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BOTANICAL SURVEY OF INDIA

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A-18

JONES

PLANTARUM INDIAE ORIENTALIS,

OR

FIGURES OF INDIAN PLANTS.

BY

ROBERT WIGHT, M. D., F. S., &c.

MEMBER OF THE IMP. ACADEMY OF SCIENCES AT SIAM.

MEMBER OF THE HONORARY SOCIETY OF AGRICULTURISTS.

VOL. I.

MADRAS:

PUBLISHED BY J. D. PARSONS.

FOR THE AUTHOR.

MDCCCXL

1840



22/7/64

PROSPECTUS.

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PROSPECTUS

A-18

PREPARING FOR PUBLICATION

BY NUMBER OF TWENTY PLATES EACH, PRICE TWO RUPEES, PRINTED UNIFORM WITH THE ILLUSTRATIONS OF INDIAN BOTANY.

ICONES PLANTARUM INDIAE ORIENTALIS.

FIGURES OF INDIAN PLANTS.

DESCRIBED IN THE AUTHOR'S

PRODROMUS FLORAE PENINSULAE INDIAE ORIENTALIS

AND IN HIS

ILLUSTRATIONS OF INDIAN BOTANY.



No. 1, TO APPEAR IN JULY.

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Reprinted without change of paging from
JOURNAL OF THE ANOLD ANNORETUM, Vol. XXII
1941

A NOTE ON THE DATES OF PUBLICATION OF WIGHTS
"ICONES PLAMTARUM INDIAE ORIENTALIS."

E. D. MERRILL

THE basic information on the dates of issue of the various parts of the work, consisting as it does of 210 plates and accompanying descriptive text, is that supplied by Wight himself.* In the preface to the *Utst* volume, dated January 20, 1853, he states that the last part was issued in March, 1853. Hence he gives the year and the month of the issue of most of the parts, and his data, which are frequently overlooked except by experienced bibliographers, are repeated below, for even Prietel's "Thesaurus" (L. I, 34, no. 10246, 1877, gives on the inclusive dates 1840-56 for the six volumes, although in the first edition of that work, 1877, p. 11222, he does give the dates of publication of the first three volumes as 1842, 1843, and 1844). Wight's data are repeated below, verbatim:

"Vol I.

Nos. 2, 3, (Plates 21-60)	rjcpii IB.W.
Nos. 4, 5, (61-100)	MOT. 183*
Nos. 6, 7, 8, (101-161)	June 1835.
No. 9, (162-181)	AUG. 1W).
No. 10, (182-201)	Sept. 1aw.
Nos. 11, 12, (202-241)	Nov. 1839
No. 13, 14, (242-279)	Feb. 1W0.
No. 15, 16, (280-319)	May 1840.

Vol. II.

(315-736) 1840-1843,

Vol. III.

Part, I.U. III. (737-1046) 1844 to Xor. 1845.
Part IV. (1047-1846) Sept. 1846.

Vol. IV.

Part I. (1163-1282)	Jan. 1848
Part II. (1283-1403)	Apr. 1848
Part III. (1404-1524)	Apr. 1848
Part IV. (1525-1846)	May 1850.

Vol V.

Part I. (1763-1920)	May 1851,
Part II. (1921-2101)	May 1852.

Vol. VI.

(1921-2101) Mar. 1853"

*Wright, R. Itano plantanlin liidinc Orkntalu 6i via. JS5J.

Plates bearing the legend "Ra*bifr(rLLmiBo" represent wtnwinir» of Ho* bunch"» unpublished plates now in the Herbarium of the Botanic Garden, and thus represent the botanical material of the work. The plates are numbered in the following order: 1, 1 (IHJM), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The plates are numbered in the following order: 1, 1 (IHJM), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The plates are numbered in the following order: 1, 1 (IHJM), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

The record is complete except for volume one, number nine (plates 1-20), volume two (parts 1-4, plates 39-736), and volume three (parts 1-3, plates 737-1046). A fascicle cover for volume 1, no. 1, is dated 1838, and in his prospectus Wight states that no. 1 was to appear in July of that year; thus 1838 can safely be accepted as the date of issue of this part.

It is of note that the first twenty plates forming number one bear the numbers 35, 73, 160, 171, 176, 178, 189, 197, 198, 198[bis], 198[ter], 205, 334, 339, 341, 342, 396, 467, 513, and 723. These figures apply to the numbers of the species as described in Wight and Arnott's *Prodromus* published in 1834. These plates, in sequence, should be numbered 1 to 20, for while Wight added the forms 1¹, ..., 20¹, etc., in his published explanations of the plates and brief descriptions, he did not commence to print fractional forms on the plates until number two appeared. This system of numbering is obscure until one realises that where the fractional form of numbering appears on the plates and in the text, the numerator represents the sequence of plate numbers for the "kones" (this to be cited), and the denominator is the species number in Wight and Arnott's *Prodromus florae Indiae Orientalis* (1834).

Number one appeared, Nathaniel Wallidi, then Superintendent of the Botanic Garden at Calcutta, placed at Wight's disposal his unpublished drawings prepared under the direction of William Roxburgh, and now preserved in the library of the institution. This use of these Roxburgh drawings is explained by Wight in a notice issued with the second number of the "Icones"; these illustrations, as reproduced by Wight, all bear the inscription "Roxburghianae."¹¹ This is mentioned to emphasize the importance of these plates, for they graphically represent numerous species actually described by Roxburgh in his *Flora of India* ed. I. 1 (1820), 2 (1824), and II. 1-3 (1852).

Wight's original plan of publication was to issue twenty plates, with descriptive titles, as individual numbers, and this plan was approximately followed for those parts forming volume one. Beginning with number two this plan was changed to one involving fewer and larger parts, the four forming volume two containing from 98 to 116 plates each, this system being continued to the end of the work. In reference to volume two, I have no information as to the dates of issue other than Wight's own statement (Icones 6: viii. 1855) that for volume two, plates 39-736 were issued from 1840 to 1843; the title-page date is 1843. As plates 319-416 form part one, we can rather safely assume that this part was issued in 1840. Part four includes plates 632 to 736, which clearly appeared in 1843. This leaves plates 417 to 631, forming parts two and three, for

which have definite dates of issue are as yet unknown, other than the inclusive period 184CMJ, although it seems **probabb** that they may have been issued in 1841—(2).

In volume three it is now possible to get some supplementary information regarding the dates of issue from a fascicle cover, and its accompanying notice, recently received at the Arnold Arboretum, Wight States (Ictines 6tvIIL lft.Si) that shows one of three of this volume appeared from IK4J in November 1845. The fascicle cover of number line of volume that bears the printed **dstC** *lfrl**, but it was clearly MI issued in 1844, the notice avrotr|Minyinj this part, in explaining the delay to the issue of his "Illustrations of Indian Botany,"¹ WipbL SIIU-[^] **r^Bntiqg** **ihl-litter** "**Immediate**" on publication of the **lu^t** part [of the "IHFF.truliorts"] published in part t. Vol. I In* **WHS under** (the necessity of packing up the whole of his collections preparatory to leaving Madras and up U> *ifc present hour, {May }, 1844*) | italics mine | the greater part of them are unavoidably still in **ihl*** packing up, "Hiit part one of volume three of the *lcones" could not have been issued before May, 1844. As the list on the inside of the back cover of the **b** fascicle included plate* 737 to 752, we can safely assume that the year of publication of these was 1844 (not 1845, as probably in *My note that* **rohonc** three, part three, plates 915 to 930, a list in the text of plates 931 and 952, repeated in volume three, but no additional data are available **Pother** than that the part was issued in 1844-45. From the **indudimBaies** list to 1041, appearing in Novrm* L*r. 1845 (Wejflit¹ in *ytiiU'ifmtl*), and the remainder of the volume, plates 1042-1046, in **September, 1846*** (Upain **Wight's own statement**).

Summarizing we can thus narrow the dates of publication of the parts discussed, as follows:

Vol. I	No. 1, pt. 1-20	(July?)	1838
	Part 1, pt. 319-416		1840
	Part 2, pt. 417-514		1840-43 (probably 1841)
	Part 3, pt. 515-631		1840-43 (probably 1841)
	Part 4, pt. 632-736		1843
Vol. 3	Part 1, pt. 737-813	(May?)	1844
	Part 2, pt. 816-930		1844-45
	Part 3, pt. 931-1046	(Nov.)	1845
	Part 4, pt. 1047-1162	(Sept.)	1846

ANNALS OF THE
HARVARD UNIVERSITY.

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PROSPECTUS.

1833.—The preceding exposition of the objects of this work must, I think, satisfy every person, but many may differ in opinion as to the propriety of taking upon myself the greater portion of the plates, while as yet so little conversant with practical Lithography, who have had **an** acquaintance with it, to be the most difficult, and in its results the **simplest** in its principles. A few words in explanation of place here.

The principles, or the attraction existing between the stone (ground lime stone) and greasy substances; the one side, and the well known repulsion between the other. A greasy line drawn on such a stone strongly adheres; the stone being then charged with ink, having an affinity for its base being now passed over the surface of the stone. The line thus charged being subjected to heavy pressure, parts with the ink to the paper to which the impression is to be communicated.

The principles of Lithography; The drawing may be communicated to the stone by means of Lithographic chalk, or a substance containing a quantity of tallow, &c. in its composition, which is drawn on the stone, and then charged with printing ink. So far all is easy, and the principles so simple, that the first quarter of the 19th century had nearly passed away before they were generally known.

The drawing executed, on paper prepared for the purpose, with a lithographic stone, and then charged with printing ink. So far all is easy, and the principles so simple, that the first quarter of the 19th century had nearly passed away before they were generally known.

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PROSPECTUS.

stantly employed in encreasing my store, by making drawings of the most interesting materials, furnished by a large and richly stored herbarium.

It now only remains for me to indicate the plan of the work. My first thought was to publish the numbers of 10 plates each, on further consideration it occurred to me that numbers of 20, would be more convenient, would be a more judicious plan, as being so much more economical in postage to subscribers. The kindness of Dr. Wallich and other friends, having so largely augmented my means of procuring the work at a more rapid rate, has induced me to extend my original plan, by endeavouring to publish the 10 numbers monthly, in place of every two months. With this view I am now in treaty with a well qualified Lithographer, and should I succeed in procuring his assistance, have little doubt of being able to accomplish my object. The plan now contemplated therefore, is to publish monthly, along with the illustrations, the successive numbers of this work. The plates it will be observed are not numbered consecutively throughout for the convenience of systematic arrangement. The method which I adopt would recommend itself is to provide a portfolio, and arrange the plates in the order of their numbers, as they come out, to contrivance every facility of reference will be enjoyed, that the present methodical distribution of the whole kingdom affords, and for more ready consultation, I would advise them to mark off each number on the margin of the Prodrômus, as it is figured. By this plan that work becomes an index to the plates. In those places where plants not described in the Prodrômus are introduced, their place in the series will be indicated by the number thus O X O which may be equally noted on the margin of the Prodrômus. The explanations of the plates will be printed on one side of the paper only, to allow of their being cut out and attached to the plates ready reference. Those for this number will accompany the next.

A-18

PREFACE.

Including the first Volume of this work it can scarcely be required of me, as happens to authors, to prove that it is wanted or to point out in what respects it is calculated to save the labours of those who have gone before since in truth, so far as Indian Botany is concerned, no similar work exists with which to compare it. In its plan and execution it differs widely from those of Rheede and Rumphius, each of whom have given the largest number of Indian plants, but these often so rudely and incorrectly delineated that many of the plants represented are unknown and in scarcely a single instance are given in such details, apart from general habit, such as to enable even the most accomplished Botanist to determine from them to what natural order the plant belongs. The somewhat more modern works of two Burmese and Plukenet are little if at all in advance of them, though all very useful in pointing out the determination of the plant they meant in their now nearly unintelligible descriptions. Modern works are not liable to the charge of want of precision, but of these the most valuable, those of Roxburgh, Wallich, and Royle, being the only ones expressly designed for the elucidation of Indian plants. Those of the two first named Botanists, though of great merit, are yet on so magnificent and expensive a scale as to limit their usefulness. The first, besides which they are already nearly out of print. That of Dr. Royle is more valuable, to the same extent, to these objections, is scarcely applicable to this portion of the work, the illustrations being confined to the flora of the temperate regions of the Himalayas. The plants figured are almost all unknown in the warmer climate of the south; lastly, a large number of the plants figured in this work have been published in either of

its predecessors, it only remains for me to show that it is wanted here. This has been in part already done, in the prospectus of the first number to which I beg to refer. To what is there advanced I will add the great advantage of pictures in conveying to the mind's eye a quicker perception than can be done, of the distinctive peculiarities of an unknown plant. In descriptions of plants not drawn by a professed Botanist, a laxity of terms is generally accompanied with a want of analytical information that no one, whether a Botanist or not, can possibly make out what is meant, for in truth they convey no precise or definite idea. When we turn to the often elaborate descriptions of the older Botanists we find that they are less in enabling us to picture to the imagination the plant they are describing. For example, those of Rheede, we find them, apart from his plates, nearly incomprehensible. If we are aided by the plates, or if we are aided by the aid of specimens, to recognize most of his plants. This single fact shews that the use of even bad plates towards the advancement of Natural history, and to Botany in particular, is so great, they are, even in the present advanced state of the science, indispensable, especially to the young Botanist. In the preface to my first work I have shown, I hope satisfactorily, the great advantages derived from the use of plates in the study of plants, adverted to the almost universal adoption of this system by the Botanists, and mentioned that an intimate acquaintance with a few species only will often enable even a young Botanist rapidly to acquire a competent know-

ledge of the rest. *Plants giving a good representation of the general aspect of a* often be found to supply this knowledge and in India, Where large general he (the whole world) do not exist, and little progress in the study of natural affinity made, are therefore nearly indispensable to the student of this system of Botany. seeing several species of an order arranged together and put in contrast with some other order, he may acquire such an idea of the appearance of a group, may not be able to explain it to others* as will make a strong impression on the mind, prove eminently useful in advancing his own researches and in preparing his notes on the more abstract and subtle parts of the study.

According to these views, the compactness of which can scarcely, I presume, be it must be evident to every one, at all conversant with the subject, that this humble in execution, is far otherwise in design and promises, if sufficient to admit of its extension to three or four such volumes as the one now offered to prove one of the most useful yet published on Indian Botany, by enabling all to acquire a knowledge of the plants of this country, to familiarize themselves with the names of groups of indigenous plants, by furnishing correct figures of numerous each, in a form so compact and at a cost to moderate that none can complain either of consequent unfitness for ready reference, nor of the heavy charge to which he must be subject in possessing himself of a copy, 10 rupees being but a small charge for 100 elaborately engraved quarto plates, especially in this country, where the material for getting up such very expensive. I am well aware of the imperfections in the printing of some especially of those of the earlier numbers, a defect happily remedied in each issue. But when it is considered, that Lithography is yet comparatively in its infancy in Europe and decidedly so in this country, that success or failure often depends on atmospheric changes not cognizable by the senses, that this climate during a considerable part of the year is most unfavourable and that at the commencement of the work, the artist has been gradually acquired in its progress and which enables us to surmount these obstacles, was altogether wanting, few objections will I think be urged. When in addition I state that these two works were the first of the kind ever published in Madras, that I had personally to superintend every thing, to supply the necessary resources the stimulus and exertion on the part of those employed in a country where I had to encounter untold difficulties while attending to my own avocations, the reason will have been urged, in extenuation of even greater imperfections than are present, the more so when I add, that the obstacles to be overcome by myself, can form an adequate conception of.

To compare this work, commenced and prosecuted under such a liberal and uncheerful by public approbation, and so liberally supported that hitherto conducted at a very considerable expense, with the luxurious and costly Lithographic works of Europe would indeed be doing it an injustice, but few I believe are generous enough to try it by such a standard.

Our knowledge of the India Flora though extensive is far from being wide and has been obtained through the indefatigable industry of but a few enthusiastic votaries of science. This paucity of labourers, in a country affording an interesting harvest, I believe, solely attributable to the want of local labour consequent difficulties with which the study of Indian Botany has been beset.

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i¹ B PEEFACE

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EXPLANATION OF PLATES.

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No. VIII.

EXPLANATION OF PLATES

148. Inamhusmeracpylfoliua—natural tizr. 2. / Bowl ->lit mien, ihowisjl tie attachment of the stamen* Hi the eorolla—3. Ovary, style ami slie^na.

149. Lorsnlhua Wa 1 i e h i a n u s—no tural n'zr. 2. (orolla laid open—showing the attachment of the stamens—3. Anthr rs hack ami front vtaws—4. Ovary—5-6.. The same cut transversely ancj verlifnly.

This aecimea from which this drawing WHS matte was collected on the N ilghe Tries, and eoramunwated by Li out. Munro.

114 V i t i 1 adnala, fl n w e r i n g bra ncli—natural JIB*. S. nf *'d llowtt—3-4. Tbe ovary cut traivversely anil vertieall - .il grown berry—6-7. Th> taint' cut trausversely and verii Co om Roxburgh's drawing.

14'. - itis auriculata, flowering bfanch—natural rixt, 8-3 The ovary rot transversely fend vertically—4. A full (grown lienjj—ft. The same cot vertically—6. Cut transversely—7. A wed 8. Tl i' same cut vertically, to show the embryo—9. The embryo re-

Ci.pii'il from RiixburgVs drawing'.

JIG Gmria nnniculatii, lineh. — inisoxylum yirinieolatum, ArnO 2. A <li'si elect llwer—3. The glare,,» V,h.c. split opes—4. An anther—ti-fi. The nvary rut transversely ami vertically—7. A full (frown capsule—6 T6« unw opened, 'showing two eel'h ivilb their allied aped—9. Back and fron riewa of the teed—" Seedtoll* tary, round or oval, considerably flattened, Interior Imf yellow, in the inililili' or which U a lar^e WMttU flat umbilical; exterior half offiainnciib Htirina i-hi-smut inlotir, ncnKK wliirh is a trifling marking, the Wpantton of the transverse cotyledons." Rokk. VI Ind. Copied midl semewbat reduceti from Roxburgh* drawing.

147- Careyt aphmria, Roth. A flowrring branch—natural tize. 3. A portion of the (tamenifecflni rini, nhowinj(the three set^ of filampnts, lhp intifi furies sluitr < ,),r, j^rdde longer and fertiU, the cntci longest find iterite—3. T fr ovary with ilsbrncten iltiifhed—4. The ovary cut tramyemely, 4- jiiifii-S. The same rut vertically—S, A Toll (tovrn fruit—7. A inm-ivf rsi, motion of the same—8. A'seed ~9. Tin- «nme cot trantreely; showing the Urge albumen and central embryo—10. A »felf ••••• Copied frinn Boxhur^h's drawing.

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118. I'Hvetta htdica—nattmal rii 2. A OdWer tiiRifiifitl—3. A fu I prawn fruit—4. The same cut transversely—i. Tht embryo.—Ct I pyd Imm Roxburgh's dr;iviny.

119. I s o r a B a n d h i c a, Rox lvs—atural sire. t, Tin- finit—3. A fruit rut ti transversely—lv—4, Vertically—5. The e -d cut T.r'tirally, shovring the en bry—4-t. Ovary cut transversely vertically. opiid from Roxburgh's drawing.

156. Ixoravillosa, lloxb.—no< rai size. A 'Jiw*:tleU llv'W-jt-^J.l, Ovar y cut verlically taA transversely—

5. A fruit—6, The same cut tranwerstly—". The embryo removed from the seed. Copied from Hoxhtirch's drawing.

131. Ixora fuljrens, Roxb.—natural tize. 2. Ovary and sty|e~3 A fruit full grown—4. The ssm> nut t>n<- 1 5 . Vertically—6. The embryo removed.

ISI. BarrSngtonU ra'tmo*a, Roih.— natural si:r. 2. (i i:ry cut vertically—3. Trans Tersely—4. A full grown fruit— natural etie--J&, The same after germination has commenced.

Copied from Roxhtngh's drawing. For some remarks on the natural order of thisgeniu, see No. UT.

153. Ixora coccinili. Linn.— noiural tii/. 2. k flower magnified—9. A fruit—4. The samo cut hansversrly— 5. A MTil-6, Cut transversely—7. Veitically, showing the embryo in lit it. Copied from Roxburgh's drawing,

Kit. Ahelmoachug beulneus. 2. The fruit cut transversely,

ir>. Pleurostyliia Wi^hti!—natural «'w. 2. An expanded tlwver seen from ithove—3. Ride view nf the same—4 The ovary 1-celled, CSt transversely nbove the discoid loius—5. A mature fruit^6. The tame Mil vc'rlui-ally, hliovfinj; the seed anrt position of the embryo in tiiit— 7. A net'il removed from the eiTisiile, showing the rrustaceouH aril-like te.ita spilt nt the bun —8. The same, the testa removed, so as tn bring the globose seed into full view—9. The seed—10. The same nut transversely, slid wing the tliniRM'o and embryo—U. The erabiyo in titt—13. The same Kepfrated from the need—all more or lets nik>njfed.

156 Ipoms^a pulchilln—nairun' tize. 2. Calyx, ovafy, style and stiuma—3. Tube of the corolla split open, to Bhow the insertion pf the fillaments—4. A fruit cot i rans-Tersely—nit Wort or f or magnified.

157, Ipmn*n chrysoides, 3. Calyx, ovary, style anil stigma—3. Corolla removed and split open, to show the attachment of the filaments, hut owing to injudicious shading badly represented—4. A fruit cut transversely— all more or te magnOul.

15&. Celastrua paniculaU. S. An expanded flower seen from above—3. The same seen from lielow.

For further illustration of this species sec Illustrations of Iniliu Botany, No. 12.

119, Rhamnus Wightii—natural rise. 2. An expanded tlwve, showing the minute scale-like petals opposite; the stamens—3. A froit out traivver>ely, 3-celled, with on* seed in euh ceil.

liiO. Mele-i Aiedarach—natural tize, 2. An impaneled flower—3. The ttamen lube split open, showing the position of the anthers, style, and lubed stigma—1. A full grown fruit—5. The same cut transversely, Hlmwiu^ it n S-erlltd ilrujie, iviuh a military soett in etch oell—S. The uut reiovt,!! from us pulpy covering,

101. Cfidntll Toona—natural list. i. An expandoil flwve—3. The same, tho corolla removed, showing the filaments free above united beneath, forming a cup ruum! the bust of the ovary^1. The ovary cut tiattaversely, O-celled, with two rows yf ovules ia each ceil.

EXPLANATION OF PLATES,

380. *Mucuna uilis* (Wall. MSB.) the principal difference of this species, if indeed a species and *M. pruri*a consists in the hairs of its legumes being oppressed and almost silky not erect rigid and stinging. In all other respects they sufficiently agree the flowers in both are purple the greater size of this is probably attributable to cultivation in which state only it is known.

1 Raceme natural size—2 a dissected flower—3 stamens showing the alternate long and round anthers—4 round anthers—5 long ones—6 ovary—7 the same opened—8 cluster of pods—9 portion of a legume opened—10 a seed—11 the same cut longitudinally—12 transversely—13 the cotyledons testa removed—14 embryo.

281. *Bupleurum plantaginifolium* (R.W.) perennial, erect: stems terete, naked towards the base: leaves congested towards the apex of the stem, remote on the branches, somewhat imbricating at the base, petioled, spatulate, about 11 nerved, the middle one much larger: general umbel with 8-10 rays; partial with 10-14 flowers: leaflets of the involucre and involucrel, 5-6 obovate, cuneate or oblong, decurrent on the stem, forming acute angles: fruit, prominently ribbed interstices with single large vitte.

OBS. In the accompanying figure, the transverse section of the seed is not well represented. The plant attains the height of from 7 to 11 feet.

Hab. Elk. Hill. Neighcrries.—Lieut. Munro, to whom I am indebted for the specimens.

1 A flowering branch—2 a partil—3 a flower fruit view—4 the same side-view—5 anthers—6 a petal—7 ovary—commisure of a simple inericarp—9 mature fruit the mericarps separating suspended from the carpophore—10 a fruit before the separation of the mericarps, but badly represented—11 cut transversely bad—12 the raericarp cut vertically showing the embryo. The seed, the testa removed. I had not an opportunity of checking the dissections of this figure until too late and the artist was not then conversant with the structure of this order.

282. *Zizyphus gUbrata* (Heyne:) unarmed: leaves ovate-oblong or obovate, obtuse, crenate-serrated, blabrous, coriaceous; stipules both caducous: cymes scarcely longer than the petioles: ovary 2-celled: styles 2, nearly distinct: drupe turbinate: nut hard and thick, obovate, rugose, flattened, 1-2-celled.

1 Flowering branch, natural size—2 expanded flower—3 stamens—A ovary immersed in the disk cut vertically—5 ovary cut transversely 2-celled all more or less magnified.

383. *Jvomismia nummularia* (W. & A.) petioles longer the leaves: leaflets cuneate-obovate, broader than long, retuse; racemes few-flowered, lax, much shorter than the petioles, usually on the young shoots: calyx-segments (except the lowest) about half the length of the corolla: legume strongly wrinkled with a few parallel transverse slightly branched nerves, with reticulating connecting veins, terminated by the straight mucro-like base of the style, 1-seeded.

