.</i> .....	329
<i>declinanda</i> Nyl. <i>Lecid.</i> .....	1913	<i>densirostra</i> Tayl. <i>Usnea.</i> .....	492
<i>declinans</i> Nyl. <i>Lecid.</i> .....	2334	<i>denticulata</i> Nyl. <i>Ramal.</i> .....	417
<i>declinata</i> Nyl. <i>Lecid.</i> .....	2333	<i>denticulatum</i> Nyl. <i>Leptog.</i> .....	105
<i>declinis</i> Nyl. <i>Lecid.</i> .....	1913	<i>denudata</i> Nyl. <i>Arthon.</i> .....	3008
<i>decoloranda</i> Nyl. <i>Lecid.</i> .....	1938 et 1938 <sup>b</sup>	<i>denudata</i> Nyl. <i>Graph.</i> .....	2610
<i>decolorans</i> Floerke <i>Lecid.</i> .....	1939	<i>denudata</i> Nyl. <i>Physc.</i> .....	935
<i>decolorascens</i> Nyl. <i>Graph.</i> .....	2791	<i>denudata</i> Nyl. <i>Sticta.</i> .....	821
<i>decolorascens</i> Nyl. <i>Platygr.</i> .....	2929	<i>denudata</i> Tayl. <i>Sticta.</i> .....	877
<i>decorticata</i> Floerke <i>Cladon.</i> .....	281 et 281 <sup>b</sup>	<i>denudata</i> Nyl. <i>Stictina.</i> .....	782
<i>decrenata</i> Nyl. <i>Lecan.</i> .....	1261	<i>denudata</i> Nyl. <i>Verruc.</i> .....	3410
<i>decumbens</i> Nyl. <i>Siph.</i> .....	217	<i>denudatum</i> Nyl. <i>Astrothel.</i> .....	3592
<i>decussans</i> Nyl. <i>Chiodect.</i> .....	3158	<i>denudatum</i> Floerke <i>Stereocaul.</i> ....	257 et 257 <sup>b</sup>
<i>deducens</i> Nyl. <i>Lecanact.</i> .....	2802	<i>denudatum</i> Pers. <i>Stereocaul.</i> .....	240
<i>deducta</i> Nyl. <i>Lecanact.</i> .....	2802	<i>deplanata</i> Nyl. <i>Graph.</i> .....	2798
<i>deflexa</i> Nyl. <i>Lecid.</i> .....	2208	<i>deplanata</i> Nyl. <i>Ricasol.</i> .....	881
<i>deflexulum</i> Nyl. <i>Mycop.</i> .....	3602	<i>deposita</i> Nyl. <i>Lecid.</i> .....	2076
<i>deformis</i> Hoffm. <i>Cladon.</i> .....	344	<i>Depreaulii</i> Del. <i>Stereocaul.</i> .....	261
<i>deformis</i> Nyl. <i>Melasp.</i> .....	3128	<i>depressa</i> Fée Porina.....	1603
<i>degenerans</i> Floerke <i>Cladon.</i> .....	301	<i>depressulum</i> Nyl. <i>Chiodect.</i> .....	3181
<i>degenerans</i> Mont. <i>Cladon.</i> .....	293	<i>depressum</i> Mont. <i>Ascid.</i> .....	1804 et 1804 <sup>b</sup>
<i>dehiscens</i> Nyl. <i>Thelotr.</i> .....	1686	<i>depressum</i> Fée <i>Chiodect.</i> .....	3176
<i>dejungens</i> Nyl. <i>Lecid.</i> .....	2477	<i>depressum</i> Nyl. <i>Chiodect.</i> .....	3181
<i>delavata</i> Nyl. <i>Lecid.</i> .....	2472	<i>depressum</i> Mont. <i>Thelotr.</i> .....	1745 et 1804 <sup>b</sup>
<i>Delavayi</i> Hue <i>Leptog.</i> .....	416	<i>derelicta</i> Nyl. <i>Lecid.</i> .....	1942
<i>Delavayi</i> Hue <i>Parm.</i> .....	746	<i>derelicta</i> Mass. <i>Niorma.</i> .....	934
<i>delicata</i> Floerke <i>Cladon.</i> .....	331 et 331 <sup>b</sup>	<b>Dermaticum</b> Nyl.....	1052
<i>Delisea</i> Fée.....	812	<i>dermatodes</i> Nyl. <i>Pertus.</i> .....	1658
<i>Delisea</i> Fée, Bab. <i>Sticta.</i> .....	859	<i>dermatodes</i> Borr. <i>Verruc.</i> .....	3381
<i>Delisei</i> Nyl. <i>Cetr.</i> .....	519	<i>dermoplaca</i> Nyl. <i>Verruc.</i> .....	3269
<i>Delisei</i> Nyl. <i>Cladina.</i> .....	376	<i>derogata</i> Nyl. <i>Pertus.</i> .....	1668
<i>Delisei</i> Nyl. <i>Gyroph.</i> .....	1041	<i>descendens</i> Nyl. <i>Psoromar.</i> .....	1141
<i>Delisella</i> Nyl. <i>Parm.</i> .....	724	<i>deserti</i> (Ehrenb.) <i>Lecan.</i> .....	1329
<i>delusa</i> Nyl. <i>Lecid.</i> .....	2201	<i>Desfontainii</i> Nyl. <i>Stictina.</i> .....	780
<i>Demangeonii</i> Moug. et Mont. <i>Phyllisc.</i> ...	10	<i>Despreauxii</i> Del. <i>Parm.</i> .....	667
<i>deminuens</i> Nyl. <i>Lecid.</i> .....	2400	<i>desquamescens</i> Fée <i>Lecan.</i> .....	2125
<i>demutans</i> Nyl. <i>Lecid.</i> .....	1980	<i>desquamescens</i> Nyl. <i>Verruc.</i> .....	3327
<b>Dendrisocaulon</b> Nyl.....	3607-8	<i>destituta</i> Nyl. <i>Lecid.</i> .....	3674
<i>dendriscoides</i> Nyl. <i>Ramal.</i> .....	396	<i>destricta</i> Nyl. <i>Cladina.</i> .....	379
<i>dendriscum</i> Nyl. <i>Leptog.</i> .....	134	<i>detecta</i> Nyl. <i>Graph.</i> .....	2641
<i>dendritella</i> Nyl. <i>Arthon.</i> .....	3067	<i>detergens</i> Nyl. <i>Stereocaul.</i> .....	246
<i>dendritica</i> Ach. <i>Graph.</i> .....	2645	<i>detergens</i> Nyl. <i>Verruc.</i> .....	3446
<i>dendritica</i> Nyl. <i>Parm.</i> .....	722	<i>detersa</i> Nyl. <i>Physc.</i> .....	986
<i>dendriticoides</i> Nyl. <i>Graph.</i> .....	2646	<i>detinens</i> Nyl. <i>Lecid.</i> .....	2520
<i>dendrizans</i> Nyl. <i>Chiodect.</i> .....	3178 et 3178 <sup>b</sup>	<i>detonsa</i> Nyl. <i>Physc.</i> .....	987
<i>dendroclinis</i> Nyl. <i>Lecid.</i> .....	2315	<i>deusta</i> Stenh. <i>Lecid.</i> .....	2273
<i>dendrogramma</i> Nyl. <i>Graph.</i> .....	2566	<i>deusta</i> Tuck. <i>Omphal.</i> .....	27
<i>dendroidea</i> Leight. <i>Graph.</i> .....	2626	<i>deusta</i> Fr. <i>Umbilic.</i> .....	1048
<i>dendroidella</i> Nyl. <i>Ramal.</i> .....	466	<i>deuteria</i> Nyl. <i>Urceol.</i> .....	1834



develans Nyl. <i>Graph.</i> .....	2629	dilatata Nyl. <i>Physc.</i> .....	962
develatula Nyl. <i>Graph.</i> .....	2778	<i>dilatata</i> Nyl. <i>Sticta</i> .....	822 et 824
develatum Nyl. <i>Thelotr.</i> .....	1783	<i>dilatata</i> Nyl. <i>Stictina</i> .....	791
devergescens Nyl. <i>Verruc.</i> .....	3272	Dilleniana Nyl. <i>Cladon.</i> .....	276
deversa Nyl. <i>Evern.</i> .....	576	Dilleniana Ach. <i>Lecid.</i> .....	2398
devestiens Nyl. <i>Graph.</i> .....	2559	Dillenii Nyl. <i>Gyroph.</i> .....	1030
devia Knight <i>Opegr.</i> .....	2889	diluta de Notar. <i>Sticta</i> .....	820
devians Nyl. <i>Verruc.</i> .....	3254	diluta Fée <i>Verruc.</i> .....	3430
<i>diacapsis</i> Nyl. <i>Lecan.</i> .....	1828	dimidiata Nyl. <i>Lecid.</i> .....	2054
<i>diacapsis</i> Ach. <i>Urceol.</i> .....	1828	diminuens Nyl. <i>Verruc.</i> .....	3372
<i>diacapsis</i> Schær. <i>Urceol.</i> .....	1828	dimorpha Nyl. <i>Graph.</i> .....	2658
diacrita Nyl. <i>Lecid.</i> .....	1948	dimorphiza Nyl. <i>Graph.</i> .....	2776
diagrapha Nyl. <i>Opegr.</i> .....	2871	dimorphodes Nyl. <i>Graph.</i> .....	2787
diagraphoides Nyl. <i>Opegr.</i> .....	2824	diorista Nyl. <i>Lecid.</i> .....	2424
dialeptum Nyl. <i>Cænog.</i> .....	1840	diphasia Nyl. <i>Lecan.</i> .....	1233
dialyta Nyl. <i>Lecid.</i> .....	2464	<i>diphasium</i> Tuck. <i>Placod.</i> .....	1233
diamarta Nyl. <i>Lecan.</i> .....	1489	diphyella Nyl. <i>Lecan.</i> .....	1255
diamartoides Nyl. <i>Lecan.</i> .....	1481	diplacia Ach. <i>Lecan.</i> .....	1242
diaphanum Mont. <i>Leptog.</i> .....	402	diplasiospora Nyl. <i>Opegr.</i> .....	2882
<i>diaphanus</i> Sw. <i>Lichen.</i> .....	402	diplinthia Nyl. <i>Lecan.</i> .....	1306
diaphora Ach. <i>Opegr.</i> .....	2820	diplocarpoides Nyl. <i>Astroth.</i> .....	3586
diaphoriza Nyl. <i>Opegr.</i> .....	2821	diplocarpum Nyl. <i>Astroth.</i> .....	3585
diasemoides Nyl. <i>Lecid.</i> .....	2258	diploiza Nyl. <i>Lecid.</i> .....	2088
dichænella Nyl. <i>Opegr.</i> .....	2890	diplosporum Nyl. <i>Chiodect.</i> .....	3184
<b>Dichodium</b> Nyl. ....	80-83	diplotrema Nyl. <i>Thelotr.</i> .....	1690
<b>Dichonema</b> Nees.....	3187-8	diplotylium Nyl. <i>Tyloph.</i> .....	178
dichotoma Del. <i>Sticta</i> .....	829	diplotypa Nyl. <i>Cladon.</i> .....	326
<i>dichotoma</i> Nyl. <i>Sticta</i> .....	834	dirempta Nyl. <i>Verruc.</i> .....	2431
<i>dichotoma</i> Mont. <i>Sticta</i> .....	849 et 855	<b>Dirina</b> Fr. ....	1554-1558
dichotomoides Nyl. <i>Sticta</i> .....	816	<i>dirinaria</i> Nyl. <i>Opegr.</i> .....	2814
dichroa Nyl. <i>Gyroph.</i> .....	1027	dirinea Nyl. <i>Platygr.</i> .....	2926
dichroa Nyl. <i>Ricasol.</i> .....	871	<i>dirinoides</i> Nyl. <i>Opegr.</i> .....	1558
Dicksonii Nyl. <i>Lecan.</i> .....	1487	discedens Nyl. <i>Verruc.</i> .....	3220
Dicksonii Nyl. <i>Lecid.</i> .....	2349	disceptans Nyl. <i>Lecan.</i> .....	1308
dictyiza Nyl. <i>Umbil.</i> .....	1020	discernens Nyl. <i>Psorom.</i> .....	1134 et 1134 <sup>p</sup>
<i>Dictyonema</i> Ag.....	3187	disciformis Fr. <i>Lecid.</i> .....	2454
ducta Nyl. <i>Lecan.</i> .....	1239	<i>disciformis</i> Nyl. <i>Lecid.</i> .....	2473
difficilior Nyl. <i>Opegr.</i> .....	2844	discolor Nyl. <i>Ascid.</i> .....	1800
diffidens Nyl. <i>Pertus.</i> .....	1588	discolor Nyl. <i>Lecan.</i> .....	1446
diffissa Nyl. <i>Gyroph.</i> .....	1043	<i>discolor</i> Hepp <i>Lecid.</i> .....	1276
diffluens Nyl. <i>Lecid.</i> .....	2412	<i>discolor</i> Ach. <i>Pyrenula.</i> .....	3416
diffluens Nyl. <i>Verruc.</i> .....	3420 et 3422	discolor Nyl. <i>Ricasol.</i> .....	867
difformis Nyl. <i>Lecid.</i> .....	2545	discolorans Nyl. <i>Lecan.</i> .....	1276
diffracta Nyl. <i>Gyroph.</i> .....	1030	discreta Nyl. <i>Lecan.</i> .....	1521
diffractella Nyl. <i>Verruc.</i> .....	3238	discretum Nyl. <i>Psorom.</i> .....	1134
<i>diffRACTO-areolatum</i> Schær. <i>Collem.</i> .....	3687	disculiformis Nyl. <i>Lecid.</i> .....	2466
diffusa Nyl. <i>Arthon.</i> .....	3011	discurrens Nyl. <i>Graph.</i> .....	2558
diffusa Nyl. <i>Gyroph.</i> .....	1043	disjectans Nyl. <i>Graph.</i> .....	2790
diffusilis Nyl. <i>Lecan.</i> .....	1448	<i>disjuncta</i> Fée <i>Lecid.</i> .....	1180
diffusilis Nyl. <i>Verruc.</i> .....	3223	disjunctum Nyl. <i>Cænog.</i> .....	1842
diffusum Nyl. <i>Stigm.</i> .....	2947	disjungenda Nyl. <i>Lecid.</i> .....	2261
digitata Hoffm. <i>Cladon.</i> .....	345	dispansa Nyl. <i>Physc.</i> .....	956
<i>dilatata</i> Fée <i>Arthon.</i> .....	3055	disparilis Nyl. <i>Parm.</i> .....	629
<i>dilatata</i> Nyl. <i>Platygr.</i> .....	2896	dispartibilis Nyl. <i>Arthon.</i> .....	3058

<i>dispartita</i> Nyl. <i>Pannar.</i> .....	1057	<i>domingensis</i> Ach. <i>Lecan.</i> .....	1249
<i>dispersa</i> Duf. <i>Arthon.</i> .....	3041	<i>domingensis</i> Ach. <i>Physec.</i> .....	953
<i>dispersa</i> Nyl. <i>Arthon.</i> .....	3107	<i>domingensis</i> Mont. <i>Parm.</i> .....	960
<i>dispersa</i> Nyl. <i>Lecan.</i> .....	1345	<i>dovrensis</i> Nyl. <i>Lecid.</i> .....	2308
<i>dispersula</i> Nyl. <i>Arthon.</i> .....	3109	<i>Dozyana</i> Nyl. <i>Stictina.</i> .....	770
<i>dispersus</i> Pers. <i>Lichen.</i> .....	1345	<i>Dregeana</i> Hamp. <i>Parm.</i> .....	733
<i>dispora</i> Nyl. <i>Parm.</i> .....	750	<i>Drummondii</i> Nyl. <i>Lecan.</i> .....	1171
<i>disrupta</i> Nyl. <i>Ramal.</i> .....	391	<i>Dufourei</i> Del. <i>Sticta.</i> .....	804
<i>dissecta</i> Nyl. <i>Ricasol.</i> .....	877	<b>Dufouria</b> Ach. ....	570
<i>dissecta</i> Sw. <i>Sticta.</i> .....	880	<i>Dufourii</i> Fr. <i>Parm.</i> .....	1327
<i>dissectum</i> Hoffm. <i>Platysm.</i> .....	880	<i>Dufourii</i> Nyl. <i>Stictina.</i> .....	804
<i>dissectus</i> Sw. <i>Lichen.</i> .....	880	<i>Dumastii</i> Nyl. <i>Graph.</i> ..... 2755 et 2757 <sup>b</sup>	
<i>disserpens</i> Nyl. <i>Graph.</i> .....	2582	<i>duodenaria</i> Nyl. <i>Glyphis.</i> .....	3683
<i>dissidens</i> Nyl. <i>Graph.</i> .....	2593	<i>duplex</i> Fée <i>Trypeth.</i> .....	3524
<i>dissidens</i> Nyl. <i>Physec.</i> .....	3654	<i>duplicans</i> Nyl. <i>Verruc.</i> .....	3364
<i>dissimilis</i> Nyl. <i>Lecid.</i> .....	2485	<i>duplicascens</i> Nyl. <i>Verruc.</i> .....	3365
<i>dissimilis</i> Nyl. <i>Graph.</i> .....	2649	<i>duplicata</i> Ach. <i>Graph.</i> .....	2620
<i>dissimilis</i> Nyl. <i>Stictina.</i> .....	772	<i>duplicata</i> Ach. <i>Parm.</i> .....	739
<i>dissimulabilis</i> Nyl. <i>Lecid.</i> .....	2181	<i>Duriæi</i> Mont. <i>Opegr.</i> .....	2877
<i>dissimulans</i> Nyl. <i>Lecid.</i> .....	2385	<i>d'Urvillei</i> Del., Bab. <i>Sticta.</i> .....	842
<i>dissimulata</i> Nyl. <i>Sticta.</i> .....	849		
<i>dissipans</i> Nyl. <i>Verruc.</i> .....	3320	<b>E</b>	
<i>dissoluta</i> Nyl. <i>Lecan.</i> .....	1376	<i>Eatoni</i> Cromb. <i>Lecid.</i> .....	2353
<i>dissoluta</i> Nyl. <i>Siph.</i> .....	218	<i>eciliata</i> Nyl. <i>Parm.</i> .....	619
<i>distans</i> Nyl. <i>Lecan.</i> .....	1442	<i>Eckloni</i> Mont. <i>Ramal.</i> .....	415
<i>distendens</i> Nyl. <i>Arthon.</i> .....	3052	<i>Eckloni</i> Nyl. <i>Ramal.</i> ..... 438 et 442	
<i>disterrina</i> Nyl. <i>Verruc.</i> .....	3310	<i>Eckloni</i> Spr. <i>Sticta.</i> .....	779
<i>distincta</i> Nyl. <i>Parm.</i> .....	717	<i>ecmocyna</i> Ach. <i>Cladon.</i> .....	300
<i>distincta</i> Nyl. <i>Verruc.</i> .....	3503	<i>ecoronata</i> Nyl. <i>Parm.</i> .....	681
<i>distinctum</i> Nyl. <i>Thelotr.</i> .....	1782	<i>ecrustaca</i> Nyl. <i>Lecid.</i> .....	2454
<i>distrata</i> Nyl. <i>Lecid.</i> .....	2436	<i>ecrustacea</i> Nyl. <i>Verruc.</i> .....	3263
<i>divaricata</i> Nyl. <i>Cladina.</i> .....	374	<i>ectanea</i> Nyl. <i>Physec.</i> .....	936
<i>divaricata</i> Nyl. <i>Evern.</i> .....	573	<i>efferens</i> Nyl. <i>Lecid.</i> .....	2022
<i>divaricata</i> Del. <i>Parm.</i> .....	694 <sup>b</sup>	<i>effusum</i> Fée <i>Chiodect.</i> .....	3161
<i>divaricatus</i> L. <i>Lichen.</i> .....	573	<i>egena</i> Nyl. <i>Graph.</i> ..... 2771 et 2771 <sup>b</sup>	
<i>divergens</i> Nyl. <i>Alect.</i> ..... 557, 556 et 561		<i>egentior</i> Nyl. <i>Phlyctel.</i> .....	1817
<i>divergens</i> Fée <i>Arthon.</i> .....	2631	<i>egranulosa</i> Nyl. <i>Lecan.</i> .....	1399
<i>divergens</i> Nyl. <i>Lecanact.</i> .....	2803	<i>elacista</i> Nyl. <i>Lecan.</i> .....	1502
<i>divergescens</i> Nyl. <i>Alect.</i> .....	558	<i>elactescens</i> Nyl. <i>Verruc.</i> .....	3231
<i>diversa</i> Nyl. <i>Graph.</i> ..... 2631 et 2631 <sup>b</sup>		<i>elæina</i> Nyl. <i>Pannar.</i> .....	1071
<i>diversula</i> Nyl. <i>Graph.</i> ..... 2634 et 2634 <sup>b</sup>		<i>elæocarpa</i> Nyl. <i>Platygr.</i> .....	2920
<i>dividens</i> Nyl. <i>Graph.</i> .....	2673	<i>elæochroma</i> Nyl. <i>Lecid.</i> .....	2243
<i>dividens</i> Nyl. <i>Stictina.</i> .....	801	<i>elæophæa</i> Nyl. <i>Lecan.</i> .....	1310
<i>divisum</i> Nyl. <i>Dichod.</i> .....	80	<i>elapheia</i> Nyl. <i>Physec.</i> .....	993
<i>divulsa</i> Nyl. <i>Cladon.</i> .....	297	<i>elaphocera</i> Nyl. <i>Ricasol.</i> .....	866
<i>dodecamerum</i> Nyl. <i>Ascid.</i> .....	1800	<i>elegans</i> Ach. <i>Graph.</i> .....	2618
<i>dolichographa</i> Nyl. <i>Graph.</i> .....	2581	<i>elegans</i> Ach. <i>Lecan.</i> .....	1144
<i>dolichophora</i> Nyl. <i>Verruc.</i> .....	3330	<i>elegans</i> Fée <i>Phylloch.</i> .....	3559
<i>dolichorhiza</i> Nyl. <i>Peltig.</i> ..... 907 et 907 <sup>b</sup>		<i>elegans</i> Nyl. <i>Stigmat.</i> .....	2948
<i>dolichospora</i> Nyl. <i>Lecid.</i> .....	2093	<i>elegans</i> Nyl. <i>Thamn.</i> .....	223
<i>dolichosporum</i> Nyl. <i>Thelotr.</i> ..... 1694 et 1694 <sup>b</sup>		<i>elegantissima</i> Nyl. <i>Lecan.</i> .....	1147
<i>dolichotatum</i> Nyl. <i>Thelotr.</i> ..... 1734 et 1734 <sup>b</sup>		<i>elegantulum</i> Nyl. <i>Stigmat.</i> .....	2949
<i>dolosula</i> Nyl. <i>Verruc.</i> .....	3285	<i>elevata</i> Nyl. <i>Opegr.</i> .....	2816
<i>domingense</i> Nyl. <i>Ascid.</i> .....	1795		

<i>Elizæ</i> Tuck. <i>Lecid.</i> .....	2450	<i>ephebea</i> Nyl. <i>Physc.</i> .....	933
<i>elongata</i> Ach. <i>Cladon.</i> .....	293	<b>Ephebe</b> Fr.....	6-9
<i>elongata</i> Eschw. <i>Graph.</i> .....	2563	<i>ephelodes</i> Nyl. <i>Arthon.</i> .....	2996
<i>elongata</i> Nyl. <i>Graph.</i> .....	2620	<i>epibrya</i> Ach. <i>Lecan.</i> .....	1374
<i>emaciata</i> Nyl. <i>Pertus.</i> .....	1604	<i>epibryon</i> Ach. <i>Lecan.</i> .....	1374
<i>embolima</i> Nyl. <i>Solorina.</i> .....	924	<i>epidermidis</i> Ach. <i>Verruc.</i> .....	3468
<i>ementiens</i> Nyl. <i>Lecid.</i> .....	1964	<i>epigæa</i> Schær. <i>Lecid.</i> .....	2417
<i>emergescens</i> Nyl. <i>Parathel.</i> .....	3556	<i>epigæa</i> Ach. <i>Verruc.</i> .....	3288
<i>eminentior</i> Nyl. <i>Verruc.</i> .....	3343	<i>epiglauca</i> Nyl. <i>Lecid.</i> .....	2046
<i>emiscens</i> Nyl. <i>Verruc.</i> .....	3305	<i>epiglypta</i> Norrl. <i>Lecan.</i> .....	1466
<i>emplecta</i> Ach. <i>Ramal.</i> .....	447	<i>epigraphella</i> Nyl. <i>Opegr.</i> .....	2887
<i>enantia</i> Nyl. <i>Cladon.</i> .....	286	<i>epiiodiza</i> Nyl. <i>Lecid.</i> .....	2293
<i>Encephalarti</i> Krempelh. <i>Lecan.</i> .....	1197	<i>epileia</i> Nyl. <i>Pertus.</i> .....	1643
<i>endecamera</i> Nyl. <i>Phlyctis.</i> .....	1812	<i>epileptum</i> Nyl. <i>Thelotr.</i> .....	1773
<i>endiviæfolia</i> Fr. <i>Cladon.</i> .....	273	<i>epileuca</i> Nyl. <i>Platygr.</i> .....	2900
<i>endiviella</i> Nyl. <i>Cladon.</i> .....	320	<i>epileucodes</i> Nyl. <i>Platigr.</i> .....	2911
<i>endocarpa</i> Fée <i>Graph.</i> .....	2788	<i>epileucodes</i> Nyl. <i>Trypeth.</i> .....	3540
<i>endocarpea</i> Nyl. <i>Lecan.</i> .....	1510	<i>epimarta</i> Nyl. <i>Lecid.</i> .....	2454
<i>endocarpoides</i> Nyl. <i>Phyllisc.</i> .....	11	<i>epiodes</i> Nyl. <i>Arthon.</i> .....	3096
<b>Endocarpon</b> Hedw.....	3193-3218	<i>epipasta</i> Stirt. <i>Lecid.</i> .....	2241
<b>Endocena</b> Cromb.....	225	<i>epiphæa</i> Nyl. <i>Lecid.</i> .....	1959
<i>endochlora</i> Tayl. <i>Lecid.</i> .....	2219	<i>epiphorella</i> Nyl. <i>Cetr.</i> .....	522
<i>endochraceum</i> Nyl. <i>Trypeth.</i> .....	3516	<i>epiphylla</i> Nyl. <i>Verruc.</i> .....	3367
<i>endochroma</i> Nyl. <i>Lecid.</i> .....	2027	<i>epiphylla</i> Eschw. <i>Verruc.</i> .....	3559
<i>endochroma</i> Fée <i>Opegr.</i> .....	2599	<i>epiplacodia</i> Cromb. <i>Lecid.</i> .....	2241
<i>endochromoides</i> Nyl. <i>Lecid.</i> .....	2047	<i>epipolæa</i> Nyl. <i>Verruc.</i> .....	3438
<i>endochrysa</i> Bab. <i>Porina.</i> .....	3345	<i>epipolia</i> Nyl. <i>Lecid.</i> .....	2492
<i>endochrysa</i> Mont. <i>Porina.</i> .....	3328	<i>episemoides</i> Nyl. <i>Lecid.</i> .....	2540
<i>endochrysa</i> Nyl. <i>Sticta.</i> .....	839	<i>episticta</i> Nyl. <i>Sticta.</i> .....	861
<i>endochrysa</i> Hook. <i>Sticta.</i> .....	842	<i>epitripta</i> Nyl. <i>Coccocarp.</i> .....	1097
<i>endochrysea</i> Nyl. <i>Physc.</i> .....	997 et 996	<i>epitrypum</i> Nyl. <i>Thelotr.</i> .....	1787
<i>endochrysea</i> Del. <i>Sticta.</i> .....	839	<i>erixantha</i> Nyl. <i>Lecan.</i> .....	1263
<i>endochrysea</i> Nyl. <i>Verruc.</i> .....	3328	<i>eradicata</i> Nyl. <i>Parm.</i> .....	703
<i>endochrycina</i> Nyl. <i>Pyxine.</i> .....	1011	<i>erimis</i> Nyl. <i>Parm.</i> .....	624
<i>endochrysodes</i> Nyl. <i>Lecan.</i> .....	1297	<i>erinacea</i> Nyl. <i>Physc.</i> .....	942
<i>endococcina</i> Nyl. <i>Physc.</i> .....	996	<b>Erioderma</b> Fée.....	1101-1106
<b>Endococcus</b> Nyl.....	3603-3606	<i>erminea</i> Nyl. <i>Graph.</i> .....	2576
<i>endocrocea</i> Pers. <i>Parm.</i> .....	670	<i>erosa</i> Ach. <i>Gyroph.</i> .....	1044
<i>endoleuca</i> Nyl. <i>Lecid.</i> .....	2140	<i>erosa</i> Nyl. <i>Ricasol.</i> .....	884 et 878
<i>endoleuca</i> Fée <i>Pyren.</i> .....	3551	<i>erosa</i> Eschw. <i>Ricasol.</i> .....	878
<i>endoleucoides</i> Nyl. <i>Lecid.</i> .....	2142	<i>erosula</i> Nyl. <i>Physc.</i> .....	977
<i>endoleucotera</i> Nyl. <i>Lecid.</i> .....	2133	<i>erosus</i> Web. <i>Lichen</i> .....	1044
<i>endoleucula</i> Nyl. <i>Lecid.</i> .....	2144	<i>errans</i> Nyl. <i>Verruc.</i> .....	3499
<i>endoleucum</i> Nyl. <i>Trypeth.</i> .....	3551	<i>erraticus</i> Nyl. <i>Endococ.</i> .....	3603
<i>endomiltodes</i> Nyl. <i>Parm.</i> .....	706	<i>erraticum</i> Mass. <i>Tichothec.</i> .....	3603
<i>endophæa</i> Nyl. <i>Lecan.</i> .....	1403	<i>erubescens</i> Nyl. <i>Pertus.</i> .....	1660
<i>endophæoides</i> Hue <i>Lecan.</i> .....	1403	<i>erubescens</i> Kunz. <i>Trypeth.</i> .....	3519
<i>endoxantha</i> Nyl. <i>Graph.</i> .....	2624	<i>erumpens</i> Nyl. <i>Arthon.</i> .....	2962
<i>enteroleuca</i> Nyl. <i>Graph.</i> .....	2596	<i>erumpens</i> Nyl. <i>Graph.</i> .....	2648
<i>enteroleuca</i> Ach. <i>Lecid.</i> .....	2252	<i>erumpens</i> Fée <i>Trypeth.</i> .....	3522
<i>enteroleucella</i> Nyl. <i>Lecid.</i> .....	2253	<i>erumpescens</i> Nyl. <i>Pertus.</i> .....	1635
<i>enteroleucoides</i> Nyl. <i>Lecid.</i> .....	2460	<i>erupta</i> Nyl. <i>Arthon.</i> .....	2972
<i>enteromorpha</i> Ach. <i>Parm.</i> .....	743	<i>Erysibe</i> Nyl. <i>Lecan.</i> .....	1532
<i>epapillata</i> Nyl. <i>Verruc.</i> .....	3357	<i>erysibopsis</i> Nyl. <i>Lecan.</i> .....	1534