1 Portion of a plant natural size—2-3-dissected flower—4 united filaments—5 anthers—6 ovary cut open 1-seeded—7 mature pod opened—8 cotyledons testa removed all more or less magnified.

284. *Uraría hamosa* (Wall.) shrubby, diffuse: young parts clothed with short hooked hairs: leaves simple and trifoliate; leaflets elliptic or roundish, sometimes emarginate, glabrous above, softly pubescent beneath: racemes axillary and terminal, hispidly hairy, before expansion of the flowers oblong or cone-like and imbricated with bracteas, in fruit becoming much elongated and lax; bracteas caducous, ovate with a long subulate point, hairy; pedicels shortly hairy, incurved at the apex. calyx shortly hairy, short, not longer than the first joint of the fruit: upper lip 2-toothed: segments of the lower one ovate-acuminated: legume 2-6-jointed, pubescent.

1 Flowering branch—2 dissected flower—3 legume—copied from Roxburgh's drawing.

285. *Lourea vespertilionis* (Desy.) lateral leaflets none, or small, obliquely cuneate at the base and truncated at the apex; terminal one sans verse, about 10 times broader than long, tipped with a spiny bristle, 2-lobed; lobes divaricating, oblong-lanceolate, falcately re-covered obtuse.

1 Flowering branch—3 dissected flower—3 ovary—4 legume—5 seed—copied from Roxburgh's drawing.

286. *Pseudarthria vudda* (W. & A.) diffuse, prostrate; lateral leaflets obliquely ovate, terminal one rhomboid-ovate, pubescent on the upper surface: when old shortly villous on the under: racemes filiform, elongated: bracteas subulate: legumes 3-4-seeded, 3-4 times longer than broad.

1 A branch in flower and fruit—2 a flower—3 stamens and ovary—4 calyx—5 stamens 6 anthers—7 legumes opened—8 seed cut longitudinally—9 the same testa removed.

287. *Cleomeaspera* (Koen.) herbaceous, glabrous, rough with minute scattered prickles on both the stem and leaves: leaves trifoliate; leaflets oblong, many times longer than the petiole: stamens 6; siliqua terete, torulose, glabrous, attenuated at the base, but quite sessile, acuminate with the subulate style: torus inconspicuous.—a; leaflets obtuse or slightly acute.

1 Vlant natural size.

1& *Trianthema obcordata* (Roxb.) perennial; stems diffuse, prosily pubescent on the upper side: leaves, one of each pair la, We nr obcordate, the other smaller and oblong: flowers with two spreading teeth, if capsule 6-8-seeded; lid coulike, and including one seed, quite closed at the bottom, naturally—5 the capsule after det

base—4 the same cut dissected seed. biforoil ylx ft ^ ed into landed* corolla

288. *Uraría Lagopoides* (DC.) suffruticosa, procumbent, rooting at the joints; stems terete, pubescent: leaves simple and ternate; the terminal leaflet much the larger, roundish-ovate, sometimes emarginate at the base, obtuse, mucronate, sprinkled with a short scabrous pubescence: racemes terminal, conical-oblong, dense, very hairy; pedicels shortish, incurved at the apex, and with the calyx densely bearded: upper lip of the calyx short, the segments ovate-acuminated; lower reflexed, the segments elongated and subulate-setaceous: legume 2-jointed; joints orbicular-ovate, polished.

1 A flowering branch—2 flower—3 legume.

290. *Uraría Alopecuroides* (Doodia Alopecuroides Roxb. fl. Ind. 3.369.) perennial, diffuse, the tender plants clothed with small hooked bristles; leaves ternate leaflets oval obtuse racemes imbricated and resembling a flozees tail from the hairy of the calyx tracts and incurved pedicels which bend the two jointed legumes against the rachis the upper lip of the moneste and two toothed, ittoxb.

1 A flowering branch 2-3 dissected calyx and legume.

291.292. *Desmodium trilorum* (DC.) procumbent, diffuse: leaves trifoliate; leaflets orbicular: obovate, or orbiculate, more or less pubescent or hairy: stipules scanose, lanceolate; peduncles axillary, solitary or fasciated, 1-3-flowered: calyx-segments acuminate: vexillum obovate with a long claw; style bent acutely near the summit, and tumid at the angle: legume hispidly pubescent, 3-6-jointed, notched 1 a to the middle on the lower margin, even on the other 1 joints truncated at both ends.

293. *Desmodium quinque-angulatum* Hedysarum quinque angulatum Roxb. herbaceous diffuse 5 seeded hispid: leave teruate; leaflets oval downy; stipules cordate: racemes numerous: flowers paired: legumes hispid sex-jointed notched on both margins. Roxb.

OBS. In our prodromus we have united this with tab. 298—11. au ricutatum & *Desmodium diffusum* D. C. and I believe correctly: as however Roxburgh thinks that they differ specifically in the stipules and shape of the leaflets, independent of their duration (this he describes as perennial that as annual) I give butures—N. B. for quinque angulatum on the plate substitute quinque angulatum. Roxburgh's specific name.

291. *Desmodium gyrans* (DC.) suffrutescens, erect, twiggy; branches rather slender, angled, glabrous: leaves petioled, trifoliate; leaflets narrow-oblong or oblong-lanceolate; obtuse at both ends, glabrous above, addressed-pubescent beneath; the lateral pair very small: racemes axillary and terminal, numerous towards the top of the bianches, and forming together a large panicle: bracteas broadly cordate, concave, before expansion densely imbricated over the flowers, caducous: flowers short-pedicelled: stigma elongated laterally and as if 2-cleft; legume flat, pubescent, straight on the upper margin, creased on the lower, 10-12-jointed.

A urach in flower and fruit copied from Roxburgh's figure.

295. *Jvomismia capitata* (W. & A.) petioles above the length of the leaves: leaflets nearly orbicular with a cuneate base: racemes penduncled, many-flowered, longer than the leaves, with a slender leafless and somewhat abortive young shoot springing from about the middle of the peduncle; the noxious portion at first somewhat lax, soon becoming very flexuose twisted up and resembling a capitulus r calyx-segments long, subulate, forming a short hooked point to the flower-bud during stivation: vexillum not striped: legume marked with numerous close parallel transverse veins, terminated by the hooked base of the style, 2-seeded.

1 A branch in flower and fruit natural size—2 a flower -3 the same dissected—4 stamens—5 anthers—6 ovary two seeded—7 a legume—b the same opened used *insitu*—9 a seed detached—10 the cotyledons, the testa removed—11 one cotyledon shewing the embryo*—all more or less magnified.

296. *Trianthema decandra* (Linn.) annual. stems diffuse, prostrate, glabrous or pubescent on the upper side: leaves elliptic, obtuse or acute, petioled, one of each pair a little larger than the other: flowers several, pedicelled on a short peduncle, accompanied with scarios bracteas and bracteoles: sepals membranaceous on the margin: stamens 10-12: style bipartite: capsule 4-seeded, with a spurious dissepiment; lid slightly 2-lobed at the apex, nearly closed below, nut-like, and containing 2 seeds.

1 Flowering branch natural size—2 a flower forcibly expanded—3 ovary—4 stamen—5 ovary cut transversely—6 ovary cut vertically—7 a capsule cut vertically—8 cut transversely—9 a seed 10 the same cut vertically shewing the embryo curved round the farinaceous albumen.

297. *Ormacavpum sennoides* (DC.) young shoots, petioles, peduncles, and calyx, covered with soft glutinous hairs: leaves unequally pinnated; leaflets alternate, 4-6 pair, obovate, retuse, slightly mucronulate: calyx evidently bilabiate: stamens equally didelphous (5 and 5): legume 2-5-jointed: joints striated, armed with minute prickly warts.

1 A branch in flower and fruit—2 a dissected flower, copied from Roxburgh's drawing.

298. *Desmodium diffusum* (DC.) herbaceous, procumbent, diffuse, branched: branches 4-5-angled, hispidly pubescent: leaves trifoliate; leaflets oval, pubescent on both sides: stipules large, foliaceous, auricled and stem-clasping: racemes terminating every branch, very long: bracteas small, lanceolate, 2-3 together: flowers in pairs or threes: legumes ascending or nearly erect, 5-6-jointed, notched on both sutures, hispid with short hooked hairs; joints orbicular, tumid in the middle when mature: seeds oval, compressed, with the hilum at one of the narrow ends.

1 branch in flower and fruit—2 a dissected flower—3 a legume—copied from Roxburgh's drawing.

... Cms. Flowers bi...
... rmlnLnh, stnmrri
... hortpr, duk u
... simulr, i>'
... iiiiuu-.

The simple leaves ...
... of my plant worn in inifcate lip. It is ...
... in the ... of the ...

£36. P t Cbkmatunm, R. W. Ari ...
... link-
... i. Bi ...
... iiii-1

... A ti ...
... iiii-1

... CuutiDI'
... iiii-1

... iiii-1

... B.amMaria, W. nd A. Prod.)
... iiii-1

... iiii-1

... iiii-1

CEIUOP9, iAm.)
... iiii-1

240. C. GiiKWrtia. Am. I, ...
... ppiit* gUlJruun tin; mnrriu, with 1-2 or i nap!

1. Ploi
3. A V ...

ryrlm H'ritlrfnma, Arn, SpAartxkfi/a Wa'
ana A. ... ST. p. ISO.

1 A I-
... iiii-1

Dr. AmotI null [iulil]cd In '... j.-i.;ul • ... Bi.i.i

BCLIBOFRUM (Santalum)

... iiii-1

... iiii-1

in & i*IA ' ... -Tilu.mii

... iiii-1

... iiii-1

Enn II
... iiii-1

I pro ... nft lo

iruften of i
... iiii-1



Pongia del

A. W. - 54

Cera-dura S
Leg. H.

Gualluca longifolia Wall.
Uvaria longifolia Roxb.

Asokum
Nellingsam.

Calicut



Rangas del
 Asia Parava
 Malabar
 Corda ...

Phanisia viscosa (L.) V. A. S.
Crome viscosa L. Hist. Nat. Ind.

...
 ...
 ...

Coryphyllaria

5
180



Angia del

Mollugo disticha (&)

L. B. 180



Argis del
 Des. & Guss.
 Litta inculta

Libretonia pomboni (Fig. 4/)

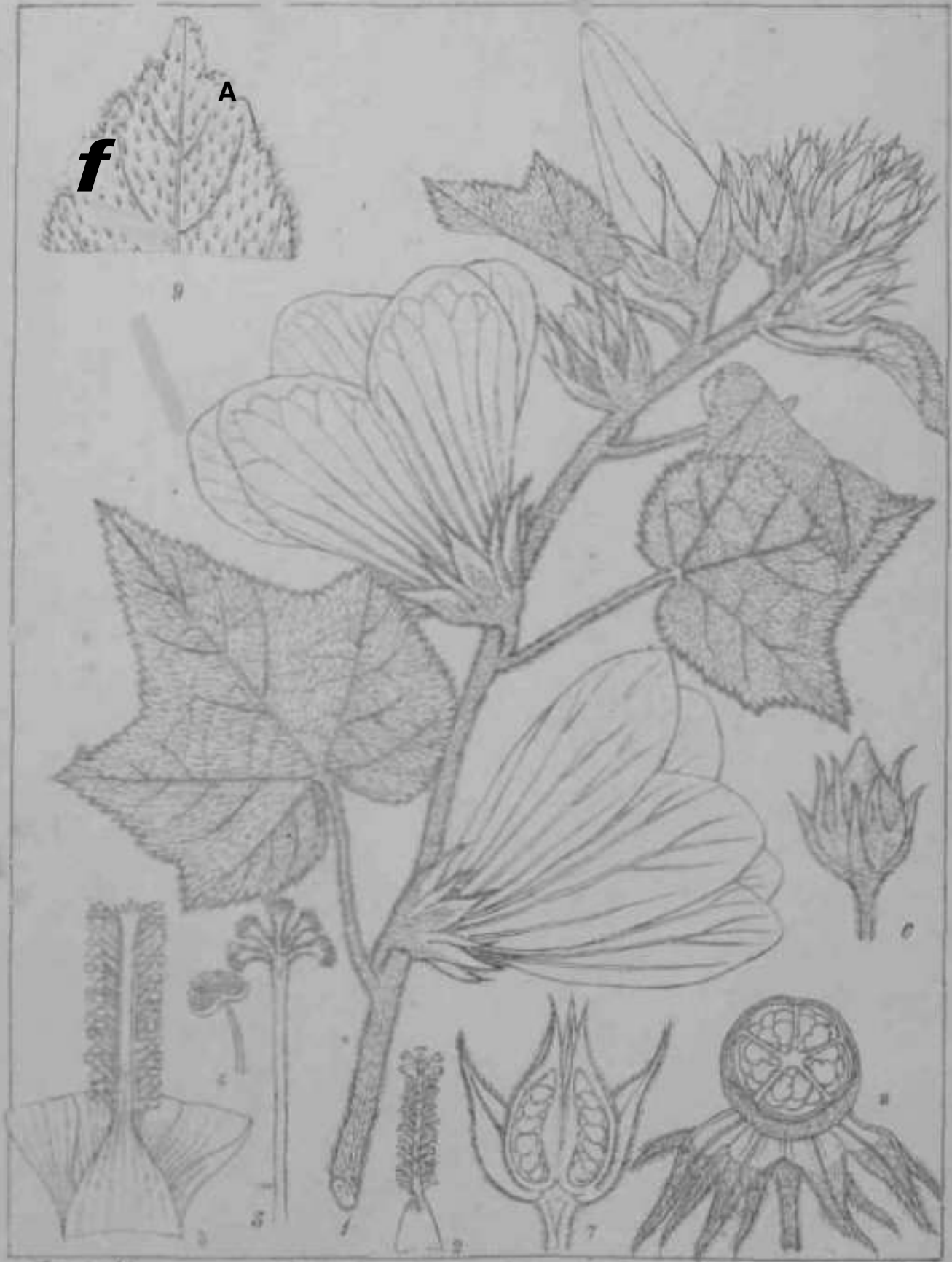
R. W. H.



Rangia del.

Hibiscus pomifolius (Cav.)

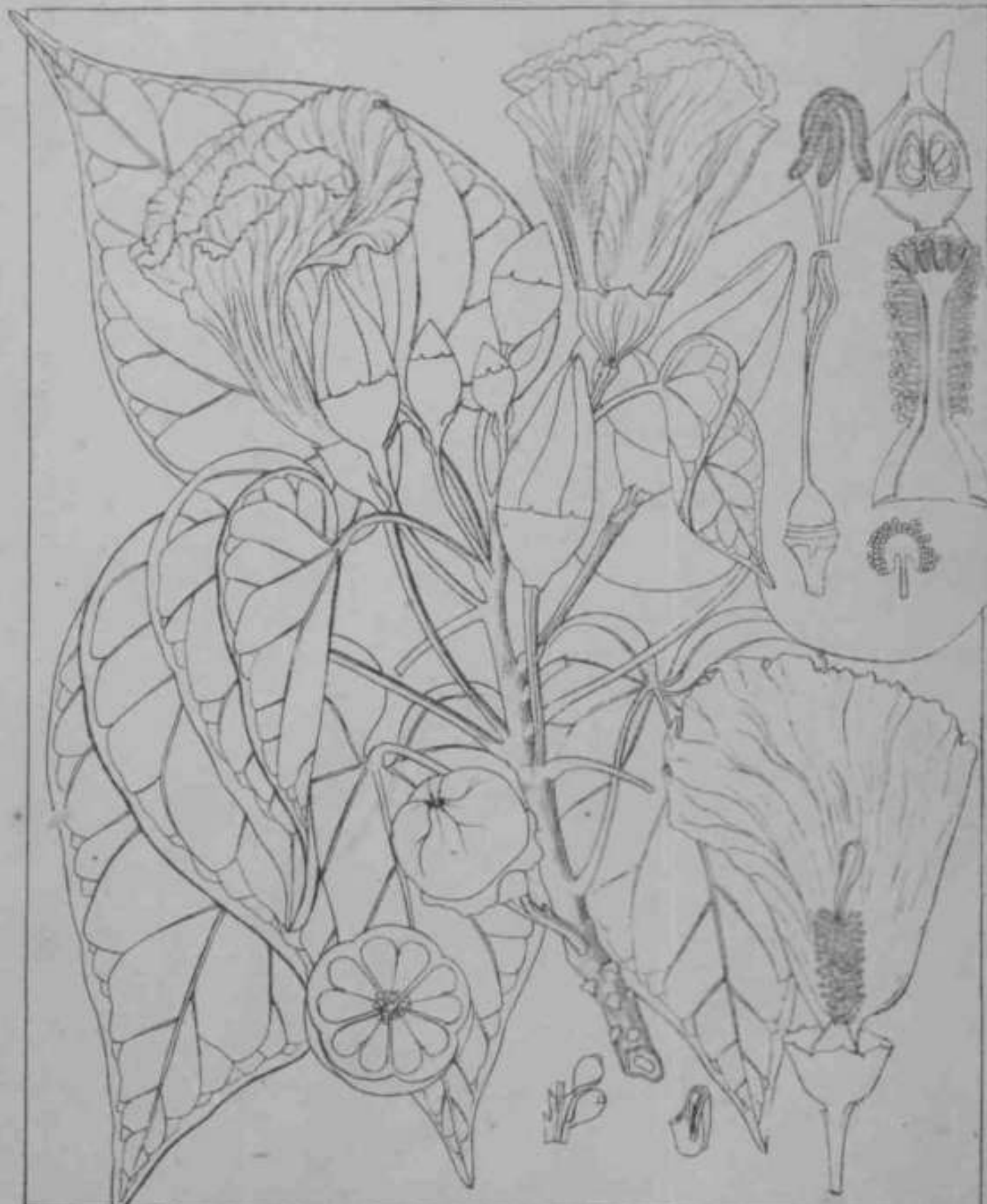
L. W. C. del.



Longia Willd.

Hibiscus lunariifolius Willd.
H. pruriens Roeb Fl. Ind. 3 pt 196

S. W. L.



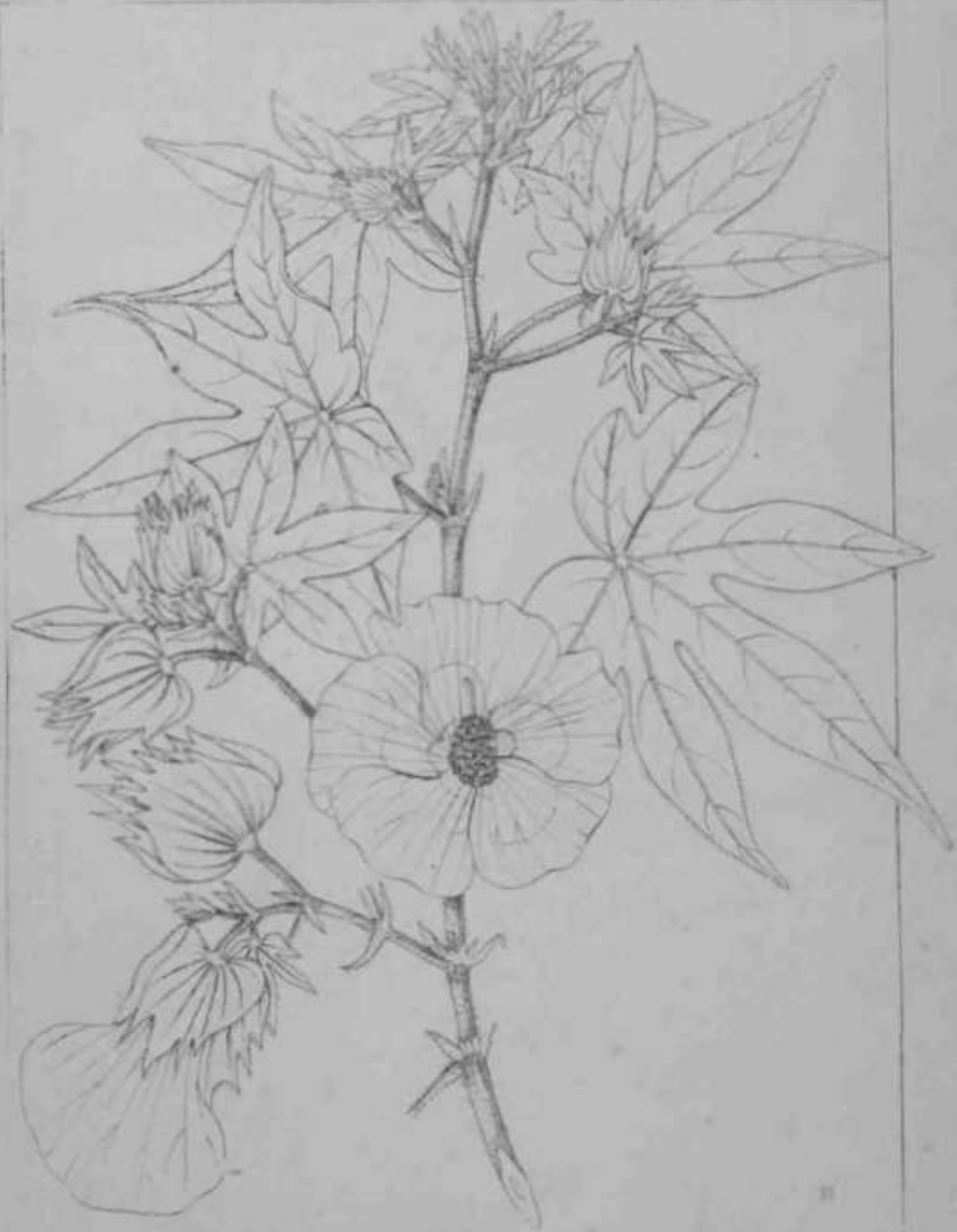
Rungia del
 13 21 22 23 24 25 26 27 28
 Thespesia populnea, Lam.
 Ghongherania populnea, Lal.

Thespesia populnea (Corr.:)
 Hibiscus populneus Linn.:

2. 107
 Thespesia populnea
 Lamour. 1827

Malvaceae

102



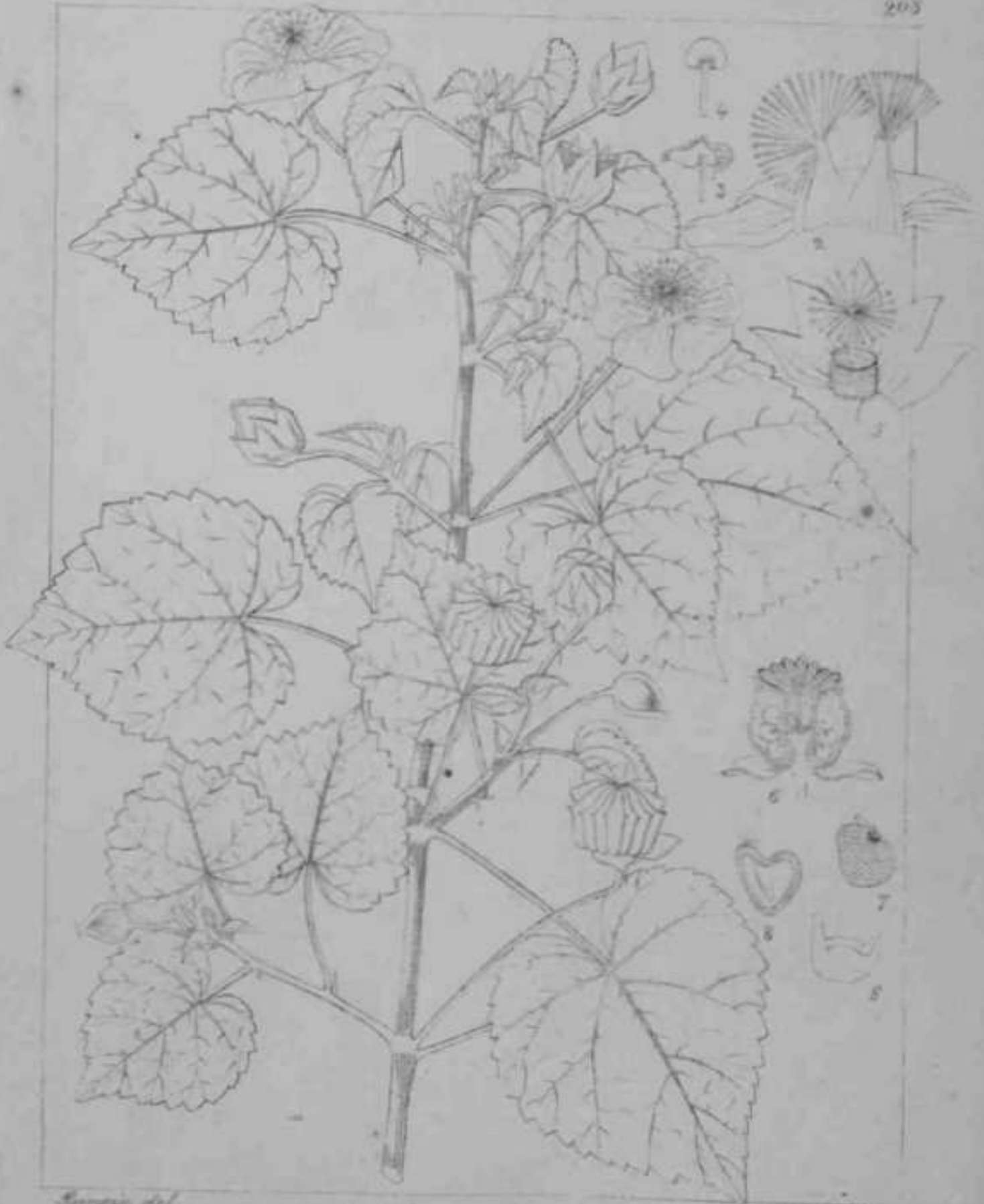
Gossypium arboreum
From Royal Illustrations 1852

Flora

17



Gopypurum tuberosum
Kew Royal Illustrations. 17



Bergia del
S. P. S. S. S. S.
Solla etc. etc.

Abutilon indicum (L. Don.)
Abutilon indicum. *A. populifolium* Lamour.;
 Country mallow leaf.

S. P. S. S. S.
 S. P. S. S. S.
 Solla etc. etc.



Alouatta
sp.
Barro Colorado

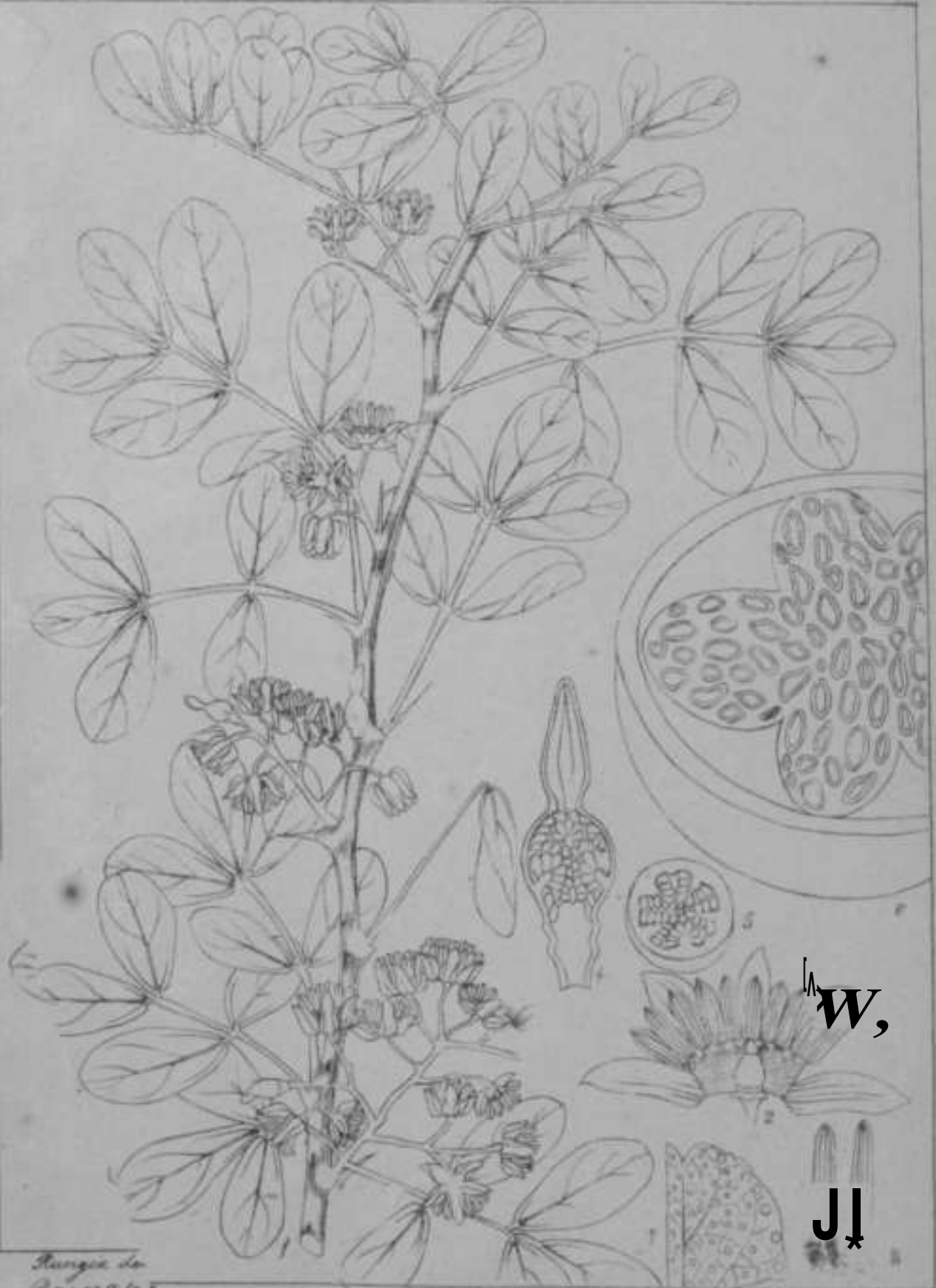
Bergia Koenigii (Linn.)

8*U«ag#
 1955-6
 Harri-nymphaea

Saurauciaceae



Clausena Willdenowii (B. & A.)



Xerania L.
 B. 11. 10. 11. 12. 13.
 Vallam. m. 12
 Caltivella. m. 15
 Lam.

Xerania elephantum Corr.
 Hood apple tree

B. 11. 10. 11. 12. 13.
 Vallam. m. 12
 Caltivella. m. 15
 Lam.

W,

J



*Sampun del
V. H. B. G. L.
V. H. B. G. L.
V. H. B. G. L.*

Citrus Aurantium Cav. Desf.
Citrus Aurantium Willd.
C. deliciosa Pers. Mart. Presl. et Vahl.

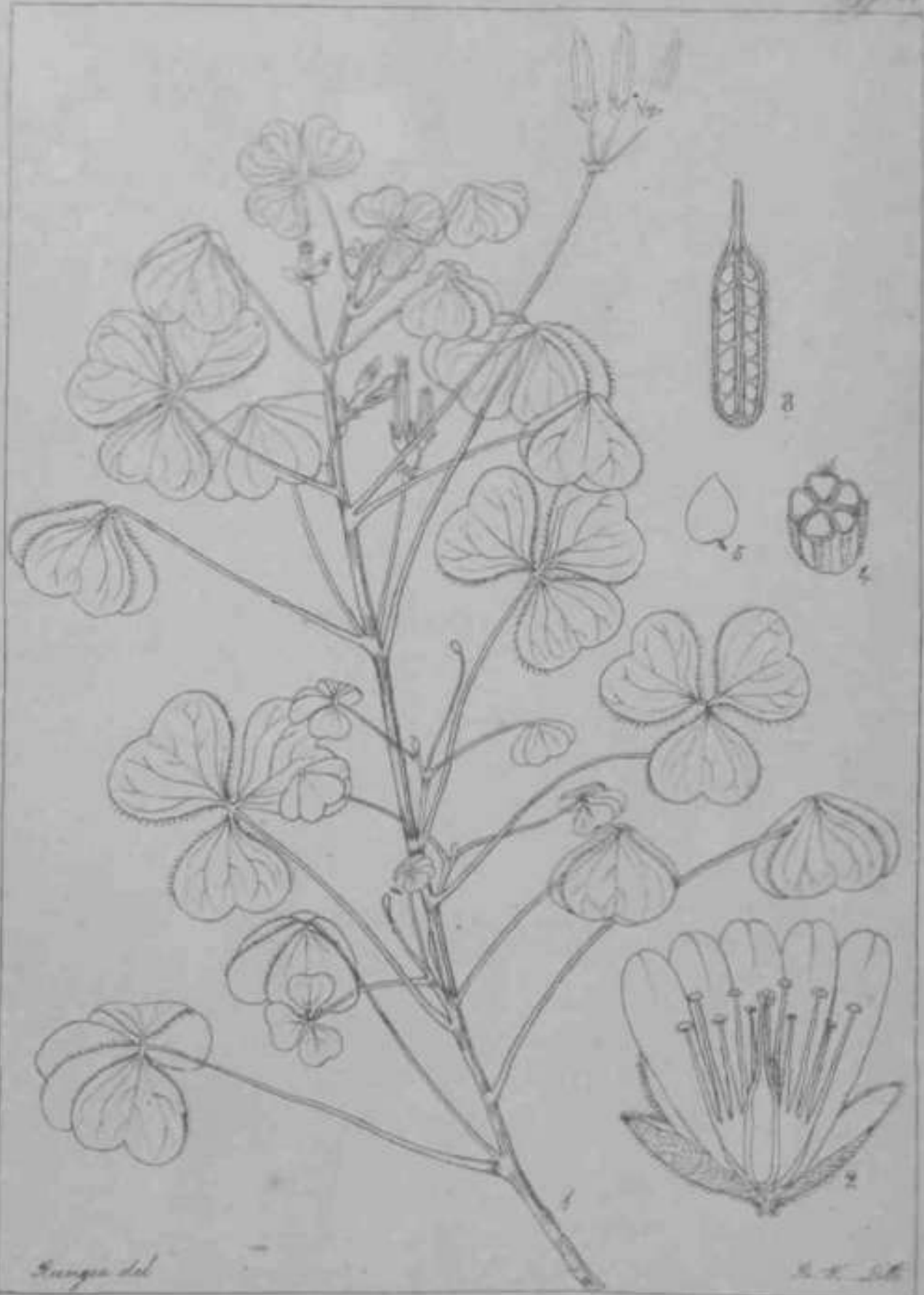
C. Aurantium
Citrus Aurantium
Citrus Aurantium
Citrus Aurantium



Rangoon
 ...
 ...
 ...

Cyadiraachta indica (Ad de Juss)
Melaleuca indica Linn.

N. 2. 2. 2.
 ...
 ...



Francia del

E. K. Sch.

Botanischer Garten
Göttingen
1847

Ornithoglossum coccineum (Lam.)
Kuntze

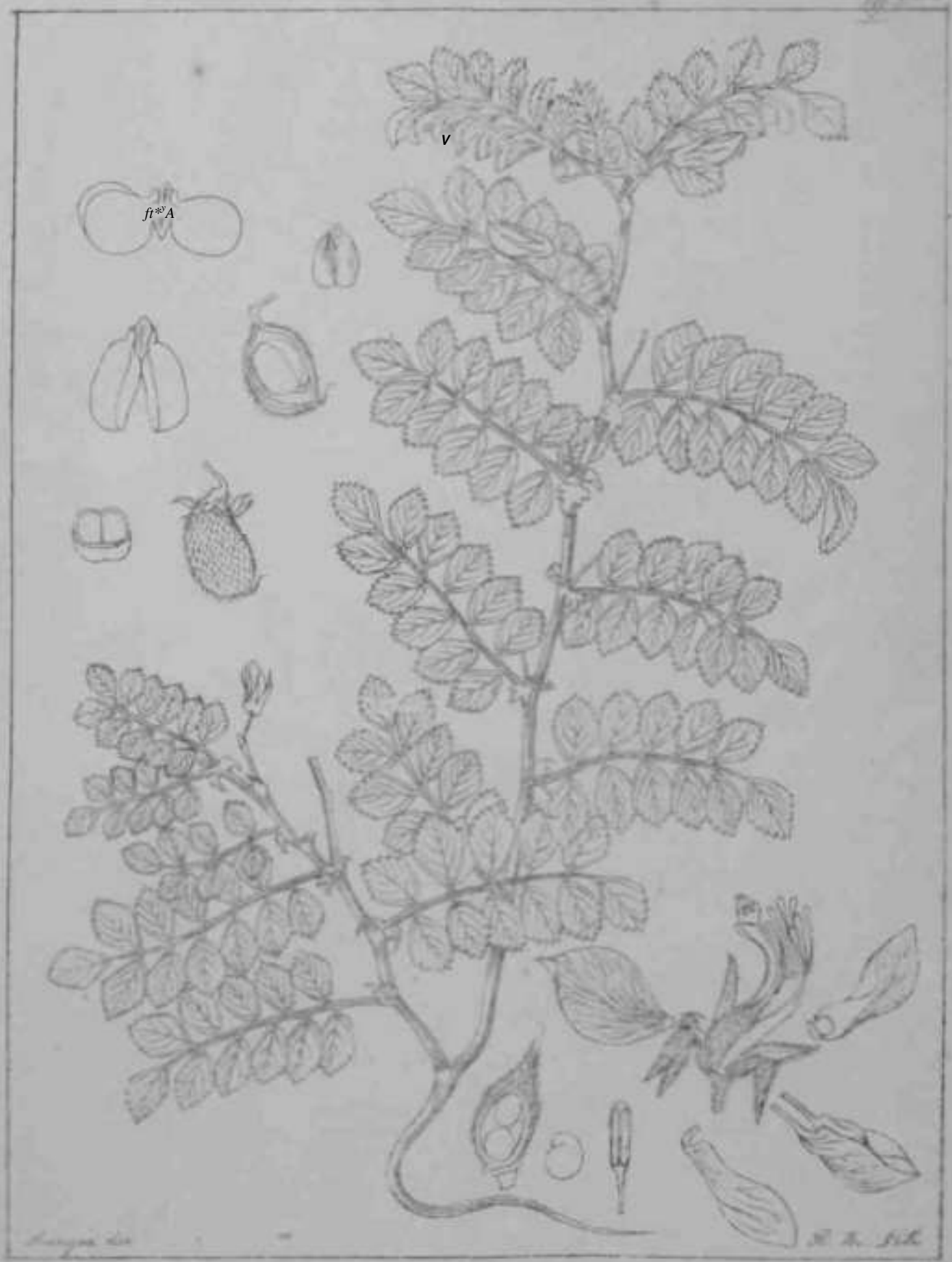
Flora de la Capa
1847
Kuntze



Large etc

Rhamnus parviflora (Hall.)

R. H. S. H.



Bengal

R. H. Sch.

Ligularia
 fl. and
 seedling

Ligularia arifolia (Linn.)
 China or Bengal

752 m
 Swinhoe, J.

Cappariidea

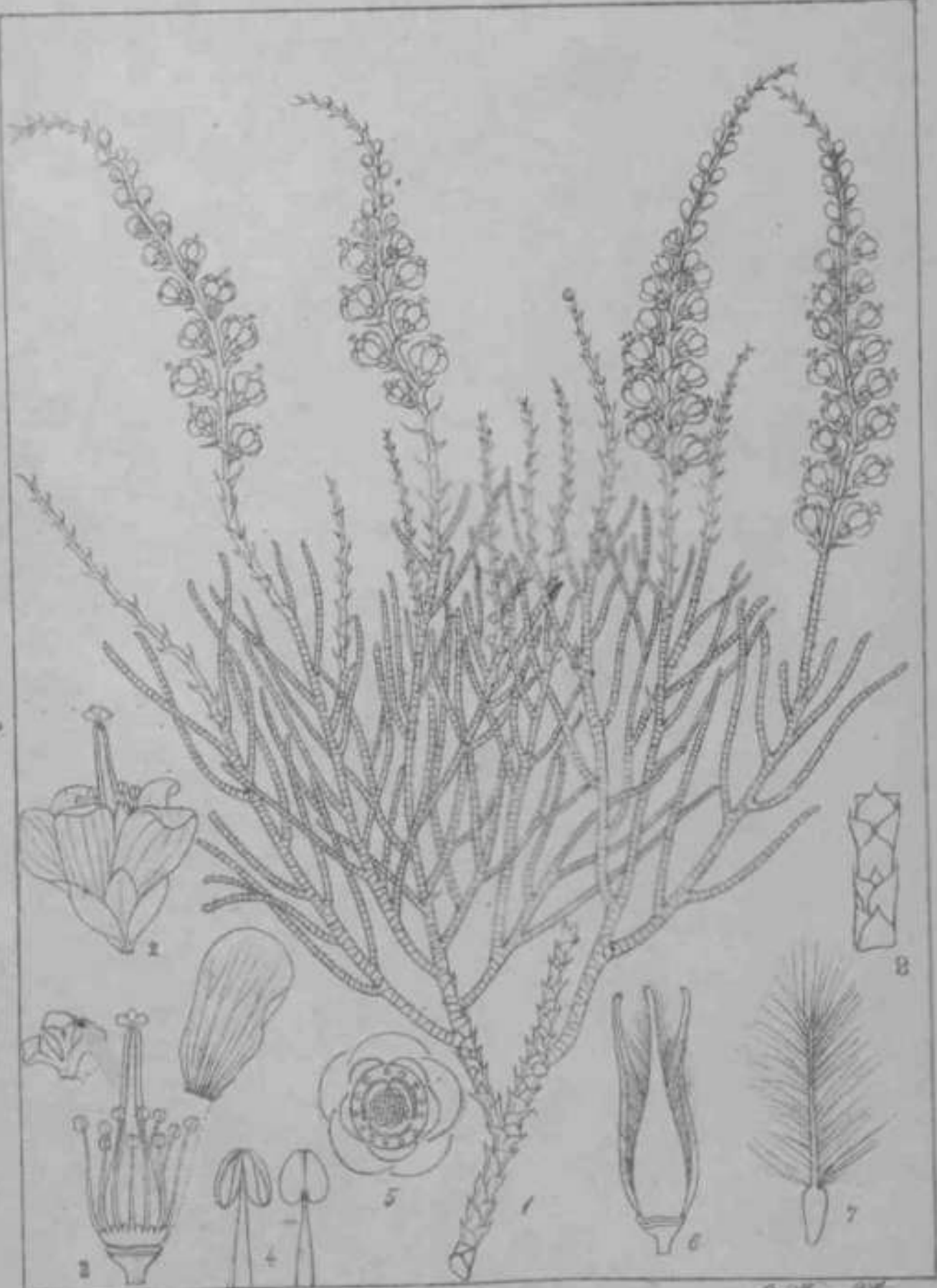
221
73



Boissier del.

A. N. Sib.

Capparis grandis Boiss.



in del

Tichaurus vicoides Arn.

A. N. P. H.

L. per



Scopio del

E. V. Pitt

Melhania abutiloides Arn.

1/2 in



f. -miS

Niphelium rubrum
Soytalia rubra Roxb.

Asplenium platyneuron

1852. 11. 11. 1852

28



Asplenium . 11

Asplenium platyneuron
Asplenium platyneuron Swartz.

Figure only, not 1852 of the original size

S. W. 1852

A. leptocarpa

20
297X800

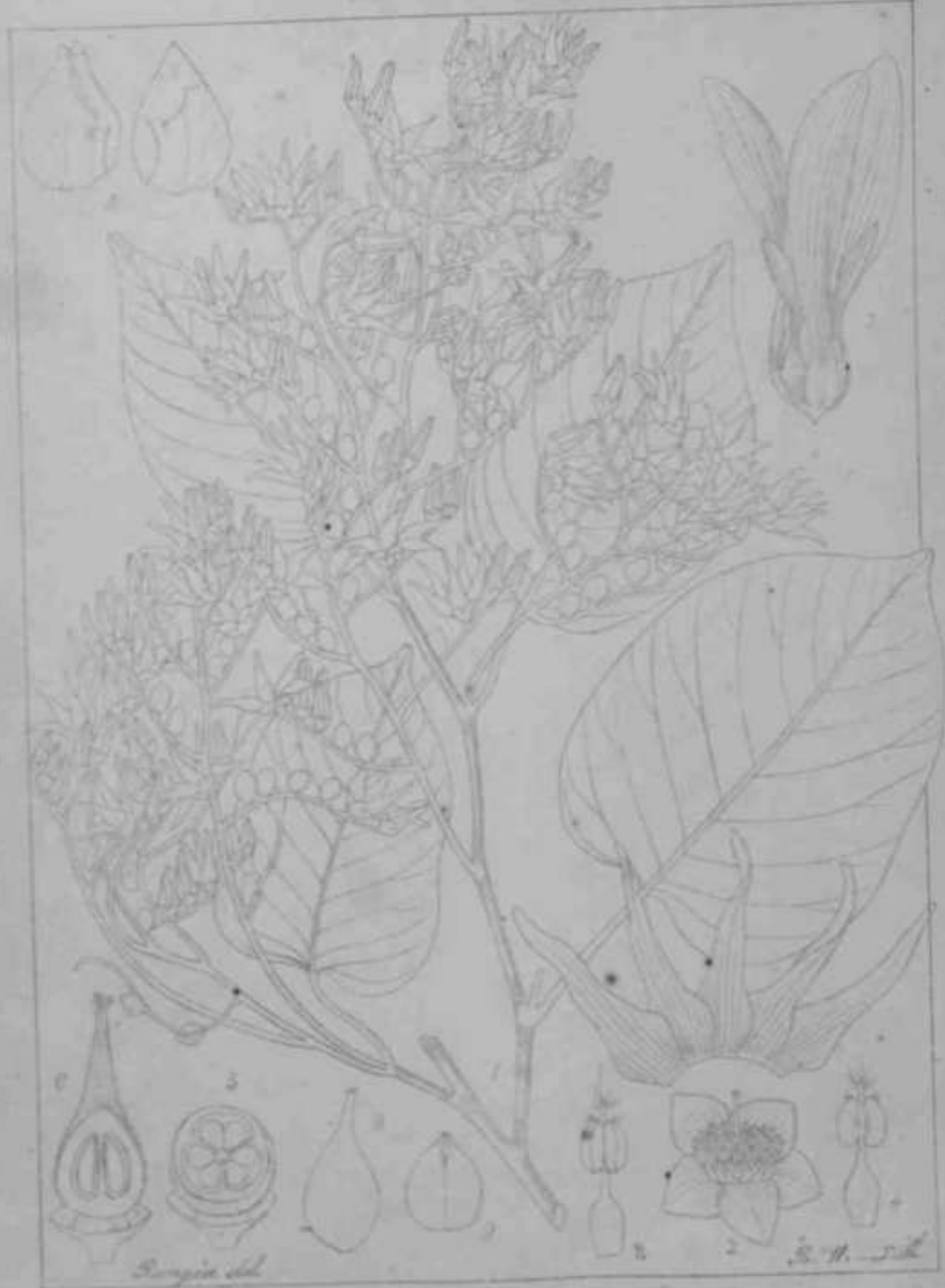


Barry del.

Vale >*ta *Archburgiana* R. W.

1881

D



Singap. Bot.

S. H. S. H.

Vatica Swinhoeana (V. v. a.)



Sanguin del.

Vitis lanceolata (Halt.)

S. K. Bk.



Y. Sengwa & C. S. 4

Rotularia speciosa (Leg. W 1

20
503

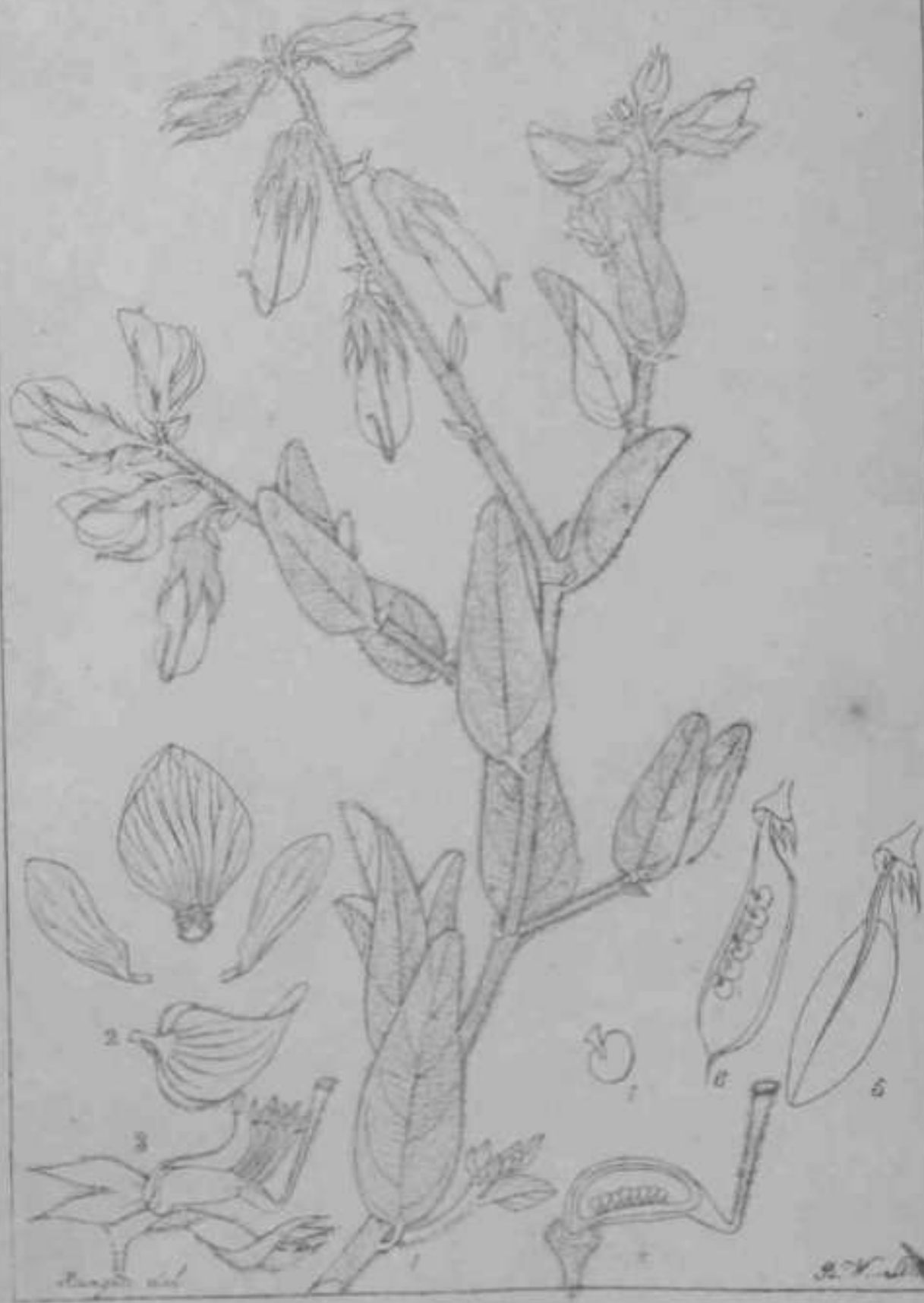
Leguminosae



Crotalaria bifurca (Linn.)