<i>fastigiata</i> Nyl. <i>Cetr.</i> .....	519	<i>flaccidissima</i> Nyl. <i>Ramal.</i> .....	446
<i>fastigiata</i> Ach. <i>Ramal.</i> .....	431	<i>flaccidum</i> Ach. <i>Collem.</i> .....	44 et 44 <sup>b</sup>
<i>fastigiata</i> Nyl. <i>Siphul.</i> .....	215	<i>flammea</i> Nyl. <i>Physc.</i> .....	938
<i>fastigiatum</i> Nyl. <i>Sphæroph.</i> .....	185	<i>flammeus</i> L. Lichen.....	938
<i>fastigiatus</i> Pers. Lichen.....	431	<i>flammula</i> Eschw. <i>Ustal.</i> .....	2797
<i>faveolata</i> Nyl. <i>Stictina.</i> .....	774	<i>flava</i> Ach. <i>Leprar.</i> .....	3613
<i>favulosa</i> Ach. <i>Glyph.</i> .....	3148	<i>flavens</i> Nyl. <i>Pertus.</i> .....	1621
<i>fecunda</i> Tuck. <i>Lecan.</i> .....	3007	<i>flavescens</i> Nyl. <i>Parm.</i> .....	597
<i>fecunda</i> Nyl. <i>Lecid.</i> .....	2104	<i>flavescens</i> Nyl. <i>Platygr.</i> .....	2908
<i>fecundum</i> Th. Fr. <i>Lopad.</i> .....	2104	<i>flavescens</i> Nyl. <i>Stictina.</i> .....	768
<i>Feei</i> Del. <i>Sticta.</i> .....	839	<i>flavicans</i> Nyl. <i>Pertus.</i> .....	1622
<i>Feei</i> Mont. <i>Strig.</i> .....	3559	<i>flavicans</i> DC. <i>Physc.</i> .....	925
<i>Feei</i> Meissn. <i>Trypeth.</i> .....	3516	<i>flavicans</i> Nyl. <i>Sticta.</i> .....	842
<i>Fendleri</i> Tuck. <i>Parm.</i> .....	546	<i>flavicans</i> Nyl. <i>Verruc.</i> .....	3380
<i>Fendleri</i> Mont. <i>Sticta.</i> .....	878	<i>flavicunda</i> Nyl. <i>Lecid.</i> .....	2317
<i>Fendlerii</i> Nyl. <i>Lecid.</i> .....	1885	<i>flavido-atra</i> Nyl. <i>Lecid.</i> .....	2395
<i>Fendlerii</i> Nyl. <i>Platysm.</i> .....	546	<i>flavido-pallens</i> Nyl. <i>Lecan.</i> .....	1418
<i>Fendlerii</i> Nyl. <i>Ricasol.</i> .....	878	<i>flavido-rufa</i> Hue <i>Lecan.</i> .....	1403
<i>ferax</i> Dur. et Mont. <i>Collem.</i> .....	56	<i>flavidula</i> Nyl. <i>Lecan.</i> .....	1250
<i>Fernandezii</i> Cromb. <i>Lecid.</i> .....	2541	<i>flaviseda</i> Nyl. <i>Platygr.</i> .....	2901
<i>Fernandezii</i> Clem. <i>Polystr.</i> .....	1808	<i>flavisedella</i> Nyl. <i>Platygr.</i> .....	2903
<i>ferrea</i> Nyl. <i>Lecid.</i> .....	2277	<i>flavo-alba</i> Nyl. <i>Lecid.</i> .....	2286
<i>ferruginea</i> Nyl. <i>Lecan.</i> .....	1216 et 1217	<i>flavo-areolata</i> Nyl. <i>Lecid.</i> .....	2462
<i>ferruginella</i> Nyl. <i>Lecan.</i> .....	1218	<i>flavo-crocea</i> Nyl. <i>Lecan.</i> .....	1252
<i>ferrugineus</i> Huds. Lichen.....	1216	<i>flavo-pallescens</i> Nyl. <i>Lecan.</i> .....	1415
<i>ferruginosa</i> Nyl. <i>Lecid.</i> .....	2447	<i>flavo-rubens</i> Nyl. <i>Lecan.</i> .....	1148
<i>fertilis</i> Nyl. <i>Lecid.</i> .....	2452	<i>flavo-rufa</i> Nyl. <i>Lecid.</i> .....	1929
<i>fibrillifera</i> Nyl. <i>Lecid.</i> .....	1883	<i>flavo-virens</i> Fée <i>Lecan.</i> .....	1393
<i>fibrosa</i> Nyl. <i>Lecan.</i> .....	1266	<i>flavo-virescens</i> Leight. <i>Umbilic.</i> .....	1052
<i>Fibula</i> Ach. <i>Cladon.</i> .....	289	<i>flexans</i> Nyl. <i>Lecanact.</i> .....	3678
<i>Fibula</i> Tuck. <i>Pilopor.</i> .....	272	<i>flexella</i> Nyl. <i>Xylogr.</i> .....	2552
<i>filamentosa</i> Mont. <i>Parm.</i> .....	1852	<i>flexuosa</i> Nyl. <i>Chlorea.</i> .....	488
<i>filamentosum</i> Nyl. <i>Byssoc.</i> .....	1852 et 1852 <sup>b</sup>	<i>flexuosa</i> Nyl. <i>Graph.</i> .....	2639 et 2639 <sup>b</sup>
<i>flicina</i> Ach. <i>Sticta.</i> .....	836	<i>flexuosa</i> Nyl. <i>Lecid.</i> .....	1941
<i>flicina</i> Nyl. <i>Stictina.</i> .....	806	<i>Flindersii</i> Cromb. <i>Lecid.</i> .....	1940
<i>flicina</i> Mont. et v. d. Bosch <i>Sticta.</i> .....	814	<i>Floerkeana</i> Fr. <i>Cladon.</i> .....	351
<i>flicinella</i> Nyl. <i>Stictina.</i> .....	808	<i>flocculosa</i> Turn. et Borr. <i>Gyroph.</i> .....	1048
<i>flicinellum</i> Nyl. <i>Dendrisc.</i> .....	3608	<i>flocculosus</i> Wulf. Lichen.....	1048
<i>filiformis</i> Fr. <i>Cladon.</i> .....	348	<i>florida</i> Fr. <i>Usnea.</i> .....	492 et 492 <sup>b</sup>
<i>Filix</i> Nyl. <i>Sticta.</i> .....	836 et 806	<i>floridana</i> Will. <i>Arthon.</i> .....	3112 <sup>b</sup>
<i>fimbriata</i> Hoffm. <i>Cladon.</i> .....	287 et 287 <sup>b</sup>	<i>floridana</i> Tuck. <i>Lecan.</i> .....	1240
<i>fimbriata</i> Nyl. <i>Lecid.</i> .....	1919	<i>floridensis</i> Nyl. <i>Lecid.</i> .....	2325
<i>firma</i> Nyl. <i>Cladon.</i> .....	274	<i>floridus</i> L. Lichen.....	492
<i>firma</i> Nyl. <i>Usnea.</i> .....	509	<i>Flotowiana</i> Nyl. <i>Collemops.</i> .....	31
<i>firmior</i> Nyl. <i>Ramal.</i> .....	434	<i>Flotowiana</i> Laur. <i>Sticta.</i> .....	831
<i>firmula</i> Nyl. <i>Physc.</i> .....	957	<i>fluviale</i> DC. <i>Endocarp.</i> .....	3197
<i>firmula</i> Nyl. <i>Verruc.</i> .....	3314	<i>foliicola</i> Cromb. <i>Physc.</i> .....	1004 <sup>b</sup>
<i>fissum</i> Nyl. <i>Thelotr.</i> .....	1768	<i>foliosa</i> Nyl. <i>Cladon.</i> .....	3637
<b>Fissurina</b> Fée.....	2741-2786	<i>foliosum</i> Nyl. <i>Stereocaul.</i> .....	244
<i>fissurinea</i> Nyl. <i>Arthon.</i> .....	3028	<i>fontana</i> Russ. <i>Hydroth.</i> .....	137
<i>fissurinella</i> Nyl. <i>Arthon.</i> .....	3027	<i>foratum</i> Nyl. <i>Thelotr.</i> .....	1702
<i>fissurinoidea</i> Nyl. <i>Graph.</i> .....	2724	<i>formosa</i> Fée <i>Parm.</i> .....	966
<i>fistulata</i> Nyl. <i>Parm.</i> .....	692	<i>formosum</i> Ach. <i>Collem.</i> .....	531
<i>flabellata</i> Mont. <i>Sticta.</i> .....	841		





Gayana Mont. <i>Roccel</i> .....	477	<i>glaucina</i> Ach. <i>Verruc</i> .....	3249
gelatinosa Chev. <i>Melasp</i> .....	3571	<i>glaucinodes</i> Nyl. <i>Verruc</i> .....	3251
gelatinosa Nyl. <i>Verruc</i> .....	3233	<i>glaucocarpa</i> Ach. <i>Lecan</i> .....	4515
gelida Ach. <i>Lecan</i> .....	4316	<i>glaucocarpoides</i> Nyl. <i>Lecan</i> .....	4529
<i>gelidus</i> L. Lichen.....	4316	<i>glaucocarpum</i> Nyl. <i>Collem</i> .....	61
gemella Nyl. <i>Melasp</i> .....	3131 et 3131 <sup>b</sup>	<i>glaucocarpus</i> Wahl. Lichen.....	4515
gemellipara Knight <i>Verruc</i> .....	3474	<i>glaucodea</i> Nyl. <i>Lecan</i> .....	4392
geminata Flot. <i>Lecid</i> .....	2524	<i>glaucoderma</i> Nyl. <i>Graph</i> .....	2783
geminella Nyl. <i>Verruc</i> .....	3338	<i>glauco-fuscula</i> Nyl. <i>Lecan</i> .....	4198
gemmascens Nyl. <i>Pannar</i> .....	4054	<i>glaucoleucum</i> Nyl. <i>Chiodect</i> .....	3159
gemmata Ach. <i>Verruc</i> .....	3437	<i>glauco-livescens</i> Nyl. <i>Lecan</i> .....	4309
gemmatella Nyl. <i>Verruc</i> .....	3485	<i>glauco-lurida</i> Nyl. <i>Parmosticta</i> .....	847
<i>gemmeum</i> Tuck. <i>Pyrenastr</i> .....	3367	<i>glaucoma</i> Ach. <i>Lecan</i> .....	4386
gemmifer Nyl. <i>Endococ</i> .....	3606	<i>glaucomaria</i> Nyl. Arthon.....	3104
<i>gemmifera</i> Tayl. <i>Verruc</i> .....	3606	<i>glaucomaria</i> Nyl. <i>Lecid</i> .....	2538
<i>gemmiferus</i> Nyl. <i>Endococ</i> .....	3606	<i>glaucomela</i> Nyl. <i>Pertus</i> .....	4663
geniculata Hook. et Tayl. <i>Ramal</i> ..	464 et 464 <sup>b</sup>	<i>glaucmodes</i> Nyl. <i>Lecan</i> .....	4384
geoleuca Nyl. <i>Lecid</i> .....	2229	<i>glaucmoides</i> Nyl. <i>Platygr</i> .....	2915
<i>georgiana</i> Tuck. <i>Cladon</i> .....	377	<i>glaucmopsis</i> Nyl. <i>Pertus</i> .....	4571
geographica Schær. <i>Lecid</i> .....	2531	<i>glauco-nigrans</i> Nyl. <i>Lecid</i> .....	2272
<i>geographicus</i> L. Lichen.....	2531	<i>glauco-pallens</i> Nyl. <i>Thelotr</i> .....	4711
gibba Nyl. <i>Sarcopyr</i> .....	3566	<i>glaucophæodes</i> Nyl. <i>Lecid</i> .....	2110
gibberella Nyl. <i>Lecan</i> .....	4528	<i>glaucophthalmum</i> Nyl. <i>Collem</i> .....	63
gibberosula Nyl. <i>Pertus</i> .....	4659	<i>glaucotheca</i> Fée <i>Lecid</i> .....	2454
gibbosa Nyl. <i>Lecan</i> .....	4471	<i>glauco-virescens</i> Nyl. <i>Physe</i> .....	982
gilva Nyl. <i>Stictina</i> .....	779	<i>glauco-virescens</i> Nyl. <i>Stigmat</i> .....	2948
gilvella Nyl. <i>Lecan</i> .....	4207	<i>glauculum</i> Nyl. <i>Thelotr</i> .....	4682
gilvo-rufella Nyl. <i>Lecid</i> .....	2192	<i>glaucum</i> Nyl. <i>Platysm</i> .....	553 et 553 <sup>b</sup>
<i>gilvus</i> Thunb. Lichen.....	779	<i>glaucus</i> L. Lichen.....	553
Girardii Dur. et Mont. <i>Omphal</i> .....	22	<i>glebulosa</i> Nyl. <i>Verruc</i> .....	3250
glabella Nyl. <i>Lecid</i> .....	1886 et 1886 <sup>b</sup>	<i>globifera</i> Ach. <i>Lecid</i> .....	4872
<i>glaberrima</i> Krempelh. <i>Parm</i> .....	604	<i>globifera</i> Eschw. <i>Verruc</i> .....	3510
<i>glaberrima</i> Nyl. <i>Sticta</i> .....	833	<i>globosa</i> Fée Opegr.....	2556
<i>glaberrima</i> de Notar. <i>Ricasol</i> .....	869	<i>globosa</i> Tayl. <i>Verruc</i> .....	3325
glabra Nyl. <i>Lecan</i> .....	4350	<i>globulans</i> Nyl. <i>Platysm</i> .....	540
<i>glabra</i> Ach. Gyroph.....	1049	<i>globulare</i> Tuck. <i>Thelotr</i> .....	4684
<i>glabra</i> Hook. et Tayl. <i>Sticta</i> .....	859	<i>globularis</i> Nyl. <i>Pertus</i> .....	4666
<i>glabrata</i> Ach. <i>Lecan</i> .....	4350	<i>globulifera</i> Nyl. <i>Pertus</i> .....	4571
<i>glabrata</i> Ach. <i>Verruc</i> .....	3397	<i>globulifera</i> Nyl. <i>Verruc</i> .....	3510
<i>glabrescens</i> Nyl. <i>Cladon</i> .....	343	<i>globulifica</i> Nyl. <i>Graph</i> .....	2761
<i>glabrescens</i> Nyl. <i>Lecid</i> .....	2384	<i>globulificans</i> Nyl. <i>Lecan</i> .....	4213
<i>glabrior</i> Nyl. <i>Physe</i> .....	990	<i>globulispora</i> Nyl. <i>Lecid</i> .....	2283 et 2280 <sup>b</sup>
<i>glabriuscula</i> Nyl. <i>Lecid</i> .....	3662	<i>globulosa</i> Floerke <i>Lecid</i> .....	4997
<i>glabriuscula</i> Nyl. <i>Verruc</i> .....	3402	<i>globulosella</i> Nyl. <i>Lecid</i> .....	2183
<i>glandulifera</i> Fée <i>Parm</i> .....	680	<i>glomerata</i> Schær. <i>Pertus</i> .....	4618
<i>glauca</i> Floerke <i>Cladon</i> .....	328	<i>glomerulosa</i> Nyl. <i>Lecid</i> .....	2245
<i>glaucescens</i> Nyl. Arthon.....	3014	<i>glomulifera</i> de Notar. <i>Ricasol</i> .....	872
<i>glaucescens</i> Nyl. <i>Bæom</i> .....	199	<i>glomuliferus</i> Lightf. Lichen.....	872
<i>glaucescens</i> Fée <i>Graph</i> .....	2675	<i>glomuligera</i> Nyl. <i>Sticta</i> .....	818
<i>glaucescens</i> Nyl. <i>Lecid</i> .....	2044 et 2126	<b>Glossodium</b> Nyl.....	205
<i>glaucescens</i> Nyl. <i>Physe</i> .....	984	glyphicum Nyl. <i>Thelotr</i> .....	1765
<i>glaucescens</i> Nyl. <i>Thelotr</i> .....	4773	glyphidioidea Nyl. <i>Graph</i> .....	2631 <sup>b</sup>
<i>glaucescens</i> Nyl. <i>Verruc</i> .....	3440 et 3449	<b>Glyphis</b> Ach.....	3141-3152 et 3683
<i>glaucina</i> Coem. <i>Cladon</i> .....	283 <sup>b</sup>	<i>glyphisoides</i> Fée Arthon.....	3176



hapaliza Nyl. <i>Arthon</i> .....	3089	hololepis Flærke <i>Cladon</i> .....	280
haplocarpa Nyl. <i>Gyroph</i> .....	1025	hololeuca Mont. <i>Graph</i> .....	2710
haplotea Ach. <i>Cladon</i> .....	301	hololeucoides Nyl. <i>Graph</i> .....	2711
Hartungiana Nyl. <i>Lecid</i> .....	2243 <sup>b</sup>	holophæa Nyl. <i>Lecan</i> .....	1268
hebescens Nyl. <i>Cladon</i> .....	324	holopolia Nyl. <i>Verruc</i> .....	3450
hebescens Nyl. <i>Lecid</i> .....	2321 et 2321 <sup>b</sup>	holospoda Nyl. <i>Pannar</i> .....	1065
Heeri Hepp <i>Lecid</i> .....	2035	holoxantha Nyl. <i>Physc</i> .....	939
<b>Helminthocarpon</b> Fée.....	2809	homalantha Nyl. <i>Coccocarp</i> .....	1089
<i>helvetica</i> Ach. <i>Nephroma</i> .....	889	homalea Ach. <i>Ramal</i> .....	391
helveticum Nyl. <i>Nephromium</i> ...	889 et 889 <sup>b</sup>	<i>homalea</i> Mont. <i>Ramal</i> .....	389
hemitropa Nyl. <i>Lecid</i> .....	2030	homalodes Nyl. <i>Lecid</i> .....	2346
hepaticum Ach. <i>Endocarp</i> .....	3203	homalodes Nyl. <i>Nephroma</i> .....	914
<b>Heppia</b> Næg.....	1107-1119	homaloplaca Nyl. <i>Lecan</i> .....	1385
herbacea de Notar. <i>Ricasol</i> .....	875	homalotera Nyl. <i>Lecid</i> .....	2345
<i>herbaceus</i> Huds. <i>Lichen</i> .....	875	homobola Nyl. <i>Lecan</i> .....	1307
herbarum Hepp <i>Lecid</i> .....	2170	<b>Homodium</b> Nyl.....	131-132
herpetica Ach. <i>Opcgr</i> .....	2872	homœochroa Nyl. <i>Lecid</i> .....	2268
<i>Hesseana</i> Mey. <i>Sticta</i> .....	769	homœoides Nyl. <i>Platygr</i> .....	2899
<b>Heterina</b> Nyl.....	1121	homœophana Nyl. <i>Arthon</i> .....	3042
heterobola Cromb. <i>Lecid</i> .....	2182	homœophylla Nyl. <i>Sticta</i> .....	856
heterocarpa Fée <i>Graph</i> .....	2640 et 2640 <sup>b</sup>	homogena Nyl. <i>Graph</i> .....	2692
heterocarpoides Nyl. <i>Graph</i> .....	2642	homogenes Nyl. <i>Parm</i> .....	593
heterochroa Mont. <i>Verruc</i> .....	3427	homographa Nyl. <i>Graph</i> .....	2709
heteroclita Mont. <i>Glyph</i> .....	3142 et 3142 <sup>b</sup>	homographiza Nyl. <i>Graph</i> .....	2723
heteroclita Nyl. <i>Verruc</i> .....	3370	homologa Nyl. <i>Lecan</i> .....	1248
<b>Heterodea</b> Nyl.....	385-386	homopastum Nyl. <i>Thelotr</i> .....	1692
heteromorphus Nyl. <i>Bæom</i> .....	493	homothelium Nyl. <i>Astroth</i> .....	3588
heterophorum Nyl. <i>Astroth</i> .....	3591	homotoma Nyl. <i>Parm</i> .....	665
heteropsis Nyl. <i>Verruc</i> .....	3302	Hookeri Tuck. <i>Cladon</i> .....	343
heterospora Nyl. <i>Graph</i> .....	2741	Hookeri Nyl. <i>Stictina</i> .....	773
heterospora Nyl. <i>Lecid</i> .....	2118	Hookeri Berk. et Mont. <i>Thysanoth</i> .....	206
heterospora Nyl. <i>Verruc</i> .....	3337	horista Nyl. <i>Lecid</i> .....	2177
heterotropoides Nyl. <i>Chiodect</i> .....	3171	horiza Ach. <i>Lecan</i> .....	1355
heterotropum Nyl. <i>Chiodect</i> .....	3170	<i>horiza</i> Flot. <i>Lecan</i> .....	1286
hiascens Nyl. <i>Graph</i> .....	2599	horizontalis Hoffm. <i>Peltig</i> .....	908
hibernica Nyl. <i>Arthon</i> .....	3105	hostheleoides Nyl. <i>Lecid</i> .....	2161
hilaescens Nyl. <i>Lecid</i> .....	1952	hottentotta Ach. <i>Parm</i> .....	735
Hildenbrandii Nyl. <i>Leptog</i> .....	114	<i>hottentottus</i> Thunb. <i>Lichen</i> .....	735
himalayana Nyl. <i>Usnea</i> .....	499	Humboldtii Nyl. <i>Stictina</i> .....	786
himalayensis Nyl. <i>Parm</i> .....	583	Huegelii Nyl. <i>Arthon</i> .....	3039
himalayensis Nyl. <i>Phlyctel</i> .....	1819	humilis Ach. <i>Ramal</i> .....	448
hiroshimita Nyl. <i>Lecid</i> .....	2338	humistrata Nyl. <i>Lecid</i> .....	2546
hirsuta Ach. <i>Gyroph</i> .....	1036	humosum Nyl. <i>Leptog</i> .....	90
hirsuta Nyl. <i>Stictina</i> .....	782	hyaliniza Nyl. <i>Lecid</i> .....	2053
hirsutulum Nyl. <i>Psorom</i> .....	1126	hyalinum Nyl. <i>Thysanoth</i> .....	207
hirta Nyl. <i>Stictina</i> .....	788	<i>hyalinus</i> Tayl. <i>Bæom</i> .....	207
hirta Fr. <i>Usnea</i> .....	495	hyalospora Nyl. <i>Verruc</i> .....	3406
<i>hirtus</i> L. <i>Lichen</i> .....	495	hybrida Ach. <i>Cladon</i> .....	293
<i>hispida</i> Fr. <i>Physc</i> .....	967	<b>Hydrothyria</b> Russ.....	137
<i>hispidula</i> Ach. <i>Parm</i> .....	998 et 653	hymenogonia Nyl. <i>Verruc</i> .....	3235
hispidulum Nyl. <i>Psorom</i> .....	1129	hymnothora Ach. <i>Verruc</i> .....	3497
hiulca Nyl. <i>Lecan</i> .....	1318	hyperbolizans Nyl. <i>Graph</i> .....	2601
holochracea Nyl. <i>Lecan</i> .....	1177	hyperborea Ach. <i>Gyroph</i> .....	1047
hologlauca Nyl. <i>Graph</i> .....	2718	hyperborea Nyl. <i>Lecan</i> .....	1488





indutum Nyl. <i>Parath.</i> .....	3535	interfixa Nyl. <i>Parmul.</i> .....	4076
inermis Nyl. <i>Cetr.</i> .....	518	interfulgens Nyl. <i>Lecan.</i> .....	4179
inexplicata Nyl. <i>Lecan.</i> .....	4249	interfuscata Nyl. <i>Phlyctel.</i> .....	1820
inferiuscula Nyl. <i>Arthon.</i> .....	2974	interhianscens Nyl. <i>Cladina.</i> .....	368
infernula Nyl. <i>Lecid.</i> .....	2504	interjuneta Nyl. <i>Lecid.</i> .....	4910
infida Nyl. <i>Verruc.</i> .....	3396	interlatens Nyl. <i>Astroth.</i> .....	3592
inflata Hook. et Tayl. <i>Ramal.</i> .....	463	<i>intermedia</i> Del. <i>Cenom.</i> .....	334
inflexum Nyl. <i>Leptog.</i> .....	426	intermedia Bab. <i>Lichina.</i> .....	12
informis Cromb. <i>Endocena.</i> .....	225	intermedia Del. <i>Ramal.</i> .....	468
infossa Nyl. <i>Verruc.</i> .....	3433	intermedia Nyl. <i>Ricasol.</i> .....	873
infuscata Nyl. <i>Lecan.</i> .....	4290	intermedia Th. Fr. <i>Verruc.</i> .....	3226
infuscata Th. Fr. <i>Lecid.</i> .....	2310	intermediella Nyl. <i>Lecid.</i> .....	4889
infuscatulum Nyl. <i>Trypeth.</i> .....	3548	intermedium Nyl. <i>Ascid.</i> .....	1799
innata Nyl. <i>Verruc.</i> .....	3326	intermiscens Nyl. <i>Lecid.</i> .....	2016
inopinula Nyl. <i>Lecid.</i> .....	4989	intermissum Nyl. <i>Chiodect.</i> .....	3182
inops Th. Fr. <i>Lecid.</i> .....	2337	intermixta Nyl. <i>Lecid.</i> .....	2043
inordinata Nyl. <i>Thelops.</i> .....	3557	internectens Nyl. <i>Lecid.</i> .....	1969
inscalpens Nyl. <i>Thelotr.</i> .....	4748	internectens Nyl. <i>Sticta.</i> .....	828
inscriptum Nyl. <i>Stigmat.</i> .....	2950	internexa Nyl. <i>Parm.</i> .....	648
<i>insculpta</i> Mont. <i>Fissur.</i> .....	2763	internigrans Nyl. <i>Verruc.</i> .....	3343
insculpta Nyl. <i>Graph.</i> .....	2762	internigricans Nyl. <i>Graph.</i> .....	2704
<i>insculptum</i> Eschw. <i>Diorygm.</i> .....	2762	interplexum Nyl. <i>Cænog.</i> .....	1845
inserpens Nyl. <i>Graph.</i> .....	2621	interponendum Nyl. <i>Ascid.</i> .....	3639
insidians Nyl. <i>Lecid.</i> ..... 2443 et 2443 <sup>b</sup>		interponens Nyl. <i>Lecid.</i> ..... 2458 et 3676	
<i>insidiosa</i> Nyl. <i>Graph.</i> .....	2651	interponens Nyl. <i>Ramal.</i> .....	437
insignior Nyl. <i>Lecid.</i> .....	2405	interponens Nyl. <i>Verruc.</i> .....	3362
insignis Nyl. <i>Cladon.</i> ..... 339 et 340		interposita Nyl. <i>Lecid.</i> .....	3676
insignis Nyl. <i>Lecid.</i> .....	2454	interpositum Nyl. <i>Ascid.</i> .....	1803
insignita Nyl. <i>Cladon.</i> .....	340	interpositum Nyl. <i>Cænog.</i> .....	1843
insimilans Nyl. <i>Lecid.</i> .....	3667	<i>interrupta</i> Fée <i>Graph.</i> .....	2936
insinuans Nyl. <i>Parm.</i> .....	646	interrupta Ehrenb. <i>Lecan.</i> .....	4548
insinuans Nyl. <i>Sticta.</i> .....	3651	<i>interrupta</i> Nyl. <i>Platygr.</i> .....	2936
insinuata Nyl. <i>Parm.</i> .....	669	interruptum Nyl. <i>Stigmat.</i> .....	2936
insolitum Nyl. <i>Platysm.</i> .....	547 <sup>b</sup>	intersita Nyl. <i>Lecid.</i> .....	2265
insperabilis Nyl. <i>Lecid.</i> .....	4981	interspersa Nyl. <i>Verruc.</i> .....	3456
insperata Nyl. <i>Lecid.</i> .....	2422	interstes Nyl. <i>Verruc.</i> .....	3321
instabilis Nyl. <i>Graph.</i> ..... 2764 et 2764 <sup>b</sup>		interstineta Nyl. <i>Lecid.</i> .....	2463
insueta Nyl. <i>Verruc.</i> .....	3335	intertexta Mont. <i>Parm.</i> .....	686
insulata Fée <i>Verruc.</i> .....	3460	intervagans Nyl. <i>Collemops.</i> .....	3627
insulatula Nyl. <i>Lecid.</i> .....	2300	intervallatum Nyl. <i>Thelotr.</i> .....	1716
integra Nyl. <i>Verruc.</i> .....	3282	interveniens Nyl. <i>Arthon.</i> .....	3033
integrata Nyl. <i>Physc.</i> .....	963	interversa Nyl. <i>Graph.</i> .....	2768
integrascens Nyl. <i>Verruc.</i> .....	3225	interversa Nyl. <i>Lecid.</i> .....	1946
intensa Nyl. <i>Everm.</i> .....	575	interversa Nyl. <i>Verruc.</i> .....	3227
interalbata Nyl. <i>Opegr.</i> .....	2860	interversans Nyl. <i>Ricasol.</i> .....	886
interalbescens Nyl. <i>Opegr.</i> ..... 2886 et 2886 <sup>b</sup>		intervertens Nyl. <i>Lecid.</i> .....	1947
interalbicans Nyl. <i>Opegr.</i> .....	2885	intestiniformis Ach. <i>Usnea.</i> .....	501
<i>intercalans</i> Nyl. <i>Astroth.</i> .....	3592	intexta Nyl. <i>Graph.</i> .....	2677
intercedens Nyl. <i>Verruc.</i> .....	3225	intricans Nyl. <i>Graph.</i> .....	2792
intercludens Nyl. <i>Graph.</i> .....	2771	intricata Eschw. <i>Graph.</i> .....	2627
interducens Nyl. <i>Graph.</i> .....	2596	<i>intricata</i> Fée <i>Graph.</i> .....	2572
interducta Nyl. <i>Arthon.</i> .....	2988	intricata Nyl. <i>Lecan.</i> .....	1429
interducta Nyl. <i>Verruc.</i> .....	3387	intricata Schær. <i>Physc.</i> .....	933
interductula Nyl. <i>Opegr.</i> .....	2848	intricata Mont. <i>Roccel.</i> .....	479