Crotalaria bifurca Willd.

fruct. foetida P.B.



Aotabaria rotundoides (Night)

Casim-chumbai var.

Rechyromenie Seston, Linn.
Arionella, Seston, Willd.

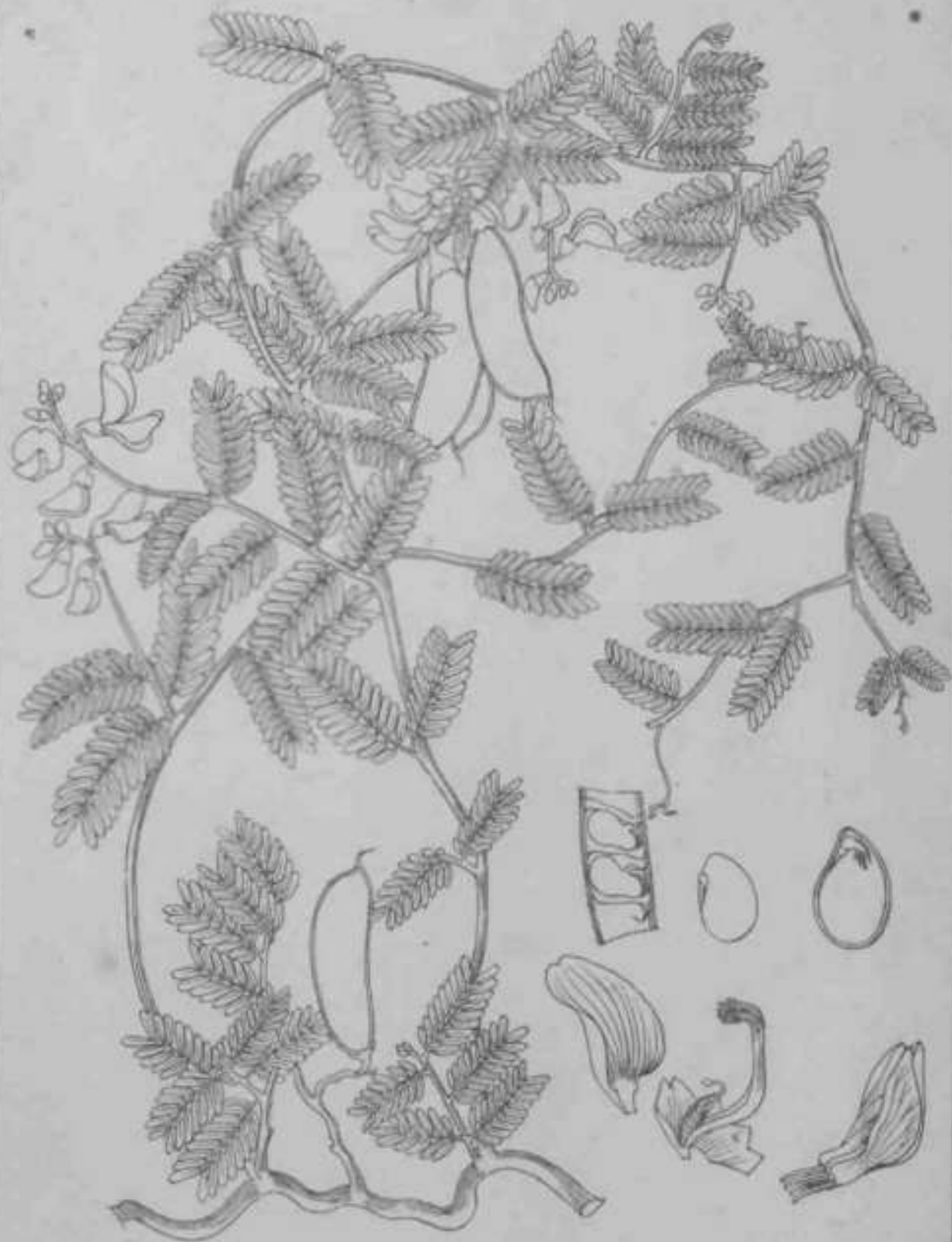
Nalla-somalla var.
 fruit, fig. 13.



Rancho del
 65505000
 Casim-chumbi

Sebania appiaca Pers.
Aeschynomene seban. Linov.
Arnonilla, Sebania Willd.

A. N. S. H.
Stalla sermilla Sol.
 Jacq. f. gual. 75.



Rungia del

Thamphay, Siki

Goodenough

Alnus fusciculosa (Herb. Madr.)

சிங்கநெடு

Conda muricata, Lam

Chinna Gooie-gheya... J.

Rungia ...

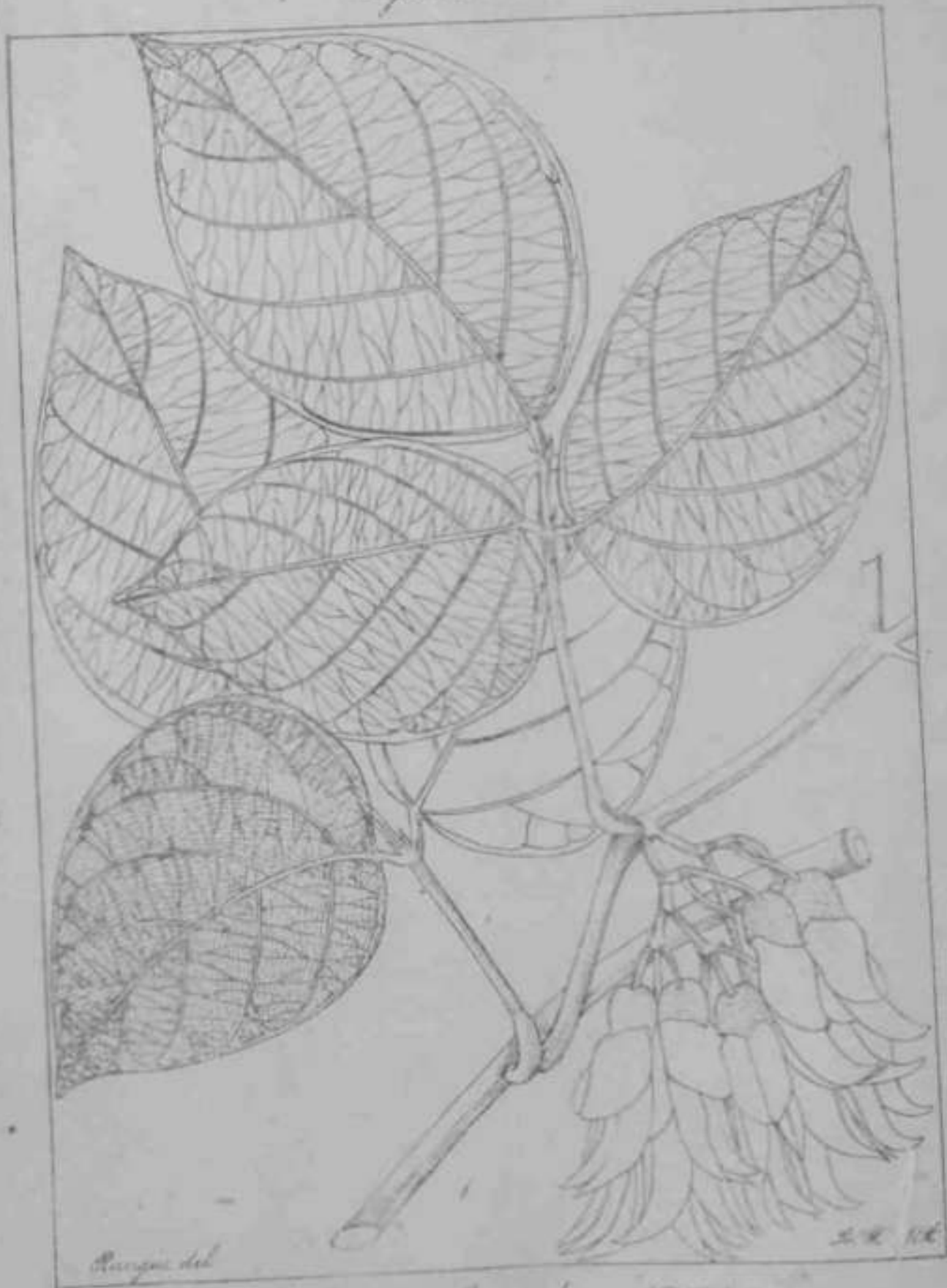
Leguminosa



Luzerna del
Humboldt. B.

Phaseolus rostratus (Thell.)

K. K. Sch.
Humboldt. B.



Arceuthobium
 Gaeoplecton
 Ptilis - cordata Linn.

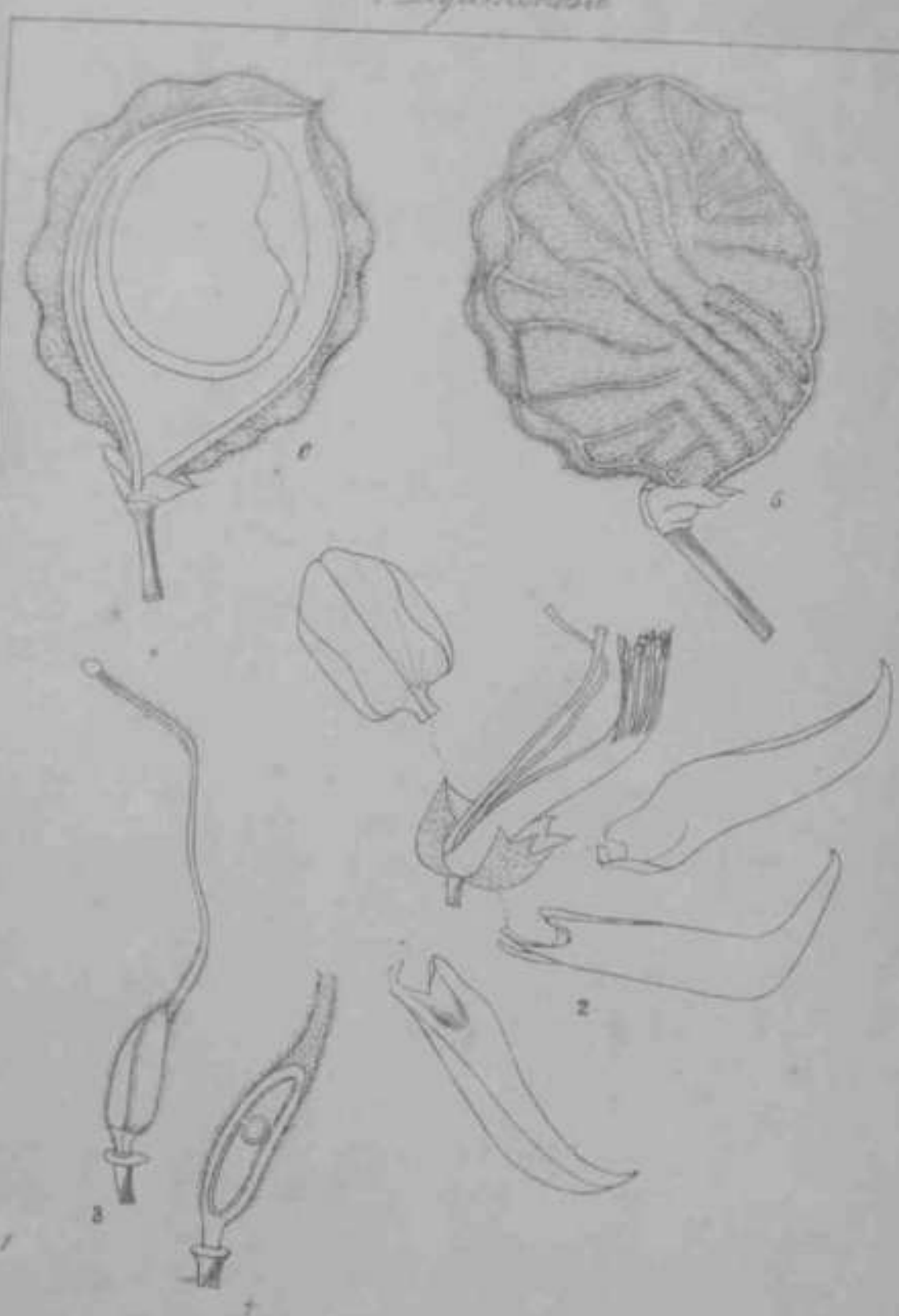
Muzana monosperma (D.C.)
 Casipora? Pinnis (Linn.)

118-119

22 18

Ligumeroso

181



Arceuthobium
 Claviceps
 Follis. Codic. Lam. *Arceuthobium monosperma* (D.C.)
 C. B. S.



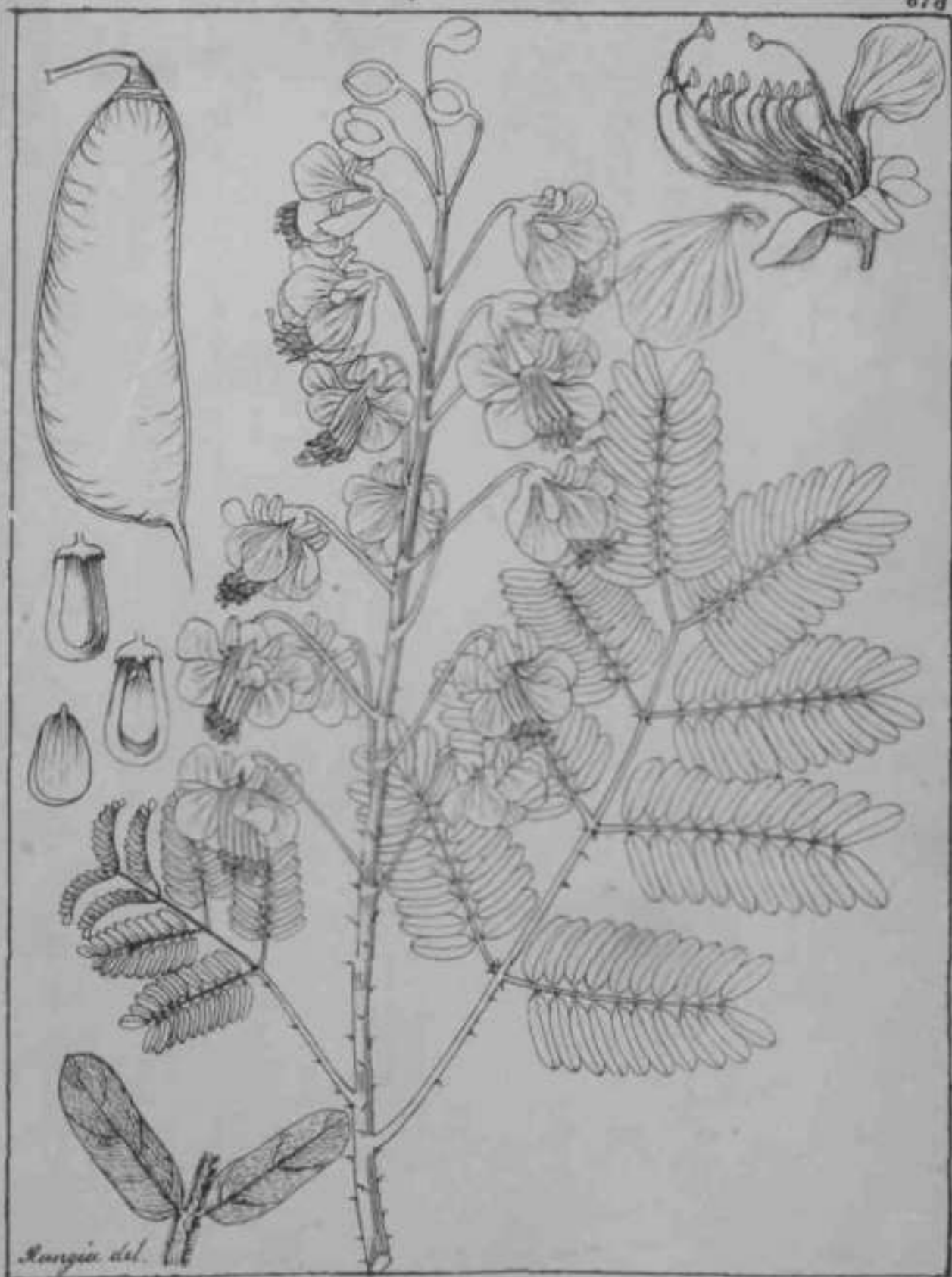
Cassalpia Hill

S. G. Hill

Cassalpia parvicaule (Roxb.)

Leguminosa

27
878



Casahuate (Roxb.)



ini

1

n.

Rosaceae

Rosa Lischkeana (Reich. & Hort.)

Rosaceae

1

Rosaceae

Paspiflora

100



*Rangia del
W. & D. 1844*

Paspiflora Lichonaultii (D.C.)

*R. W. Sit
Malay-jambly.*



Kunzia del
 L. 1789
 Linnæus Martens. Linn

Guadarda speciosa (Linn)

Dumphy. Bot
 Linnæus Ka. Juss. Gled.
 Linnæus Martens. J



JH

:

.

Frangit del

7-4?

Malvastrum indicum (Linn.)



Pycnoschistia crotoneifolia (H. & A.)



Litchi '8

Nephelium Litchi
Lycialia Litchi Roxb

A. T. Pitt
Recher. B. B.



Boiss. - *Fl. Ind.*
Thoult. - *Fl. Ind.*

Grewia columnaris (Sm.)



Rangia del.
 ৩৯৭৪৭.
 সিংহলী. লাম

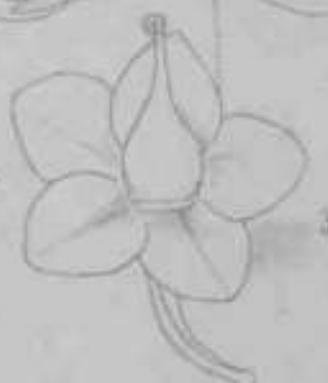
Grewia rotundifolia (Suss.)



Francia del

Elaeocarpus oblongus Garb.

Fr. H. B. K.



Rangia del

B. H. Kuhn

Cleyera gymnanthera (V. A.)



Rungia del

A. T. B. L.

Thalictrum glyphocarpum (N. S. A.)



ft

m

r

4? Se[^]

Ranunculus

Ranunculus subpinnatus (L.) Willd.

4f s



Gouan. l'her. B.

Vitis pallida (W & A)

Mexico, Sigel. Bot.



Ampelis det.

Quercus det. [unclear]
Cornus det. [unclear]
Lonicera det.

Vitis quadrangularis (Walt.)

5 18 17.
Kullerström det.
Walt. herbar. 1777.



Neurocalyx hookeriana R.W.



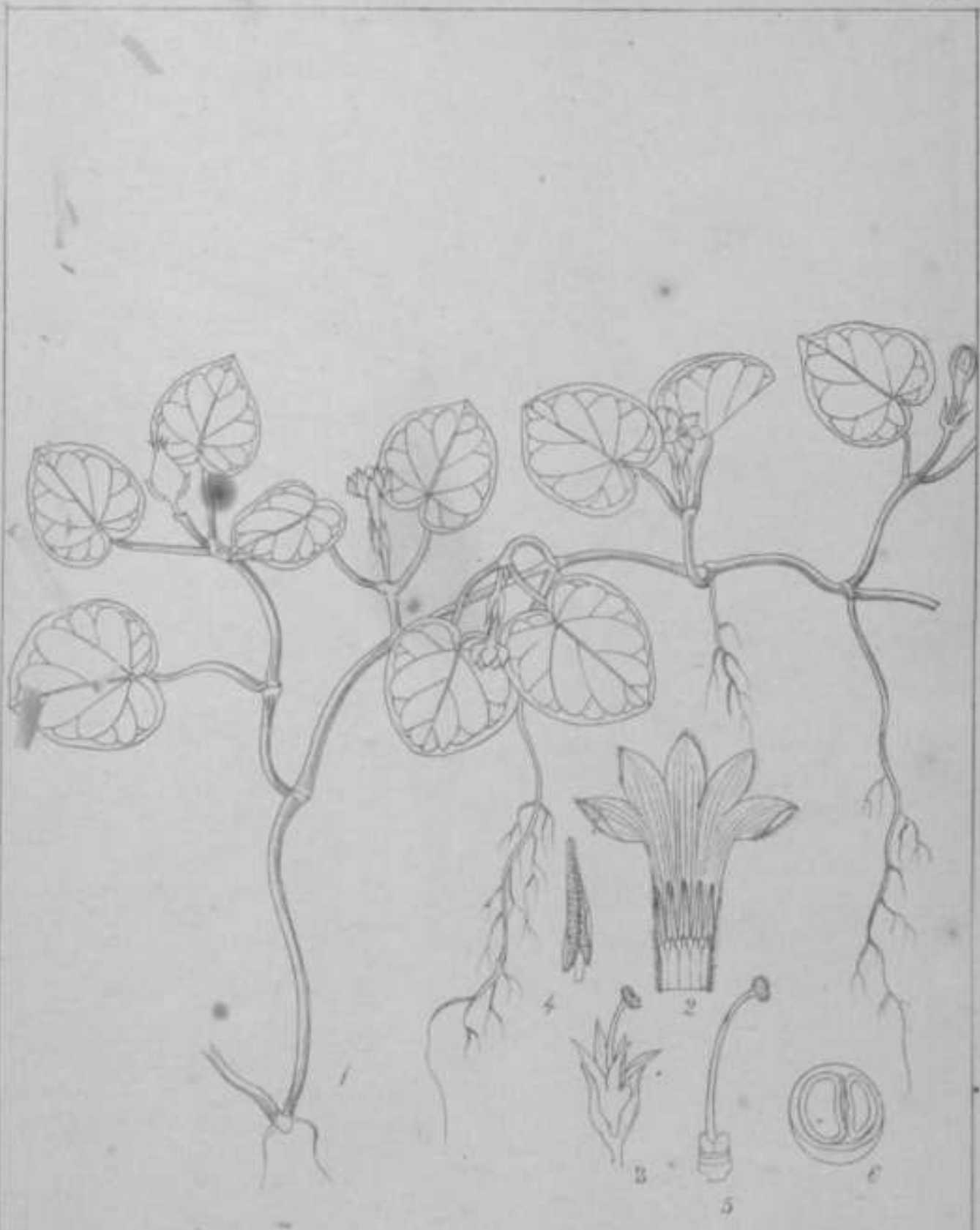
Frage del

R. W. Sch

ESPERANZA del
Cappia del

Coffea Arabica (Linn.)

Rever. P.
S. K. Sch. del.



Geophila Del.

R. H. Pitt

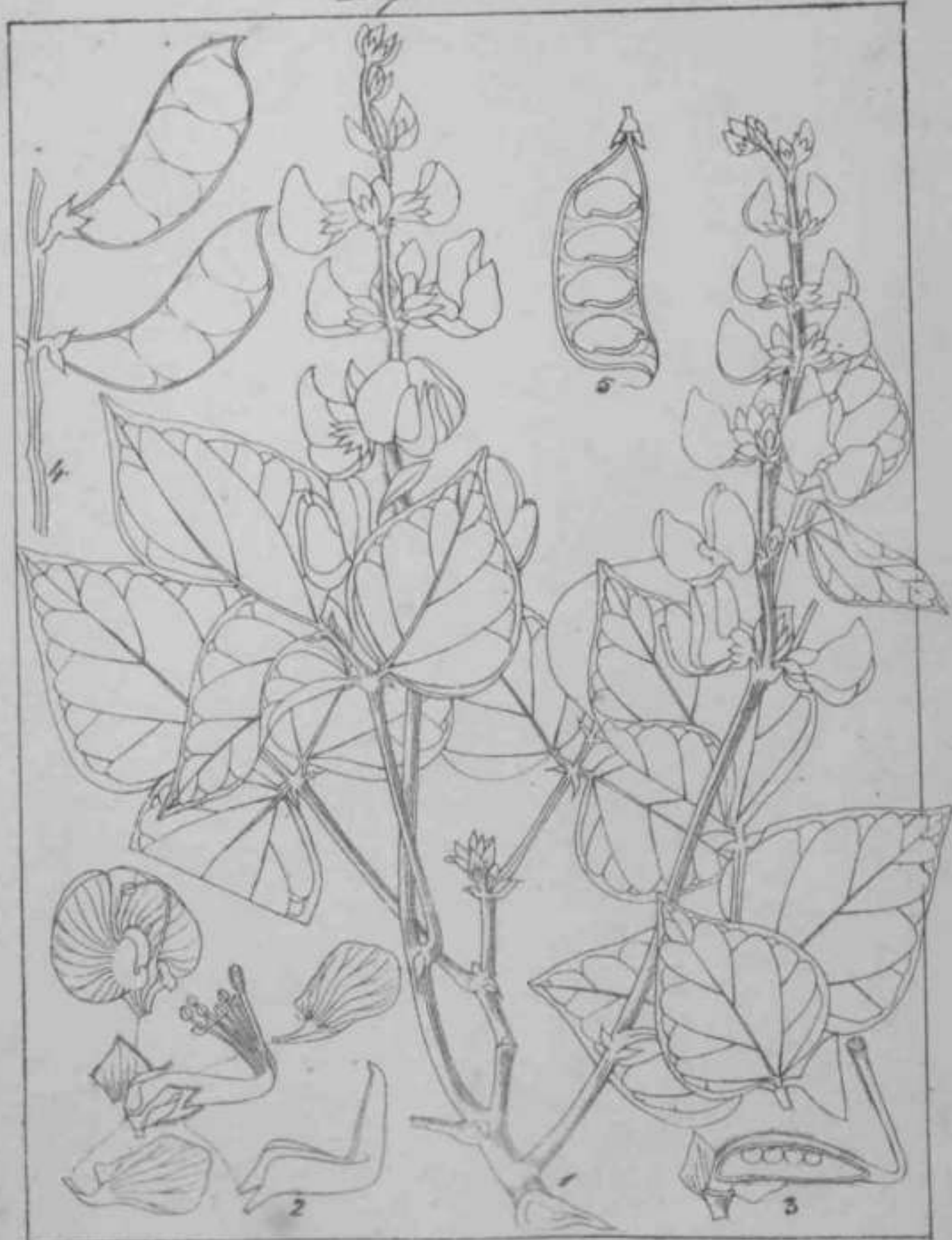
Geophila non-floris (Dumr.)



Salacia pemifera (Wall.)



Hypericum perforatum Linn
Hypericum perforatum



Rangca del
 ၁၂၀၀၀၀၀၀၀၀၀၀၀
 Mulochay cotton-**£^**
 Nispawa, shaw.

-Ja^/w^aw efei

Swampy. Bk
 ၆၇၅၅၅၅
 Aromasta Id



1939 June 6.
Mucuna mucronata Lam.
 Mandara ...

Crytharid Indica (Lam.)
 Mootka ... or Mootcho wood

6034/34
 Chatsworth House



Bunga del
1/2 m. rt
Pongamia glabra, L.

Pongamia glabra (Vent.)

Quincy, Litt
8-585-10

>WU(*Pongamia glabra, L.*

Tetradintha fa

213



Francia del

1854.

A. de Jussieu.

Adina cordata (Roxb.)

H. B. K.

1830-1831
A. de Jussieu.

Rodolphus

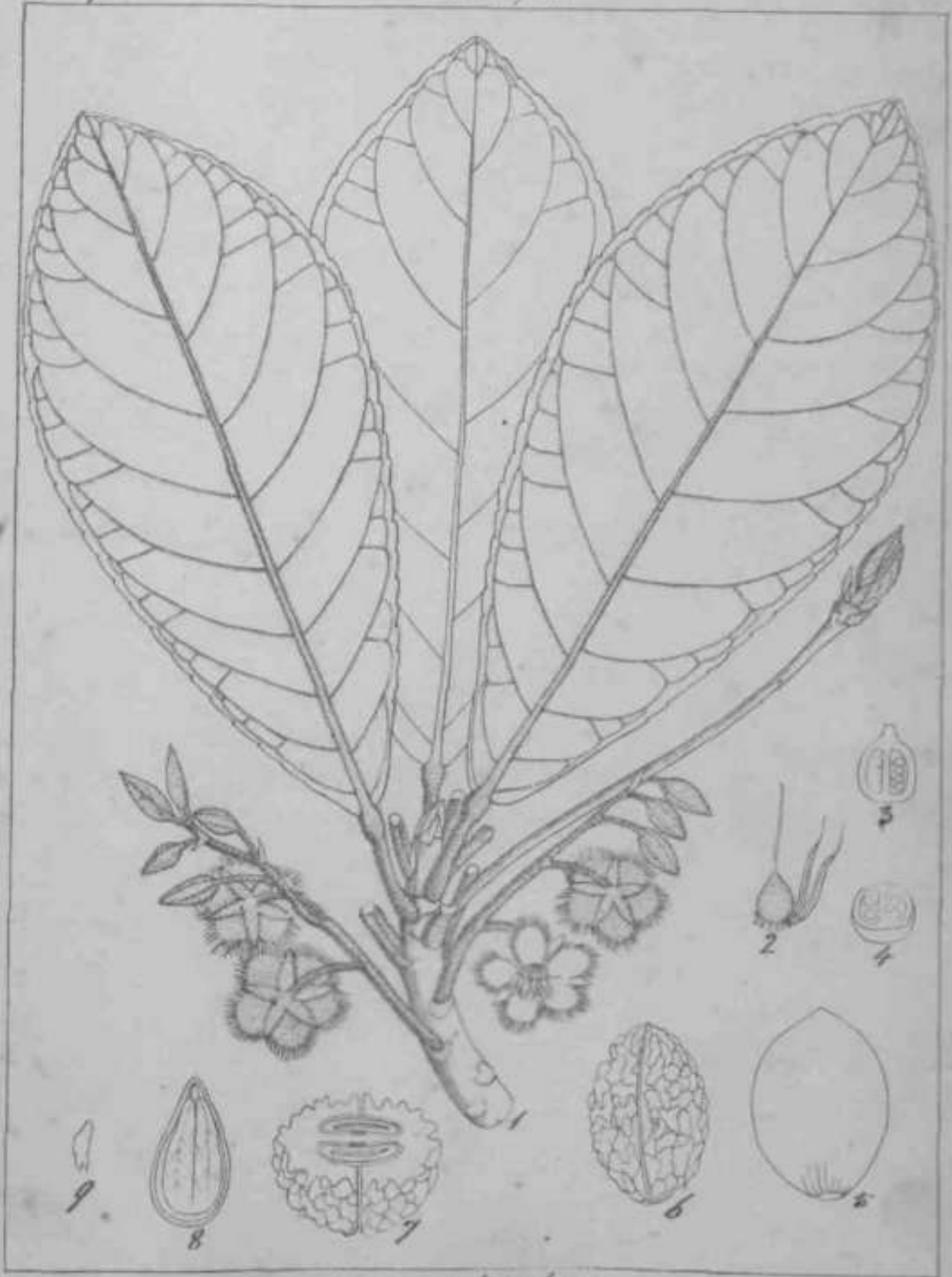
Chlorocypus

11



Chlorocypus

Chlorocypus rugosus L. W.
Chlorocypus rugosus Rod.



subcaulata riPVjf;

Elaeocarpus bicoloratus
Shibatake

Rubus

Clasocarpus

63



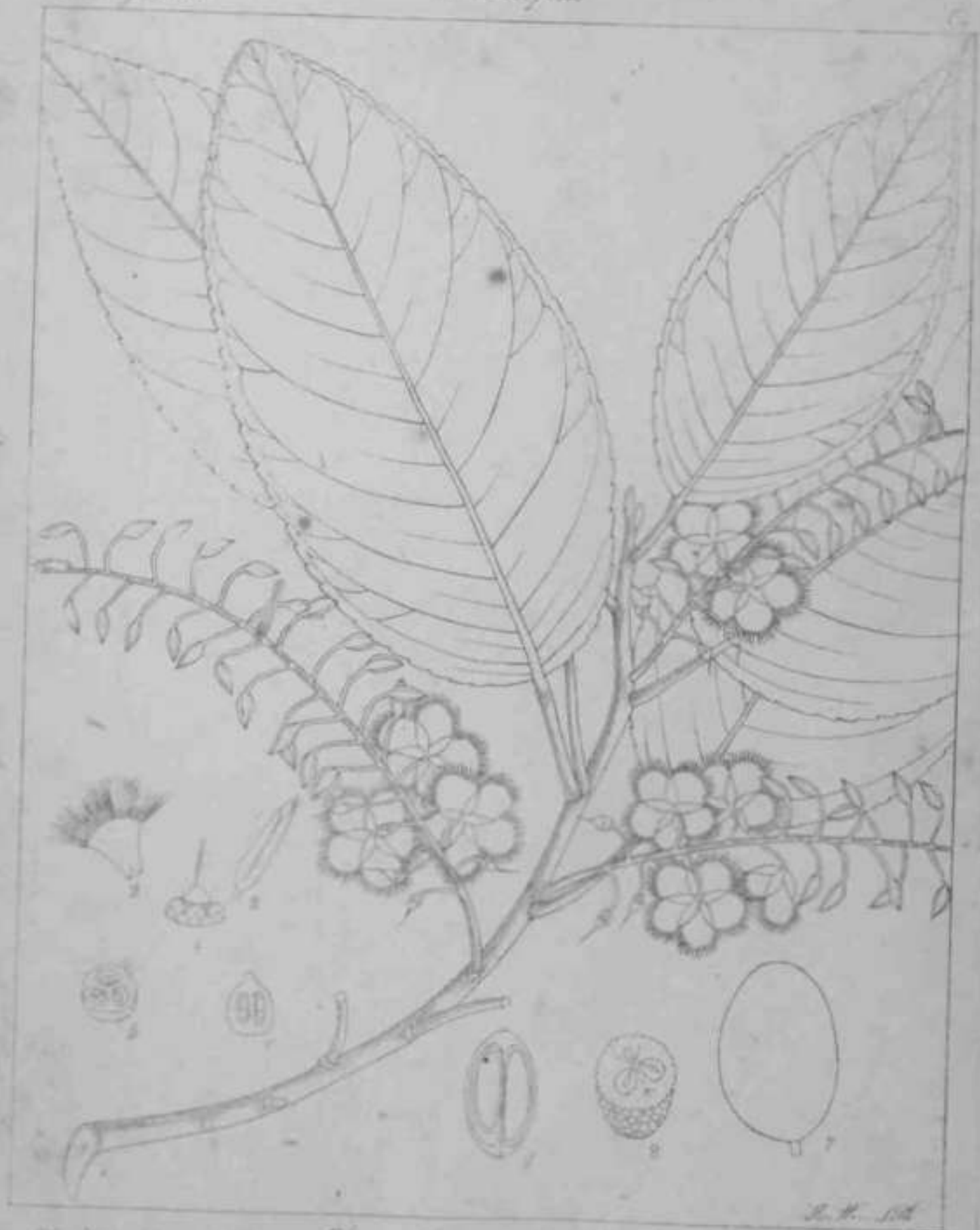
Rubus

Menocera Rubusii N. H.

J. T. S. P.

Barbieria

Clacarpus



L. H. 114

Clacarpus 5

Clacarpus robustus Koch

V I

&





Rambucaphusa 1

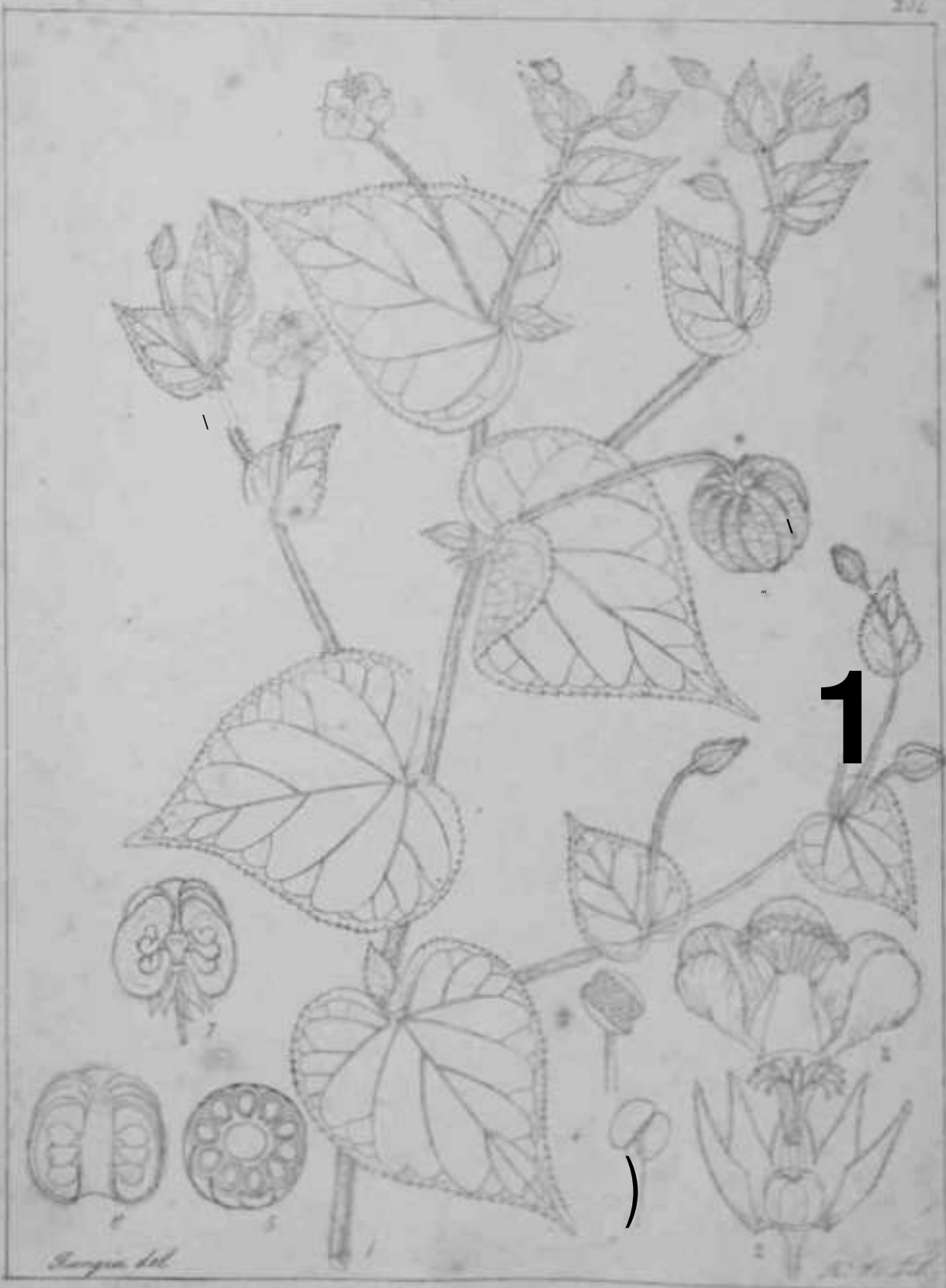
Clavata Sphaerica Guss.
Rambucaphusa clavata Guss.

Rambucaphusa 11



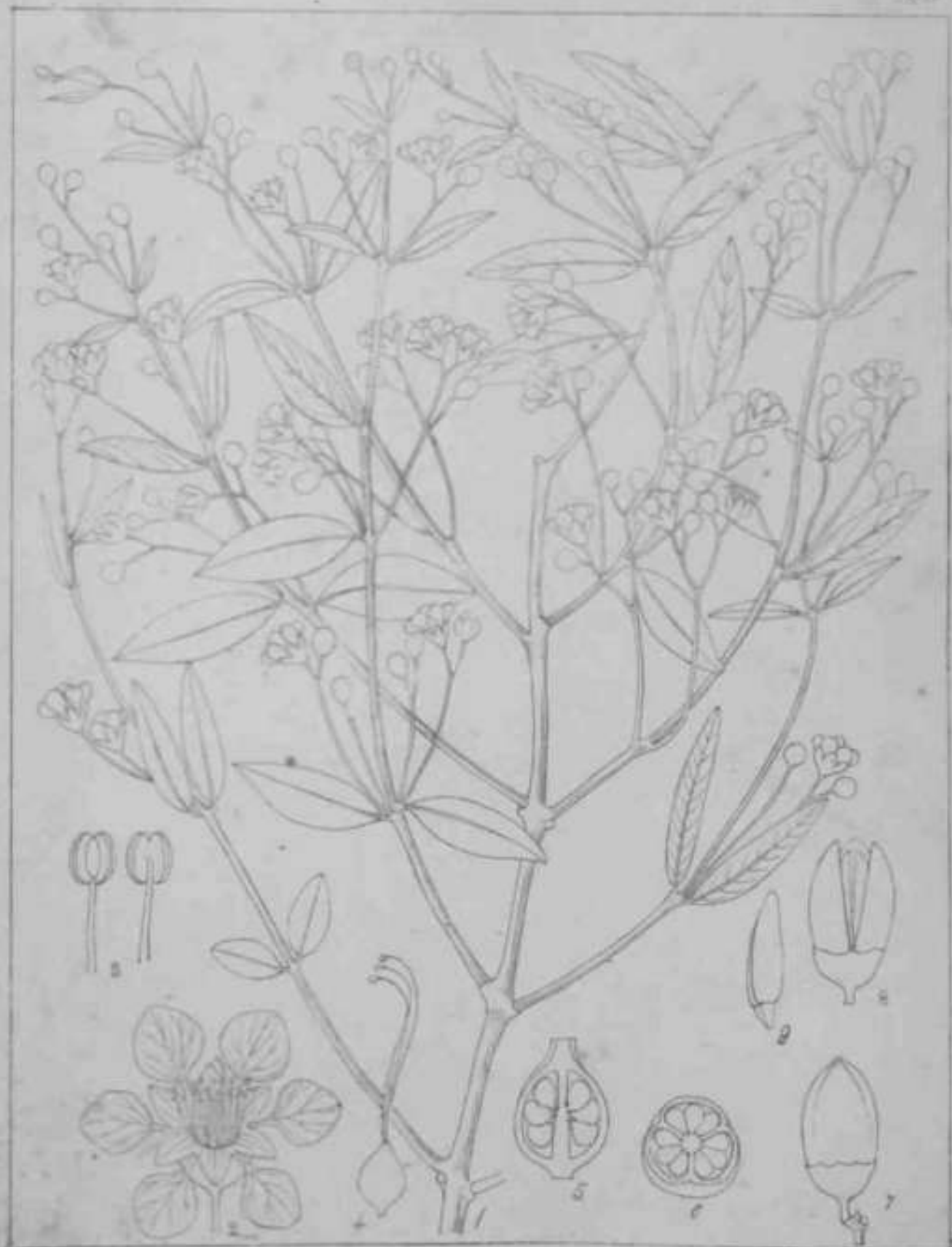
പേരിയന്തം
Puzosungga. Tamil.

Polygala nighthiana Wall.



Sargis del.

Abutilon crispum (G. Don)



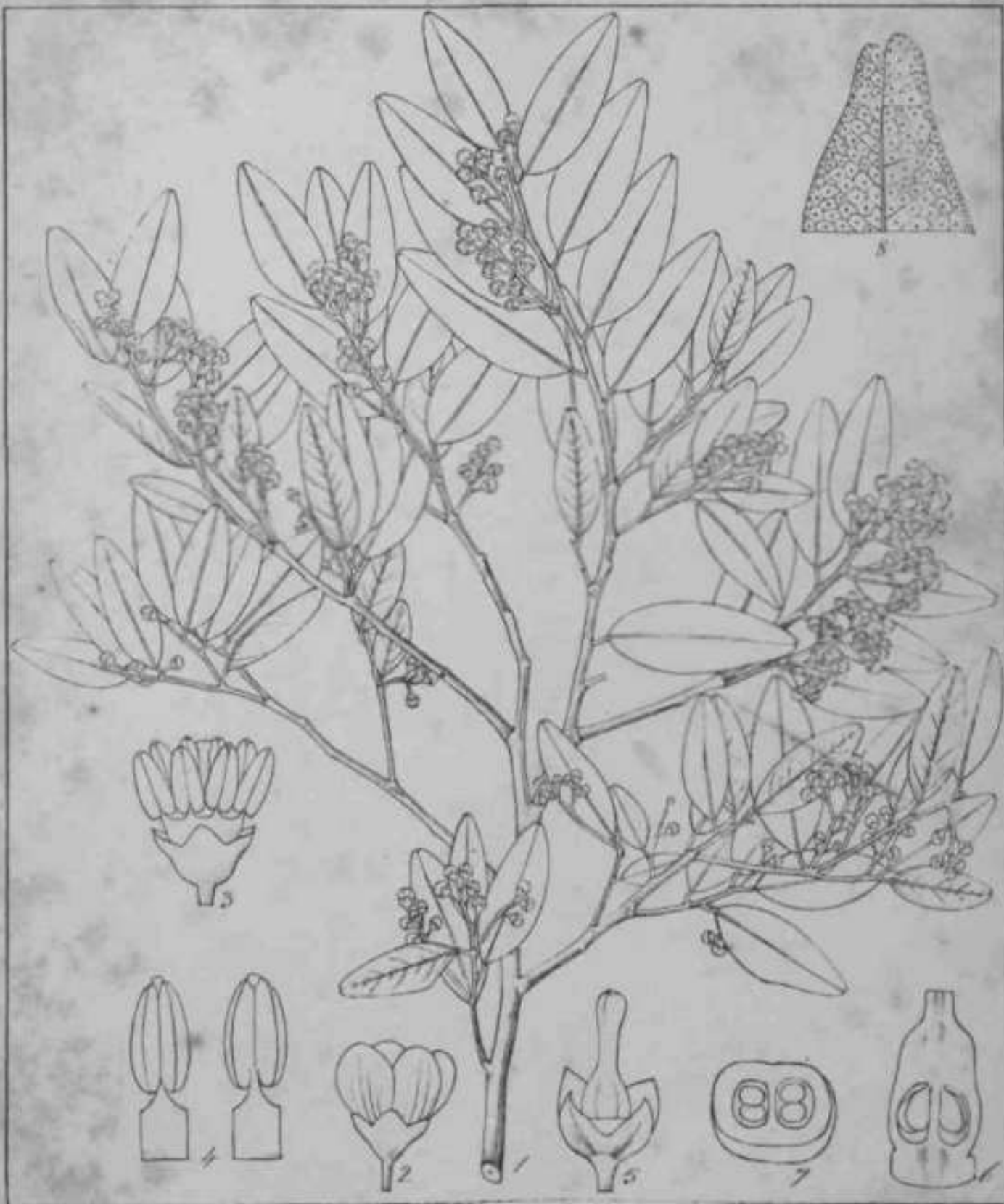
Lagotis det. *Lagotis parviflora* (Rostk.)
Lagotis det.

S. N. Sib.



Argemone

Alvaceae Rhodi (D C.)