<i>laeviganda</i> Nyl. <i>Pertus</i> .....	4614	<i>lavata</i> Ach. <i>Lecid</i> .....	2516
<i>laevigans</i> Nyl. <i>Thelotr</i> .....	4709	<i>leana</i> Tuck. <i>Physc</i> .....	959
<i>laevigata</i> Nyl. <i>Lecan</i> .....	4283	<b>Lecanactis</b> Nyl.....	2802-2807
<i>laevigata</i> Ach. <i>Parm</i> .....	633 et 633 <sup>b</sup>	<i>lecanocarpoides</i> Nyl. <i>Gyroph</i> .....	4024
<i>laevigata</i> Sommerf. <i>Peltid</i> .....	890	<b>Lecanocaulon</b> Nyl.....	228-230
<i>laevigata</i> Nyl. <i>Pertus</i> .....	4639	<i>lecanodeum</i> Nyl. <i>Thelotr</i> .....	4753
<i>laevigatula</i> Nyl. <i>Parm</i> .....	671 et 671 <sup>b</sup>	<i>lecanographa</i> Nyl. <i>Graph</i> .....	2647
<i>laevigatum</i> Ach. <i>Nephromium</i> .....	890 et 890 <sup>b</sup>	<b>Lecanora</b> Ach.....	4144-4534 et 3656-8
<i>laevigatus</i> Sm. <i>Lichen</i> .....	653 <sup>b</sup>	<i>lecanorella</i> Nyl. <i>Lecid</i> .....	2413
<i>laevior</i> Nyl. <i>Lecan</i> .....	4332	<i>lecanoreum</i> Nyl. <i>Stereocaul</i> .....	228
<i>laevior</i> Nyl. <i>Parm</i> .....	3646	<i>lecanorina</i> Nyl. <i>Pertus</i> .....	4633
<i>laevior</i> Nyl. <i>Pertus</i> .....	4639	<i>lecanoroidea</i> Nyl. <i>Lecid</i> .....	2381
<i>laevis</i> Knight <i>Pertus</i> .....	4607	<i>lecanoroides</i> Nyl. <i>Platygr</i> .....	2923
<i>laevis</i> Nyl. <i>Stictina</i> .....	790	<i>Lechleri</i> Flot. <i>Sticta</i> .....	839
<i>laevis</i> Nyl. <i>Usnea</i> .....	510	<i>Lechlerii</i> Nyl. <i>Lecid</i> .....	2200
<i>laevius</i> Nyl. <i>Leptog</i> .....	118	<b>Lecidea</b> Ach.....	4854-2546 et 3661-3676
<i>laeviuscula</i> Nyl. <i>Lecan</i> .....	4281	<i>lecideella</i> Nyl. <i>Arthon</i> .....	3100
<i>laeviuscula</i> Nyl. <i>Sticta</i> .....	821	<i>leiodea</i> Nyl. <i>Ramal</i> .....	438
<i>laeviuscula</i> Del. <i>Sticta</i> .....	880	<b>Leioderma</b> Nyl.....	4100
<i>laeviusculum</i> Nyl. <i>Thelotr</i> .....	4780	<i>leiogramma</i> Nyl. <i>Graph</i> .....	2623
<b>Lallavei</b> Nyl. <i>Lecan</i> .....	4162	<b>Leiophlœa</b> Ach.....	3468-3495
<b>Lamarkii</b> Nyl. <i>Cladon</i> .....	323	<i>leioplaca</i> Schaer. <i>Pertus</i> .....	4603
<i>lamelligera</i> Tayl. <i>Physc</i> .....	952	<i>leioplacella</i> Nyl. <i>Pertus</i> .....	4612
<i>lamprocheila</i> Nyl. <i>Lecan</i> .....	4226	<i>leioplacoides</i> Nyl. <i>Thelotr</i> .....	4755
<i>lamprospera</i> Nyl. <i>Lecid</i> .....	4834	<i>leiosictum</i> Nyl. <i>Stigmat</i> .....	2943
<i>lanata</i> Nyl. <i>Parm</i> .....	730 et 730 <sup>b</sup>	<i>Lenormandi</i> v. d. Bosch <i>Sticta</i> .....	790
<i>lanatus</i> L. <i>Lichen</i> .....	730	<b>Lenormandii</b> Nyl. <i>Stictina</i> .....	790
<i>lanceolata</i> Nyl. <i>Ramal</i> .....	444	<i>lenticulare</i> Ach. <i>Calic</i> .....	453
<i>lanestris</i> Ach. <i>Alect</i> .....	563	<i>lenticularis</i> Ach. <i>Lecid</i> .....	2388
<i>lanuginosum</i> Nyl. <i>Leprolom</i> .....	3612 et 4559	<i>lentigera</i> Ach. <i>Lecan</i> .....	4329
<i>lanuginosus</i> Ach. <i>Lichen</i> .....	3612	<i>lentigerus</i> Web. <i>Lichen</i> .....	4329
<i>lapicida</i> Fr. <i>Lecid</i> .....	2332	<i>lentiginosa</i> Leight. <i>Opegr</i> .....	2883
<i>laqueata</i> Muell. <i>Pertus</i> .....	4606 <sup>b</sup>	<i>leonora</i> Spr. <i>Parm</i> .....	713
<i>lata</i> Tayl. <i>Cornicul</i> .....	567	<i>lepadinoides</i> Nyl. <i>Thelotr</i> .....	4741
<i>latebrarum</i> Ach. <i>Lepr</i> .....	3614	<i>lepadinum</i> Ach. <i>Thelotr</i> .....	4740
<i>latebrosa</i> Koerb. <i>Verruc</i> .....	3274	<i>lepadodes</i> Tuck. <i>Thelotr</i> .....	4742
<i>lateritia</i> Nyl. <i>Lecan</i> .....	4316	<i>lepida</i> Nyl. <i>Lecid</i> .....	2489
<i>lateritium</i> Eschw. <i>Leiogram</i> .....	2649	<i>lepidella</i> Nyl. <i>Opegr</i> .....	2891
<i>latifolia</i> Nyl. <i>Physc</i> .....	945	<i>lepideum</i> Nyl. <i>Collem</i> .....	39
<i>latifolia</i> Flot. <i>Sticta</i> .....	860	<i>lepidoplaca</i> Nyl. <i>Lecan</i> .....	4156
<i>latifrons</i> Rich. <i>Sticta</i> .....	838	<i>lepidota</i> Nyl. <i>Cladon</i> .....	302
<i>latilabrum</i> Tuck. <i>Thelotr</i> .....	4733	<i>lepidota</i> Tuck. <i>Cladon</i> .....	310
<i>latior</i> Nyl. <i>Ramal</i> .....	442	<i>leporina</i> Fr. <i>Cladon</i> .....	364
<i>latissima</i> Fée <i>Parm</i> .....	604	<b>Lepraria</b> Ach.....	3607-3645
<i>latissima</i> Krempelh. <i>Parm</i> .....	614	<i>leprariella</i> Nyl. <i>Arthon</i> .....	3032
<i>latissima</i> Nyl. <i>Parm</i> .....	616	<i>Le Prevostii</i> Fée <i>Helmin</i> .....	2809
<i>latissima</i> Nyl. <i>Stictina</i> .....	806	<i>Leprieurii</i> Nyl. <i>Cænog</i> .....	4836
<i>latypea</i> Ach. <i>Lecid</i> .....	2244	<i>Leprieurii</i> Mont. <i>Glyphis</i> .....	3442
<i>latypea</i> Nyl. <i>Lecid</i> .....	2248	<i>Leprieurii</i> Nyl. <i>Graph</i> .....	2793
<i>latypiza</i> Nyl. <i>Lecid</i> .....	2248	<i>Leprieurii</i> Mont. <i>Lecid</i> .....	2406
<i>Laubertiana</i> Fée <i>Graph</i> .....	2565	<i>Leprieurii</i> Mont. <i>Ozoclad</i> .....	4808
<i>Laurentiana</i> Nyl. <i>Lecid</i> .....	2323	<i>Leprieurii</i> Mont. <i>Sporopod</i> .....	2122
<i>Lauri-Cassix</i> Fée <i>Lecid</i> .....	2457	<i>Leprieurii</i> Mont. <i>Trypeth</i> .....	3517
<i>Lauro-Cerasi</i> Nyl. <i>Lecid</i> .....	2440 et 2441	<i>Leprieurioides</i> Nyl. <i>Lecid</i> .....	2407

leprobolum Nyl. <i>Chiodect</i> .....	3185	leucocarpum Tayl. <i>Collem</i> .....	66
leprocarpa Nyl. <i>Graph</i> .....	2734	leucocarpum Nyl. <i>Thelotr</i> .....	1784
<b>Leprocaulon</b> Nyl.....	3609-3611	leucocelis Nyl. <i>Lecid</i> .....	2492
<b>Leptoloma</b> Nyl.....	3612	leucocheila Nyl. <i>Graph</i> .....	2656
<i>leptoloma</i> Nyl. <i>Psorom</i> .....	4133	leucocheila Tuck. <i>Lecid</i> .....	2059
leptolomum Nyl. <i>Psorom</i> .....	4133	leucocheiloides Nyl. <i>Lecid</i> .....	2060
leptolyta Nyl. <i>Lecan</i> .....	1251	leucochlora Nyl. <i>Lecid</i> .....	1954
leprosa Nyl. <i>Lecid</i> .....	4922	leucochlora Tuck. <i>Parm</i> .....	588
<i>leprosa</i> Fée <i>Lecan</i> .....	4382	leucochlorum Tuck. <i>Calic</i> .....	150
<i>leprosa</i> Nyl. <i>Lecan</i> .....	4456	leucoconicum Nyl. <i>Astroth</i> .....	3577
leptalea DC. <i>Physc</i> .....	967	leucodes Nyl. <i>Pertus</i> .....	4638
leptalea Nyl. <i>Verruc</i> .....	3298	<b>Leucographa</b> Nyl.....	2810
leptaleina Nyl. <i>Verruc</i> .....	3300	leucographella Nyl. <i>Arthon</i> .....	2983
leptaleoides Nyl. <i>Verruc</i> .....	3299	leucolyta Nyl. <i>Graph</i> .....	3679
leptaleum Tuck. <i>Collem</i> .....	70	leucolytum Nyl. <i>Stigmat</i> .....	2954
leptaleum Nyl. <i>Stereocaul</i> .....	264	leucoma Nyl. <i>Lecan</i> .....	4395
leptobola Nyl. <i>Lecid</i> .....	2314	leucomela Mich. <i>Physc</i> .....	943
<i>leptobola</i> Flot. <i>Ramal</i> .....	446	leucomelanum Nyl. <i>Thelotr</i> .....	1743
leptoboliza Nyl. <i>Lecid</i> .....	2391	<i>leucomelas</i> L. Lichen.....	943
leptocarpa Nyl. <i>Lecid</i> .....	2338	leucomma Nyl. <i>Verruc</i> .....	3408
leptocheila Tuck. <i>Lecid</i> .....	2028	leuconephela Nyl. <i>Graph</i> .....	2770
leptocheilodes Nyl. <i>Lecid</i> .....	2031	leucophæa Floerke <i>Lecid</i> .....	2266
leptoclinella Nyl. <i>Lecid</i> .....	3673	leucophæa Tuck. <i>Rorcel</i> .....	480
leptoclinis Flot. <i>Lecid</i> .....	2474	leucophila Nyl. <i>Opegr</i> .....	2856
leptoconia Nyl. <i>Trachyl</i> .....	469	leucophlebia Nyl. <i>Peltid</i> .....	919
leptoderma Nyl. <i>Peltig</i> .....	905	leucophora Nyl. <i>Lecanact</i> .....	2806
<b>Leptogidium</b> Nyl.....	134-135 et 3628	leucophthalmum Nyl. <i>Thelotr</i> .....	1749
<b>Leptogiopsis</b> Nyl.....	436	leucophyllina Nyl. <i>Lecid</i> .....	2499
<b>Leptogium</b> Fr.....	90-130 et 3629-39	leucopoda Nyl. <i>Sphinctr</i> .....	142
leptogramma Nyl. <i>Graph</i> .....	2625	leucopodoides Nyl. <i>Sphinctr</i> .....	141
leptographa Nyl. <i>Opegr</i> .....	2845	leucopsara Nyl. <i>Platygr</i> .....	2914
leptographa Nyl. <i>Platygr</i> .....	2927	leucopsepha Nyl. <i>Lecid</i> .....	2529
leptophora Nyl. <i>Pertus</i> .....	1644	<i>leucorodia</i> Wright <i>Graph</i> .....	3680
leptopisma Nyl. <i>Lecan</i> .....	4160	leucosoroides Nyl. <i>Pertus</i> .....	1574
leptopismodes Nyl. <i>Lecan</i> .....	4339	leucospilodea Nyl. <i>Usnea</i> .....	508
leptopoda Nyl. <i>Cladon</i> .....	356	leucosticta Nyl. <i>Pannar</i> .....	4064 et 1065
leptoporum Nyl. <i>Thelotr</i> .....	4681	leucosticta Nyl. <i>Phlyctel</i> .....	1814
leptosperma Nyl. <i>Ramal</i> .....	424	leucosticta Nyl. <i>Stictina</i> .....	778
leptostictum Nyl. <i>Stigmat</i> .....	2959	<i>leucostictica</i> Hampe <i>Sticta</i> .....	794
leptotea Nyl. <i>Lecid</i> .....	2398	<i>leucostigma</i> Lév. <i>Cetr</i> .....	538
leptotera Nyl. <i>Opeg</i> .....	2873	leucostigmeum Nyl. <i>Platysm</i> .....	538
leptozona Nyl. <i>Lecan</i> .....	4232	<i>leucostoma</i> Ach. <i>Pyrenula</i> .....	3366
leptyna Nyl. <i>Graph</i> .....	2578	leucostomum Nyl. <i>Trypeth</i> .....	3537
Lesquereuxi Born. <i>Ephed</i> .....	8	leucothalamia Nyl. <i>Lecid</i> .....	2146
leucampyx Tuck. <i>Trachyl</i> .....	470	leucothelium Nyl. <i>Astroth</i> .....	3580
leucerythrella Nyl. <i>Lecan</i> .....	4183	leucothrix Nyl. <i>Physc</i> .....	4004
leucobates Nyl. <i>Parm</i> .....	757	leucotrema Nyl. <i>Thelotr</i> .....	4721
leucobatoides Nyl. <i>Parm</i> .....	758	leucotripta Nyl. <i>Lecid</i> .....	2157
leucoblephara Nyl. <i>Lecid</i> .....	2058	leucotropa Nyl. <i>Lecan</i> .....	1396
leucoblepharis Nyl. <i>Stictina</i> .....	791	leucotylum Nyl. <i>Thelotr</i> .....	1732
leucocarpa Nyl. <i>Graph</i> .....	2687	leucotyliza Nyl. <i>Parm</i> .....	3645
leucocarpa Knight <i>Lecid</i> .....	2191	leucotrypum Nyl. <i>Trypeth</i> .....	3528
leucocarpodes Nyl. <i>Graph</i> .....	2688	leucoxantha Spr. <i>Lecid</i> .....	2425
leucocarpoides Nyl. <i>Thelotr</i> .....	4777	levicula Nyl. <i>Lecid</i> .....	4899

- libricola* Nyl. *Verruc*..... 3366  
*lichenophila* Dur. *Synalis*..... 46  
**Lichina** Ag..... 42-43  
*lichinoidea* Nyl. *Parm*..... 732  
*ligulata* Ach. *Ramal*..... 447  
*ligulata* Koerb. *Physc*..... 936  
*lilacina* Mont. *Arthon*..... 3010  
*limbata* Laur. *Parm*..... 683  
*limbata* Nyl. *Solorina*..... 909  
*limbata* Sommerf. *Solorina*..... 923  
*limbata* Nyl. *Stictina*..... 800  
*limbatum* Nyl. *Eriod*..... 1105  
*limbatus* Sm. *Lichen*..... 800  
*limitans* Nyl. *Verruc*..... 3439 et 3282  
*limitata* Nyl. *Arthon*..... 3009  
*limitata* Nyl. *Dirina*..... 4356  
*limosa* Ach. *Lecid*..... 2309  
*limosum* Ach. *Collem*..... 54  
*linearifolia* Nyl. *Sticta*..... 833  
*lineariloba* Nyl. *Sticta*..... 815  
*lineariloba* Mont. *Sticta*..... 806  
*linearis* Sw. *Lichen*..... 405  
*linearis* Ach. *Ramal*..... 422  
*linearis* Nyl. *Ramal*..... 423 et 422  
*linearis* Mont. *Sticta*..... 816  
*linearis* Nyl. *Sticta*..... 851  
*lineola* Ach. *Graph*..... 2563  
*lineolare* Nyl. *Chiodect*..... 3477  
*lineolata* Nyl. *Platygr*..... 2930  
*linita* Nyl. *Lobaria*..... 813  
*Linkii* Ehrenb. *Cænog*..... 1838 et 1836  
*liparia* Nyl. *Lecan*..... 4327  
*lirellæforme* Tuck. *Thelotr*..... 4767  
*livellans* Almq. *Arthon*..... 3038  
*lithagoga* Nyl. *Lecan*..... 4551  
**Lithographa** Nyl..... 2547-2349  
*lithophila* Ach. *Lecid*..... 2340  
*lithothea* Ach. *Physc*..... 994  
*lithyrga* Ach. *Opegr*..... 2841  
*livida* Nyl. *Lecid*..... 2344  
*livida* Tayl. *Parm*..... 642  
*livido-fusca* Nyl. *Lecid*..... 2085  
*livido-fuscescens* Nyl. *Lecid*..... 2086  
*livido-nigricans* Nyl. *Lecid*..... 2090  
*lividula* Nyl. *Lecid*..... 3666  
*Loandensis* Nyl. *Opegr*..... 2866  
**Lobaria** Nyl..... 812-813  
**Lobarina** Nyl..... 766-767  
*lobata* Eschw. *Lecanact*..... 2670  
*lobulata* Sommerf. *Lecan*..... 4151  
*lobulata* Nyl. *Lecan*..... 4340  
*lobulata* Nyl. *Melasp*..... 3139  
*lobulatum* Nyl. *Leptog*..... 93  
*lobulosa* Nyl. *Lecan*..... 4340  
*longifera* Nyl. *Platygr*..... 4816  
*longissima* Ach. *Usnea*..... 506 et 506<sup>b</sup>  
*longius* Nyl. *Ascid*..... 1797<sup>b</sup>  
*longiuscula* Nyl. *Lecid*..... 1888  
*longula* Nyl. *Opegr*..... 2859  
*lophæum* Nyl. *Leptog*..... 92  
*lophocarpa* Koerb. *Pertus*..... 4609  
*lophyra* Nyl. *Peltig*..... 906  
*lophyrea* Ach. *Parm*..... 752  
*Loxensis* Nyl. *Alert*..... 556  
*lucens* Nyl. *Lecan*..... 4445  
*lucida* Ach. *Lecid*..... 4930  
*lugescens* Nyl. *Verruc*..... 3352  
*lugubrior* Nyl. *Lecid*..... 2299  
*lugubris* Nyl. *Lecid*..... 2296  
*lugubris* Pers. *Parm*..... 742  
*lurida* Ach. *Arthon*..... 3003  
*lurida* Ach. *Lecid*..... 4869  
*lurida* Nyl. *Pannar*..... 4053  
*luridatula* Nyl. *Lecan*..... 4441  
*luridella* Nyl. *Lecan*..... 4532  
*luridella* Nyl. *Verruc*..... 3342  
*luridescens* Nyl. *Lecid*..... 1914  
*lurido-nigra* Nyl. *Lecid*..... 2242  
*luridula* Nyl. *Pannar*..... 4062  
*luridum* Mont. *Collem*..... 4053  
*lusca* Nyl. *Lecan*..... 1473  
*lutea* Schær. *Lecid*..... 1866 et 1866<sup>b</sup>  
*luteola* Ach. *Lecid*..... 2133  
*lutescens* Nyl. *Lecan*..... 1420 et 1420<sup>b</sup>  
*lutescens* Nyl. *Stictina*..... 796  
*lutescens* Krempelh. *Stictina*..... 771  
*luteus* Dicks. *Lichen*..... 1866  
*lutosa* Nyl. *Lecid*..... 2243  
*Lyallii* Nyl. *Nephromium*..... 895  
*lychnea* Nyl. *Physc*..... 937  
*Lyggoderma* Nyl..... 432 bis  
*lygomma* Nyl. *Lecid*..... 2354  
*lygotropa* Nyl. *Lecid*..... 2294  
*lynceodes* Nyl. *Graph*..... 2638

## M

- maciformis* Nyl. *Ramal*..... 452 et 451  
*macilenta* Hoffm. *Cladon*..... 348  
*Mackenziei* Jones *Pyrenops*..... 5  
*macrocarpa* Nyl. *Lecid*..... 2094  
*macrocarpa* Pers. *Parm*..... 609 et 664  
*macrocarpoides* Nyl. *Stereocaul*..... 239  
*macrocarpon* Nyl. *Astroth*..... 3578  
*macrocarpum* Nyl. *Leptog*..... 100 et 121  
*macrocarpum* Nyl. *Stereocaul*..... 239  
*macrocarpum* Rich. *Stereocaul*..... 234  
*macroceras* Nyl. *Cladon*..... 300



<i>macrophthalma</i> Nyl. <i>Lecan</i> .....	1323	<i>marmariza</i> Nyl. <i>Parm</i> .....	3648
<i>macrophylla</i> Schær. <i>Sticta</i> .....	817	<i>marmoratum</i> Schl. <i>Mycop</i> .....	3593
<i>macrophylla</i> Hook. <i>Sticta</i> .....	817 et 798	<i>martinicana</i> Nyl. <i>Parm</i> .....	615 et 615 <sup>b</sup>
<i>macrophylla</i> Hepp <i>Sticta</i> .....	868	<i>Martii</i> Nyl. <i>Opegr</i> .....	2844
<i>macrophylla</i> Nyl. <i>Stictina</i> .....	798	<i>mascarena</i> Nyl. <i>Cladon</i> .....	313
<i>macrophylliza</i> Nyl. <i>Cladon</i> .....	344	<i>mastoidea</i> Nyl. <i>Verruc</i> .....	3312
<i>macrotheca</i> Fée <i>Arthon</i> .....	3049	<i>mastoidella</i> Nyl. <i>Verruc</i> .....	3324
<i>madagascarea</i> Nyl. <i>Heterod</i> .....	386	<i>mastoidestera</i> Nyl. <i>Verruc</i> .....	3317
<i>maderensis</i> Nyl. <i>Sphæroph</i> .....	486	<i>mastoidiza</i> Nyl. <i>Verruc</i> .....	3316
<i>maderensis</i> Nyl. <i>Lecid</i> .....	2099	<i>mastophora</i> Nyl. <i>Verruc</i> .....	3378
<i>madreporiforme</i> Eschw. <i>Trypeth</i> .....	3546	<i>mastophoriza</i> Nyl. <i>Verruc</i> .....	3379
<i>magellanica</i> Mont. <i>Evern</i> .....	487	<i>mastophoroides</i> Nyl. <i>Verruc</i> .....	3380
<i>magellanicum</i> Th. Fr. <i>Stereocaul</i> .....	252	<i>maura</i> Wahl. <i>Verruc</i> .....	3270
<b>Magmopsis</b> Nyl.....	3625	<i>mauritanica</i> Tayl. <i>Lecid</i> .....	1929
<i>magnifica</i> Nyl. <i>Verruc</i> .....	3469	<i>mauroides</i> Schær. <i>Verruc</i> .....	3239
<i>Maingayensis</i> Cromb. <i>Lecid</i> .....	1900	<i>maurospila</i> Nyl. <i>Verruc</i> .....	3489
<i>major</i> Nyl. <i>Physc</i> .....	965	<i>medialis</i> Tuck. <i>Lecid</i> .....	2171
<i>major</i> Mont. <i>Strig</i> .....	3539	<i>mediella</i> Nyl. <i>Arthon</i> .....	3415
<i>majorinum</i> Nyl. <i>Ascid</i> .....	1797 et 1797 <sup>b</sup>	<i>mediocricula</i> Nyl. <i>Lecid</i> .....	1990
<i>majuscula</i> Nyl. <i>Verruc</i> .....	3488	<i>medioxima</i> Nyl. <i>Siph</i> .....	219
<i>majusculum</i> Nyl. <i>Thelocarp</i> .....	3189	<i>medusina</i> Nyl. <i>Cladina</i> .....	380
<i>malaccensis</i> Nyl. <i>Lecid</i> .....	2480	<i>medusinus</i> Bory Lichen.....	380
<i>malaccensis</i> Nyl. <i>Parm</i> .....	687	<b>Medusula</b> Eschw.....	2787-2800
<i>malaccitula</i> Nyl. <i>Verruc</i> .....	3479	<i>medusula</i> Nyl. <i>Graph</i> .....	2645
<i>malacea</i> Fr. <i>Peltig</i> .....	896	<i>medusuliformis</i> Nyl. <i>Graph</i> .....	2637
<i>malacodes</i> Nyl. <i>Graph</i> .....	2676	<i>medusulina</i> Nyl. <i>Glyph</i> .....	3146
<i>maligna</i> Nyl. <i>Graph</i> .....	2690	<i>medusuliza</i> Nyl. <i>Opegr</i> .....	2832
<b>Mallotium</b> Flot.....	112 et 117	<i>megacarpa</i> Nyl. <i>Lecid</i> .....	2041
<i>mamillana</i> Schær. <i>Verruc</i> .....	3372	<i>megaleia</i> Nyl. <i>Parm</i> .....	530
<i>mamillaris</i> Duf. <i>Lecid</i> .....	2220	<i>megaleium</i> Nyl. <i>Platysm</i> .....	530 et 604
<i>mammata</i> Nyl. <i>Pertus</i> .....	4631	<i>megalospora</i> Th. Fr. <i>Argops</i> .....	269
<i>mammosum</i> Tuck. <i>Pemphid</i> .....	1804	<i>megaspermum</i> Mont. <i>Trypeth</i> .....	3510
<i>mammulata</i> Nyl. <i>Gyroph</i> .....	1031	<i>megaspermum</i> Nyl. <i>Trypeth</i> .....	3592
<i>Manitense</i> Tuck. <i>Endocarp</i> .....	3196	<i>meiobola</i> Nyl. <i>Lecid</i> .....	2068
<i>marcescens</i> Nyl. <i>Graph</i> .....	2564	<i>meiocarpa</i> Nyl. <i>Lecid</i> .....	1961 et 1961 <sup>b</sup>
<i>marcidula</i> Nyl. <i>Lecid</i> .....	2449	<i>meiocarpum</i> Nyl. <i>Eriod</i> .....	1102
<i>margacea</i> Wahl. <i>Verruc</i> .....	3273	<i>meiolepis</i> Cromb. <i>Heppia</i> .....	4118
<i>margarodes</i> Nyl. <i>Lecan</i> .....	4343	<i>meiophora</i> Nyl. <i>Parm</i> .....	631
<i>marginalis</i> Bory <i>Sticta</i> .....	810	<i>meiophorum</i> Nyl. <i>Sphæroph</i> .....	482 <sup>b</sup>
<i>marginata</i> Fée <i>Arthon</i> .....	2649	<i>meiophorum</i> Nyl. <i>Trypeth</i> .....	3529
<i>marginata</i> Nyl. <i>Graph</i> .....	2572	<i>meiophragmia</i> Nyl. <i>Lecid</i> .....	2245
<i>marginata</i> Nyl. <i>Pertus</i> .....	1606 et 1606 <sup>b</sup>	<i>meiosperma</i> Nyl. <i>Lecid</i> .....	2459
<i>marginata</i> Fée <i>Porina</i> .....	3312	<i>meiospora</i> Nyl. <i>Lecid</i> .....	2322
<i>marginata</i> Hook. <i>Pyrenula</i> .....	3372	<i>meiosporum</i> Nyl. <i>Thelotr</i> .....	1786
<i>marginata</i> Nyl. <i>Verruc</i> .....	3372	<i>Meissnerii</i> Tuck. <i>Pyxine</i> .....	1008
<i>marginatula</i> Nyl. <i>Lecid</i> .....	2083	<i>Meissnerii</i> Nyl. <i>Pyxine</i> .....	1013
<i>marginatum</i> Fée <i>Trypeth</i> .....	3546	<i>Meissnerina</i> Nyl. <i>Pyxine</i> .....	4013
<i>marginellum</i> Nyl. <i>Leptog</i> .....	400	<i>meizobactrium</i> Nyl. <i>Ascid</i> .....	1805 <sup>b</sup>
<i>marginellus</i> Sw. Lichen.....	400	<i>meizomorpha</i> Nyl. <i>Arthon</i> .....	3036
<i>marginifera</i> Nyl. <i>Stictina</i> .....	807 et 814	<i>meizospora</i> Nyl. <i>Parm</i> .....	644
<i>marginiflexa</i> Tayl. <i>Lecid</i> .....	2043	<i>melacarpa</i> Nyl. <i>Lecan</i> .....	4368
<i>mariana</i> Fée <i>Graph</i> .....	2640	<i>melacarpina</i> Nyl. <i>Coccocarp</i> .....	4088
<i>marianum</i> Nyl. <i>Leptog</i> .....	400	<i>melacarpiza</i> Nyl. <i>Lecan</i> .....	4368
<i>maritima</i> Bagl. <i>Lecid</i> .....	2445	<i>melacheila</i> Nyl. <i>Lecid</i> .....	2204

melachroa Nyl. <i>Lecid.</i> .....	2146	meristosporum Mont. <i>Trypeth.</i> .....	3341
melaclina Nyl. <i>Lecid.</i> .....	2039	mesogenes Nyl. <i>Parm.</i> .....	617
melæna Nyl. <i>Lecid.</i> .....	2073	mesographa Nyl. <i>Graph.</i> .....	2661
melænella Nyl. <i>Lecid.</i> .....	2006	mesographiza Nyl. <i>Graph.</i> .....	2777
melænum Ach. <i>Collem.</i> .....	49	mesoleuca Nyl. <i>Arthon.</i> .....	3050
melaleuca Tuck. <i>Lecid.</i> .....	2014	mesoleucodes Nyl. <i>Graph.</i> .....	2644
melaleuca Dub. <i>Pertus.</i> .....	1583	mesoleucodes Nyl. <i>Lecid.</i> .....	2040
melaloma Nyl. <i>Lecan.</i> .....	1327	<i>mesomorpha</i> Nyl. <i>Evern.</i> .....	577 et 577 <sup>b</sup>
melalomum Nyl. <i>Platysm.</i> .....	528	mesophæa Nyl. <i>Lecid.</i> .....	2087
<i>Melambo</i> Fée <i>Opegr.</i> .....	2834	mesophlebia Nyl. <i>Opegr.</i> .....	2840 et 2840 <sup>b</sup>
melambola Nyl. <i>Cladops.</i> .....	3624	mesospora Nyl. <i>Graph.</i> .....	2735
melancheima Tuck. <i>Lecid.</i> .....	2270	mesotropiza Nyl. <i>Lecid.</i> .....	2362
melaneira Ach. <i>Alect.</i> .....	559	mesoxantha Nyl. <i>Lecan.</i> .....	1401
melanocarpa Nyl. <i>Lecid.</i> .....	2101	metabola Nyl. <i>Melasp.</i> .....	3137
melanocoma Ach. <i>Peltig.</i> .....	906	metalepta Nyl. <i>Cladon.</i> .....	342
melanodes Nyl. <i>Cladon.</i> .....	337	metaphoricum Nyl. <i>Thelotr.</i> .....	1788
melanophæum Ach. <i>Calic.</i> .....	161	Metzleri Hepp <i>Collem.</i> .....	55
melanophthalma Duf. <i>Arthon.</i> ....	3065 et 3076	<i>mexicanum</i> Nyl. <i>Erioderm.</i> .....	1105
melanophthalma Nyl. <i>Lecan.</i> .....	1331	<i>microcarpa</i> Th. Fr. <i>Bilimb.</i> .....	2068
<i>melanophthalma</i> Mont. <i>Strig.</i> .....	3559	<i>microcarpa</i> Nyl. <i>Lecan.</i> .....	1508
<i>melanophthalma</i> Mont. <i>Verruc.</i> .....	3509	<i>microcarpa</i> Pers. <i>Parm.</i> .....	609 et 664
melanophthalmum Nyl. <i>Trypeth.</i> .....	3509	<i>microcarpa</i> Ach. <i>Peltig.</i> .....	906
melanopsis Sommerf. <i>Lecan.</i> .....	1483	<i>microcarpa</i> Nyl. <i>Pertus.</i> .....	1602
melanospora Nyl. <i>Pertus.</i> .....	1625	<i>microcarpa</i> Pers. <i>Usnea.</i> .....	493
melanosticta Nyl. <i>Arthon.</i> .....	3076	<i>microcarpoides</i> Nyl. <i>Thelotr.</i> .....	1704
<b>Melanotheca</b> Fée.....	3567-3574	<i>microcycchia</i> Tuck. <i>Opegr.</i> .....	2878
melanothrix Laur. <i>Ramal.</i> .....	394	<i>microdactyla</i> Nyl. <i>Lecid.</i> .....	1895
melanotropa Nyl. <i>Lecid.</i> .....	2029	<i>microdactyla</i> Nyl. <i>Peltig.</i> .....	900
melantha Nyl. <i>Lecan.</i> .....	1241	micrographum Nyl. <i>Stigmat.</i> .....	2960
melapsepha Nyl. <i>Lecid.</i> .....	2377	microlepta Nyl. <i>Lecid.</i> .....	2193 et 2193 <sup>b</sup>
melargyra Nyl. <i>Lecid.</i> .....	2400	micromma Mont. <i>Verruc.</i> .....	3408
melasema Nyl. <i>Lecid.</i> .....	2209	microphlebeia Nyl. <i>Opegr.</i> .....	2838
<b>Melaspilea</b> Nyl.....	3125-3139	microphleboides Nyl. <i>Opegr.</i> .....	2839
melaspileoides Nyl. <i>Mycop.</i> .....	3595	microphora Nyl. <i>Verruc.</i> .....	3486
melastegia Nyl. <i>Lecid.</i> .....	2040	<i>microphthalma</i> Mass. <i>Rinod.</i> .....	2447
melastigma Nyl. <i>Stigmat.</i> .....	2933	microphylla Nyl. <i>Pannul.</i> .....	1074
melastroma Nyl. <i>Lecid.</i> .....	2352	<i>microphylla</i> Schær. <i>Sticta.</i> .....	817
melathelia Nyl. <i>Thelops.</i> .....	3558	microphyllina Tuck. pr. p. <i>Lecid.</i> .....	2196
melatyloides Nyl. <i>Mycop.</i> .....	3599	microphylliniza Nyl. <i>Lecid.</i> .....	2197
melatylum Nyl. <i>Mycop.</i> .....	3598	microphyllizans Nyl. <i>Psorom.</i> .....	1133
melaxantella Nyl. <i>Lecid.</i> .....	2448	microphyllodes Nyl. <i>Pannul.</i> .....	1075
melaxanthiza Nyl. <i>Lecid.</i> .....	2449 et 2449 <sup>b</sup>	microphyllum Nyl. <i>Collem.</i> .....	60
melaxanthus Nyl. <i>Neuropog.</i> .....	513	<i>microphyllus</i> Sw. <i>Lichen.</i> .....	1074
melina Krempelh. <i>Lecid.</i> .....	2383	microporellum Nyl. <i>Thelotr.</i> .....	1706
melops Nyl. <i>Physc.</i> .....	975	<i>microporoides</i> Nyl. <i>Thelotr.</i> .....	1704
melopta Nyl. <i>Lecid.</i> .....	2347	microporum Mont. <i>Thelotr.</i> .....	1674
membranacea Nyl. <i>Peltig.</i> .....	899	microscopicum Nyl. <i>Leptog.</i> .....	3630
membranacea Nyl. <i>Ramal.</i> .....	442	microsema Nyl. <i>Opegr.</i> .....	2830
membranacea Laur. <i>Umbil.</i> .....	1018	microsperma Nyl. <i>Arthon.</i> .....	3116
mendax Nyl. <i>Graph.</i> .....	2712	microsperma Nyl. <i>Lecid.</i> .....	1928 et 2459
Menziesii Ach. <i>Leptog.</i> .....	115 et 115 <sup>b</sup>	microspermoides Nyl. <i>Arthon.</i> .....	3074
Menziesii Tuck. <i>Ramal.</i> .....	436	microspilota Nyl. <i>Melasp.</i> .....	3136
Menziesii Nyl. <i>Sticta.</i> .....	838	<i>microspora</i> Nyl. <i>Lecan.</i> .....	1315
Meratii Fée <i>Chiodect.</i> .....	3175	<i>microspora</i> Nyl. <i>Verruc.</i> .....	3263

<i>microsporum</i> Nyl. <i>Calic.</i> .....	452	<i>molybdiza</i> Nyl. <i>Parm.</i> .....	637
<i>microsticta</i> Nyl. <i>Varicell.</i> .....	4672	<i>molybdoplacum</i> Nyl. <i>Amphid.</i> .....	433
<i>microstictica</i> Nyl. <i>Opegr.</i> .....	2880	<i>moniliforme</i> Tuck. <i>Cænog.</i> .....	1847
<i>microthelena</i> Nyl. <i>Verruc.</i> .....	3502	<i>moniliformis</i> Fée <i>Arthon.</i> .....	3054
<i>Microthyrium</i> Mont. <i>Strig.</i> .....	3564	<i>moniliformis</i> Bab. <i>Parm.</i> .....	753
<i>micula</i> Flot. <i>Verruc.</i> .....	3685	<i>monobactrium</i> Nyl. <i>Ascid.</i> .....	1805 et 1805 <sup>b</sup>
<i>miculiformis</i> Nyl. <i>Verruc.</i> .....	3503	<i>monophora</i> Nyl. <i>Graph.</i> .....	2587
<i>millegrana</i> Nyl. <i>Lecid.</i> .....	2145	<i>monospora</i> Nyl. <i>Graph.</i> .....	2784 et 2601
<i>milliaria</i> Nyl. <i>Lecan.</i> .....	4282	<i>monospora</i> Nyl. <i>Verruc.</i> .....	3219
<i>milliaria</i> Fr. <i>Lecid.</i> .....	2070	<i>monosporum</i> Nyl. <i>Thelotr.</i> .....	4758
<i>mittina</i> de Notar. <i>Lecan.</i> .....	4343	<i>monosporoides</i> Nyl. <i>Thelotr.</i> .....	4759
<i>milvina</i> Nyl. <i>Lecan.</i> .....	4291	<i>monosticton</i> Fée <i>Chiodect.</i> .....	2936
<i>miniata</i> Nyl. <i>Lecan.</i> .....	4154	<i>Montagnei</i> Nyl. <i>Lecanact.</i> .....	2802
<i>miniatum</i> Ach. <i>Endocarp.</i> .....	3193	<i>Montagnei</i> Flot. <i>Lecid.</i> .....	2525
<i>miniatus</i> Hoffm. <i>Lichen.</i> .....	4154	<i>Montagnei</i> Nyl. <i>Ricasol.</i> .....	887
<i>minima</i> Mass. <i>Verruc.</i> .....	3266	<i>Montagnei</i> de Notar. <i>Ramal.</i> .....	406
<i>minor</i> Nyl. <i>Gyroph.</i> .....	4016	<i>Montagnei</i> Bél. <i>Roccel.</i> .....	482
<i>minor</i> Nyl. <i>Lecid.</i> .....	4859	<i>Moorei</i> Nyl. <i>Leptogid.</i> .....	3628
<i>minor</i> Fée <i>Parm.</i> .....	4001 et 4004	<i>mortarii</i> Arn. <i>Verruc.</i> .....	3283
<i>minor</i> Nyl. <i>Pertus.</i> .....	4603	<i>Moseleyi</i> Cromb. <i>Lecid.</i> .....	2409
<i>minor</i> Nyl. <i>Physc.</i> .....	1001	<i>Mougeotiana</i> Nyl. <i>Stictina.</i> .....	781 et 781 <sup>b</sup>
<i>minor</i> Nyl. <i>Ramal.</i> .....	438	<i>Mougeotii</i> Schær. <i>Parm.</i> .....	708 et 708 <sup>b</sup>
<i>minor</i> Nyl. <i>Ricasol.</i> .....	877	<i>Mougeotina</i> Nyl. <i>Parm.</i> .....	709
<i>minuscula</i> Nyl. <i>Parm.</i> .....	731	<i>Moulinsii</i> Mont. <i>Endocarp.</i> .....	3498
<i>minuscula</i> Nyl. <i>Ramal.</i> .....	466	<i>mourayamana</i> Nyl. <i>Lecid.</i> .....	2468
<i>minuscula</i> Nyl. <i>Synalis.</i> .....	49	<i>mourayamanum</i> Nyl. <i>Nephromium.</i> .....	3653
<i>minuta</i> Nyl. <i>Lecid.</i> .....	4964	<i>moziana</i> Nyl. <i>Lecan.</i> .....	4278
<i>minutella</i> Nyl. <i>Lecan.</i> .....	4432	<i>mucosa</i> Ach. <i>Verruc.</i> .....	3267
<i>minutula</i> Nyl. <i>Arthon.</i> .....	3107	<i>Muehlenbergii</i> Ach. <i>Endocarp.</i> .....	3194
<i>minutula</i> Nyl. <i>Lecid.</i> .....	2446	<i>Muehlenbergii</i> Ach. <i>Gyroph.</i> .....	4042
<i>minutula</i> Nyl. <i>Ramal.</i> .....	427	<i>Muelleri</i> Hampe <i>Sticta.</i> .....	385
<i>miscescens</i> Nyl. <i>Lecid.</i> .....	1955	<i>Muellerii</i> Nyl. <i>Heterod.</i> .....	385
<i>miserula</i> Nyl. <i>Arthon.</i> .....	3072	<i>multifera</i> Nyl. <i>Lecan.</i> .....	4345
<i>mitrula</i> Tuck. <i>Cladon.</i> .....	309	<i>multifida</i> Laur. <i>Sticta.</i> .....	850
<i>mixta</i> Nyl. <i>Lecid.</i> .....	4997	<i>multiformis</i> Nyl. <i>Platygr.</i> .....	2926
<i>mixta</i> Nyl. <i>Patell.</i> .....	3429	<i>multipuncta</i> Nyl. <i>Pertus.</i> .....	1568
<i>mixtum</i> Nyl. <i>Stereocaul.</i> .....	240 et 240 <sup>b</sup>	<i>multipunctus</i> Sm. <i>Lichen.</i> .....	1568
<i>mniarœa</i> Ach. <i>Lecan.</i> .....	4273	<i>mundata</i> Nyl. <i>Parm.</i> .....	745
<i>mniarœiza</i> Nyl. <i>Lecan.</i> .....	4274	<i>muralis</i> Ach. <i>Verruc.</i> .....	3285
<i>moderatum</i> Nyl. <i>Tyloph.</i> .....	477	<i>muralis</i> Nyl. <i>Lecan.</i> .....	4344
<i>modestula</i> Nyl. <i>Verruc.</i> .....	3340	<i>murorum</i> Ach. <i>Lecan.</i> .....	4454
<i>Molkenbæri</i> Mont. <i>Sticta.</i> .....	779	<i>muscicola</i> Nyl. <i>Lecan.</i> .....	4446
<i>molle</i> Sw. <i>Byssoc.</i> .....	1849	<i>muscicola</i> Sommerf. <i>Lecid.</i> .....	2103
<i>Mollerii</i> Henriq. <i>Lecid.</i> .....	2128	<i>muscicola</i> Fr. <i>Leptog.</i> .....	430 et 430 <sup>b</sup>
<i>mollescens</i> Nyl. <i>Crocynia.</i> .....	1850	<i>muscicola</i> Ach. <i>Verruc.</i> .....	3336
<i>mollescens</i> Nyl. <i>Physc.</i> .....	953	<i>muscigena</i> Eschw. <i>Cladon.</i> .....	353
<i>mollis</i> Nyl. <i>Crocynia.</i> .....	1849	<i>muscigena</i> Nyl. <i>Physc.</i> .....	984
<i>mollis</i> Nyl. <i>Lecid.</i> .....	2290	<i>muscigenus</i> Wahl. <i>Lichen.</i> .....	984
<i>molliuscula</i> Fée <i>Lecid.</i> .....	4848	<i>muscivaga</i> Nyl. <i>Parm.</i> .....	718
<i>molliuscula</i> Ach. <i>Parm.</i> .....	713	<i>Muscorum</i> Nyl. <i>Lecid.</i> .....	2169
<i>molliusculum</i> Nyl. <i>Byssoc.</i> .....	4848	<i>Muscorum</i> Nyl. <i>Pannul.</i> .....	4084
<i>mollusca</i> Nyl. <i>Comb.</i> .....	474	<i>Muscorum</i> Schær. <i>Lecid.</i> .....	2066 <sup>b</sup>
<i>molybdæa</i> Pers. <i>Coccocarp.</i> .....	4094	<i>mutabilis</i> Nyl. <i>Lecan.</i> .....	4475
<i>molybdina</i> Ach. <i>Lecan.</i> .....	4542	<i>mutabilis</i> Fée <i>Lecid.</i> .....	4925



<i>mutabilis</i> Tayl. <i>Parm.</i> .....	693	<i>nigra</i> Nyl. <i>Pannul.</i> .....	1078
<i>mutata</i> Nyl. <i>Lecid.</i> .....	2207	<i>nigrata</i> Nyl. <i>Verruc.</i> .....	3233
<b>Mycoporum</b> Flot.....	3593-3602	<i>nigrescens</i> Ach. <i>Collem.</i> .....	61 et 64 <sup>b</sup>
<i>myochroum</i> Nyl. <i>Leptog.</i> .....	412	<i>nigrescens</i> Pers. <i>Verruc.</i> .....	3254
<i>myochrous</i> Ehrh. Lichen.....	112	<i>nigricans</i> Nyl. <i>Alcct.</i> .....	361
<i>myriadea</i> Nyl. <i>Arthon.</i> .....	3418	<i>nigricans</i> Nyl. <i>Cetr.</i> .....	520
<i>myriadella</i> Nyl. <i>Lecid.</i> .....	1863	<i>nigricans</i> Tuck. <i>Lecan.</i> .....	1216
<i>myriadeum</i> Fée Coniocarp.....	3418	<i>nigricans</i> Nyl. <i>Verruc.</i> .....	3250
<i>myriocarpa</i> Nyl. <i>Graph.</i> .....	2574	<i>nigririmis</i> Nyl. <i>Graph.</i> .....	2731
<i>myriocarpa</i> Nyl. <i>Lecid.</i> .....	2419	<i>nigritula</i> Nyl. <i>Lecid.</i> .....	2423
<i>myriocarpa</i> Tuck. Opegr.....	2878	<i>nigritulum</i> Nyl. <i>Trypeth.</i> .....	3527
<i>myriocarpa</i> Fée Pyrenula.....	3416	<i>nigro-cincta</i> Nyl. <i>Pannul.</i> .....	1079
<i>myriocarpella</i> Nyl. <i>Lecid.</i> .....	2442	<i>nigro-cinctum</i> Mont. <i>Chiodect.</i> .....	3165
<i>myriocarpoides</i> Nyl. <i>Lecid.</i> .....	1992	<i>nigro-cinerea</i> Nyl. <i>Lecid.</i> .....	2369
<i>myriocarpoides</i> Nyl. <i>Stereocaul.</i> .....	254	<i>nigro-cinerea</i> Nyl. <i>Pannul.</i> .....	1081
<i>myriocarpum</i> Fée <i>Thelotr.</i> .....	1707	<i>nigro-clavata</i> Nyl. <i>Lecid.</i> .....	2389
<i>myriocarpum</i> Th. Fr. <i>Stereocaul.</i> .....	251	<i>nigro-pallida</i> Nyl. <i>Lecid.</i> .....	2225
<i>myriococcum</i> Ach. <i>Collem.</i> .....	36	<i>nilgherrensis</i> Nyl. <i>Lecid.</i> .....	2043
<i>myriococcum</i> Mont. <i>Collem.</i> .....	77	<i>nilgherrensis</i> Nyl. <i>Parm.</i> .....	613
<i>myriomma</i> Nyl. <i>Verruc.</i> .....	3425	<i>nimbosa</i> Nyl. <i>Lecan.</i> .....	1272
<i>myrioporellum</i> Nyl. <i>Thelotr.</i> .....	1677	<i>niponica</i> Nyl. <i>Dirina.</i> .....	1557
<i>myriostigma</i> Nyl. <i>Melasp.</i> .....	3135	<i>nitens</i> Fée <i>Verruc.</i> .....	3375
<i>myriotrema</i> Nyl. <i>Thelotr.</i> .....	1675	<i>nitida</i> Mont. <i>Graph.</i> .....	2742
<i>myriotremoides</i> Nyl. <i>Thelotr.</i> .....	1679	<i>nitida</i> Tayl. <i>Sticta.</i> .....	841
<i>myrrhina</i> Nyl. <i>Lecan.</i> .....	1343	<i>nitida</i> Schrad. <i>Verruc.</i> .....	3375
<b>N</b>			
<i>nagasakensis</i> Nyl. <i>Lecid.</i> .....	1995	<i>nitidella</i> Floerke <i>Verruc.</i> .....	3376
<i>nagasakensis</i> Nyl. <i>Pertus.</i> .....	1630	<i>nitidella</i> Nyl. <i>Verruc.</i> .....	3381
<i>nana</i> Nyl. <i>Graph.</i> .....	2562	<i>nitidescens</i> Nyl. <i>Graph.</i> .....	2745
<i>nana</i> Nyl. <i>Verruc.</i> .....	3309	<i>nitidiuscula</i> Nyl. <i>Lecan.</i> .....	1327
<i>nanodes</i> Tuck. <i>Stereocaul.</i> .....	264	<i>nitidiuscula</i> Nyl. <i>Verruc.</i> .....	3421 et 3422
<i>nanum</i> Nyl. <i>Leprocaul.</i> .....	3609	<i>nitidula</i> Nyl. <i>Lecid.</i> .....	2243
<i>natalensis</i> Nyl. <i>Lecid.</i> .....	1978	<i>nitidula</i> Mont. <i>Strig.</i> .....	3562
<i>natalense</i> Nyl. <i>Chiodect.</i> .....	3174	<i>nitidum</i> Eschw. <i>Diorygma.</i> .....	2742
<i>nebulosa</i> Nyl. <i>Pannar.</i> .....	1069	<i>nivale</i> Nyl. <i>Platysm.</i> .....	525
<i>negata</i> Nyl. <i>Parm.</i> .....	679	<i>nivalis</i> L. Lichen.....	525
<i>Nemathora</i> Mont. <i>Strig.</i> .....	3560	<i>nivea</i> Eschw. <i>Graph.</i> .....	2613
<i>nematodes</i> Nyl. <i>Ramal.</i> .....	455	<i>niveum</i> Mont. <i>Byssoc.</i> .....	1851
<i>nemoxyna</i> Ach. <i>Cladon.</i> .....	290	<i>nodulifera</i> Nyl. <i>Physo.</i> .....	929
<i>neo-caledonica</i> Nyl. <i>Parm.</i> .....	616	<i>noli-tangere</i> Nyl. <i>Arthon.</i> .....	3015
<i>neo-caledonica</i> Nyl. <i>Pertus.</i> .....	1575	<i>nonaria</i> Nyl. <i>Verruc.</i> .....	3315
<i>neo-hollandica</i> Nyl. <i>Parm.</i> .....	654	<b>Normandina</b> Nyl.....	3191-3192
<i>neo-hollandicum</i> Nyl. <i>Chiodect.</i> .....	3180	<i>notha</i> Nyl. <i>Opegr.</i> .....	2817
<i>neo-zelandica</i> Nyl. <i>Phlyctel.</i> .....	1815	<i>Novæ-Angliæ</i> Nyl. <i>Verruc.</i> .....	3247
<i>nephelina</i> Nyl. <i>Arthon.</i> .....	3017	<i>Novæ-Zelandiæ</i> Knight <i>Bæom.</i> .....	189
<b>Nephroma</b> Ach.....	912-918	<i>nucula</i> Nyl. <i>Verruc.</i> .....	3328
<b>Nephromium</b> Nyl.....	888-895 et 3653	<i>nudatum</i> Nyl. <i>Astroth.</i> .....	3592
<i>nephromoides</i> Nyl. <i>Platysm.</i> .....	535 et 535 <sup>b</sup>	<i>nudior</i> Nyl. <i>Cladon.</i> .....	333
<i>nesæum</i> Nyl. <i>Stereocaul.</i> .....	243	<i>nudior</i> Nyl. <i>Verruc.</i> .....	3442
<b>Neuropogon</b> Nees et Flot.....	513-516	<i>nudum</i> Fée <i>Trypeth.</i> .....	3370
<i>Newtonia</i> Henriq. <i>Lecan.</i> .....	1531	<i>nudum</i> Del. <i>Stereocaul.</i> .....	240
<i>niger</i> Huds. Lichen.....	1078	<i>numidella</i> Nyl. <i>Collemops.</i> .....	30
		<i>nummularia</i> Dur. <i>Omphal.</i> .....	24
		<i>nummularioides</i> Nyl. <i>Omphal.</i> .....	25
		<i>nummularium</i> Nyl. <i>Anema.</i> .....	32