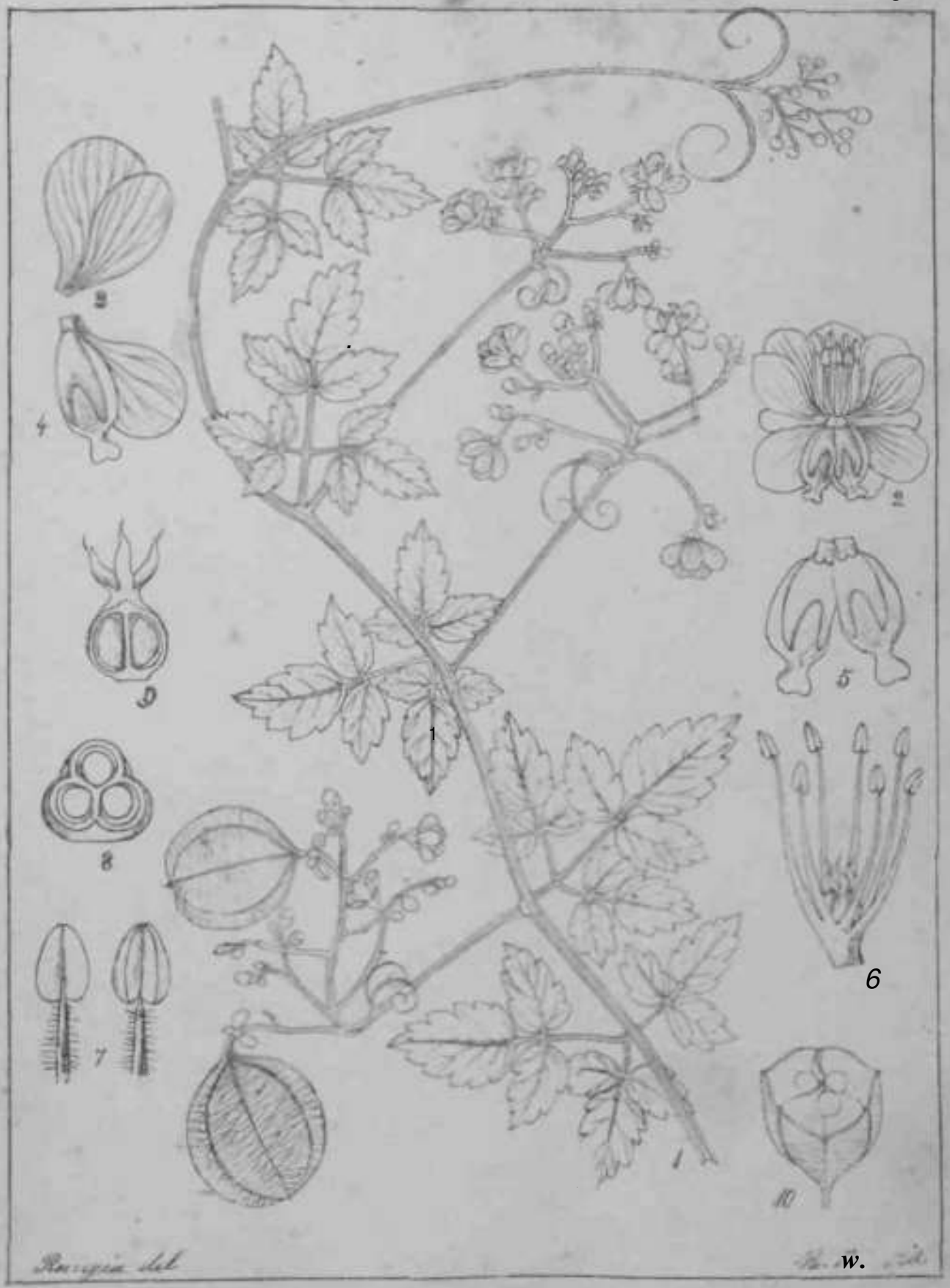
Salicostylis shalankoides (W & A.)
parviflora



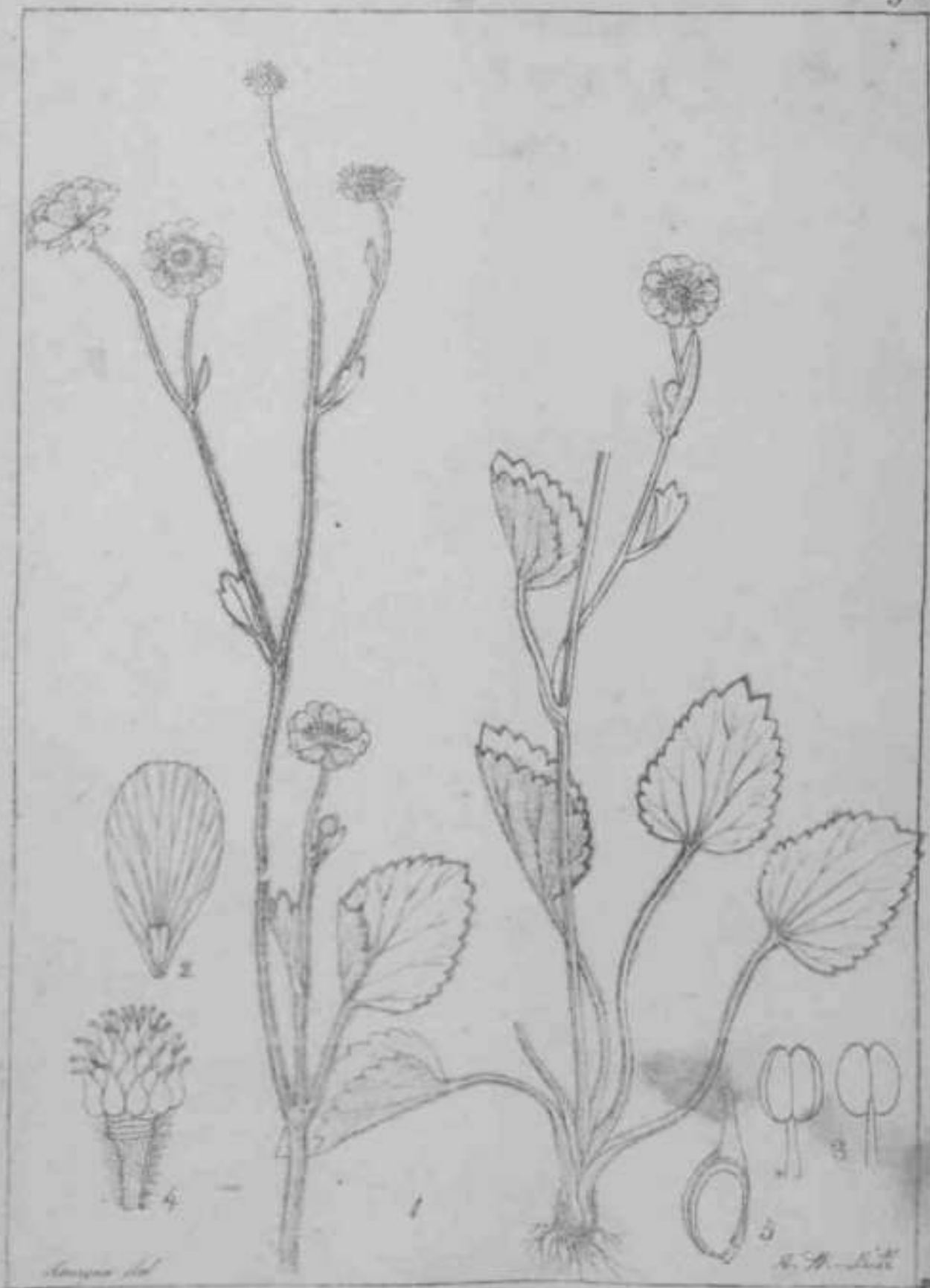
Solorostylis Racturgii A. W.
Amyris simplicifolia Ract.



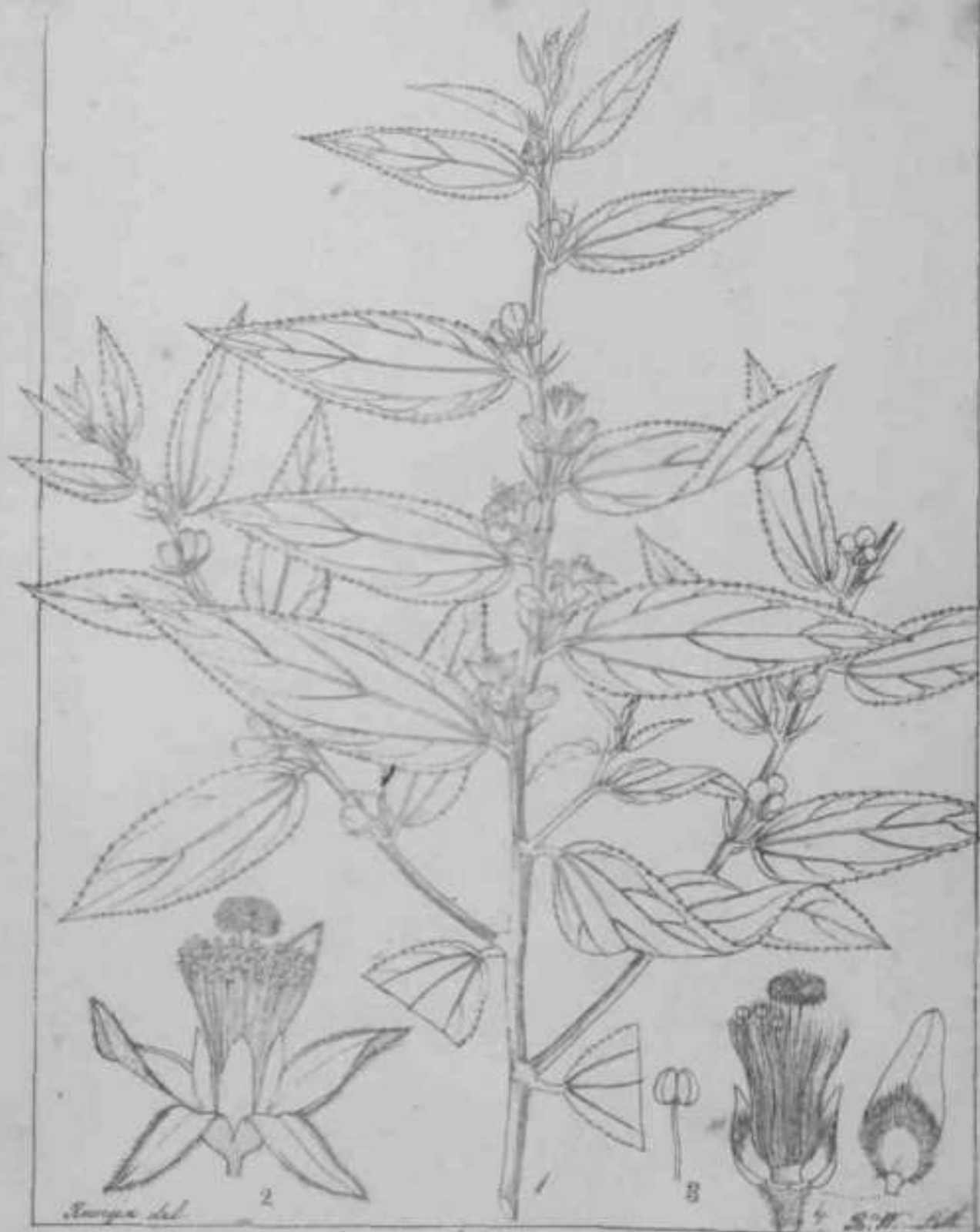
Syzygium zeylanicum (D.C.)



Proelia-collum in *Cardiospermum v&z* *halimifolium* (Thell.) *Halimifolium* *Halimifolium*
Cyrt. d. d. d. d. d. *Halimifolium* *Halimifolium* *Halimifolium* *Halimifolium*

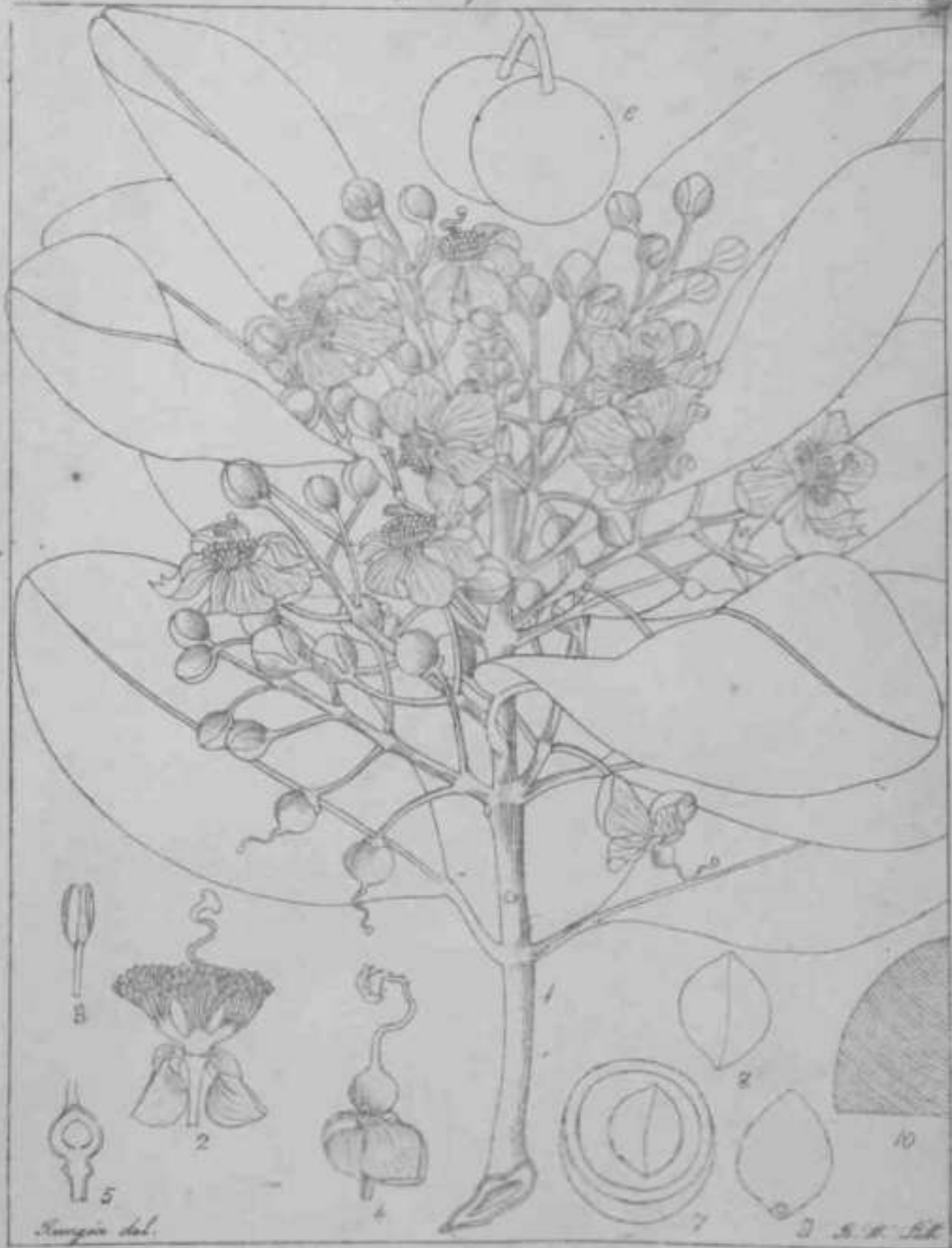


Ranunculus acris (Mill.) Hall.



Georgia del
Javanliche. Sol

Grewia hirsuta (L.)



Ramirez del.

J. S. K. del.

Alphitonia L. f. v.
Bonny Marum. v.
Sellan-chuabo L.
Sel-amba Agnes.

Alphitonia *Alphitonia* (Linn.)
 Pinney Acc.

v. g. 50-70
Alphitonia *Alphitonia*
Bonny Marum. v.
Alphitonia Linn.



Ampelida

R. H. Pitt.

Leuca Staphylea B.

Leuca Staphylea a (Roob.)

Arceuthobium Sib.

Rubiacea



S. W. Hill

Amundyastrum coarctatum Hill



Hymenodictyon ciliatum (Walt.)

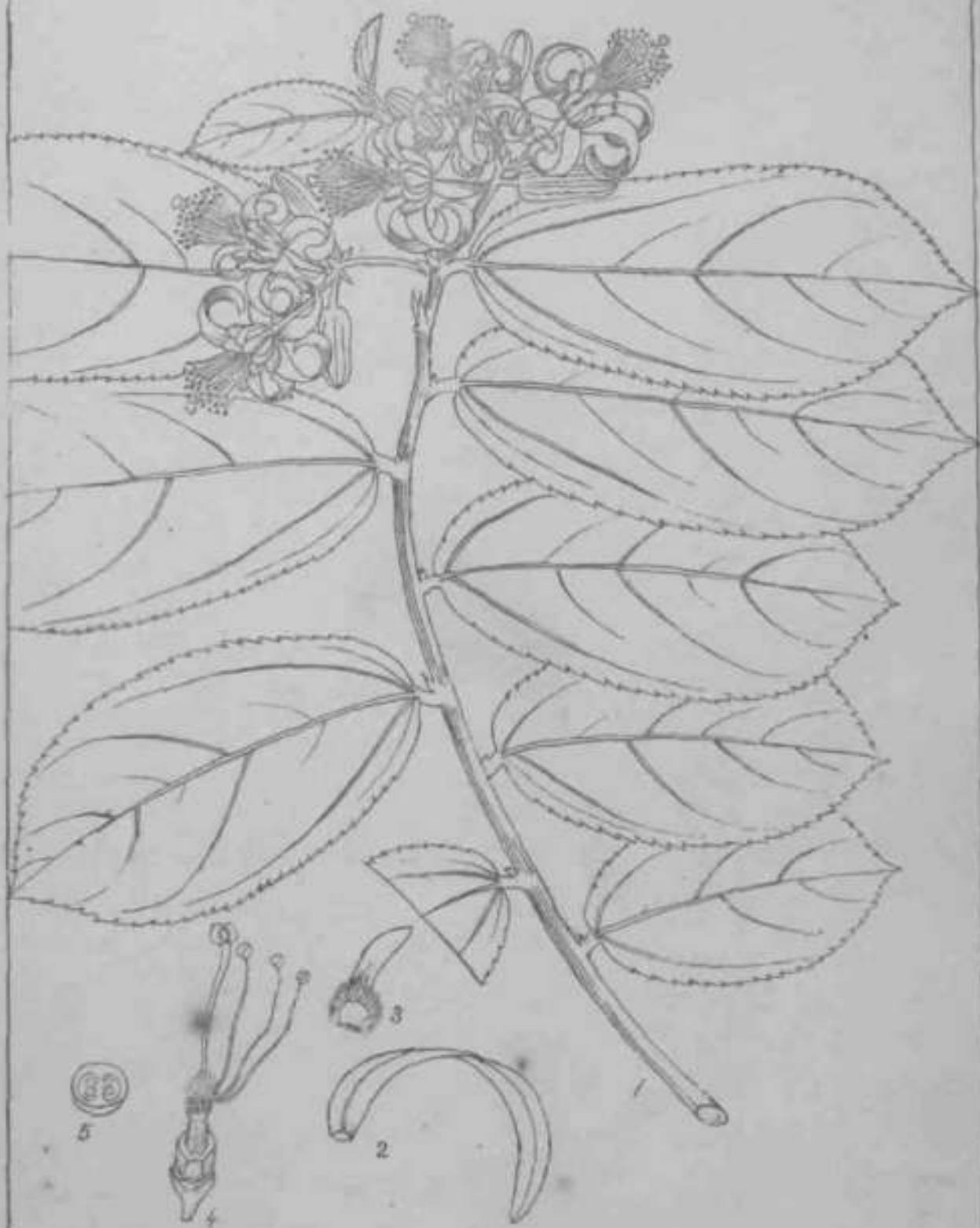


Buchanania integrifolia R. W.



Geum oppositifolium Buch

S. W. Pitt



Grewia umbellata Roxb.



Crowia submifolia Herb.
C. Microcarpa W. & A. fruct.

Hacourthian &*

53
18



Samontchi

H. samontchi

Hacourthia samontchi (O. Ber.)

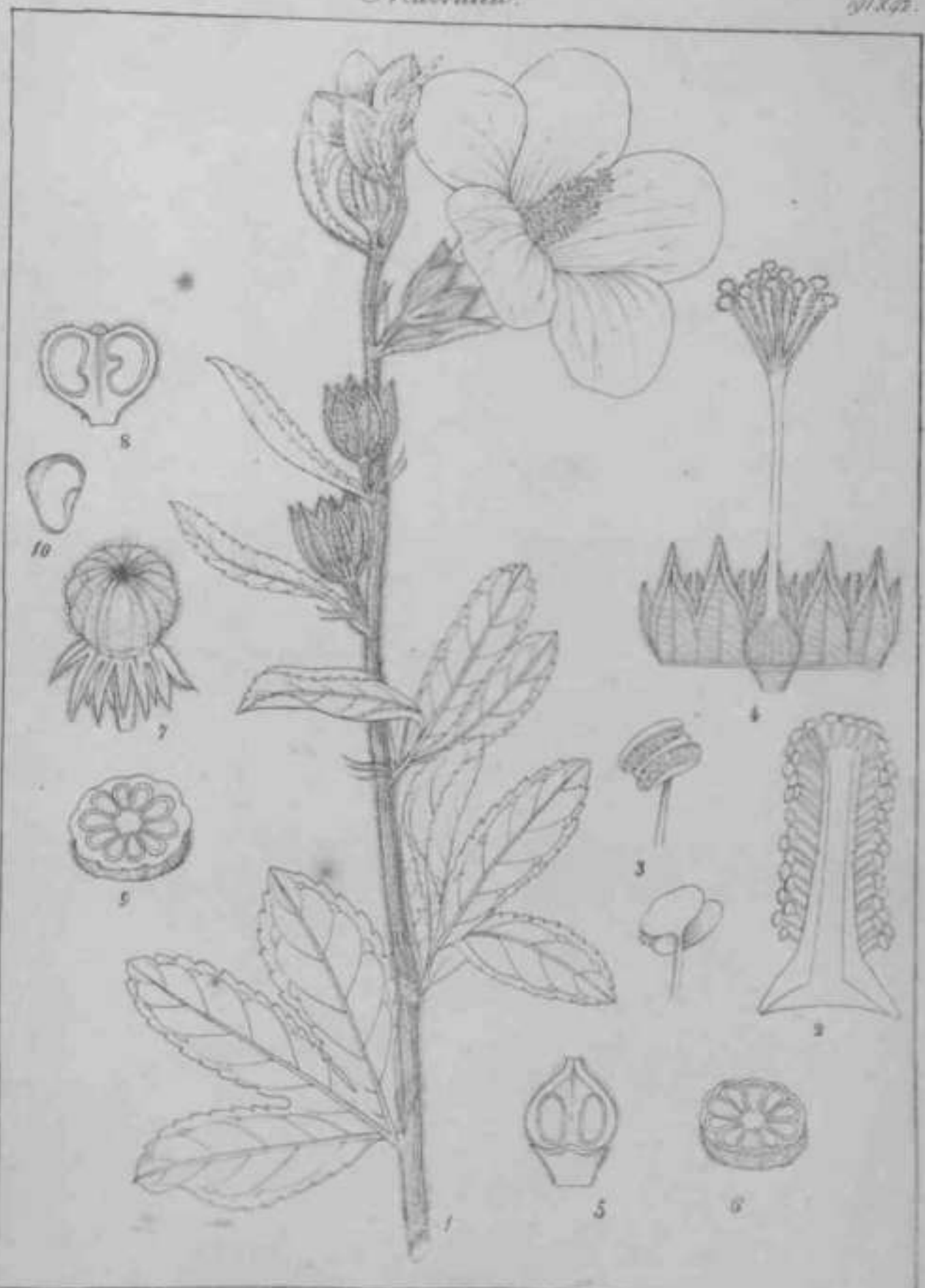


* & *Millettia piscica* (Rochb.)
Galedupa piscidia Roeb.