## O

Oakesianum Tuck, <i>Platygm.</i> .....	733	ocellata Floerke <i>Lecid.</i> .....	2447
obducens Nyl. <i>Pertus.</i> .....	1580	ocellata Nyl. <i>Platygr.</i> .....	2916
obducta Nyl. <i>Sphinctr.</i> .....	144	ocellata DC. <i>Urceol.</i> .....	1823
obesa Nyl. <i>Physc.</i> .....	935	<i>ocellatus</i> Vill. Lichen.....	1823
obfirmata Nyl. <i>Lecanact.</i> ..... 2807 et 2807 <sup>b</sup>		ocellifera Nyl. <i>Lecid.</i> .....	2254
obfuscata Nyl. <i>Verruc.</i> .....	3258	ochracea Hepp <i>Graph.</i> .....	2738
obliquans Nyl. <i>Lecan.</i> .....	1258	ochracea Nyl. <i>Lecan.</i> .....	1182
obliterans Nyl. <i>Pannul.</i> .....	1080	ochracea Nyl. <i>Lecid.</i> .....	1971
obliterascens Nyl. <i>Lecan.</i> .....	1344	ochracea Nyl. <i>Lecid.</i> .....	2340
obliterata Nyl. <i>Lecan.</i> .....	1154	ochraceella Nyl. <i>Arthon.</i> .....	2982
<i>obliteratus</i> Pers. Lichen.....	1154	ochraceo-flava Nyl. <i>Verruc.</i> .....	3412
oblonga Nyl. <i>Opogr.</i> .....	2849	ochraceo-flavens Nyl. <i>Verruc.</i> .....	3413
obludens Nyl. <i>Lecid.</i> .....	2017	ochraceum Nyl. <i>Byssoc.</i> .....	1853
oblutescens Nyl. <i>Lecan.</i> .....	1421	ochrocarpa Nyl. <i>Lecid.</i> .....	2125
obnigrescens Nyl. <i>Verruc.</i> .....	3257	ochrochlora Floerke <i>Cladon.</i> ..... 288 et 288 <sup>b</sup>	
obpallens Nyl. <i>Lecan.</i> .....	1341	<i>ochrochlora</i> Nyl. <i>Verruc.</i> .....	3519
obscura Fr. <i>Physc.</i> .....	990	<i>ochro-cincta</i> Nyl. <i>Arthon.</i> .....	3000
obscurascens Nyl. <i>Physc.</i> .....	1000	ochrocleistum Nyl. <i>Astroth.</i> .....	3584
<i>obscurata</i> Ach. Parm. ....	741	ochrodela Nyl. <i>Lecid.</i> .....	2500
obscurata Nyl. <i>Physc.</i> .....	954	ochrodes Nyl. <i>Arthon.</i> .....	2966
obscuratula Nyl. <i>Heppia.</i> .....	1113	ochrodiscodes Nyl. <i>Arthon.</i> .... 3112 et 3112 <sup>b</sup>	
obscurior Nyl. <i>Lecan.</i> .....	1435	ochroleuca Nyl. <i>Alect.</i> ..... 566 et 566 <sup>b</sup>	
obscurior Nyl. <i>Pannar.</i> .....	1068	<i>ochroleuca</i> Pers. <i>Graph.</i> .....	2540
obscurior Nyl. <i>Stictina.</i> .....	769	ochroleuca Nyl. <i>Lobaria.</i> .....	813
obscuriuscula Nyl. <i>Physc.</i> .....	991	<i>ochroleuca</i> Eschw. Ustal. ....	2637
<i>obscurum</i> Spreng. <i>Stigmat.</i> .....	2932	<i>ochroleuca</i> Eschw. <i>Verruc.</i> .....	3519
<i>obscurus</i> Ehrh. Lichen.....	990	ochroleucodes Nyl. <i>Graph.</i> .....	2596
obsessa Nyl. <i>Parmeliops.</i> .....	761	ochroleucum Nyl. <i>Trypeth.</i> .....	3519
obsessa Nyl. <i>Physc.</i> .....	979	<i>ochroleucus</i> Ehrh. Lichen.....	566
obsolescens Nyl. <i>Pertus.</i> .....	1615	ochro-lutea Nyl. <i>Arthon.</i> .....	2999
obtecta Nyl. <i>Graph.</i> .....	2715	ochromela Nyl. <i>Lecid.</i> .....	2334
obtenta Nyl. <i>Verruc.</i> .....	3224	ochromicra Nyl. <i>Lecan.</i> .....	1500
<i>obtrita</i> Fée Arthon.....	2631	ochrophæa Tuck. <i>Lecan.</i> .....	1550
obturascens Nyl. <i>Thelotr.</i> .....	1776	ochrophana Nyl. <i>Lecan.</i> .....	1509
obturatum Nyl. <i>Thelotr.</i> .....	1693	ochroplaca Nyl. <i>Graph.</i> .....	2357
<i>obtusa</i> Fée Arthon.....	2631	ochrospila Nyl. <i>Arthon.</i> .....	2977
obtusata Nyl. <i>Cladina.</i> .....	375	ochrothelium Nyl. <i>Trypeth.</i> .....	3035
<i>obtusata</i> Ach. <i>Dactyl.</i> .....	371	ochrotheliza Nyl. <i>Pertus.</i> .....	1636
<i>obtusatus</i> Wahlenb. Lichen.....	1664	ochrothelizum Nyl. <i>Trypeth.</i> .....	3531
obtusior Nyl. <i>Graph.</i> .....	2756	ochrotropa Nyl. <i>Verruc.</i> .....	3410
obtusior Nyl. <i>Verruc.</i> .....	3401	ochroxantha Nyl. <i>Lecid.</i> .....	1881
obtusula Nyl. <i>Arthon.</i> .....	3035	octophora Nyl. <i>Graph.</i> .....	2734
obumbrata Nyl. <i>Lecid.</i> .....	2302	octospora Nyl. <i>Pertus.</i> .....	1603
obvelata Nyl. <i>Pertus.</i> .....	1565	oculans Nyl. <i>Lecid.</i> .....	1967
obvoluta Ach. <i>Sticta.</i> .....	848	oculata Nyl. <i>Pertus.</i> .....	1664
<i>obvoluta</i> Hook. <i>Sticta.</i> .....	788	<i>oculatus</i> Dicks. Lichen.....	1664
<i>obvoluta</i> Nyl. <i>Sticta.</i> .....	782	odontella Ach. <i>Cetr.</i> .....	523
obvoluta Nyl. <i>Stictina.</i> .....	802	ohiense Nyl. <i>Mycop.</i> .....	3600
obvoluta Nyl. <i>Verruc.</i> .....	3428	<i>oidalea</i> Tuck. <i>Lecid.</i> .....	2496
occlusum Nyl. <i>Thelotr.</i> .....	1752	<i>oleagina</i> Fée <i>Pyrenula.</i> ..... 3529 et 3375	
occulata Knight et Mitt. <i>Platygr.</i> .....	2929	<i>oleagineum</i> Nyl. <i>Trypeth.</i> .....	3329
ocellata Nyl. <i>Lecan.</i> .....	1279	olivacea Nyl. <i>Graph.</i> .....	2789
		olivacea Nyl. <i>Lecid.</i> .....	2243
		olivacea Ach. <i>Parm.</i> ..... 721 et 721 <sup>b</sup>	

- olivaceum* Fée Myriotr..... 4675  
*olivaceum* Mont. *Thelotr*..... 4743  
*olivaceus* L. Lichen..... 721  
*olivetorum* Nyl. *Parm*..... 603 et 606  
**Omphalaria** Dur. et Mont..... 22-29  
*omphaliza* Nyl. *Heppia*..... 4119  
*omphalodes* Ach. *Parm*..... 697  
**Omphalodium** Mey. et Flot..... 735-737  
*onchophora* Nyl. *Opegr*..... 2855  
*onchospora* Nyl. *Opegr*..... 2855  
*opaca* Ach. *Lecan*..... 1330  
**Opegrapha** Ach..... 2811-2893  
*opegraphella* Nyl. *Melanoth*..... 3574  
*opegraphella* Nyl. *Xylograph*..... 2551  
*opegraphina* Nyl. *Platygr*..... 2912  
*opegraphoides* DC. *Lecan*..... 1477  
*opegraphoides* Nyl. *Melasp*..... 3130  
*operta* Nyl. *Verruc*..... 3359  
*opulentum* Mont. *Collem*..... 38  
*orbatum* Nyl. *Platysm*..... 543  
*orbicularis* Nyl. *Stictina*..... 810  
*orbicularis* Fr. *Strig*..... 3559  
*oregana* Tuck. *Alect*..... 3641  
*oregana* Tuck. *Lecan*..... 1498  
*oreina* Ach. *Lecan*..... 1269  
*oreinoides* Nyl. *Lecid*..... 2351  
*orizabana* Nyl. *Sticta*..... 825  
*ornata* Sommerf. *Lecan*..... 1503  
*orphnea* Nyl. *Lecid*..... 1916  
*orygmæa* Nyl. *Lecid*..... 2543  
*orygmæa* Ach. *Sticta*..... 843  
*orygmæa* Del. *Sticta*..... 842  
*orygmæoides* Nyl. *Sticta*..... 842  
*orygmæum* Del. *Endocarp*..... 2543  
*oryzæformis* Fée *Graph*..... 2699  
*oryzoides* Leight. *Graph*..... 2614  
*osteina* Nyl. *Alect*..... 567 et 167<sup>b</sup>  
*osteoleuca* Nyl. *Parm*..... 716  
*otagensis* Nyl. *Lecid*..... 2241  
*ovalis* Tayl. *Ramal*..... 443  
*ovata* Nyl. *Graph*..... 2561  
*oxyspora* Nyl. *Lecid*..... 2533  
*oxysporus* Tul. *Abroth*..... 2533  
*oxytera* Nyl. *Arthon*..... 3059  
*Ozocladium* Mont..... 4808
- P**
- pachnea* Ach. *Lecan*..... 1273  
*pachnodes* Fée *Graph*..... 2586  
*pachycarpa* Duf. *Lecid*..... 2092  
*pachycheila* Tuck. *Lecid*..... 2096  
*pachygrapha* Nyl. *Graph*..... 2730  
*pachypholis* Nyl. *Lecan*..... 4447  
*pachyplaca* Nyl. *Pertus*..... 4577  
*pachypus* Nyl. *Bæom*..... 201  
*pachysporum* Nyl. *Thelotr*..... 1699  
*pachystomoides* Nyl. *Thelotr*..... 1684  
*pachystomum* Nyl. *Thelotr*..... 1684  
*pachythalla* Nyl. *Parm*..... 735  
*palamæa* Ach. *Cladon*..... 345  
*paleacea* Fr. *Parm*..... 1123  
*paleaceum* Nyl. *Psorom*..... 1123  
*pallens* Nyl. *Nephroma*..... 945  
*pallens* Nyl. *Sticta*..... 844  
*pallescens* Ach. *Lecan*..... 1457  
*pallescens* Nyl. *Platysm*..... 534 et 537  
*pallescens* Fée *Trypeth*..... 3519  
*pallida* Fr. *Conioc*..... 464  
*pallida* Th. Fr. *Lecid*..... 2308  
*pallida* Nyl. *Ricasol*..... 882  
*pallida* Nyl. *Verruc*..... 3244  
*pallidella* Nyl. *Lecid*..... 2051  
*pallidella* Nyl. *Platygr*..... 2897  
*pallidior* Nyl. *Lecan*..... 1235  
*pallido-atra* Nyl. *Lecid*..... 2367  
*pallido-cerina* Nyl. *Lecan*..... 1414  
*pallido-cinerea* Floerke *Lecid*..... 2340  
*pallido-flava* Fée *Lecan*..... 1382  
*pallido-nigra* Hampe *Lecid*..... 2223  
*pallidula* Nyl. *Phlyct*..... 1817  
*pallidula* Nyl. *Verruc*..... 3246  
*pallidulum* Nyl. *Endocarp*..... 3246  
*pallidum* Ach. *Endocarp*..... 3244  
*pallidum* Nyl. *Psorom*..... 1138  
*palmata* Bory *Cladon*..... 334  
*palmatum* Nyl. *Leptog*..... 108  
*palmatum* Mont. *Leptog*..... 107  
*palmatus* Huds. Lichen..... 107  
*palmicola* Nyl. *Arthon*..... 3066  
*palmulata* Mich. *Physc*..... 987  
*palumbina* Nyl. *Coccocarp*..... 1092  
*pamparia* Nyl. *Lecid*..... 2313  
*panæola* Ach. *Lecid*..... 2339  
*Pandani* Nyl. *Arthon*..... 3114  
*pandanicola* Nyl. *Arthon*..... 3114  
*Panizzei* de Notar. *Ramal*..... 472  
**Pannaria** Del..... 1053-1072  
*pannariiformis* Nyl. *Parm*..... 722  
*pannarioides* Nyl. *Lecid*..... 1898  
*pannarium* Nyl. *Amphinom*..... 89  
*panniformis* Nyl. *Parm*..... 722  
*pannosa* Del. *Pannar*..... 1056 et 1056<sup>b</sup>  
*pannosus* Sw. Lichen..... 1056  
**Pannularia** Nyl..... 1073-1087  
*panyrga* Nyl. *Pertus*..... 1561  
*papillaria* Duf. *Pycnoth*..... 384  
*papillaris* Del. *Lobaria*..... 812



<i>papillata</i> Ach. Porina.....	1603	<i>parvula</i> Nyl. <i>Sticta</i> .....	837
<i>papillitera</i> Nyl. <i>Verruc</i> .....	3336	<i>paschale</i> Ach. <i>Stereocaul</i> .....	248 et 248 <sup>b</sup>
<i>papillosa</i> Nyl. <i>Gyroph</i> .....	4033	<i>paschale</i> Nyl. <i>Stereocaul</i> .....	252
<i>papillosa</i> Koerb. <i>Verruc</i> .....	3275	<i>paschalis</i> L. Lichen.....	248
<i>papillosum</i> Nyl. <i>Trypeth</i> .....	3536	<i>patellarina</i> Nyl. <i>Lecid</i> .....	2213
<i>papillulata</i> Nyl. <i>Pertus</i> .....	1623	<i>patellarioides</i> Nyl. <i>Lecid</i> .....	2212
<i>papulosa</i> Mont. <i>Parm</i> .....	935	<i>patellula</i> Fée <i>Graph</i> .....	2670
<i>papulosa</i> Nyl. <i>Umbilic</i> .....	1017	<i>patellula</i> Fée <i>Lecid</i> .....	1866
<i>papulosa</i> Nyl. <i>Verruc</i> .....	3417	<i>patellulata</i> Nyl. <i>Arthon</i> .....	3119
<i>papyracea</i> Bab. <i>Sticta</i> .....	827	<i>patula</i> Del. <i>Sticta</i> .....	823
<i>papyraceum</i> Ach. <i>Nephrom</i> .....	891	<i>patula</i> Mont. <i>Sticta</i> .....	826
<i>papyria</i> Ach. <i>Gyroph</i> .....	1036	<i>patulum</i> Nyl. <i>Thelotr</i> .....	1758
<i>papyrina</i> Nyl. <i>Stictina</i> .....	799	<b>Paulia</b> Fée.....	21
<i>papyrina</i> Fée <i>Parm</i> .....	667	<i>Paulina</i> Tuck. <i>Lecid</i> .....	2419
<i>parabola</i> Nyl. <i>Lecid</i> .....	2130	<i>paupera</i> Th. Fr. <i>Lecid</i> .....	2355
<i>paradoxum</i> Fée <i>Chiodect</i> .....	2926	<i>paupercula</i> Nyl. <i>Lecan</i> .....	1305
<i>paradoxum</i> Ach. <i>Trypeth</i> .....	3177	<i>paupercula</i> Th. Fr. <i>Lecid</i> .....	2368
<i>paralia</i> Nyl. <i>Arthon</i> .....	3075	<i>pauperius</i> Nyl. <i>Thelotr</i> .....	1710
<i>parallela</i> Fr. <i>Xylogr</i> .....	2350	<i>Pavonia</i> Fr. <i>Cora</i> .....	3186
<i>paramera</i> Nyl. <i>Verruc</i> .....	3368	<i>Pavonia</i> Nyl. <i>Graph</i> .....	2535
<i>parapetræa</i> Nyl <i>Lecid</i> .....	2511	<i>Pavoniana</i> Fée <i>Graph</i> .....	2535
<i>paraphana</i> Nyl. <i>Lecid</i> .....	2375	<i>pelidnocarpa</i> Mont. <i>Lecan</i> .....	4393
<i>paraphanella</i> Nyl. <i>Lecid</i> .....	2376	<i>pelinum</i> Nyl. <i>Chiodect</i> .....	3156
<i>parasema</i> Ach. <i>Lecid</i> .....	2243	<i>peliosoma</i> Nyl. <i>Pertus</i> .....	1611
<i>parasemiza</i> Nyl. <i>Lecid</i> .....	2247	<i>pellæa</i> Nyl. <i>Lecid</i> .....	1921
<i>parasemoides</i> Nyl. <i>Arthon</i> .....	3104	<i>Pelletierii</i> Fée <i>Graph</i> .....	2390
<i>parasemopsis</i> Nyl. <i>Lecid</i> .....	2428	<i>pellita</i> Nyl. <i>Coccocarp</i> .....	1092
<i>parasitica</i> Floerke <i>Lecid</i> .....	2542	<i>pelochroa</i> Nyl. <i>Lecid</i> .....	1911
<i>parasitica</i> Fée <i>Parm</i> .....	754	<i>pelocrita</i> Nyl. <i>Verruc</i> .....	3287
<i>parastata</i> Nyl. <i>Lecid</i> .....	2394	<i>peloleuca</i> Nyl. <i>Lecan</i> .....	1296
<b>Parathelium</b> Nyl.....	3554-3556	<i>pelomela</i> Nyl. <i>Lecid</i> .....	3663
<i>parculum</i> Nyl. <i>Leptog</i> .....	432	<i>pelophæa</i> Nyl. <i>Lecid</i> .....	2267
<i>parella</i> Ach. <i>Lecan</i> .....	1460	<i>peltasta</i> Nyl. <i>Cladina</i> .....	369
<i>parellina</i> Nyl. <i>Lecan</i> .....	1324 et 1325	<i>peltastica</i> Nyl. <i>Cladina</i> .....	370
<i>parellus</i> L. Lichen.....	1460	<i>peltata</i> Nyl. <i>Lecan</i> .....	1332
<i>pariata</i> Nyl. <i>Verruc</i> .....	3296	<i>peltatum</i> Tuck. <i>Endocarp</i> .....	3209
<i>parietina</i> de Notar. <i>Physc</i> .....	936	<b>Peltidea</b> Nyl.....	919-920
<i>parietinum</i> Ach. <i>Calic</i> .....	157	<b>Peltigera</b> Hoffm.....	896-908
<i>parietinus</i> L. Lichen.....	936	<i>peltigera</i> Del. <i>Sticta</i> .....	877
<i>parile</i> Nyl. <i>Nephromium</i> .....	891 et 891 <sup>b</sup>	<i>peltigerella</i> Nyl. <i>Stictina</i> .....	806
<i>parilis</i> Ach. Lichen.....	891	<b>Peltula</b> Nyl.....	1120
<i>parisiensis</i> Nyl. <i>Lecan</i> .....	1355	<i>pendula</i> Nyl. <i>Evern</i> .....	572
<i>parmata</i> Nyl. <i>Parm</i> .....	596	<i>pendulina</i> Ach. <i>Ramal</i> .....	427
<b>Parmelia</b> Ach.....	579-759 et 3642-3650	<i>penichra</i> Nyl. <i>Lecid</i> .....	2496
<i>Parmeliarum</i> Sommerf. <i>Lecid</i> .....	2539	<i>pennsylvanica</i> Hoffm. <i>Umbilic</i> .....	1019
<i>parmelioides</i> Hook. <i>Coccocarp</i> .....	1091	<i>pepressum</i> Nyl. <i>Ascid</i> .....	1804
<b>Parmeliopsis</b> Nyl.....	760-763	<i>peraffinis</i> Nyl. <i>Arthon</i> .....	3057
<b>Parmosticta</b> Nyl.....	844-848	<i>peralbata</i> Nyl. <i>Pertus</i> .....	1564
<b>Parmostictina</b> Nyl.....	782-784	<i>peralbida</i> Nyl. <i>Graph</i> .....	* 2693 et 2693 <sup>b</sup>
<i>particeps</i> Nyl. <i>Graph</i> .....	2716	<i>peranceps</i> Nyl. <i>Ramal</i> .....	398
<i>parvifica</i> Nyl. <i>Graph</i> .....	2736	<i>percaena</i> Nyl. <i>Lecan</i> .....	1215
<i>parvifolia</i> Pers. <i>Lecid</i> .....	1883	<i>percaenoides</i> Nyl. <i>Lecan</i> .....	1517
<i>parvifoliella</i> Nyl. <i>Lecid</i> .....	1891	<i>percænum</i> Nyl. <i>Placod</i> .....	1215
<i>parvula</i> Nyl. <i>Opegr</i> .....	2850	<i>percrassata</i> Nyl. <i>Cladon</i> .....	352

- perdiffracta Nyl. *Pertus*..... 1564  
 peregena Nyl. *Phlyctel*..... 4818  
 perlida Nyl. *Pertus*..... 4662  
 perllavida Nyl. *Lecan*..... 1417  
 perforata Ach. *Parm*..... 595 et 595<sup>b</sup>  
*perforata* Mont. *Parm*..... 530  
*perforata* Nyl. *Parm*..... 606  
 perforatum Leight. *Thelotr*..... 1705  
*perforatus* Jacq. Lichen..... 595  
 perfragilis Nyl. *Verruc*..... 3343  
 peribysiza Nyl. *Lecid*..... 2111  
 pericarpa Nyl. *Stictina*..... 792  
 periclea Nyl. *Platygr*..... 2925  
 periptera Nyl. *Coccocarp*..... 1093  
 peripterodes Nyl. *Lecan*..... 1474  
 perisidiosa Nyl. *Parm*..... 705  
 perithioides Nyl. *Lecan*..... 1364  
 peritropa Nyl. *Lecan*..... 1428  
 perlata Ach. *Parm*..... 599 et 599<sup>b</sup>  
*perlata* Mont. *Parm*..... 614  
*perlatus* L. Lichen..... 599  
 perlutescens Nyl. *Lecan*..... 1422  
 perminiata Nyl. *Lecan*..... 1174  
 perminima Nyl. *Lecid*..... 2002  
 perminimum Nyl. *Mycop*..... 3596  
 permutans Nyl. *Platygr*..... 2913  
 pernigrata Nyl. *Verruc*..... 3234  
 pernigratum Nyl. *Homod*..... 132 bis  
 perpallens Nyl. *Arthon*..... 2991  
 perpallida Nyl. *Lecid*..... 2120  
 perplexum Nyl. *Chiodect*..... 3156 et 3157  
 perradiata Nyl. *Lecan*..... 1469  
 perrimosa Nyl. *Pertus*..... 4632 et 4633  
 perrugata Nyl. *Parm*..... 723  
 perrugosa Nyl. *Lecan*..... 1321  
 persanguinaria Nyl. *Lecid*..... 2381  
 persistens Nyl. *Lecid*..... 2318  
 perspersa Nyl. *Lecan*..... 1389  
 perstriatula Nyl. *Graph*..... 2622  
 persulphurata Nyl. *Parm*..... 590  
 pertabescens Nyl. *Arthon*..... 3102  
 pertenella Nyl. *Magnops*..... 3623  
 pertenuescens Nyl. *Lecan*..... 4133  
 pertexta Nyl. *Lecid*..... 2195  
 pertusa Schær. *Parm*..... 748 et 748<sup>b</sup>  
**Pertusaria** DC..... 1560-1671  
 pertusarioidea Nyl. *Lecan*..... 1455  
*pertusarioides* Nyl. *Thelotr*..... 1772  
 pertusarioides Nyl. *Verruc*..... 3312  
 pertusura Nyl. *Verruc*..... 3243  
*pertusus* Schrank. Lichen..... 748  
 peruensis Nyl. *Physc*..... 930  
*perumbrata* Nyl. *Verruc*..... 3211  
*perumbratum* Nyl. *Endocarp*..... 3211  
 perusta Nyl. *Lecid*..... 2415  
*peruviana* Fée Opegr..... 2360  
 peruviana Nyl. *Parm*..... 657  
 peruviana Ach. *Ramal*..... 421  
 peruviana Nyl. *Stictina*..... 794  
 pervarians Nyl. *Graph*..... 2653  
 Petersii Nyl. *Pteryg*..... 14  
 petræa Nyl. *Graph*..... 2595  
 petræa Flot. *Lecid*..... 2313  
 petræa Nyl. *Lithogr*..... 2547  
 petræoides Nyl. *Lecid*..... 2337  
 petricola Nyl. *Pyxine*..... 1010  
 petrina Nyl. *Lecid*..... 2370  
 petrophyes Knight *Pertus*..... 1652  
*petrolepidea* Nyl. *Verruc*..... 3217  
 petrolepideum Nyl. *Endocarp*..... 3217  
 pezizoidea Ach. *Graph*..... 2630  
 pezizoidea Ach. *Lecid*..... 2103  
 phæa Tuck. *Lecan*..... 1238  
 phæa Nyl. *Gyroph*..... 1046  
 phæa Ach. *Verruc*..... 3459  
 phæachroa Nyl. *Lecan*..... 1365  
 phæantha Nyl. *Lecan*..... 1220  
 phæocarpa Nyl. *Physc*..... 964  
 phæocarpodes Nyl. *Lecan*..... 1230  
 phæocephalum Borr. *Calic*..... 146  
 phæococca Tuck. *Pyrenops*..... 3619  
 phæomela Nyl. *Lecid*..... 2000  
 phæomelodes Nyl. *Trypeth*..... 3547  
 phæomma Nyl. *Lecid*..... 2107  
 phæonephela Nyl. *Arthon*..... 3071  
 phæophthalma Nyl. *Lecan*..... 1353  
 phæospila Nyl. *Verruc*..... 3375  
 phæosporellum Nyl. *Stigm*..... 2957  
 phæosporum Nyl. *Thelotr*..... 1793  
 phæostoma Nyl. *Lecid*..... 2263  
 phæothelium Nyl. *Trypeth*..... 3518  
 phalerata Ach. *Ramal*..... 427  
 phlæoleuca Nyl. *Lecan*..... 1460  
 phlogina Nyl. *Lecan*..... 1214  
*Phlyctæna* Fée *Trypeth*..... 3516  
 phlyctænula Nyl. *Pertus*..... 1666  
*phlyctænula* Nyl. *Trypeth*..... 3516  
**Phlyctella** Nyl..... 1811-1820  
*phlyctella* Nyl. *Platygr*..... 1811  
 phlyctideum Nyl. *Thelotr*..... 1735  
**Phlyctidia** Nyl..... 1809-1810  
**Phlyctis** Wallr..... 1809-1822  
 pholidota Nyl. *Pannar*..... 1060  
 pholidotoides Nyl. *Psorom*..... 1136  
 phycopsis Ach. *Roccel*..... 478  
 phylliscina Nyl. *Amphops*..... 3623  
**Phylliscum** Nyl..... 10-11  
 Phylliscum Nyl. *Lecan*..... 4511

<i>phyllobia</i> Nyl. <i>Opegr</i> .....	2867 et 2867 <sup>b</sup>	<i>planetocarpa</i> Leight. <i>Graph</i> .....	2574
<i>phyllocarpum</i> Nyl. <i>Leptog</i> .....	424	<i>planius</i> Nyl. <i>Thelotr</i> .....	4693
<i>phyllocarpus</i> Pers. <i>Lichen</i> .....	121	<i>planiuscula</i> Nyl. <i>Graph</i> .....	2632
<i>phyllochare</i> Spreng. <i>Stigmat</i> .....	3559	<i>planiuscula</i> Nyl. <i>Lecid</i> .....	1975
<i>phyllocharis</i> Mont. <i>Lecid</i> .....	2423	<i>planiuscula</i> Nyl. <i>Verruc</i> .....	3463
<i>phylloica</i> Nyl. <i>Arthon</i> .....	3084	<i>planorbella</i> Nyl. <i>Verruc</i> .....	3482
<i>phyllophora</i> Floerke <i>Cladon</i> .....	293 <sup>b</sup>	<i>planorbiculata</i> Nyl. <i>Verruc</i> .....	3467
<i>phyllosema</i> Nyl. <i>Platygr</i> .....	2918	<i>planorbis</i> Ach. <i>Verruc</i> .....	3462
<i>phyllostrata</i> Floerke <i>Cladon</i> .....	288 <sup>b</sup>	<i>platycarpa</i> Ach. <i>Lecid</i> .....	2317
<b>Physcia</b> Schreb.....	925-1007 et 3654	<i>platycarpa</i> Nyl. <i>Opegr</i> .....	2814
<i>physcioides</i> Nyl. <i>Parm</i> .....	694	<i>platycarpoides</i> Nyl. <i>Thelotr</i> .....	4771
<i>physciospora</i> Nyl. <i>Sticta</i> .....	853	<i>platycarpum</i> Dur. et Mont. <i>Collem</i> .....	55
<i>physodes</i> Ach. <i>Parm</i> .....	738 et 738 <sup>b</sup>	<i>platycarpum</i> Tuck. <i>Thelotr</i> .....	4770
<i>pichneoides</i> Nyl. <i>Leptog</i> .....	3629	<b>Platygrapha</b> Nyl.....	2894-2934
<i>pichneum</i> Ach. <i>Leptog</i> .....	400 et 400 <sup>b</sup>	<i>platygraphella</i> Nyl. <i>Arthon</i> .....	3094
<i>picina</i> Nyl. <i>Synalissops</i> .....	3687	<i>platygraphidea</i> Nyl. <i>Arthon</i> .....	3047
<i>picinum</i> Nyl. <i>Collem</i> .....	3687	<i>platygraphoides</i> Nyl. <i>Lecan</i> .....	1537
<i>picta</i> Eschw. <i>Opegr</i> .....	2836	<i>platyleuca</i> Nyl. <i>Graph</i> .....	2725
<i>picta</i> Nyl. <i>Physc</i> .....	4004 et 4004 <sup>b</sup>	<i>platyloba</i> Nyl. <i>Ricasol</i> .....	870
<i>pictus</i> Sw. <i>Lichen</i> .....	4004	<i>platyna</i> Nyl. <i>Cetr</i> .....	517
<i>Pilati</i> Hepp <i>Lecid</i> .....	2316	<i>platyna</i> Nyl. <i>Ramal</i> .....	430
<i>pileata</i> Mont. <i>Cladon</i> .....	335	<i>platyphylla</i> Ach. <i>Parm</i> .....	738
<i>pileolata</i> Nyl. <i>Cladon</i> .....	3689	<i>platyphylla</i> Nyl. <i>Sticta</i> .....	834
<b>Pilophoron</b> Tuck.....	270-272 et 3636	<i>platyphylloides</i> Nyl. <i>Sticta</i> .....	832
<i>pilosella</i> Nyl. <i>Stictina</i> .....	789	<b>Platysma</b> Hoffm.....	525-555
<i>pilulifera</i> Pers. <i>Lecan</i> .....	4564	<i>platysmoides</i> Nyl. <i>Parm</i> .....	599 <sup>b</sup>
<i>piluliferum</i> Fr. <i>Stereocaul</i> .....	242	<i>platyspilea</i> Nyl. <i>Arthon</i> .....	2995
<i>Pinastri</i> Nyl. <i>Platysm</i> .....	551 et 551 <sup>b</sup>	<i>platystomum</i> Mont. <i>Thelotr</i> .....	4722
<i>Pineti</i> Ach. <i>Lecid</i> .....	4865	<i>platystomum</i> Mont. <i>Trypeth</i> .....	3537
<i>pinguis</i> Nyl. <i>Verruc</i> .....	3375	<i>Plectocarpon</i> Fée.....	842
<i>pinguiscula</i> Del. <i>Lecan</i> .....	4535	<i>pleiomerera</i> Nyl. <i>Verruc</i> .....	3404
<i>Piperis</i> Spr. <i>Lecid</i> .....	4933	<i>pleiomerella</i> Nyl. <i>Verruc</i> .....	3385
<i>Pisacomense</i> Mey. et Flot. <i>Omphalod</i> .....	736	<i>pleiomeroides</i> Nyl. <i>Verruc</i> .....	3383
<i>Pisacomensis</i> Nyl. <i>Parm</i> .....	736	<i>pleiophoroides</i> Nyl. <i>Lecid</i> .....	2488
<i>pityrea</i> Floerke <i>Cladon</i> .....	280	<i>pleistophragmia</i> Nyl. <i>Lecid</i> .....	2152
<i>pityrea</i> Nyl. <i>Physc</i> .....	983	<i>pleistophragmoides</i> Nyl. <i>Lecid</i> .....	2214
<i>pityreus</i> Ach. <i>Lichen</i> .....	983	<i>pleolepis</i> Ach. <i>Cladon</i> .....	301
<i>pityrizans</i> Nyl. <i>Stereocaul</i> .....	230	<i>pleurocarpa</i> Ach. <i>Sticta</i> .....	842
<i>pityrophylla</i> Nyl. <i>Cladon</i> .....	336	<i>pleurota</i> Floerke <i>Cladon</i> .....	340
<i>placenta</i> Ehrenb. <i>Lecan</i> .....	4519	<i>plicata</i> Nyl. <i>Platygr</i> .....	2899
<i>placodina</i> Nyl. <i>Lecid</i> .....	2275	<i>plicata</i> Hoffm. <i>Usnea</i> .....	499
<i>placodiopsis</i> Nyl. <i>Pannar</i> .....	4067	<i>plicatile</i> Nyl. <i>Collem</i> .....	85
<b>Placodium</b> DC.....	4444-4473	<i>plicatissimum</i> Nyl. <i>Anema</i> .....	33
<i>placodizans</i> Nyl. <i>Lecan</i> .....	4260	<i>plinthiza</i> Nyl. <i>Physc</i> .....	1003
<i>placophyllus</i> Ach. <i>Bæom</i> .....	497	<i>plumbea</i> Nyl. <i>Coccocarp</i> .....	1090
<b>Placopsis</b> Nyl.....	4316-4326	<i>plumbea</i> Del. <i>Sticta</i> .....	830
<i>placorodia</i> Nyl. <i>Parm</i> .....	760	<i>plumbeum</i> Mont. <i>Nephrom</i> .....	893
<i>placorodioides</i> Nyl. <i>Parm</i> .....	744	<i>plumbeus</i> Lightf. <i>Lichen</i> .....	4090
<i>placynthium</i> Dur. <i>Collem</i> .....	35	<i>plumosa</i> Tayl. <i>Parm</i> .....	1004
<i>plagiocarpa</i> Fée <i>Graph</i> .....	2556	<i>plurifarium</i> Nyl. <i>Thelotr</i> .....	4678
<i>plana</i> Lahm <i>Lecid</i> .....	2343	<i>plurifera</i> Nyl. <i>Graph</i> .....	2649
<i>planata</i> Ach. <i>Graph</i> .....	2637	<i>plurifera</i> Nyl. <i>Lecid</i> .....	2429
<i>planella</i> Nyl. <i>Lecid</i> .....	4998	<i>pluriformis</i> Nyl. <i>Parm</i> .....	627
<i>planescens</i> Nyl. <i>Heppia</i> .....	4108	<i>plurilocularis</i> Nyl. <i>Lecid</i> .....	2403 et 2403 <sup>b</sup>



Pocillum Nyl. <i>Cladon</i> .....	278	porinoides Nyl. <i>Verruc</i> .....	3382
podocarpa Nyl. <i>Physc</i> .....	946	porinopsis Nyl. <i>Verruc</i> .....	3349
podocarpoides Nyl. <i>Physc</i> .....	947	<b>Porinula</b> Nyl.....	3289-3334
Poepigii Nyl. <i>Chlorca</i> .....	487	porosum Ach. <i>Trypeth</i> .....	3534
poetarum de Notar. <i>Opegr</i> .....	3139	porosum Fée <i>Trypeth</i> .....	3523
Poitæi Fée <i>Graph</i> .....	2728	porphyritis Tuck. <i>Biatora</i> .....	2094
Poitæoides Nyl. <i>Graph</i> .....	2729 et 2729 <sup>b</sup>	porrigens Nyl. <i>Graph</i> .....	2782
poliotera Nyl. <i>Lecan</i> .....	4222	posthabita Nyl. <i>Lecid</i> .....	2479
pollinaria Ach. <i>Ramal</i> .....	448	postpositum Nyl. <i>Ascid</i> .....	4802 et 4758
pollinariella Nyl. <i>Ramal</i> .....	467	postuma Nyl. <i>Lecid</i> .....	2523
pollinarius L. Lichen.....	448	præbadia Nyl. <i>Lecid</i> .....	2508
polycampia Nyl. <i>Lecid</i> .....	1920	præcedens Nyl. <i>Calic</i> .....	459
polycarpa Muell. <i>Graph</i> .....	2587 <sup>b</sup>	prædolosa Nyl. <i>Lecan</i> .....	1453
polycarpa Floerke <i>Lecid</i> .....	2336	præferenda Nyl. <i>Lecan</i> .....	1362
polycarpa Tayl. <i>Parm</i> .....	700	præfinita Nyl. <i>Lecan</i> .....	1303
polycarpa Nyl. <i>Physc</i> .....	936 et 937	prægranifera Nyl. <i>Lecan</i> .....	1398
polycarpa Mont. <i>Ramal</i> .....	435	præmicans Nyl. <i>Lecan</i> .....	1225
polycarpum Fée <i>Erioderm</i> .....	1104	prænolata Nyl. <i>Lecid</i> .....	2284 et 2280 <sup>b</sup>
polycarpum Tuck. <i>Piloph</i> .....	270	præpallens Nyl. <i>Stigmat</i> .....	2935
polycarpus Ehrh. Lichen.....	936	præperlata Nyl. <i>Parm</i> .....	607
polycocca Nyl. <i>Pyrenops</i> .....	20 <sup>b</sup>	præsignis Nyl. <i>Parm</i> .....	626
polycocca Nyl. <i>Synal</i> .....	20	præsoresiosa Nyl. <i>Parm</i> .....	3642
polydactyla Floerke <i>Cladon</i> .....	348	præspersa Nyl. <i>Lecid</i> .....	2249
polydactyla Hoffm. <i>Peltig</i> .....	906	præstans Nyl. <i>Verruc</i> .....	3308
polydactyloides Nyl. <i>Cladon</i> .....	346	prævalescens Nyl. <i>Verruc</i> .....	3244
polydactyloides Nyl. <i>Peltig</i> .....	897	prævia Nyl. <i>Verruc</i> .....	3277
polydactylus Neck. Lichen.....	906	prasino-rubella Nyl. <i>Lecid</i> .....	2089
polyglossa Nyl. <i>Omphal</i> .....	28	premnea Ach. <i>Lecid</i> .....	2400, 2400 <sup>b</sup> et 2403
polygramma Nyl. <i>Arthon</i> .....	3008	premnea Mont. <i>Lecid</i> .....	2476
polymorpha Ach. <i>Arthon</i> .....	3055	Prevostianum Mont. <i>Thelotr</i> .....	4792
polymorpha Eschw. <i>Arthon</i> .....	3046	Prevostii Nyl. <i>Lecan</i> .....	1499
polymorpha Nyl. <i>Arthon</i> .....	3056	primana Nyl. <i>Opegr</i> .....	2823
polymorpha Ach. <i>Ramal</i> .....	447	Pringlei Tuck. <i>Lecid</i> .....	2278
polymorpha Nyl. <i>Thelogr</i> .....	2808	proboscidea Ach. <i>Gyroph</i> .....	4039
polymorphoides Nyl. <i>Arthon</i> .....	3060	proboscidina Nyl. <i>Lecid</i> .....	1867 et 1867 <sup>b</sup>
polytæna Ach. <i>Lecid</i> .....	1239	proferens Nyl. <i>Lecid</i> .....	2023
polyphragmia Nyl. <i>Platygr</i> .....	1819	prolifera Nyl. <i>Panmar</i> .....	1059
polyphylla Mont. <i>Cladon</i> .....	334	prolificans Nyl. <i>Sticta</i> .....	858
polyphylla Nyl. <i>Coccocarp</i> .....	1091	prolixa Ach. <i>Alect</i> .....	3639
polyphylla Turn. et Borr. <i>Gyroph</i> .....	1049	prolixa Ach. <i>Parm</i> .....	722
polyphyllus L. Lichen.....	1049	prolixula Nyl. <i>Parm</i> .....	734
polyrrhiza Nyl. <i>Gyroph</i> .....	1050	prominula Nyl. <i>Platygr</i> .....	2922
polyrrhizas L. Lichen.....	1050	prominula Nyl. <i>Verruc</i> .....	3281
polyschides Nyl. <i>Collem</i> .....	79	promiscens Nyl. <i>Lecid</i> .....	2337
polysemum Nyl. <i>Parathel</i> .....	3354	propaginea Tayl. <i>Sticta</i> .....	833
polyspora Tuck. <i>Heppia</i> .....	4415	propinqua Nyl. <i>Arthon</i> .....	3068
<b>Polystroma</b> Clem.....	1808	propinqua Muell. <i>Pertus</i> .....	4606
polytropa Nyl. <i>Lecan</i> .....	1427	propinquella Nyl. <i>Lecid</i> .....	2472
polytropella Nyl. <i>Lecan</i> .....	1427	propior Nyl. <i>Lecan</i> .....	1254
polytropus Ehrh. Lichen.....	1427	proponens Nyl. <i>Verruc</i> .....	3348
porcellaneum Nyl. <i>Derma</i> .....	2490	proposita Nyl. <i>Lecid</i> .....	2141
porinella Nyl. <i>Pertus</i> .....	1593	prosecha Ach. <i>Lecan</i> .....	1350
porinoides Mont. <i>Thelotr</i> .....	4691	prosechoidiza Nyl. <i>Lecan</i> .....	1443
porinoides Mont. <i>Verruc</i> .....	3446	proserpens Nyl. <i>Lecan</i> .....	1470

<i>prosiliens</i> Fée <i>Opegr.</i> .....	2596	<i>pulposulum</i> Nyl. <i>Collem.</i> .....	52
<i>prosodea</i> Ach. <i>Opegr.</i> .....	2868 et 2868 <sup>b</sup>	<i>pulverea</i> Borr. <i>Lecid.</i> .....	2440
<i>prosodea</i> Mont. <i>Opegr.</i> .....	2836	<i>pulverulenta</i> Ach. <i>Graph.</i> .....	2557
<i>prospersa</i> Nyl. <i>Lecid.</i> .....	2437	<i>pulverulenta</i> Nyl. <i>Graph.</i> .....	2620
<i>prospersella</i> Nyl. <i>Verruc.</i> .....	3484	<i>pulverulenta</i> Leight. <i>Graph.</i> .....	2580
<i>prostans</i> Mont. <i>Verruc.</i> .....	3464	<i>pulverulenta</i> Tayl. <i>Peltig.</i> .....	903
<i>protensa</i> Nyl. <i>Ramal.</i> .....	428	<i>pulverulenta</i> Nyl. <i>Peltig.</i> .....	904
<i>protrudens</i> Nyl. <i>Tyloph.</i> .....	176	<i>pulverulenta</i> Fr. <i>Physc.</i> .....	983
<i>proximans</i> Nyl. <i>Lecid.</i> .....	2399	<i>pulverulentus</i> Schreb. <i>Lichen.</i> .....	983
<i>proximata</i> Nyl. <i>Lecid.</i> .....	2404	<i>pulvinata</i> Nyl. <i>Omphal.</i> .....	23
<i>proximum</i> Nyl. <i>Stereocaul.</i> .....	237 et 237 <sup>b</sup>	<i>pulvinata</i> Nyl. <i>Parm.</i> .....	689
<i>pruinosa</i> Ach. <i>Arthon.</i> .....	3007	<i>pulvinatum</i> Nyl. <i>Collem.</i> .....	52
<i>pruinosa</i> Nyl. <i>Graph.</i> .....	2632	<i>pulvinatum</i> Schær. <i>Collem.</i> .....	23
<i>pruinosa</i> Nyl. <i>Lecan.</i> .....	1526	<i>pulvinatum</i> Ach. <i>Leptog.</i> .....	92
<i>pruinosa</i> Krempelh. <i>Pertus.</i> .....	1601	<i>pulvinatum</i> Mont. <i>Leptog.</i> .....	100
<i>pruinosa</i> Mont. <i>Nephroma.</i> .....	918	<i>pulvinatum</i> Nyl. <i>Stereocaul.</i> .....	238
<i>pruinosa</i> Nyl. <i>Arthon.</i> .....	3073	<i>pulvinatus</i> de Brebiss. <i>Sirosiph.</i> .....	3616
<i>pruinosum</i> Eschw. <i>Leiogram.</i> .....	2632	<i>pumicicola</i> Nyl. <i>Lecan.</i> .....	1350
<i>pruinosus</i> Sm. <i>Lichen.</i> .....	1526	<i>pumila</i> Nyl. <i>Cladina.</i> .....	366
<i>Prunastri</i> Ach. <i>Evern.</i> .....	572	<i>pumila</i> Mont. <i>Ramal.</i> .....	469
<i>psammophila</i> Nyl. <i>Heppia.</i> .....	1114	<i>punctata</i> Nyl. <i>Pertus.</i> .....	1584
<i>psaroleuca</i> Nyl. <i>Platygr.</i> .....	2904	<i>punctella</i> Nyl. <i>Pertus.</i> .....	1564
<i>psaromela</i> Nyl. <i>Lecan.</i> .....	1314	<i>punctella</i> Nyl. <i>Verruc.</i> .....	3388
<i>psathyra</i> Tuck. <i>Physc.</i> .....	958	<i>punctiformis</i> Ach. <i>Arthon.</i> .....	3101
<i>psephota</i> Tuck. <i>Lecid.</i> .....	2319	<i>punctiformis</i> Nyl. <i>Graph.</i> .....	2628
<i>pseudophana</i> Nyl. <i>Lecid.</i> .....	2188	<i>punctiformis</i> Nyl. <i>Lecid.</i> .....	2419
<i>pseudophlyctis</i> Nyl. <i>Graph.</i> .....	2722	<i>punctiformis</i> Ach. <i>Verruc.</i> .....	3480
<i>pseudosticta</i> Fée <i>Sticta.</i> .....	859	<i>punctillata</i> Nyl. <i>Verruc.</i> .....	3334
<i>psorina</i> Nyl. <i>Lecid.</i> .....	2156	<i>punctulata</i> Nyl. <i>Sticta.</i> .....	855
<i>psoroleuca</i> Nyl. <i>Platygr.</i> .....	2904	<i>punctulatum</i> Nyl. <i>Leptog.</i> .....	111
<b>Psoroma</b> Nyl. ....	1122-1140	<i>punctulatum</i> Nyl. <i>Thelotr.</i> .....	1781
<b>Psoromaria</b> Nyl. ....	1141-1142	<i>punctuliformis</i> Nyl. <i>Lecid.</i> .....	2392
<b>Psoromopsis</b> Nyl. ....	764	<b>Punctum</b> Nyl. <i>Graph.</i> .....	2789
<b>Psoropsis</b> Nyl. ....	3687	<i>pungens</i> Nyl. <i>Cladon.</i> .....	321
<i>pterophorum</i> Nyl. <i>Chiodect.</i> .....	3160	<i>punicea</i> Ach. <i>Lecan.</i> .....	1546 et 1546 <sup>b</sup>
<i>pterulina</i> Nyl. <i>Lecan.</i> .....	1455	<i>pupula</i> Nyl. <i>Verruc.</i> .....	3416
<i>pteruloides</i> Nyl. <i>Siph.</i> .....	210	<i>purior</i> Nyl. <i>Lecid.</i> .....	2447
<b>Pterygium</b> Nyl. ....	14-15	<i>purpurissata</i> Nyl. <i>Arthon.</i> .....	3031
<i>ptychophora</i> Nyl. <i>Gyroph.</i> .....	1028	<i>pusilla</i> Le Prév. <i>Ramal.</i> .....	461 et 461 <sup>b</sup>
<i>pubera</i> Nyl. <i>Physc.</i> .....	935	<i>pusilla</i> Meissn. <i>Sticta.</i> .....	810
<i>pubescens</i> Fr. <i>Ephebe.</i> .....	6	<i>pusillum</i> Floerke <i>Calic.</i> .....	156
<i>pubescens</i> Nyl. <i>Sticta.</i> .....	839	<i>pustulata</i> Nyl. <i>Pertus.</i> .....	1583
<i>Puiggarii</i> Nyl. <i>Lecid.</i> .....	2199	<i>pustulata</i> Hoffm. <i>Umbilic.</i> .....	1016
<i>pulchella</i> Schw. <i>Cladon.</i> .....	349	<i>pustulatum</i> Nyl. <i>Collem.</i> .....	48
<i>pulchella</i> Nyl. <i>Normand.</i> .....	3191	<i>pustulatus</i> L. <i>Lichen.</i> .....	1016
<i>pulchellum</i> Nyl. <i>Leptog.</i> .....	97	<i>pyncocarpa</i> Nyl. <i>Pertus.</i> .....	1603
<i>pulcherrimum</i> Fée <i>Trypeth.</i> .....	3523	<i>pyncocarpum</i> Nyl. <i>Collem.</i> .....	73
<i>pulchra</i> Nyl. <i>Lecid.</i> .....	1864	<i>pyncocarpum</i> Nyl. <i>Mycop.</i> .....	3600
<i>pulcaris</i> Nyl. <i>Opegr.</i> .....	2819	<i>pyncoclada</i> Nyl. <i>Cladina.</i> .....	366 et 367
<i>pulicosa</i> Nyl. <i>Arthon.</i> .....	3002	<i>pyncophora</i> Nyl. <i>Pertus.</i> .....	1649
<i>pullata</i> Fée <i>Paulia.</i> .....	21	<i>pyncophorum</i> Nyl. <i>Leioderm.</i> .....	1100
<i>pulmonacea</i> Nyl. <i>Lobaria.</i> .....	812	<i>pyncophragmium</i> Nyl. <i>Thelotr.</i> .....	1725 et 1725 <sup>b</sup>
<i>pulmonarius</i> L. <i>Lichen.</i> .....	812	<i>pyncoporellum</i> Nyl. <i>Thelotr.</i> .....	1718
<i>pulposum</i> Ach. <i>Collem.</i> .....	51	<i>pyncosema</i> Nyl. <i>Lecid.</i> .....	2276

- Pycnothelia** Duf. .... 384 et 3690  
 pycnothelia Nyl. *Pertus*. .... 4594  
 pycnotheliza Nyl. *Lecid.*. .... 2337  
 pygmæa Ag. *Lichina*. .... 12  
*pygmæa* Nyl. *Physc.*. .... 937  
 pygmæa de Notar. *Roccel.*. .... 478  
 pyracea Nyl. *Lecan.*. .... 1200  
 pyrenastræum Nyl. *Astrothel.*. .... 3575  
 pyrenastroides Nyl. *Astroth.*. .... 3589  
 pyreniospora Nyl. *Lecan.*. .... 1305  
 pyrenoides Nyl. *Omphal.*. .... 29  
 pyrenophora Ach. *Verruc.*. .... 3240  
**Pyrenopsis** Nyl. .... 4-5 et 3617-3622  
*Pyrenothamnia* Tuck. .... 3218  
 pyrenuloides Nyl. *Verruc.*. .... 3363  
*pyrenuloides* Fée *Verruc.*. .... 3430  
**Pyrgidium** Nyl. .... 175  
**Pyrgillus** Nyl. .... 171-174  
 pyrinoïca Nyl. *Verruc.*. .... 3350  
 pyrithroma Nyl. *Lecan.*. .... 1200  
*pyrophthalma* Mont. *Biat.*. .... 1866  
 pyrophthalma Nyl. *Lecid.*. .... 2010  
 pyropæcila Nyl. *Lecan.*. .... 1240  
 pyrrhomelæna Tuck. *Biat.*. .... 1912  
 pyrrhula Nyl. *Arthon.*. .... 2967  
 pyrrhuliza Nyl. *Arthon.*. .... 2968  
 pyxidata Fr. *Cladon.*. .... 278  
**Pyxine** Nyl. .... 1008-1015  
 pyxinoides Nyl. *Crocyn.*. .... 3660  
 pyxinoides Nyl. *Psoroma.*. .... 1123
- Q**
- quadrilocularis Nyl. *Lecan.*. .... 1247  
 quadrifera Nyl. *Graph.*. .... 2650  
 quadruplans Nyl. *Lecan.*. .... 1501  
 quartans Nyl. *Pertus.*. .... 1617  
**Quassia** Nyl. *Pertus.*. .... 1608  
*quassiæcola* Fée *Trypeth.*. .... 3519  
 quassiæcola Nyl. *Verruc.*. .... 3375  
 quassiæcola Nyl. *Stigmat.*. .... 2953  
*quassicolum* Nyl. *Stigmat.*. .... 2953  
 quaternella Nyl. *Opegr.*. .... 2833  
*quercifolia* Tayl. *Sticta.*. .... 855  
 quercinum Pers. *Calic.*. .... 152  
 quercizans Nyl. *Stictina.*. .... 794  
 querneæ Ach. *Lecid.*. .... 1931  
 quinque-septata Nyl. *Verruc.*. .... 3493  
 quinque-septatula Nyl. *Verruc.*. .... 3494  
 Quintana Henriq. *Lecan.*. .... 1277  
 quintaria Nyl. *Arthon.*. .... 3079  
 quintaria Nyl. *Verruc.*. .... 3295  
 quitoënsis Fée *Thelotr.*. .... 1778
- R**
- racemosa Hoffm. *Cladon.*. .... 316 et 316<sup>b</sup>  
 radiata Ach. *Arthon.*. .... 3076  
 radiata Fr. *Cladon.*. .... 287  
 radiata Nyl. *Graph.*. .... 2750  
 radiata Nyl. *Pannar.*. .... 1057  
 radiata Ach. *Physc.*. .... 966  
 radicans Nyl. *Lecan.*. .... 1507  
 radicata Nyl. *Peltula.*. .... 1120  
*radomma* Nyl. *Lecid.*. .... 2546  
**Ramalea** Nyl. .... 387  
**Ramalina** Ach. .... 388-473  
 ramalinellus Nyl. *Bæom.*. .... 191  
 ramalinoides Nyl. *Siph.*. .... 211  
**Ramalodium** Nyl. .... 84  
 ramealis Nyl. *Parm.*. .... 580  
 rameum Nyl. *Nephromium.*. .... 888<sup>b</sup>  
 ramosa Nyl. *Cladon.*. .... 301  
 ramosa Nyl. *Graph.*. .... 2671  
 ramosula Nyl. *Arthon.*. .... 3086  
 ramulosa Hook. *Dufour.*. .... 570  
 ramulosa Th. Fr. *Lecid.*. .... 1965  
 ramulosum Ach. *Stereocaul.*. .... 232 et 232<sup>b</sup>  
*ramulosus* Sw. *Lichen.*. .... 240  
 rangiferina Nyl. *Cladina.*. .... 363 et 363<sup>b</sup>  
*rangiferinus* L. *Lichen.*. .... 363  
*Ravenelii* Nyl. *Ricasol.*. .... 884  
 Ravenelii Tuck. *Thelotr.*. .... 1790  
 recedens Nyl. *Lecid.*. .... 2374  
 recipienda Nyl. *Parm.*. .... 598  
 reclusum Krempelh. *Thelotr.*. .... 1750  
 recta Nyl. *Graph.*. .... 2557 et 2572  
 rectangularis Nyl. *Ramal.*. .... 410  
 rectiuscula Nyl. *Graph.*. .... 2572  
 reducens Nyl. *Parm.*. .... 690  
 reducta Nyl. *Graph.*. .... 2753  
 redundans Nyl. *Collem.*. .... 78  
 refecta Nyl. *Lecan.*. .... 1217  
 reflectens Nyl. *Dichod.*. .... 82  
 relicina Fr. *Parm.*. .... 680  
 relicinella Nyl. *Parm.*. .... 682  
 remanens Nyl. *Thelotr.*. .... 1687  
 reniformis Fée *Graph.*. .... 2724  
 repanda Nyl. *Dirina.*. .... 1554  
 reptilis Nyl. *Graph.*. .... 2591  
 resupinans Nyl. *Leptog.*. .... 117  
*resupinatum* Ach. *Nephroma.*. .... 888



<i>reticulata</i> Nyl. <i>Gyroph.</i> .....	1023	<i>rimata</i> Nyl. <i>Platygr.</i> .....	2928
<i>reticulata</i> Nyl. <i>Heppia.</i> .....	1109	<i>rimatum</i> Flot. Schismat.....	2928
<i>reticulata</i> Nees Parm.....	715	<i>rimulata</i> Nyl. <i>Lecid.</i> .....	2444
<i>reticulata</i> Nyl. <i>Ramal.</i> .....	413	<i>rimulosa</i> Mont. Graph.....	2620
<i>reticulatum</i> Duf. Endocarp.....	1109	<i>rinodinea</i> Mass. Buell.....	2447
<i>reticulatum</i> Mont. <i>Leptog.</i> .....	99	<i>rinodinoides</i> Anzi Buellia.....	2446
<i>reticulatus</i> Noehd. Lichen.....	413	<i>riparia</i> Nyl. <i>Verruc.</i> .....	3279
<i>retiformis</i> Menz. Ramal.....	413	<i>Roboris</i> Duf. <i>Lecan.</i> .....	1284
<i>retigera</i> Nyl. <i>Lobarina.</i> .....	767 et 767 <sup>b</sup>	<i>robustellum</i> Nyl. <i>Calic.</i> .....	147
<i>retipora</i> Nyl. <i>Cladia.</i> .....	383	<i>robustula</i> Nyl. <i>Opegr.</i> .....	2876
<i>retirugella</i> Nyl. <i>Pyxne.</i> .....	1014	<i>robustum</i> Nyl. Piloph.....	270
<i>retracta</i> Nyl. <i>Verruc.</i> .....	3386	<i>robustus</i> Th. Fr. Pilophorus.....	270
<i>reveniens</i> Nyl. <i>Lecid.</i> .....	2122	<b>Roccella</b> DC.....	475-483
<i>revoluta</i> Nyl. <i>Parm.</i> .....	670	<i>rocellæformis</i> Nyl. <i>Siph.</i> .....	220
<i>revolutella</i> Nyl. <i>Parm.</i> .....	671	<i>rocelloides</i> Th. Fr. Stereocaul.....	240
<i>rhabdosporum</i> Nyl. <i>Ascid.</i> .....	1801	<i>Rodriguesii</i> Cromb. <i>Heppia.</i> .....	1117
<i>rhabdotis</i> Fée Graph.....	2620	<i>roridula</i> Nyl. <i>Lecid.</i> .....	2519
<i>rhætica</i> Hepp <i>Lecan.</i> .....	1488	<i>roridulum</i> Th. Fr. Rhizocarp.....	2519
<i>rhagadiosa</i> Nyl. <i>Glyphol.</i> .....	1553	<i>rosella</i> Ach. <i>Lecid.</i> .....	2132
<i>rhagadoplaca</i> Nyl. <i>Pertus.</i> .....	1578	<i>rosella</i> Nyl. <i>Physc.</i> .....	960
<i>rhapsidiophora</i> Nyl. <i>Verruc.</i> .....	3505	<i>rosello-carnea</i> Nyl. <i>Lecid.</i> .....	2137
<i>raphispora</i> Knight <i>Verruc.</i> .....	3297	<i>rosello-pallida</i> Nyl. <i>Lecid.</i> .....	2189
<i>Rhemica</i> Nyl. <i>Psorops.</i> .....	3687	<i>rosello-tincta</i> Nyl. <i>Lecid.</i> .....	2454
<i>rhexoblephara</i> Nyl. <i>Lecid.</i> .....	2397	<i>rosellus</i> Pers. Lichen.....	2132
<i>rhexostoma</i> Nyl. <i>Pertus.</i> .....	1600	<i>roseus</i> Pers. <i>Bæom.</i> .....	195 et 195 <sup>b</sup>
<i>rhizocola</i> Fée Graph.....	2572	<i>rosulata</i> Ach. <i>Physc.</i> .....	966
<i>rhodiza</i> Nyl. <i>Pertus.</i> .....	1605	<i>Rotula</i> Nyl. <i>Platygr.</i> .....	2917
<i>rhodocarpa</i> Nyl. <i>Lecan.</i> .....	1319	<i>rubella</i> Nyl. <i>Arthon.</i> .....	2971
<i>rhodoleuca</i> Th. Fr. <i>Pertus.</i> .....	1645	<i>rubella</i> Hook. et Tayl. <i>Sticta.</i> .....	845
<i>rhodomma</i> Nyl. <i>Lecan.</i> .....	1320	<i>rubello-virens</i> Nyl. <i>Lecid.</i> .....	3668
<i>rhodopis</i> Nyl. <i>Lecan.</i> .....	1483	<i>rubellula</i> Nyl. <i>Lecid.</i> .....	2160
<i>rhodopis</i> Tuck. Biat.....	1933	<i>rubicola</i> Crouan <i>Lecid.</i> .....	2034
<i>rhodopiza</i> Nyl. <i>Lecan.</i> .....	1486	<i>rubidula</i> Nyl. <i>Lecid.</i> .....	2287
<i>rhodostoma</i> Mont. <i>Ascid.</i> .....	1796	<i>rubiformis</i> Wahl. <i>Lecid.</i> .....	1873
<i>rhodostoma</i> Nyl. <i>Pertus.</i> .....	1628	<i>rubiginascens</i> Nyl. <i>Pannul.</i> .....	1073
<i>rhypariza</i> Nyl. <i>Lecan.</i> .....	1543	<i>rubiginosa</i> Del. <i>Pannar.</i> .....	1057
<i>rhyparobola</i> Nyl. <i>Lecid.</i> .....	2071	<i>rubiginosa</i> Nyl. <i>Pannar.</i> .....	1058
<i>rhyponta</i> Ach. <i>Verruc.</i> .....	3491	<i>rubiginosa</i> Pers. <i>Umbilic.</i> .....	1021
<i>rhytidocarpa</i> Mont. Cetrar.....	529	<i>rubiginosa</i> Mont. <i>Usnea.</i> .....	506
<i>rhytidocarpum</i> Nyl. <i>Platysm.</i> .....	529	<i>rubiginosum</i> Pers. Stereocaul.....	240
<b>Ricasolia</b> Nyl.....	864-887 et 3652	<i>rubiginosus</i> Thunb. Lichen.....	1057
<i>ricasolioides</i> Nyl. <i>Parm.</i> .....	630	<i>rubra</i> Ach. <i>Lecan.</i> .....	1541
<i>Richardi</i> Nyl. <i>Sticta.</i> .....	851	<i>rubro-cinctum</i> Nyl. <i>Chiodect.</i> .....	3164
<i>Richardi</i> Bab. <i>Sticta.</i> .....	851	<i>rubro-cinctus</i> Ehrenb. Lichen.....	3164
<i>Richardi</i> Mont. <i>Sticta.</i> .....	849 et 851	<i>rudecta</i> Ach. <i>Parm.</i> .....	674
<i>Richardsoni</i> Hook. Cetrar.....	541	<i>ruderella</i> Nyl. <i>Verruc.</i> .....	3284
<i>Richardsonii</i> Nyl. <i>Platysm.</i> .....	541	<i>rudescens</i> Nyl. <i>Graph.</i> .....	2589
<i>rigens</i> Nyl. <i>Collemod.</i> .....	88	<i>rudior</i> Nyl. <i>Parm.</i> .....	625
<i>rigida</i> Tayl. <i>Cladon.</i> .....	332	<i>rudiuscula</i> Nyl. <i>Verruc.</i> .....	3329
<i>rigida</i> Nyl. <i>Cladon.</i> .....	348	<i>rufa</i> Nyl. <i>Sticta.</i> .....	817
<i>rigida</i> Nyl. <i>Graph.</i> .....	2596	<i>rufa</i> Pers. <i>Stictis.</i> .....	2554
<i>rigida</i> Nyl. <i>Ramal.</i> .....	395	<i>rufella</i> Nyl. <i>Arthon.</i> .....	2971
<i>rigidula</i> Nyl. <i>Stictina.</i> .....	768	<i>rufescens</i> Ach. <i>Endocarp.</i> .....	3202
<i>rigidus</i> Pers. Lichen.....	395	<i>rufescens</i> Nyl. <i>Lecan.</i> .....	1524