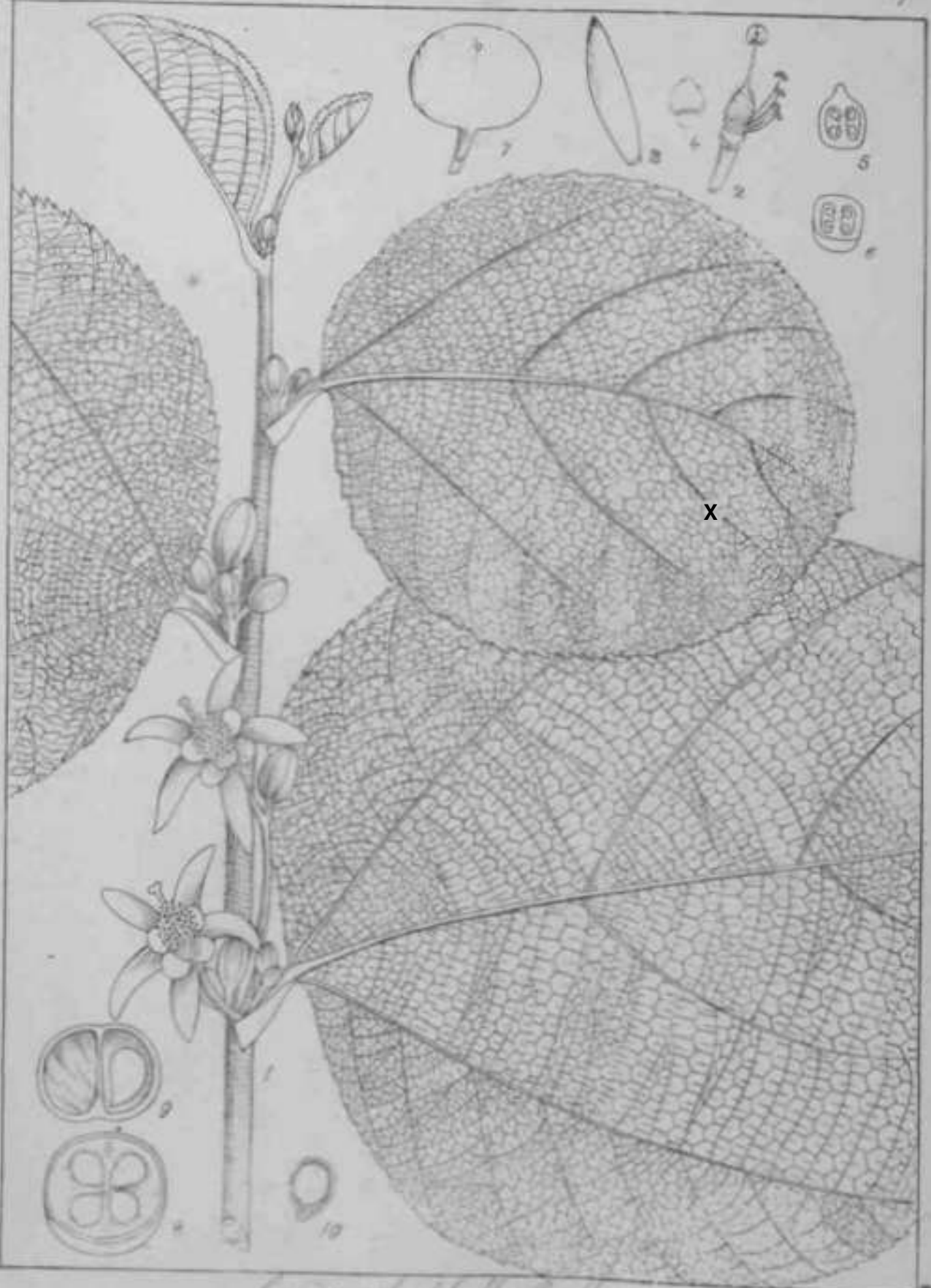


S. W. Pitt.

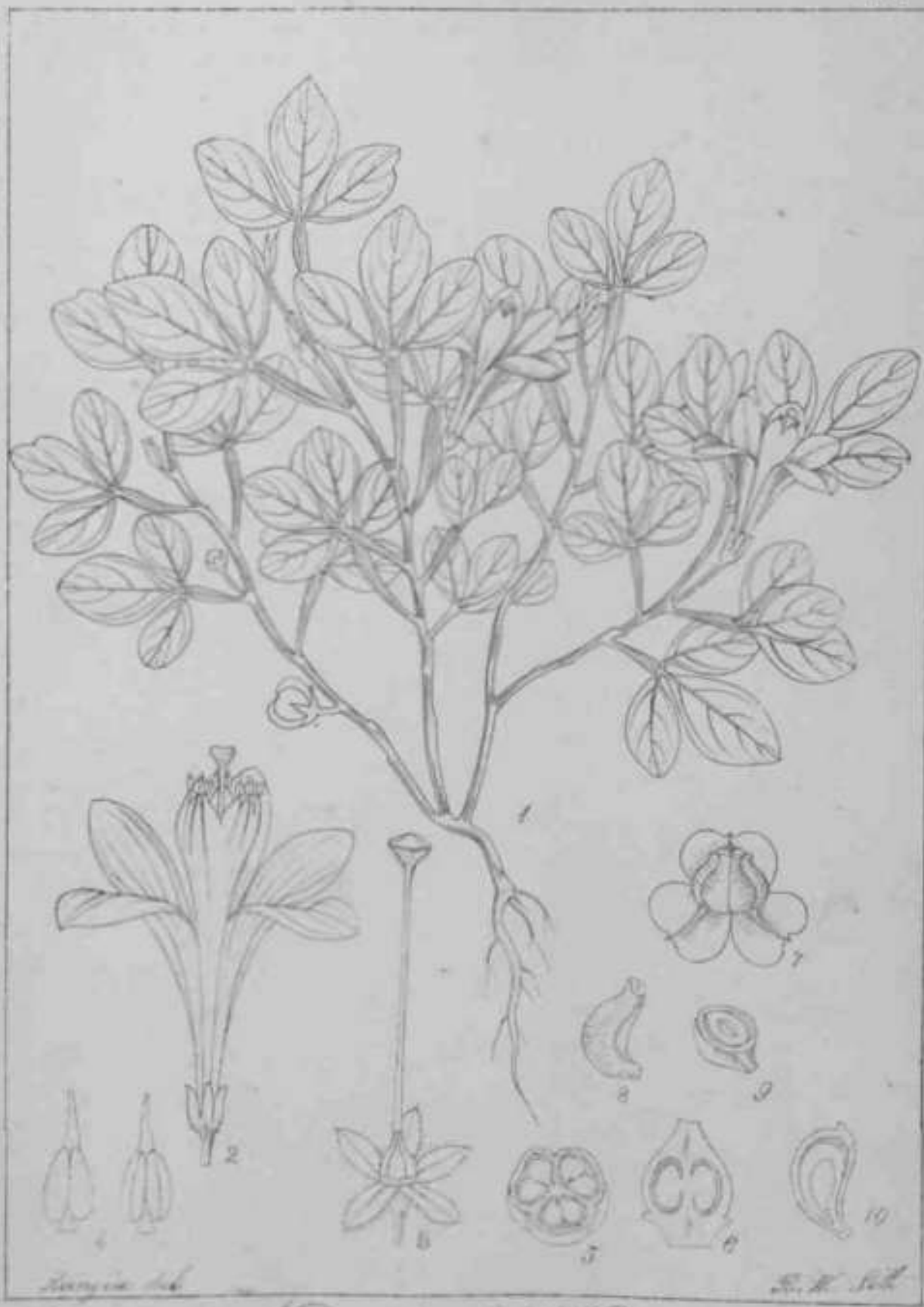
Maharastra. B. Dalbergia marginata (Roxb.)



Decaschistia hutchinsii.



Genus sclerophylla R. H. S. S.
ly sclerophylla R. H. Ind.



Melilotus alata (P. W. A.)



Muntonia pumila R. & P.
Melia pumila Merr.

H. B. K.
S. J. Smoot
Blanchard, G. J.



No. 62. -S6>^ del *Mysicarpus Belauensis*

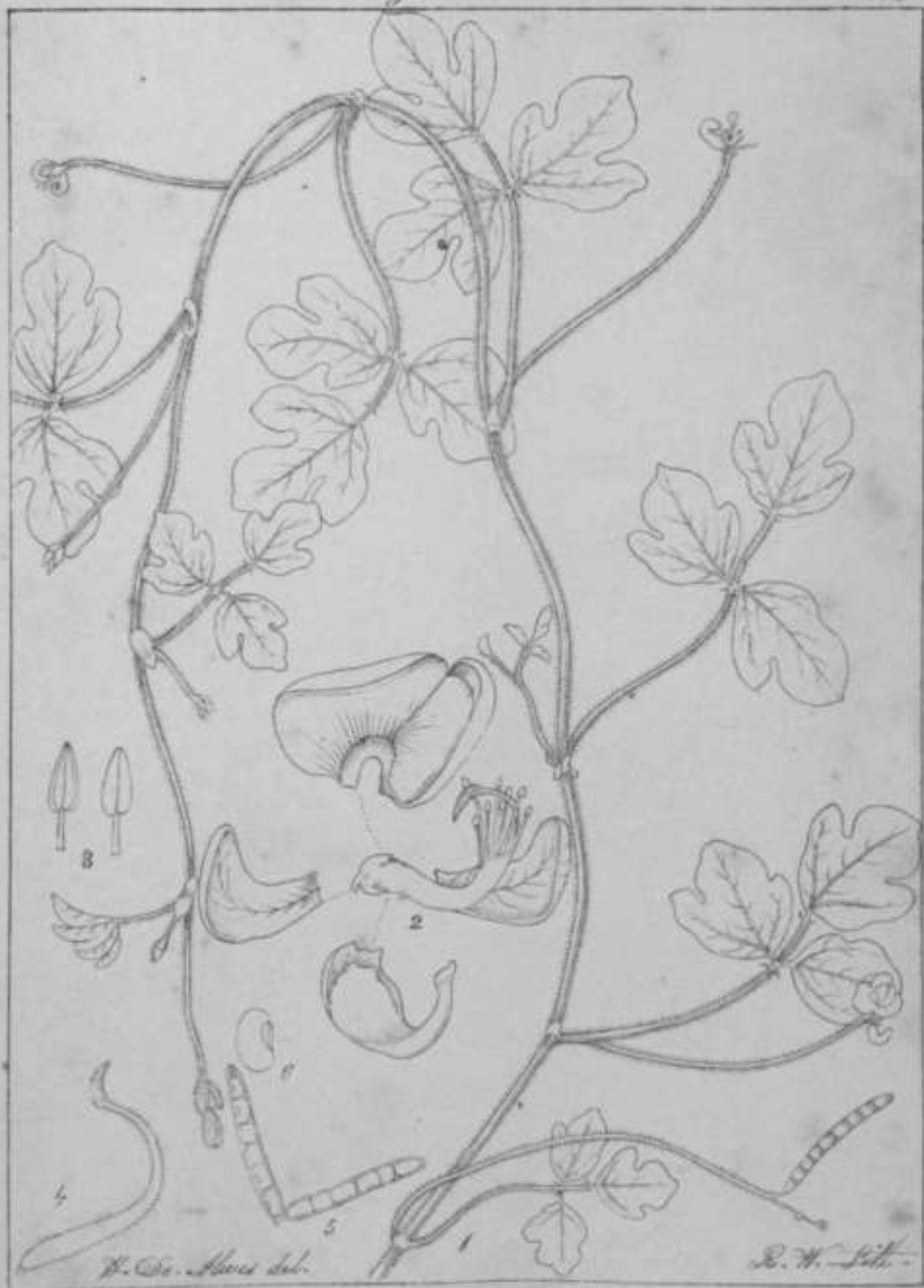
H. Co.



H. W. Sims del.

Lycium lucuma (R. & S.)

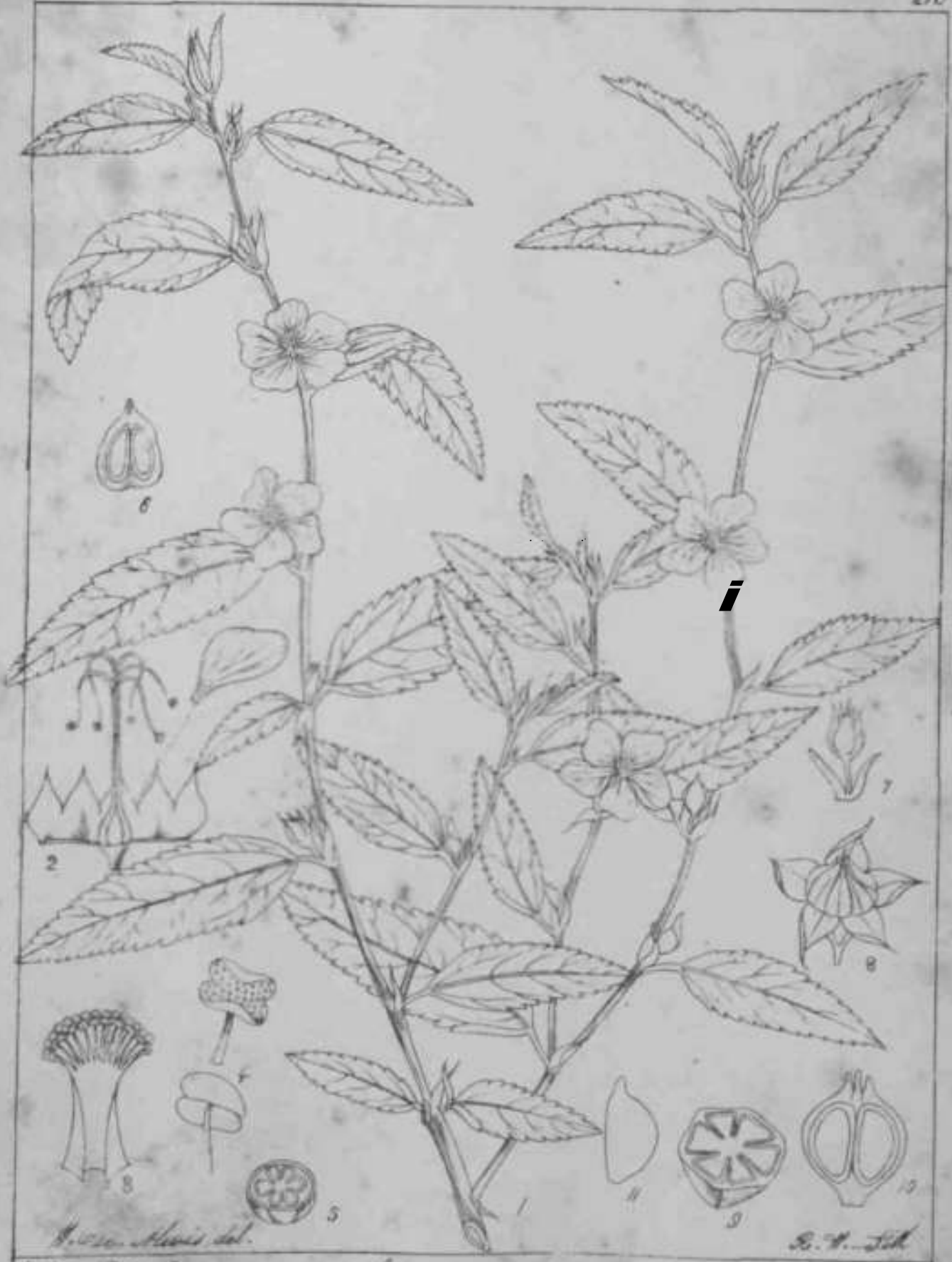
H. W. Sims del.



H. De. Alton del.

R. W. Lill.

Фасоля трилоба. *Phaseolus trilobus* (Ait.)
Phaseolus trilobus (Ait.)



S. V. S. L. del.

S. V. S. L.

ಕೆಲವು ವಿವರಗಳು
ಮಾಡಿದ ಕೆಲವು ವಿವರಗಳು

Sida acuta (Burrhead)



A. G. Steud. del

Myrsine caribaea (Linn.)

J&F;

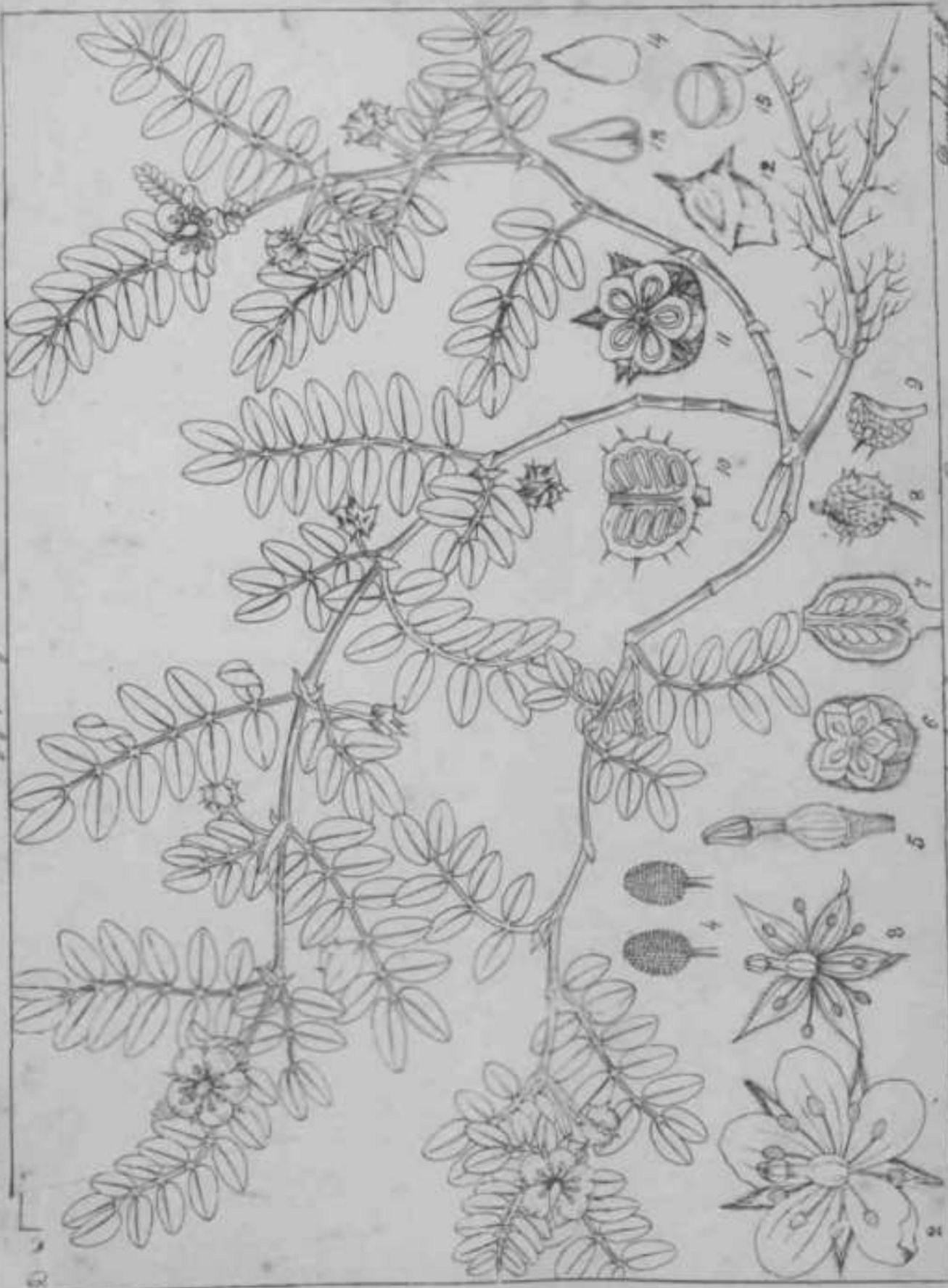


Rungta del.

Salweenia oblonga (Hilleb.)

S. Y. Lit.

Zygophyllum



Tribulus terrestris (Linn.)

Puncturewort
at 22
Tallahassee, Fla.
Jan. 1890
Wm. A. Gray

W. A. Gray
at 22
Tallahassee, Fla.
Jan. 1890
Wm. A. Gray



Pl. D. Jussieu
 GARDNER
 Glandor. Marum. L.
 2000. Nympha. White. S.

Zizyphus jujuba (Lam.)

S. P. Ch.
 2000. Nympha. White. S.
 Kuchharla; Kote. S.
 Kuchharla. Kote. S.

Myrtacea

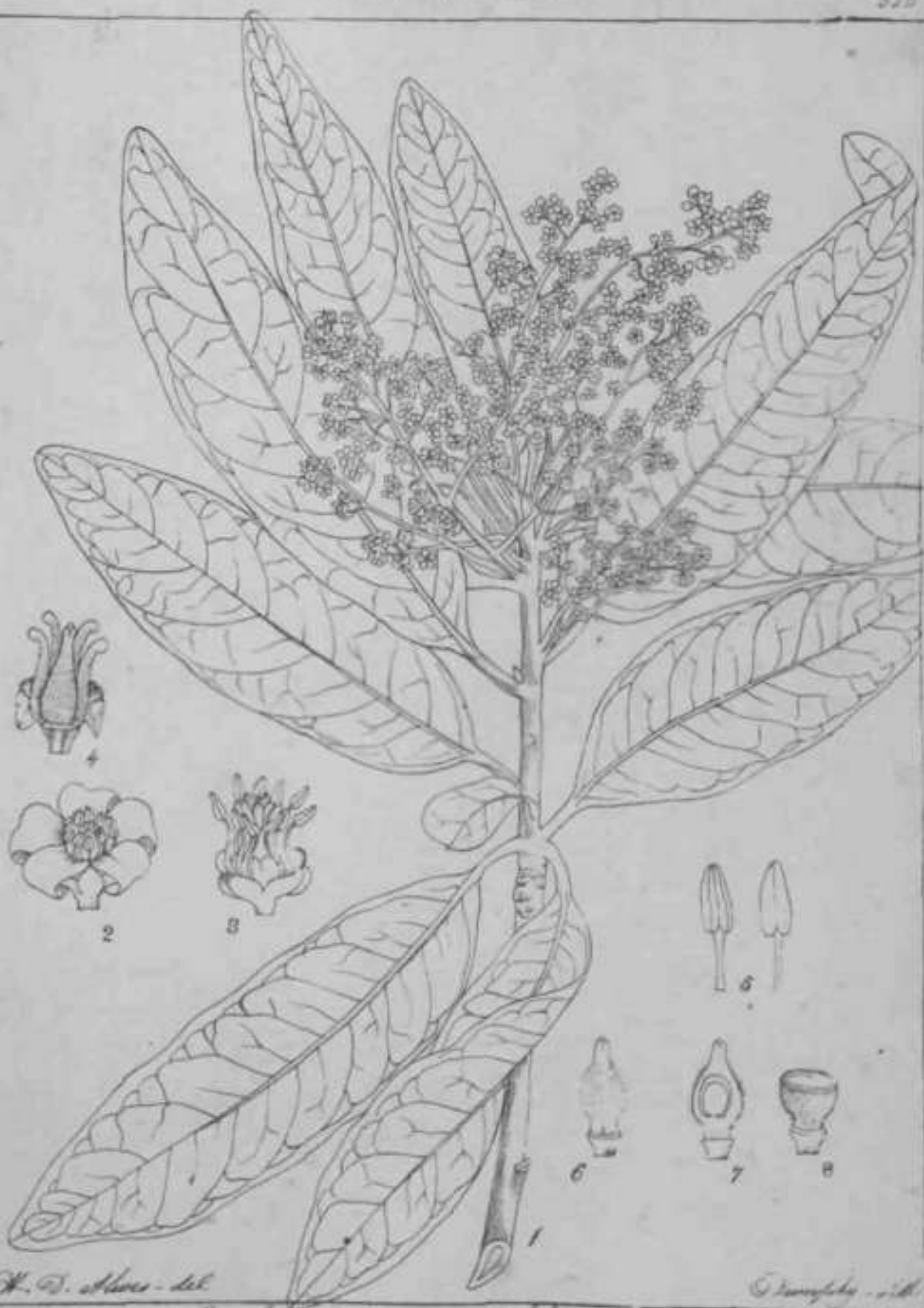
100
1020



E. Kolliniana
H. & A.

S. F. B. A.

Eugenia Kolliniana (H. & A.)

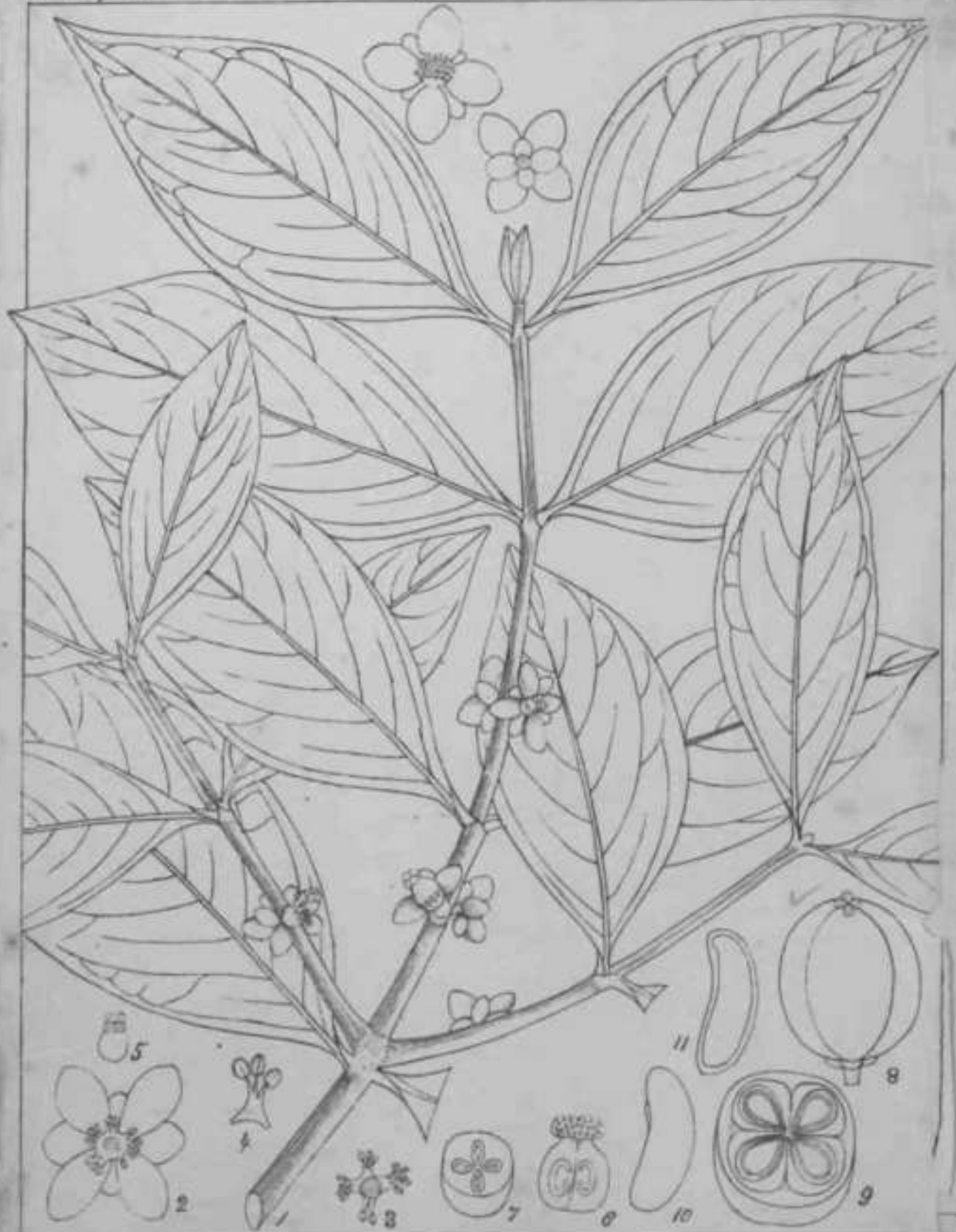


H. D. Moore - del.

Chambers - lith.