- rufescens* Hoffm. *Peltig*..... 901 et 901<sup>b</sup>  
*rufidula* Fée *Lecan*..... 1547  
*rufo-fuscella* Nyl. *Lecid*..... 1956  
*rufo-nigra* Tuck. *Lecid*..... 1877  
*rufo-pallens* Nyl. *Endocarp*..... 3203  
*rufo-pallens* Nyl. *Lecan*..... 1546  
*rufula* Mont. *Graph*..... 2695  
*rufum* Fr. *Agyp*..... 2554  
*rufum* Nyl. *Nephromium*..... 889  
*rufus* Ach. *Bæom*..... 488  
*rugatulum* Nyl. *Thelotr*..... 1747  
*rugifera* Nyl. *Gyroph*..... 1026  
*ruginosum* Duf. *Collem*..... 118  
*rugosa* Fée *Arthon*..... 3049  
*rugosa* Ach. *Lecan*..... 1361  
*rugosula* Nyl. *Lecan*..... 1164  
*rugosutum* Nyl. *Placod*..... 1164  
*rugosus* Pers. *Lichen*..... 1361  
*rugulosum* Nyl. *Leptog*..... 400  
*Ruiziana* Fée *Graph*..... 2556  
*rupestris* Nyl. *Lecan*..... 1200  
*rupestris* Schrad. *Verruc*..... 3271  
*rupicola* Nyl. *Pertus*..... 1622 et 1622<sup>b</sup>  
*ruptum* Nyl. *Thelotr*..... 1776  
*Russelii* Tuck. *Parm*..... 1053  
*russeola* Nyl. *Lecan*..... 1190  
*russula* Ach. *Lecid*..... 1922  
*ryssolea* Nyl. *Parm*..... 726
- S**
- sabuletorum* Floerke *Lecid*..... 2066 et 2066<sup>b</sup>  
*saccata* Ach. *Solorina*..... 922  
*saccatiloba* Tayl. *Parm*..... 614  
*saccatus* L. *Lichen*..... 922  
*sæpincola* Ach. *Lecan*..... 1413  
*sæpincola* Hoffm. *Platysm*..... 544 et 544<sup>b</sup>  
*sæpincolum* Nyl. *Platysm*..... 544  
*salazinum* Bory *Stereocaul*..... 229  
*Salzmanni* Nyl. *Cladina*..... 372  
*Sancti-Jacobi* Nyl. *Trachyl*..... 3633  
*sandwichiana* Pers. *Parm*..... 1056  
*sanguinaria* Ach. *Lecid*..... 2381  
*sanguinariella* Nyl. *Lecid*..... 2471  
*sanguinea* Will. *Arthon*..... 3016  
*sanguinea* Tuck. *Cladon*..... 338  
*sanguineo-ater* Wulf. *Lichen*..... 1974  
*sanguineo-atra* Nyl. *Lecid*..... 1974  
*Santensis* Tuck. *Cladon*..... 312  
*Santensis* Tuck. *Lecid*..... 1892  
*Santensis* Tuck. *Verruc*..... 3372  
*Santensis* Nyl. *Verruc*..... 3400  
**Sarcogyne** Nyl..... 1526-1530  
*sarcopis* Nyl. *Lecan*..... 1433  
*sarcoptella* Nyl. *Lecan*..... 1434  
**Sarcopyrenia** Nyl..... 3566  
*sarmentosa* Ach. *Alect*..... 568 et 568<sup>b</sup>  
*saturninum* Nyl. *Leptog*..... 413  
*sauroides* Leight. *Graph*..... 2571  
*saxatilis* Ach. *Parm*..... 694  
*saxicola* Ach. *Lecan*..... 133  
*saxicola* Nyl. *Physc*..... 941  
*saxicola* Næg. *Sirosiph*..... 1 et 1<sup>b</sup>  
*scabriuscula* Del. *Cladon*..... 322 et 322<sup>b</sup>  
*scabrosa* Ach. *Lecid*..... 2527  
*scabrosa* Th. Fr. *Peltig*..... 90  
*scabrosa* Ach. *Usnea*..... 503  
*scalpturata* Ach. *Graph*..... 2649  
*scaphella* Nyl. *Graph*..... 2597  
*scaphella* Fée *Graph*..... 2612  
*Schæveri* Mont. *Sticta*..... 868  
*Schæverii* Nyl. *Ricasol*..... 868  
*schimatopsis* Nyl. *Lecan*..... 1484  
*schizocarpum* Nyl. *Nephroma*..... 918  
**Schizographa** Nyl..... 3440  
**Schizopelte** Th. Fr..... 3638  
*schizophylliza* Nyl. *Stictina*..... 794  
*schizopora* Nyl. *Cladia*..... 381  
*schizostoma* Nyl. *Pertus*..... 1583  
*Schleicheri* Nyl. *Lecan*..... 1507  
*Schraderi* Nyl. *Leptog*..... 428  
*sciastra* Nyl. *Physc*..... 994  
*sclerophylla* Nyl. *Gyroph*..... 1051  
*sclerophylla* Nyl. *Stictina*..... 780  
*Sclerotium* Fée *Porina*..... 1603  
*scopularis* Nyl. *Lecan*..... 1150  
*scopulorum* Ach. *Ramal*..... 455  
*Scoria* Fée *Trypeth*..... 3516  
*scorigena* Nyl. *Lecan*..... 1165  
*scorioides* Nyl. *Astroth*..... 3581  
*scorites* Nyl. *Trypeth*..... 3539  
*scorizum* Nyl. *Trypeth*..... 3533  
*scortea* Ach. *Parm*..... 634  
*scortella* Nyl. *Parm*..... 652 et 652<sup>b</sup>  
*scotinoides* Nyl. *Leptog*..... 400  
*scotinopsara* Nyl. *Verruc*..... 3262  
*scotinum* Fr. *Leptog*..... 94  
*scotomma* Nyl. *Lecid*..... 2411  
*scribillans* Nyl. *Graph*..... 2719  
*scriblitella* Nyl. *Arthon*..... 3020  
*scripta* Ach. *Graph*..... 2557 et 2557<sup>b</sup>  
*scripta* Leight. *Graph*..... 2580  
*serobiculata* Nyl. *Lobarina*..... 766  
*serobiculata* Nyl. *Ricasol*..... 881  
*serobiculatus* Scop. *Lichen*..... 766

scruposa Ach. <i>Urceol.</i> .....	1826 et 1825	sinuosa Ach. <i>Parm.</i> .....	667
scruposula Nyl. <i>Urceol.</i> .....	1827	sinuosa Nyl. <i>Parm.</i> .....	680
scyphulifera Ach. <i>Lecid.</i> .....	1806	sinuosa Nyl. <i>Sticta.</i> .....	817
scyphuliferum Nyl. <i>Gyrost.</i> .....	1806 et 1806 <sup>b</sup>	sinuosa Bab. <i>Sticta.</i> .....	827
scythica Nyl. <i>Lecan.</i> .....	1333	sinuosus Sm. <i>Lichen.</i> .....	667
secundana Nyl. <i>Cladon.</i> .....	362	<b>Siphula</b> Fr. ....	208-221
seductrix Nyl. <i>Cladon.</i> .....	348	<b>Sirosiphon</b> Kütz. ....	1 et 361
segregata Nyl. <i>Verruc.</i> .....	3370	smaragdescens Nyl. <i>Lecid.</i> .....	2162
semipallida Nyl. <i>Lecid.</i> .....	2011	smaragdina Pers. <i>Coccocarp.</i> .....	1095
semiteres Mont. <i>Parm.</i> .....	755	smaragdula Nyl. <i>Lecan.</i> .....	1520
semiviridis Nyl. <i>Chondrops.</i> .....	765	smaragdulum Wahl. <i>Endocarp.</i> .....	1520
semotula Nyl. <i>Lecid.</i> .....	2512	<i>Smithii</i> Tul. <i>Abroth.</i> .....	2539
Sendtneri Nyl. <i>Verruc.</i> .....	3239	<i>Smithii</i> Leight. <i>Graph.</i> .....	2637
separanda Nyl. <i>Graph.</i> .....	2670	sobolescens Nyl. <i>Cladon.</i> .....	3688
separatum Nyl. <i>Chiodect.</i> .....	3179	sobolifera Nyl. <i>Cladon.</i> .....	296 et 296 <sup>b</sup>
sepeacea Pers. <i>Physc.</i> .....	446	soccatum Nyl. <i>Psoroma.</i> .....	1132
sepiacea Nyl. <i>Ramul.</i> .....	446	sodalis Nyl. <i>Pyrgil.</i> .....	174
septentrionale Nyl. <i>Platysm.</i> .....	555 et 555 <sup>b</sup>	Soleirolii Nyl. <i>Chlor.</i> .....	490
septisepta Nyl. <i>Arthon.</i> .....	2986	solenarium Tuck. <i>Collem.</i> .....	75
septiseptella Nyl. <i>Arthon.</i> .....	3070	solida Born. <i>Ephebe.</i> .....	7
septosior Nyl. <i>Lecid.</i> .....	2143	<b>Solorina</b> Ach. ....	921-924
sepultum Mont. <i>Astroth.</i> .....	3590	<b>Solorinina</b> Nyl. ....	909-911
seriale Ach. <i>Chiodect.</i> .....	3177	<i>solorinoides</i> Nyl. <i>Lecan.</i> .....	1109
sericea Nyl. <i>Glyph.</i> .....	3150	solstitiale Hochst. <i>Endocarp.</i> .....	3195
sericeum Sw. <i>Teleph.</i> .....	3187	Sommerfeltii Nyl. <i>Pertus.</i> .....	1648
sericeum Eschv. <i>Leiogr.</i> .....	3187	sophistica Nyl. <i>Graph.</i> .....	2580 et 2580 <sup>b</sup>
sericeum Eschv. <i>Leiogr.</i> .....	3150	sophisticascens Nyl. <i>Graph.</i> .....	2583
serograptia Nyl. <i>Graph.</i> .....	2662	sophisticodes Nyl. <i>Graph.</i> .....	2584
serpentina Nyl. <i>Graph.</i> .....	2557	sophisticula Nyl. <i>Graph.</i> .....	2585
serpentinella Nyl. <i>Graph.</i> .....	2660	sophodella Nyl. <i>Lecid.</i> .....	2063
serpentinoides Nyl. <i>Graph.</i> .....	2588	sophodes Ach. <i>Lecan.</i> .....	1279 et 1279 <sup>b</sup>
serpentosa Nyl. <i>Graph.</i> .....	2635 et 2635 <sup>b</sup>	sophodina Nyl. <i>Lecid.</i> .....	2114 et 2114 <sup>b</sup>
sessilis Nyl. <i>Bæom.</i> .....	188	sordidella Nyl. <i>Lecid.</i> .....	1999
setosa Nyl. <i>Physc.</i> .....	998	sordidescens Fée <i>Thelotr.</i> .....	1730
sexocularis Nyl. <i>Verruc.</i> .....	3392	sordidius Nyl. <i>Trypeth.</i> .....	3516
sibiriensis Will. <i>Lecid.</i> .....	2052	sordidula Nyl. <i>Lecid.</i> .....	2312 et 1999
signata Ach. <i>Opegr.</i> .....	2820	soredians Nyl. <i>Cladon.</i> .....	294
signifera Nyl. <i>Parm.</i> .....	698	sorediantha Nyl. <i>Ramal.</i> .....	441
silacea Nyl. <i>Lecid.</i> .....	2332	sorediata Schær. <i>Parm.</i> .....	599
simensis Nyl. <i>Solorinina.</i> .....	909	sorediata Nyl. <i>Parm.</i> .....	604
similans Nyl. <i>Thelotr.</i> .....	1756	sorediata Nyl. <i>Physc.</i> .....	1004 <sup>b</sup>
simodensis Tuck. <i>Lecid.</i> .....	2024	sorediata Fr. <i>Pyxine.</i> .....	1012
simplex Nyl. <i>Lecan.</i> .....	1527	sorediatum Nyl. <i>Stereocaul.</i> .....	237 et 240
simplex Nyl. <i>Siph.</i> .....	209	soredica Nyl. <i>Parm.</i> .....	582
simplicior Nyl. <i>Opegr.</i> .....	2835	soredifera Fée <i>Lecan.</i> .....	1396
simplicius Nyl. <i>Thelotr.</i> .....	1787	sorediifera Nyl. <i>Peltig.</i> .....	901
sinapisperma DC. <i>Lecan.</i> .....	1204	sorediifera Nyl. <i>Physc.</i> .....	1007 <sup>b</sup>
sinapisperma Fée <i>Verrue.</i> .....	3444	sorediifera Nyl. <i>Ramal.</i> .....	446
sincerula Nyl. <i>Lecid.</i> .....	2349	sorediifera Nyl. <i>Solorinina.</i> .....	911
sinensigrapha Fée <i>Arthon.</i> .....	2645	sorediifera Nyl. <i>Stictina.</i> .....	768
sinensis Nyl. <i>Roccel.</i> .....	483	sororiella Nyl. <i>Lecid.</i> .....	2079
singaporina Nyl. <i>Graph.</i> .....	3677	spadicea Leight. <i>Arthon.</i> .....	3003
sinuatum Nyl. <i>Leptog.</i> .....	95	spadicea Ach. <i>Cladon.</i> .....	315
sinuatus Huds <i>Lichen.</i> .....	95	spadicea Tuck. <i>Lecid.</i> .....	2134



spadicomma Nyl. <i>Lecid.</i> .....	2328	<b>Squamaria</b> DC.....	1327-1341
spadochroa Nyl. Umbilic.....	1031	squamariata Nyl. <i>Parm.</i> .....	711
spadochrous Ehrh. Lichen.....	1031	squamarioides Nyl. <i>Bæom.</i> .....	204
spadopolia Nyl. <i>Opegr.</i> .....	2827	squamulosa Hoffm. <i>Cladon.</i> .....	329 et 329 <sup>b</sup>
sparsa Nyl. <i>Physc.</i> .....	999	squamulosa Nyl. <i>Lecan.</i> .....	1334 et 1513
sparsellum Nyl. <i>Mycop.</i> .....	3594	squamulosa Nyl. <i>Lecid.</i> .....	2149
speciosa Del. <i>Cladon.</i> .....	329	squamulosus Sm. Lichen.....	1513
speciosa Fr. <i>Physc.</i> .....	950	stalactinum Nyl. <i>Chiodect.</i> .....	3154
speciosa Eschw. Ustal.....	2797	staphylea Ach. <i>Cladon.</i> .....	278
speciosus Wulf. Lichen.....	950	stellaris Fr. <i>Physc.</i> .....	966, 973 et 974
spectabilis Fée <i>Arthon.</i> .....	3040 et 3040 <sup>b</sup>	stellata Mont. <i>Evern.</i> .....	925
speirea Nyl. <i>Lecid.</i> .....	2330	stellata Nyl. <i>Pammul.</i> .....	1085
speirocarpa Nyl. <i>Stictina.</i> .....	798	stellata (Tuck.) <i>Physc.</i> .....	1266
speirococca Nyl. <i>Lecid.</i> .....	2304	stellatum Tuck. <i>Collem.</i> .....	76
sphærale Ach. <i>Chiodect.</i> .....	3166	stellulata Fée <i>Graph.</i> .....	2956
sphærioides Mont. <i>Trypeth.</i> .....	3550	stellulata Tayl. <i>Lecid.</i> .....	2439
sphæroides Sommerf. <i>Lecid.</i> .....	2050	stellulata Nyl. <i>Lecid.</i> .....	2432
sphærophoroides Lév. <i>Acrosc.</i> .....	487	stellulatum Nyl. <i>Stigmat.</i> .....	2956
sphærophoroides Nyl. <i>Stereocaul.</i> .....	231	stenobola Nyl. <i>Stictina.</i> .....	806
<b>Sphærophoron</b> Pers.....	179-186	stenobola Nyl. <i>Verruc.</i> .....	3686
sphærospora Nyl. <i>Parm.</i> .....	579	<b>Stenocybe</b> Nyl. ....	3631
sphærospora Nyl. <i>Synalis.</i> .....	47	stenogramma Nyl. <i>Platygr.</i> .....	2898
sphærosporella Nyl. <i>Graph.</i> .....	2667	stenographella Nyl. <i>Arthon.</i> .....	2987
sphærulifera Nyl. <i>Cladon.</i> .....	354	stenophylla Nyl. <i>Cladon.</i> .....	304
sphæra Nyl. <i>Graph.</i> .....	2703	stenophyllum Nyl. <i>Collem.</i> .....	47
<b>Sphinctrina</b> Fr.....	138-144	stenospora Nyl. <i>Lecid.</i> .....	2178
sphinctrina Mont. <i>Parm.</i> .....	1133	stenospora Nyl. <i>Ricasol.</i> .....	884
sphinctrinellum Nyl. <i>Thelotr.</i> .....	1683	stenotera Nyl. <i>Lecid.</i> .....	2307
sphinctrinum Nyl. <i>Leptog.</i> .....	122	stephanella Nyl. <i>Lecid.</i> .....	2115
sphinctrinum Nyl. <i>Psorom.</i> .....	1133	stephanodes Stirt. <i>Lecid.</i> .....	2327
spigea Nyl. <i>Lecid.</i> .....	2417	<b>Stephanophorus</b> Flot.....	118-127
spilomatoides Nyl. <i>Arthon.</i> .....	3053	stereocauloides Nyl. <i>Sphæroph.</i> .....	183
splendidula Nyl. <i>Parm.</i> .....	584	<b>Stereocaulon</b> Schreb.....	227-268 et 3634-5
spodochroa Ach. <i>Gyroph.</i> .....	1031	Stereocaulorum Th. Fr. <i>Lecid.</i> .....	2032
spodophana Nyl. <i>Lecid.</i> .....	2019	<b>Stereocladium</b> Nyl.....	226
spodoplaea Nyl. <i>Lecan.</i> .....	1231	<b>Sticta</b> Ach.....	814-863 et 3651
spodopolia Nyl. <i>Opegr.</i> .....	2827	stictæformis Schær. <i>Sticta.</i> .....	868
spodopsara Nyl. <i>Verruc.</i> .....	3261	stictaria Nyl. <i>Arthon.</i> .....	3121
spondaicum Nyl. <i>Thelotr.</i> .....	1757	Stictarum Tul. <i>Celid.</i> .....	812
spongiosa Nyl. <i>Solorina.</i> .....	923	stictica Nyl. <i>Arthon.</i> .....	3048
spongiosus Sm. Lichen.....	923	stictica Ach. <i>Opegr.</i> .....	2879
Spraguei Nyl. <i>Endocarp.</i> .....	3218	stictica Tuck. <i>Opegr.</i> .....	2551
Spraguei Tuck. <i>Lecan.</i> .....	1264	stictica Koerb. <i>Urceol.</i> .....	1533
Sprengelii Nyl. <i>Mclasp.</i> .....	3129	<b>Stictina</b> Del.....	768-811
Sprengelii Ach. <i>Trypeth.</i> .....	3536	stictidea Nyl. <i>Lecid.</i> .....	1858
Sprucei Nyl. <i>Lecid.</i> .....	1868	stictoides Desmaz. <i>Arthon.</i> .....	3098
Sprucei Leight <i>Verruc.</i> .....	3241	stignatea Nyl. <i>Lecid.</i> .....	1299
spumescens Nyl. <i>Graph.</i> .....	2781	stigmatica Krempelth. <i>Platygr.</i> .....	2938
spumosa Nyl. <i>Cladina.</i> .....	364	<b>Stigmatidium</b> Mey.....	2935-2961
spuria Schær. <i>Lecid.</i> .....	2431	stigmodes Nyl. <i>Stigmat.</i> .....	2959
spuria DC. <i>Peltig.</i> .....	902	stigmodes Nyl. <i>Opegr.</i> .....	2939
spurius Ach. Lichen.....	902	stigonella Fr. <i>Trachyl.</i> .....	168
squalescens Nyl. <i>Lecid.</i> .....	2222	stillata Nyl. <i>Lecid.</i> .....	2026
squalida Ach. <i>Lecid.</i> .....	2235	stillicidiorum Nyl. <i>Lecan.</i> .....	1192

Stracheyi Nyl. <i>Platysm.</i> .....	536	subbaculifera Nyl. <i>Lecid.</i> .....	4951
straminea Ach. <i>Lecan.</i> .....	4336	subbessalis Nyl. <i>Arthon.</i> .....	2682
straminea Ach. Ramal.....	408	subbreviuscula Nyl. <i>Lecid.</i> .....	3661
straminea Fée <i>Sticta.</i> .....	877	subcæsia Nyl. <i>Graph.</i> .....	2557
straminicolor Nyl. <i>Trypeth.</i> .....	3520	subcæsia Nyl. <i>Lecan.</i> .....	4533
streblocarpa Nyl. <i>Graph.</i> .....	2653	subcæsium Nyl. <i>Thelotr.</i> .....	4688
strepodina Nyl. <i>Lecan.</i> .....	4527	subcalicaris Nyl. <i>Ramal.</i> .....	433
striatula Nyl. <i>Graph.</i> .....	2620 et 2620 <sup>b</sup>	subcalyescens Nyl. <i>Thelotr.</i> .....	1717
stricta Nyl. <i>Cladon.</i> .....	327	subcanaliculata Nyl. <i>Ramal.</i> .....	434
strictula Nyl. <i>Stictina.</i> .....	797	subcandida Nyl. <i>Graph.</i> .....	2666
strictum Nyl. <i>Stereocaul.</i> .....	242	subcaperata Nyl. <i>Sticta.</i> .....	827
strigata Nyl. <i>Lecan.</i> .....	4516	subcaperatula Nyl. <i>Parm.</i> .....	586
strigosa Ach. <i>Usnea.</i> .....	492	subcariosa Nyl. <i>Cladon.</i> .....	285 et 285 <sup>b</sup>
<b>Strigula</b> Fée.....	3559-3565	subcarnea Nyl. <i>Lecan.</i> .....	4390
strigulina Nyl. <i>Platygr.</i> .....	2919	subcarneus Sw. Lichen.....	4390
striguloides Nyl. <i>Platygr.</i> .....	2919	subcastanea Nyl. <i>Lecan.</i> .....	4514
Stuartii Hampe <i>Lecid.</i> .....	2373	subcavatum Nyl. <i>Thelotr.</i> .....	1697
stygia Tayl. <i>Gyroph.</i> .....	4037	subcentrifuga Nyl. <i>Opegr.</i> .....	2837
stygia Ach. <i>Parm.</i> .....	727 et 727 <sup>b</sup>	subcerata Stizenb. <i>Lecan.</i> .....	4208
stygioides Nyl. <i>Parm.</i> .....	728	subcerina Nyl. <i>Lecan.</i> .....	1245 et 1208
stygioplaca Nyl. <i>Lecan.</i> .....	4476	subcervina Nyl. <i>Lecid.</i> .....	2486
stygius L. Lichen.....	727	subchlorotica Nyl. <i>Verruc.</i> .....	3293
suaveolens Nyl. <i>Lecan.</i> .....	4485	subcincinnati Nyl. <i>Pannar.</i> .....	4055
subabbrevians Nyl. <i>Lecid.</i> .....	2174	subcinctula Nyl. <i>Lecan.</i> .....	4431
subacuta Nyl. <i>Graph.</i> .....	2579	subcinerascens Nyl. <i>Arthon.</i> .....	3045
subæquans Nyl. <i>Astroth.</i> .....	3587	subcinerascens Nyl. <i>Lecid.</i> .....	2531
subæquans Nyl. <i>Parm.</i> .....	678	subcinerea Nyl. <i>Verruc.</i> .....	3292
subæruginosa Nyl. <i>Lecan.</i> .....	4397	subcinereum Nyl. <i>Calic.</i> .....	454
subalbans Nyl. <i>Trypeth.</i> .....	3532	subcommunis Nyl. <i>Pertus.</i> .....	4576
subalbicans Nyl. <i>Lecid.</i> .....	4985	subcomosa Nyl. <i>Physc.</i> .....	945
subalbida Nyl. <i>Lecan.</i> .....	4280	subcomplanata Nyl. <i>Ramal.</i> .....	429
subalbo-atra Nyl. <i>Lecid.</i> .....	2493	subcompunctum Nyl. <i>Thelotr.</i> .....	1774
subalbula Nyl. <i>Lecid.</i> .....	2445	subconfluens Anzi <i>Lecid.</i> .....	2333
suballinita Nyl. <i>Lecid.</i> .....	2078	subconforme Nyl. <i>Thelotr.</i> .....	4701
subalpicola Nyl. <i>Lecid.</i> .....	2530	subconfragosa Nyl. <i>Lecan.</i> .....	4292
subamericana Nyl. <i>Parm.</i> .....	692	subconsersa Nyl. <i>Parm.</i> .....	704 et 704 <sup>b</sup>
subampliata Nyl. <i>Ramal.</i> .....	426	subcontexta Nyl. <i>Graph.</i> .....	2760
subanceps Nyl. <i>Lecan.</i> .....	4298	subcontigua Nyl. <i>Lecid.</i> .....	2513
subanceps Nyl. <i>Ramal.</i> .....	442	subcontinua Nyl. <i>Lecid.</i> .....	2277
subangulosa Nyl. <i>Lecan.</i> .....	4350	subconveniensi Nyl. <i>Arthon.</i> .....	3122
subantecellens Nyl. <i>Verruc.</i> .....	3465	subconveniensi Nyl. <i>Collem.</i> .....	45 et 45 <sup>b</sup>
subareolata Nyl. <i>Pyrenops.</i> .....	3620	subcorallina Nyl. <i>Pertus.</i> .....	4591
subareolata Nyl. <i>Verruc.</i> .....	3236	subcoriacea Nyl. <i>Sticta.</i> .....	857
subargyrea Nyl. <i>Stictina.</i> .....	769	subcornuta Nyl. <i>Cladon.</i> .....	287
subaromatica Nyl. <i>Lecid.</i> .....	2239	subcorrosa Nyl. <i>Ricasol.</i> .....	874
subasperata Nyl. <i>Ramal.</i> .....	420	subcrenulata Nyl. <i>Lecan.</i> .....	4352 et 4352 <sup>b</sup>
subassentiens Nyl. <i>Lecid.</i> .....	2262	subcrinita Nyl. <i>Parm.</i> .....	3644
subassimilata Nyl. <i>Lecid.</i> .....	371	subcrispum Nyl. <i>Collem.</i> .....	53
subastroidea Nyl. <i>Arthon.</i> .....	3080	subcrustosa Nyl. <i>Verruc.</i> .....	3212
subastroidella Nyl. <i>Arthon.</i> .....	3078	subcrustosum Nyl. <i>Endocarp.</i> .....	3212
subatomaria Nyl. <i>Verruc.</i> .....	3481	subcuprea Nyl. <i>Urceol.</i> .....	4835
subattingens Nyl. <i>Platygr.</i> .....	2902	subcutanea Ach. <i>Porina.</i> .....	4603
subaurulenta Nyl. <i>Parm.</i> .....	592 et 592 <sup>b</sup>	subcypbellata Nyl. <i>Sticta.</i> .....	851
subbacillifera Nyl. <i>Lecid.</i> .....	2467	subdactylina Nyl. <i>Pertus.</i> .....	4563

subdealbata Nyl. <i>Pertus</i> .....	1597	subfuscata Nyl. <i>Lecid</i> .....	2015
subdecipiens Nyl. <i>Lecid</i> .....	1871	subfuscella Nyl. <i>Verruc</i> .....	3253
subdecolor Nyl. <i>Trypeth</i> .....	3512	subfuscescens Nyl. <i>Parm</i> .....	647
subdepressa Nyl. <i>Lecan</i> .....	1472	subfuscula Nyl. <i>Lecid</i> .....	2165
subdepressum Nyl. <i>Trypeth</i> .....	3529	subgaugaliza Nyl. <i>Lecan</i> .....	1371
subdescendens Nyl. <i>Psoromar</i> .....	1142	subgelida Nyl. <i>Lecan</i> .....	1317
subdeusta Nyl. <i>Lecid</i> .....	2274	subgeminum Nyl. <i>Thelotr</i> .....	1758 et 1758 <sup>b</sup>
subdiaphora Nyl. <i>Opegr</i> .....	2822	subgeniculata Nyl. <i>Ramal</i> .....	471
subdifficilis Nyl. <i>Opegr</i> .....	2842	subglabrata Nyl. <i>Verruc</i> .....	3400 et 3372
subdigitata Nyl. <i>Cladon</i> .....	346	subglauescens Nyl. <i>Lecid</i> .....	2126
subdiluta Nyl. <i>Sticta</i> .....	817	subglauescens Nyl. <i>Verruc</i> .....	3449
subdiscedens Nyl. <i>Lecid</i> .....	2159	subglobosa Nyl. <i>Lecid</i> .....	2154
subdisciformis Leight. <i>Lecid</i> .....	2473	subglobulifera Nyl. <i>Pertus</i> .....	1531
<i>subdisciformis</i> Nyl. <i>Lecid</i> .....	2454	subgracilescens Nyl. <i>Cladon</i> .....	301
subdiscretum Nyl. <i>Trypeth</i> .....	3553	subgranulata Nyl. <i>Lecan</i> .....	1363
subdispersa Nyl. <i>Arthon</i> .....	3110	subgranulatum Nyl. <i>Ascid</i> .....	1805 <sup>b</sup>
subdispersa Nyl. <i>Lecid</i> .....	2317	subgranulosa Nyl. <i>Physc</i> .....	936
subdispersula Nyl. <i>Arthon</i> .....	3111	subgyrosa Nyl. <i>Arthon</i> .....	3085
subdissecta Nyl. <i>Parm</i> .....	650	subherbacea Nyl. <i>Ricasol</i> .....	884
subdissecta Nyl. <i>Ricasol</i> .....	881	subhirsutulum Nyl. <i>Collem</i> .....	46
subdissentiens Nyl. <i>Lecan</i> .....	1480	subhispidulum Nyl. <i>Psorom</i> .....	1137
subdisserpens Nyl. <i>Graph</i> .....	2575	subhumosum Nyl. <i>Collem</i> .....	41
subdissocians Nyl. <i>Trypeth</i> .....	3519	subimpertusa Nyl. <i>Parm</i> .....	748 <sup>b</sup>
subdiversa Nyl. <i>Graph</i> .....	2633	subincolorella Nyl. <i>Lecid</i> .....	1862
subducens Nyl. <i>Graph</i> .....	2596	subincompta Nyl. <i>Lecid</i> .....	2173
subducta Nyl. <i>Verruc</i> .....	3386	subincurventum Nyl. <i>Trypeth</i> .....	3515
subduplex Nyl. <i>Lecid</i> .....	1970	subinquinans Nyl. <i>Lecid</i> .....	2534
subeffigurans Nyl. <i>Opegr</i> .....	2892	subinterstes Nyl. <i>Verruc</i> .....	3322
subeffusa Nyl. <i>Lecan</i> .....	1433	subintricata Nyl. <i>Lecan</i> .....	1430
subelegans Nyl. <i>Graph</i> .....	2619 et 2619 <sup>b</sup>	subinusta Nyl. <i>Graph</i> .....	2643 et 2643 <sup>b</sup>
subelegans Nyl. <i>Lecan</i> .....	1146	subjuncta Nyl. <i>Lecid</i> .....	2461
subelevata Nyl. <i>Opegr</i> .....	2816	subjunctiva Nyl. <i>Verruc</i> .....	3286
subeminescens Nyl. <i>Thelotr</i> .....	1726 <sup>b</sup>	subkamtschadalis Nyl. <i>Parm</i> .....	692
subeminula Nyl. <i>Arthon</i> .....	3101	sublævata Nyl. <i>Pertus</i> .....	1564
subepulotica Nyl. <i>Lecan</i> .....	1481	sublævigata Nyl. <i>Parm</i> .....	641 et 641 <sup>b</sup>
subexcedens Nyl. <i>Arthon</i> .....	3063	sublævigata Nyl. <i>Ramal</i> .....	450
subexilis Nyl. <i>Physc</i> .....	927	sublævigatum Nyl. <i>Nephromium</i> .....	892
subfallax Nyl. <i>Verruc</i> .....	3490	sublævvis Nyl. <i>Graph</i> .....	2620
subfallens Nyl. <i>Verruc</i> .....	3472	sublævvis Nyl. <i>Ricasol</i> .....	885
subfarinacea Nyl. <i>Graph</i> .....	2594	sublecanorina Nyl. <i>Platygr</i> .....	2924
subfarinosa Nyl. <i>Lecid</i> .....	2410	sublectissima Nyl. <i>Verruc</i> .....	3301
subfastigiata Nyl. <i>Ramal</i> .....	426	sublimbata Nyl. <i>Parm</i> .....	684
subferruginea Nyl. <i>Lecan</i> .....	1221	sublimitans Nyl. <i>Verruc</i> .....	3282
subfibrosum Nyl. <i>Chiodect</i> .....	3157	sublimosa Nyl. <i>Lecid</i> .....	2311
subflava Tuck. <i>Lecan</i> .....	1419	sublinearis Nyl. <i>Ramal</i> .....	442
subflavicans Nyl. <i>Lecan</i> .....	1379	sublivens Nyl. <i>Lecid</i> .....	2018
subflavida Nyl. <i>Stictina</i> .....	800	sublivida Nyl. <i>Lecan</i> .....	1383
subfraxinea Nyl. <i>Ramal</i> .....	434	sublobulata Nyl. <i>Lecan</i> .....	1152
subfulgescens Nyl. <i>Lecan</i> .....	1176	<i>sublobulatum</i> Nyl. <i>Placod</i> .....	1152
subfulgurata Nyl. <i>Graph</i> .....	2569	<i>sublurida</i> Nyl. <i>Lecid</i> .....	1268
subfulginea Nyl. <i>Pyrenops</i> .....	3622	<i>sublurida</i> Nyl. <i>Pannar</i> .....	83
subfurfurosa Nyl. <i>Lecid</i> .....	3664	subluridum Nyl. <i>Dichod</i> .....	83
subfusca Ach. <i>Lecan</i> .....	1350	subluteola Nyl. <i>Lecid</i> .....	2148
<i>subfusca</i> Mont. <i>Parm</i> .....	1360	sublutescens Nyl. <i>Lecan</i> .....	1423



sublutescens Nyl. <i>Stictina</i> .....	771	subpunctella Nyl. <i>Verruc</i> .....	3390
sublutior Nyl. <i>Lecan</i> .....	1443	subpunctiformis Nyl. <i>Verruc</i> .....	3487
submarginalis Mich. <i>Parm</i> .....	609	subpusilla Nyl. <i>Ramal</i> .....	465
submarginata Nyl. <i>Pertus</i> .....	1613	subpustulata Nyl. <i>Pertus</i> .....	1586
submedia Nyl. <i>Cetr</i> .....	319	subpyracea Nyl. <i>Lecan</i> .....	1201
submicrospora Nyl. <i>Verruc</i> .....	3265	subradians Nyl. <i>Lecan</i> .....	1467
subminutissima Nyl. <i>Arthon</i> .....	3123	subradiascens Nyl. <i>Lecan</i> .....	1468
subminutula Nyl. <i>Arthon</i> .....	3108	subradiata Nyl. <i>Graph</i> ..... 2587 et 2587 <sup>b</sup>	
submollescens Nyl. <i>Stereocaul</i> .....	233	subradiosa Nyl. <i>Lecan</i> .....	1388
submoniliforme Nyl. <i>Chiodect</i> .....	3168	subrangiferina Nyl. <i>Cladina</i> .....	371
submonospora Nyl. <i>Graph</i> .....	2601	subrecta Nyl. <i>Graph</i> .....	2587
submultipuncta Nyl. <i>Pertus</i> .....	1569	subrigida Nyl. <i>Graph</i> ..... 2600 et 2600 <sup>b</sup>	
submutatum Nyl. <i>Thelotr</i> .....	1693	subrimulosa Nyl. <i>Opegr</i> .....	2863
subnegans Nyl. <i>Lecid</i> .....	2221	subrosella Nyl. <i>Lecid</i> .....	2147
subnectenda Nyl. <i>Verruc</i> .....	3342	<i>subrotunda</i> Fée Arthon.....	3061
subnexa Nyl. <i>Lecid</i> .....	2465	subrubella Nyl. <i>Arthon</i> .....	2978
subnexa Nyl. <i>Verruc</i> .....	3441	subrubella Nyl. <i>Lecid</i> .....	2135
subnigrescens Nyl. <i>Verruc</i> .....	3255	subrubescens Nyl. <i>Lecid</i> .....	1927
subnitens Nyl. <i>Graph</i> .....	2767	subrubiformis Nyl. <i>Lecid</i> .....	1874
subnitida Nyl. <i>Graph</i> .....	2743	subrudecta Nyl. <i>Parm</i> .....	675
subnitida Nyl. <i>Verruc</i> .....	3384	subrudis Nyl. <i>Lecid</i> .....	2074
subnitidella Nyl. <i>Verruc</i> .....	3394	subrufata Nyl. <i>Lecid</i> .....	1909
subnitidula Nyl. <i>Graph</i> .....	2746	subrugata Nyl. <i>Parm</i> .....	612
subnivescens Nyl. <i>Graph</i> .....	2785	subrugosa Nyl. <i>Pertus</i> .....	1589
subnothella Nyl. <i>Opegr</i> .....	2818	subruginosum Nyl. <i>Leptog</i> .....	118
subobducens Nyl. <i>Pertus</i> .....	1581	subrupta Nyl. <i>Parm</i> .....	688
subobductans Nyl. <i>Pertus</i> .....	1582	subscribillans Nyl. <i>Graph</i> .....	2720
subobscura Nyl. <i>Physc</i> ..... 971 et 1000		subserobiculata Nyl. <i>Sticta</i> .....	817
subobsecta Nyl. <i>Graph</i> .....	2717	subsculptella Nyl. <i>Lecid</i> .....	2334
subocellata Nyl. <i>Urceol</i> .....	1824	subseducta Nyl. <i>Lecan</i> .....	1498
subochracea Nyl. <i>Verruc</i> .....	3411	subsequestra Nyl. <i>Lecan</i> .....	1243
subordinatum Nyl. <i>Chiodect</i> .....	3167	subseriale Nyl. <i>Stigmat</i> .....	2951
subpalescebs Nyl. <i>Atstroth</i> .....	3578	<i>subseriatum</i> Nyl. Chiodect.....	3167
subpallidiuscula Nyl. <i>Arthon</i> .....	3119	subserpentina Nyl. <i>Graph</i> .....	2588
subpapillosa Nyl. <i>Ramal</i> .....	426	subsiderella Nyl. <i>Opegr</i> .....	2874
subpar Nyl. <i>Lecid</i> .....	3670	subsimilans Nyl. <i>Lecid</i> .....	2136
subparellina Nyl. <i>Lecan</i> .....	1325	subsimilata Nyl. <i>Opegr</i> ..... 2888 et 2888 <sup>b</sup>	
subparilis Nyl. <i>Graph</i> .....	2759	subsimillima Nyl. <i>Arthon</i> .....	3022
subpectinata Nyl. <i>Ramal</i> .....	422	subsimilis Nyl. <i>Lecid</i> .....	1906
<i>subperlutum</i> Nyl. Platysm.....	530	subsimplicans Nyl. <i>Verruc</i> .....	3306
subperrimosa Nyl. <i>Pertus</i> .....	1633	subsinuosa Nyl. <i>Parm</i> .....	648
subpieta Nyl. <i>Physc</i> .....	1005	subsinuosa Nyl. <i>Sticta</i> .....	819
subplana Nyl. <i>Lecid</i> .....	2344	subsophodes Nyl. <i>Lecan</i> .....	1294
subplicans Nyl. <i>Pertus</i> .....	1646	subspadicea Nyl. <i>Lecid</i> .....	3669
subplicata Nyl. <i>Lecid</i> .....	2426	subsparsa Nyl. <i>Lecid</i> ..... 2297, 2343 et 2343 <sup>b</sup>	
subpollinaria Nyl. <i>Ramal</i> .....	416	subsparsula Nyl. <i>Lecid</i> .....	2343 <sup>b</sup>
subpolymorpha Nyl. <i>Arthon</i> .....	2994	subsphærale Nyl. <i>Chiodect</i> .....	3173
subprivigna Nyl. <i>Lecid</i> .....	2396	subspumosa Coem. <i>Cladina</i> .....	364 <sup>b</sup>
subpromiscua Nyl. <i>Lecid</i> .....	2269	subspuria Nyl. <i>Peltig</i> .....	906
subprostans Nyl. <i>Verruc</i> .....	3458	subsquamosa Nyl. <i>Cladon</i> .....	333
subpruinosa Nyl. <i>Lecid</i> .....	2455	subsquamulosus Nyl. <i>Bæom</i> .....	188 <sup>b</sup>
subpruinsum Nyl. <i>Collem</i> .....	71	<i>substellaris</i> Ach. Lecan.....	1265
<i>subpruinsum</i> Nyl. Psoroma.....	1128	stellata Nyl. <i>Arthon</i> .....	2985
subpulverulenta Nyl. <i>Graph</i> .....	2620	stellata Nyl. <i>Lecan</i> .....	1265



<i>tædiosula</i> Nyl. <i>Arthon</i> .....	3103	<i>tessellata</i> Floerke <i>Lecid</i> .....	2342
<i>tæniata</i> Nyl. <i>Parm</i> .....	756	<i>tessellatula</i> Nyl. <i>Verruc</i> .....	3248
<i>tæniæformis</i> Ach. <i>Ramal</i> .....	430	<i>testacea</i> Ach. <i>Lecid</i> .....	1878
<i>taitense</i> Mont. <i>Heteroth</i> .....	2042	<i>testudinaria</i> Nyl. <i>Ramal</i> .....	392
<i>taitensis</i> Nyl. <i>Lecid</i> .....	2043	<i>Tetraceræ</i> Nyl. <i>Verruc</i> .....	3319
<i>taitensis</i> Nyl. <i>Ramal</i> .....	407	<i>tetrachora</i> Nyl. <i>Graph</i> .....	2707
<i>takashimana</i> Nyl. <i>Lecid</i> .....	2491	<i>tetrapla</i> Nyl. <i>Lecid</i> .....	2470
<i>Tamarindi</i> Nyl. <i>Verruc</i> .....	3452	<i>tetraspora</i> Nyl. <i>Lecan</i> .....	1205
<i>tartarea</i> Ach. <i>Lecan</i> .....	1453	<i>tetrastichella</i> Nyl. <i>Lecid</i> .....	2487
<i>tartareus</i> L. Lichen.....	1453	<i>tetrathalamia</i> Nyl. <i>Pertus</i> .....	1604
<i>tasmanica</i> Cromb. <i>Ephebe</i> .....	9	<i>tetrathalamium</i> Fée <i>Trypeth</i> .....	1604
<i>tasmanica</i> Nyl. <i>Pyrenops</i> .....	4	<i>texana</i> Tuck. <i>Parm</i> .....	658
<i>tasmanica</i> Nyl. <i>Ramal</i> .....	462	<i>Teysmanni</i> Mont. <i>Platysm</i> .....	534
<i>Taylori</i> Nyl. <i>Neuropog</i> .....	516	<i>thæodes</i> Mass. <i>Acarosp</i> .....	1506
<i>teicholyta</i> Ach. <i>Lecan</i> .....	1161	<i>Thalamita</i> Nyl. <i>Endococ</i> .....	3605
<i>teicholytum</i> DC. <i>Placod</i> .....	1161	<i>thamnodes</i> Flot. <i>Evern</i> .....	577 et 577 <sup>b</sup>
<i>teichophila</i> Nyl. <i>Lecan</i> .....	1293	<b>Thamnoia</b> Ach.....	222-224
<i>telephoroides</i> Th. Fr. <i>Lecan</i> .....	1453	<i>thelena</i> Ach. <i>Verruc</i> .....	3496
<i>tenax</i> Ach. <i>Collem</i> .....	51	<i>thelena</i> Mont. <i>Verruc</i> .....	3370
<i>tenebricosa</i> Nyl. <i>Lecid</i> .....	1966	<i>thelenelloides</i> Nyl. <i>Pertus</i> .....	1603
<i>tenebrosa</i> Flot. <i>Lecid</i> .....	2297	<i>thelenula</i> Nyl. <i>Verruc</i> .....	3501
<i>tenella</i> Ach. <i>Graph</i> .....	2563 et 2563 <sup>b</sup>	<i>theleodes</i> Nyl. <i>Verruc</i> .....	3222
<i>tenella</i> Nyl. <i>Physe</i> .....	970 et 972	<i>thelioplaca</i> Nyl. <i>Pertus</i> .....	1640
<i>tenellum</i> Nyl. <i>Calic</i> .....	159	<i>thelocarpoides</i> Nyl. <i>Pertus</i> .....	1595
<i>tenellum</i> Nyl. <i>Endocarp</i> .....	3208	<b>Thelocarpon</b> Nyl.....	3189
<i>tenellum</i> Nyl. <i>Leprocoul</i> .....	3610	<i>thelococcoides</i> Nyl. <i>Lecan</i> .....	3658
<i>tenellus</i> Scop. Lichen.....	970	<b>Thelococcum</b> Nyl.....	3190
<i>tenera</i> Nyl. <i>Cladon</i> .....	293	<b>Thelographis</b> Nyl.....	2808
<i>teneriffensis</i> Nyl. <i>Lecan</i> .....	1439	<b>Thelopsis</b> Nyl.....	3557-3558
<i>tenerior</i> Nyl. <i>Usnea</i> .....	502	<i>thelostomoides</i> Nyl. <i>Verruc</i> .....	3339
<i>tenerum</i> Laur. <i>Sphæroph</i> .....	181	<b>Thelotrema</b> Ach.....	1673-1794
<i>tennesseensis</i> Nyl. <i>Lecid</i> .....	2335 et 2335 <sup>b</sup>	<i>thelotremoides</i> Nyl. <i>Lecan</i> .....	1504
<i>tenuè</i> Nyl. <i>Placod</i> .....	1144	<i>thelotremoides</i> Nyl. <i>Verruc</i> .....	3426
<i>tenuè</i> Nyl. <i>Nephroma</i> .....	915	<i>thioleuca</i> Nyl. <i>Platygr</i> .....	2910
<i>tenuifida</i> Nyl. <i>Parm</i> .....	715	<i>thiomela</i> Nyl. <i>Lecan</i> .....	1270
<i>tenuior</i> Nyl. <i>Coccocarp</i> .....	1091	<i>thiostoma</i> Nyl. <i>Pertus</i> .....	1616
<i>tenuior</i> Nyl. <i>Lecan</i> .....	1453	<i>thomensis</i> Nyl. <i>Lecid</i> .....	2100
<i>tenuirimis</i> Tayl. <i>Parm</i> .....	624	<i>Thouarsii</i> Nyl. <i>Stictina</i> .....	769
<i>tenuis</i> Ach. <i>Lecan</i> .....	1144	<i>thrausta</i> Nyl. <i>Ramal</i> .....	404
<i>tenuissimum</i> Nyl. <i>Leptog</i> .....	91	<i>Thulensis</i> Th. Fr. <i>Alect</i> .....	561
<i>tenuissimus</i> Dicks. Lichen.....	91	<i>Thunbergii</i> Nyl. <i>Dermat</i> .....	1052
<i>tephroides</i> Ach. <i>Endocarp</i> .....	3210	<i>thyrsifera</i> Nyl. <i>Cladina</i> .....	367
<i>terebrans</i> Nyl. <i>Thelotr</i> .....	1727	<i>thysanæoides</i> Nyl. <i>Collem</i> .....	67 et 72
<i>terebrata</i> Nyl. <i>Ramal</i> .....	446	<i>thysanæum</i> Ach. <i>Collem</i> .....	71 et 71 <sup>b</sup>
<i>terebratulum</i> Nyl. <i>Thelotr</i> .....	1676	<i>thysaniza</i> Nyl. <i>Lecid</i> .....	1896
<i>terebratum</i> Ach. <i>Thelotr</i> .....	1726 et 1726 <sup>b</sup>	<i>thysanizum</i> Nyl. <i>Collem</i> .....	72
<i>terminata</i> Nyl. <i>Verruc</i> .....	3453	<i>thysanota</i> Nyl. <i>Lecid</i> .....	2057
<i>ternaria</i> Nyl. <i>Lecid</i> .....	2073	<b>Thysanothecium</b> Berk. et Mont.....	206-207
<i>terrena</i> Nyl. <i>Lecid</i> .....	2326	<i>tigillaris</i> Fr. <i>Trachyl</i> .....	166
<i>terrestris</i> Nyl. <i>Lecan</i> .....	1506, 1211 et 1306	<i>tiliacea</i> Ach. <i>Parm</i> .....	632
<i>terricola</i> Nyl. <i>Lecan</i> .....	1211	<i>tiliacea</i> Tuck. <i>Parm</i> .....	641
<i>terrigena</i> Will. <i>Arthon</i> .....	3124	<i>Tilesii</i> Nyl. <i>Platysm</i> .....	526
<i>tersa</i> Nyl. <i>Lecan</i> .....	1508	<i>timidula</i> Nyl. <i>Graph</i> .....	2749
<i>tessella</i> Pers. <i>Verruc</i> .....	3519	<i>tinctoria</i> Nyl. <i>Graph</i> .....	2724





uberinoides Nyl. <i>Trypeth</i> .....	3508	varia Nyl. <i>Arthon</i> .....	2987 et 2987 <sup>b</sup>
uberior Nyl. <i>Lecid</i> .....	1896	varia Ach. <i>Lecan</i> .....	1409
uberosula Nyl. <i>Arthon</i> .....	2976	<i>varia</i> Fée Meissn.....	3542
ulophylla Nyl. <i>Parm</i> .....	673	varia Pers. <i>Opegr</i> .....	2815
ulophyllum Ach. <i>Platysm</i> .....	545 et 545 <sup>b</sup>	<i>variabile</i> Nyl. <i>Placod</i> .....	1215
ulotrichoides Nyl. <i>Physc</i> .....	990	variabilis Ach. <i>Lecan</i> .....	1215
ulothrix Nyl. <i>Physc</i> .....	992	variabilis Ach. <i>Sticta</i> .....	833
Umbella Nyl. <i>Collem</i> .....	40	varians Nyl. <i>Arthon</i> .....	3104
<i>Umbellula</i> Nyl. <i>Omphal</i> .....	40	varians Nyl. <i>Lecanact</i> .....	2804
<b>Umbilicaria</b> Hoffm.....	1016-1021	variatula Nyl. <i>Lecid</i> .....	1926
umbilicariiformis Nyl. <i>Stictina</i> .....	800 et 801	variatulum Nyl. <i>Trypeth</i> .....	3543
<i>umbrata</i> Fée <i>Opegr</i> .....	2596	variatum Nyl. <i>Trypeth</i> .....	3544
umbricolor Nyl. <i>Lecid</i> .....	2298	<b>Varicellaria</b> Nyl.....	1672
umbrina Nyl. <i>Graph</i> .....	2651	variella Nyl. <i>Arthon</i> .....	2998
umbrina Nyl. <i>Lecan</i> .....	1436	variiformis Nyl. <i>Arthon</i> .....	3092
umbrina Wahl. <i>Verruc</i> .....	3219	variolina Nyl. <i>Pertus</i> .....	1570
<i>umbrinum</i> Eschw. <i>Leiogr</i> .....	2651	variolosa Pers. <i>Verruc</i> .....	3350
umbrinus Ehrh. Lichen.....	1436	varium Nyl. <i>Trypeth</i> .....	3542
uncialis Nyl. <i>Cladina</i> .....	375 et 375 <sup>b</sup>	velata Nyl. <i>Pertus</i> .....	1564 et 1565
undenaria Nyl. <i>Arthon</i> .....	3025	<i>velatus</i> Sm. Lichen.....	1564
<i>undulata</i> Mont. <i>Parm</i> .....	2896	<i>vellea</i> Ach. <i>Gyroph</i> .....	1030
undulata Nyl. <i>Platygr</i> .....	2894	vellerea Nyl. <i>Gyroph</i> .....	1030
undulata Nyl. <i>Thamn</i> .....	224	vellerigerum Nyl. <i>Eriod</i> .....	1103
unguigerum Nyl. <i>Eriod</i> .....	1101	<i>velligerum</i> Tuck. <i>Eriod</i> .....	1103
<i>unguigerus</i> Bory Lichen.....	1101	<i>venosa</i> Mont. <i>Embl</i> .....	2753
uniformis Nyl. <i>Verruc</i> .....	3448	venosa Nyl. <i>Graph</i> .....	2754
<i>uniseptata</i> Nyl. <i>Lecid</i> .....	2032	venosa Sm. <i>Opegr</i> .....	2955
upsaliensis Nyl. <i>Lecan</i> .....	1461	venosa Ach. <i>Peltid</i> .....	920
<b>Urceolaria</b> Ach.....	1823-1835	venosum Nyl. <i>Stigmat</i> .....	2782
urceolare Ach. <i>Thelotr</i> .....	1782	<i>venosus</i> L. Lichen.....	920
<i>urceolare</i> Mont. <i>Thelotr</i> .....	1704	ventosa Ach. <i>Lecan</i> .....	1545
<i>urceolata</i> Fr. <i>Lecanact</i> .....	3129	<i>ventosicola</i> Mudd <i>Microth</i> .....	3603
urceolata Ach. <i>Lecid</i> .....	2413	venusta Nyl. <i>Physc</i> .....	985
urceolata Eschw. <i>Parm</i> .....	622	vepallida Nyl. <i>Pertus</i> .....	1661
<i>urceolatum</i> Tuck. <i>Conotr</i> .....	2413	vermicularis Ach. <i>Thamn</i> .....	222
Urvillei Del. <i>Sticta</i> .....	842	vermiformis Eschw. <i>Graph</i> .....	2608
<b>Usnea</b> Hoffm.....	491-512	vernalis Ach. <i>Lecid</i> .....	1960
usneoidella Nyl. <i>Ramal</i> .....	411	vernicoma Tuck. <i>Lecid</i> .....	2442
usneoides Fr. <i>Ramal</i> .....	411	vernicosa Nyl. <i>Graph</i> .....	2601
<i>usneoides</i> Mont. <i>Ramal</i> .....	399	verruciforme Nyl. <i>Collem</i> .....	57
ustulata Nyl. <i>Cladon</i> .....	287	verruciferum Nyl. <i>Stereocaul</i> .....	259
		<b>Verrucaria</b> Pers.....	3219-3507 et 3684-86
		<i>verrucarioides</i> Fée <i>Pyrenula</i> .....	3430
		<i>verrucarioides</i> Fée <i>Trypeth</i> .....	2947
		<i>verrucosa</i> Mudd <i>Buell</i> .....	2447
		<i>verrucosa</i> Laur. <i>Lecan</i> .....	1493
		<i>verrucosa</i> Nyl. <i>Lecid</i> .....	2232
		<i>verrucosa</i> Hoffm. <i>Lobaria</i> .....	766
		<i>verrucosa</i> Bab. <i>Parm</i> .....	1573
		<i>verrucosa</i> Ach. <i>Peltid</i> .....	919
		<i>verrucosa</i> Nyl. <i>Pertus</i> .....	1629
		<i>verrucosum</i> Mass. <i>Thalloid</i> .....	2232
		<i>verrucosum</i> Fée <i>Trypeth</i> .....	1629
		<i>verrucosus</i> Web. Lichen.....	919

## V

vacillans Nyl. <i>Lecid</i> .....	2050
vaccina Mont. <i>Sticta</i> .....	840
vaga Nyl. <i>Melanoth</i> .....	3570
vaga Nyl. <i>Verruc</i> .....	3451
vagans Nyl. <i>Parm</i> .....	713
<i>vaginata</i> Nyl. <i>Pertus</i> .....	1564 et 1567
vagula Nyl. <i>Lecid</i> .....	2065





Y		Z	
yemensis Nyl. <i>Ramal</i> .....	442	zabotica Nyl. <i>Lecid</i> .....	2495
youmotoensis Nyl. <i>Lecid</i> .....	1994	<i>zaboticum</i> Koerb. <i>Diplotomm</i> .....	2495
yuannana Nyl. <i>Gyroph</i> .....	1035	<i>Zeiheri</i> de Notar. <i>Sticta</i> .....	779
yunnanense Nyl. <i>Platysm</i> .....	537	<i>Zollingeri</i> Hepp <i>Parm</i> .....	614
<i>yunnense</i> Nyl. <i>Platysm</i> .....	537	<i>zosta</i> Knight <i>Verruc</i> .....	3495

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