Buchanania angustifolia (Roxb.)

Buchanania angustifolia
H. D. Moore del. 1858



Garcinia pectorata Roxb.



Garcinia lanceifolia Roxb. ✓

Garcinia lanceifolia Roxb.

Guttifera.

amblyophylla



Guttifera amblyophylla
W. G. S. P. B. & C. L. S. P. B. & C.



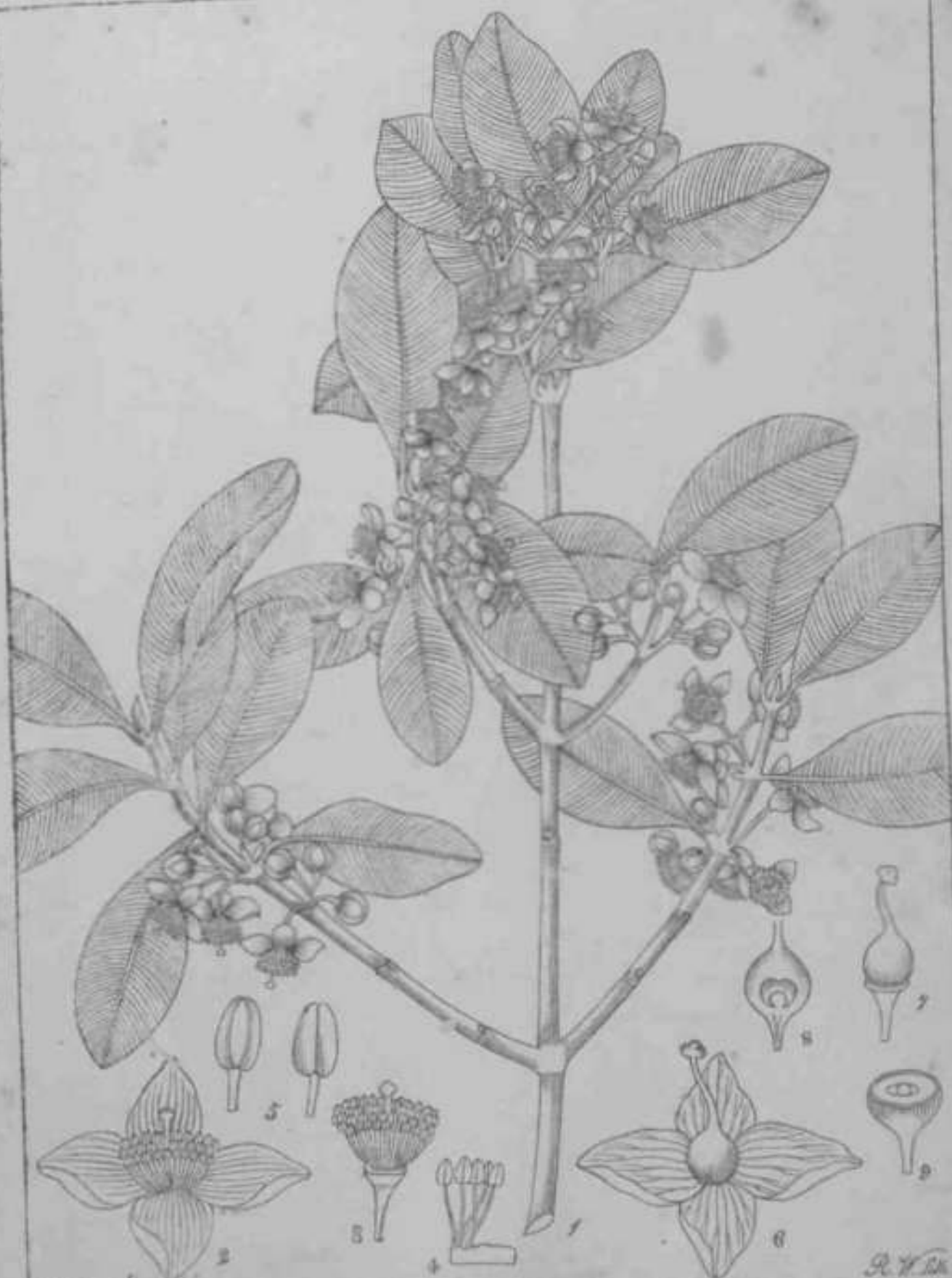
Ricinus communis (Lin)

Gulleferia

186
350



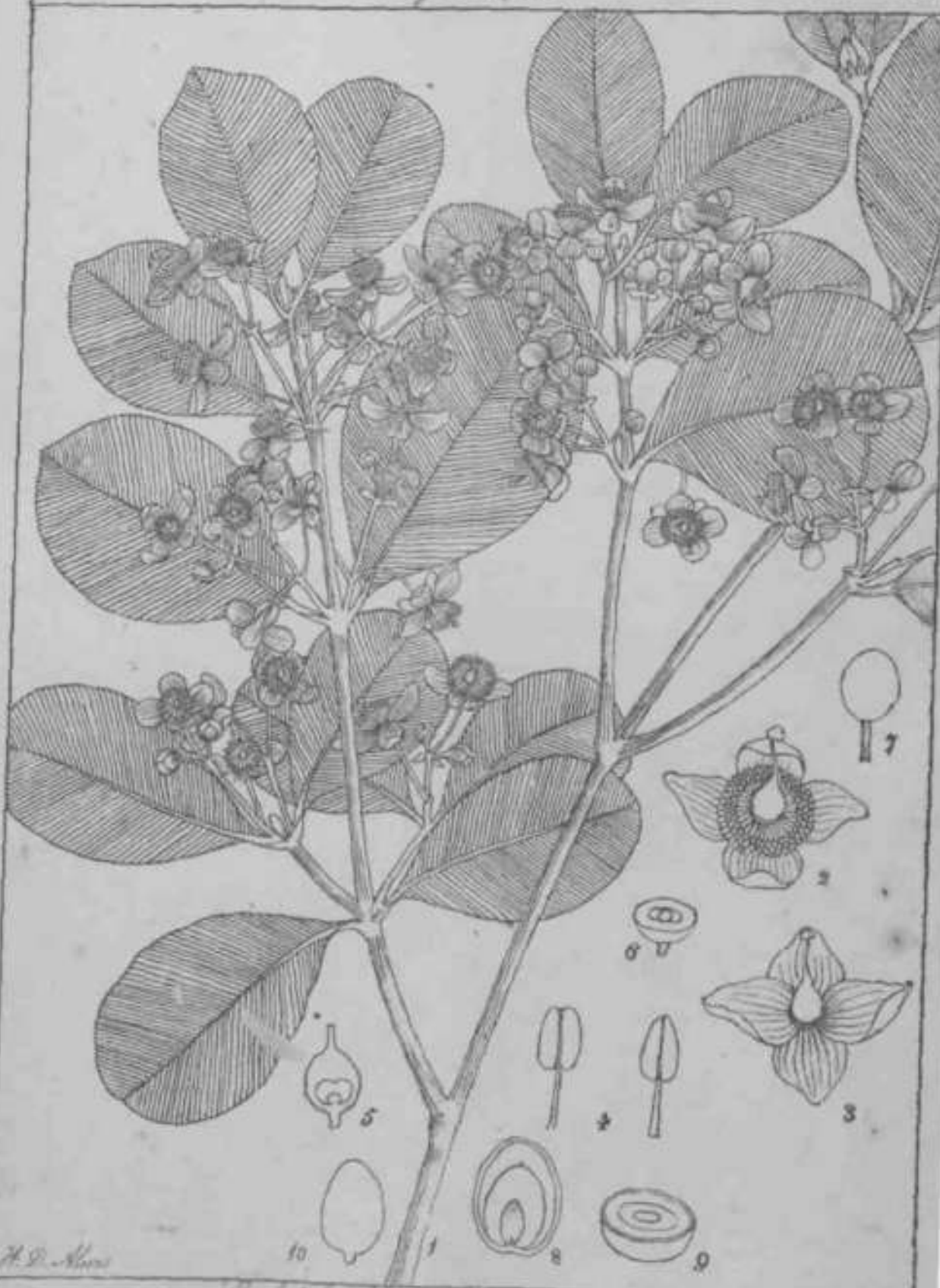
Calophyllum 9t *decipiens* (R. W.)



H. B. K.

R. W. G.

Calophyllum annii (R. W. G.)
? *nervosum*.



H. D. Moore

Calophyllum Burmanni, a.

Salicaria

18
1872



Lagostromea Microcarpa (R. W.)



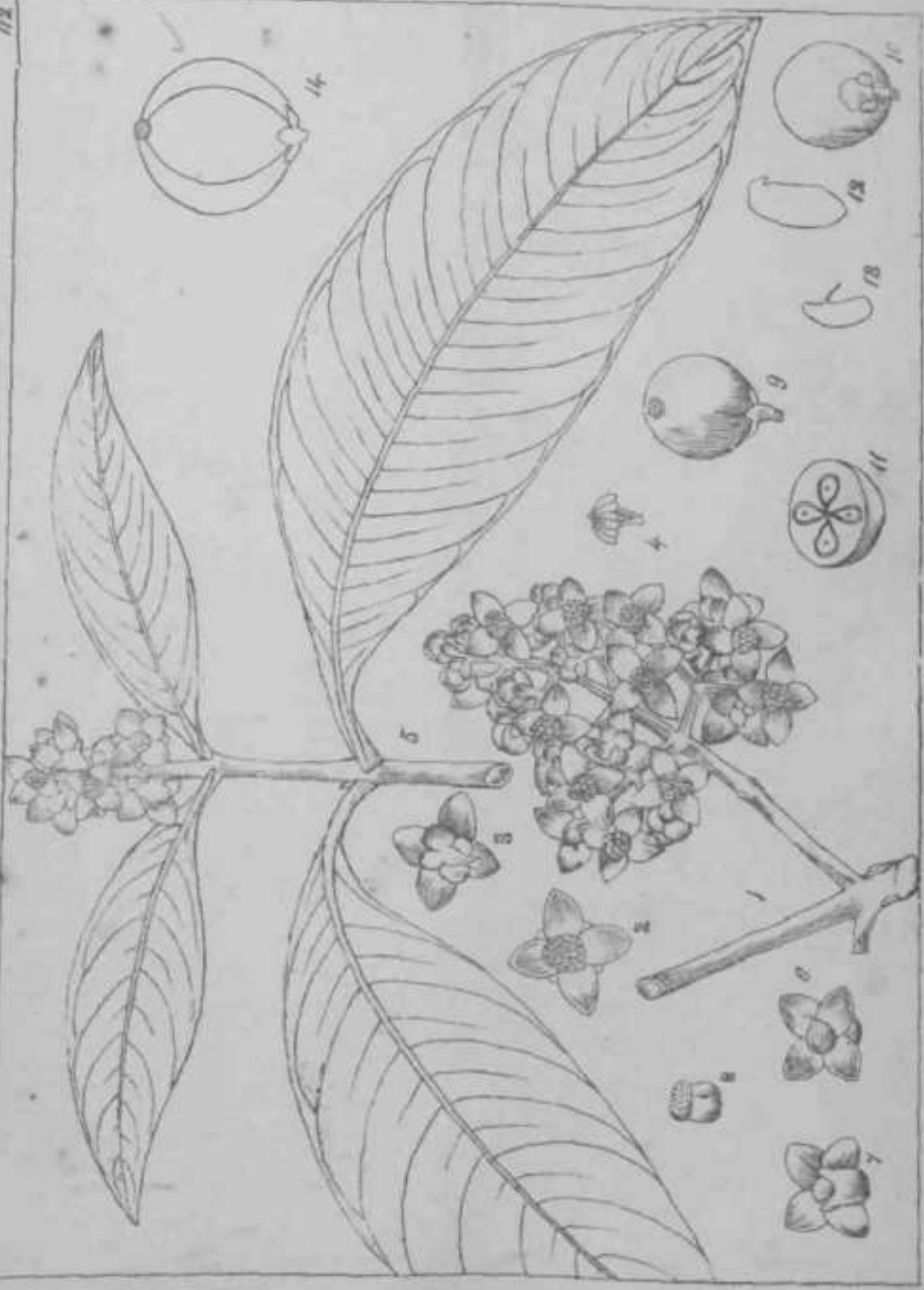
Calophyllum tomentosum.



Calophyllum inaequalis (R. & H.)

Acroburnonia

Guttiferae.



Garcinia paniculata. (Acrob.)

Guttifera.

Raciburgiana.

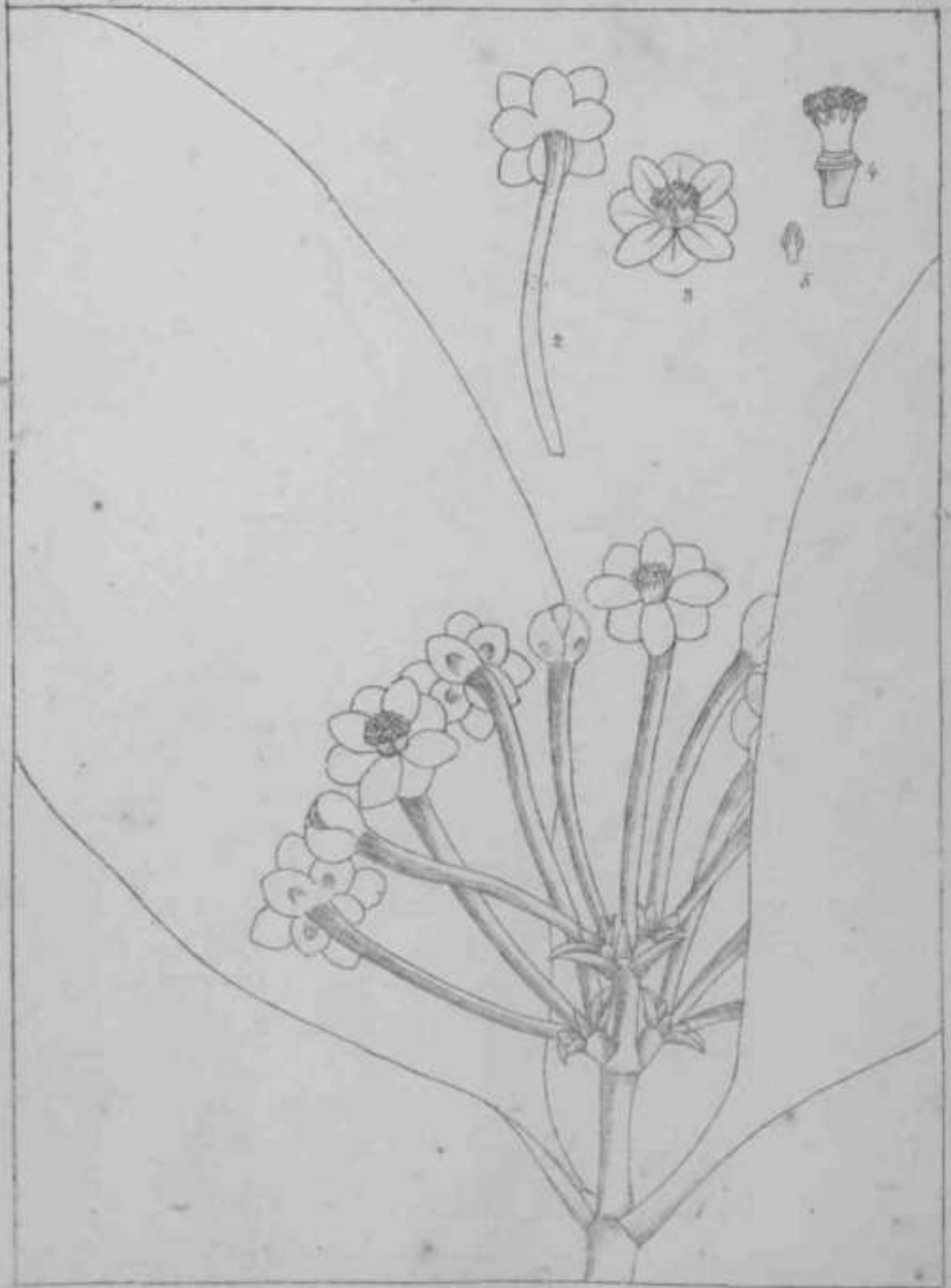


Garcinia Hydriana. (Racib. Miss.)

G. Hydriana. Racib. Thes. Indico.



Garcinia pedunculata (Roxb.)



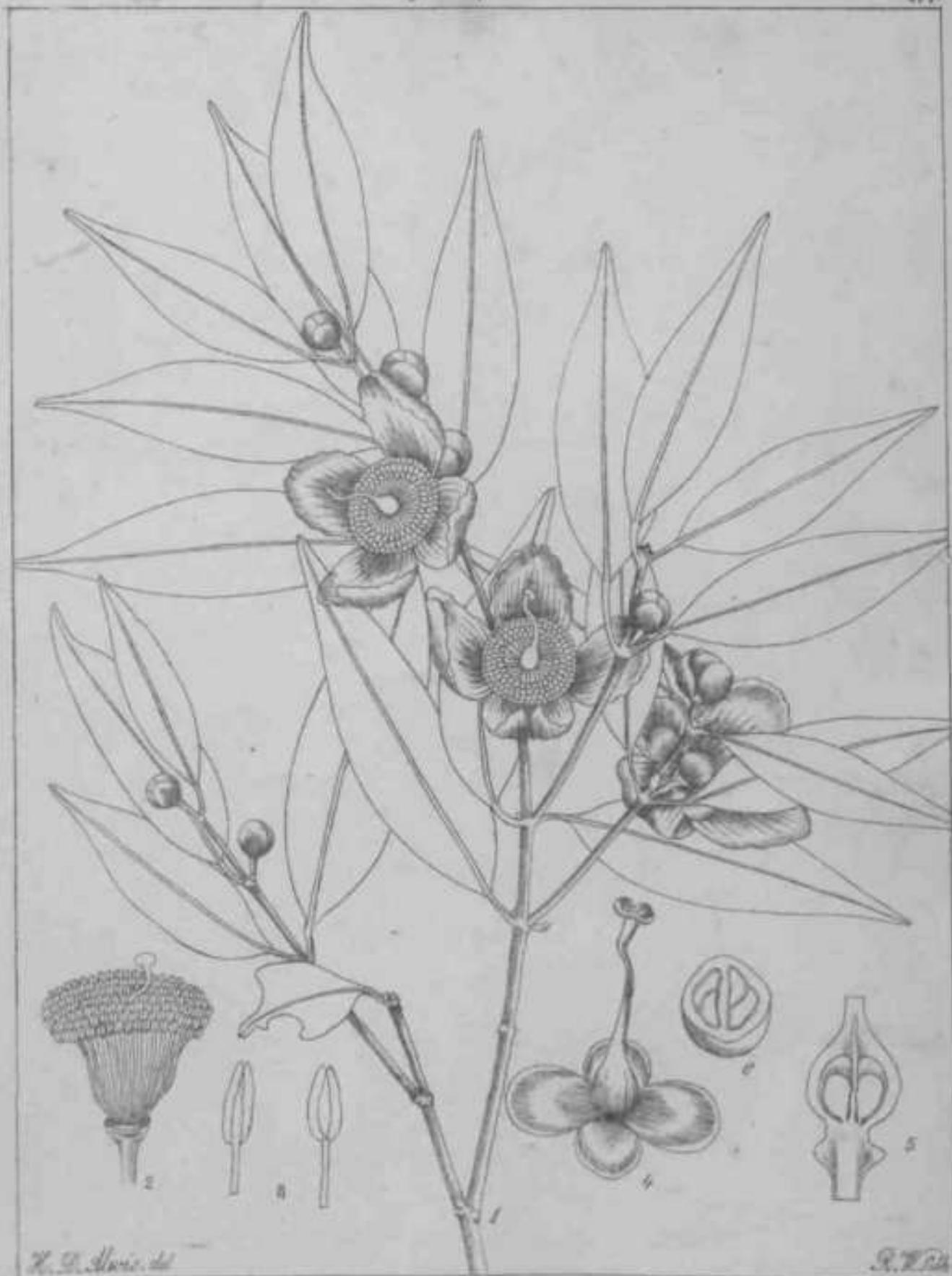
Garcinia III *Axillulata*. (Roxb.)



H. B. Merriam del.

R. W. D. D.

Garcinia Merguensis (R.W.)



H. G. Sims del.

S. F. Ait.

Mesua coromandelica. (R.W.)

Guttifera.

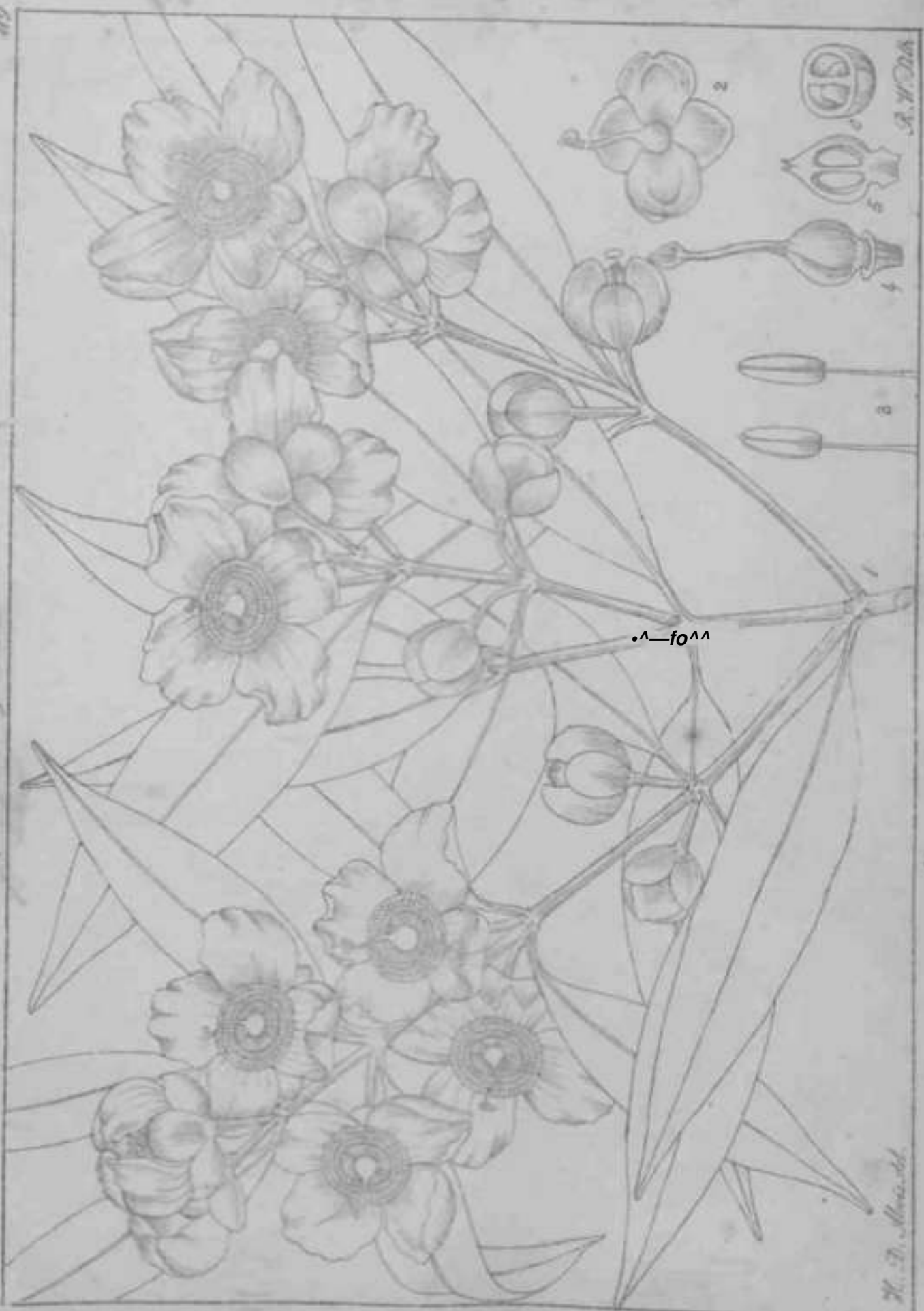
412



J. W. G.

Alseodaphne (Linn.)

Guttiferae.



•^—fo^^

R. W. D. M.

H. D. Moore del.

Mesua pedunculata. (R. W. D. M.)

Lyallifera.

120



H. P. Alvis del.

A. W. C. sc.

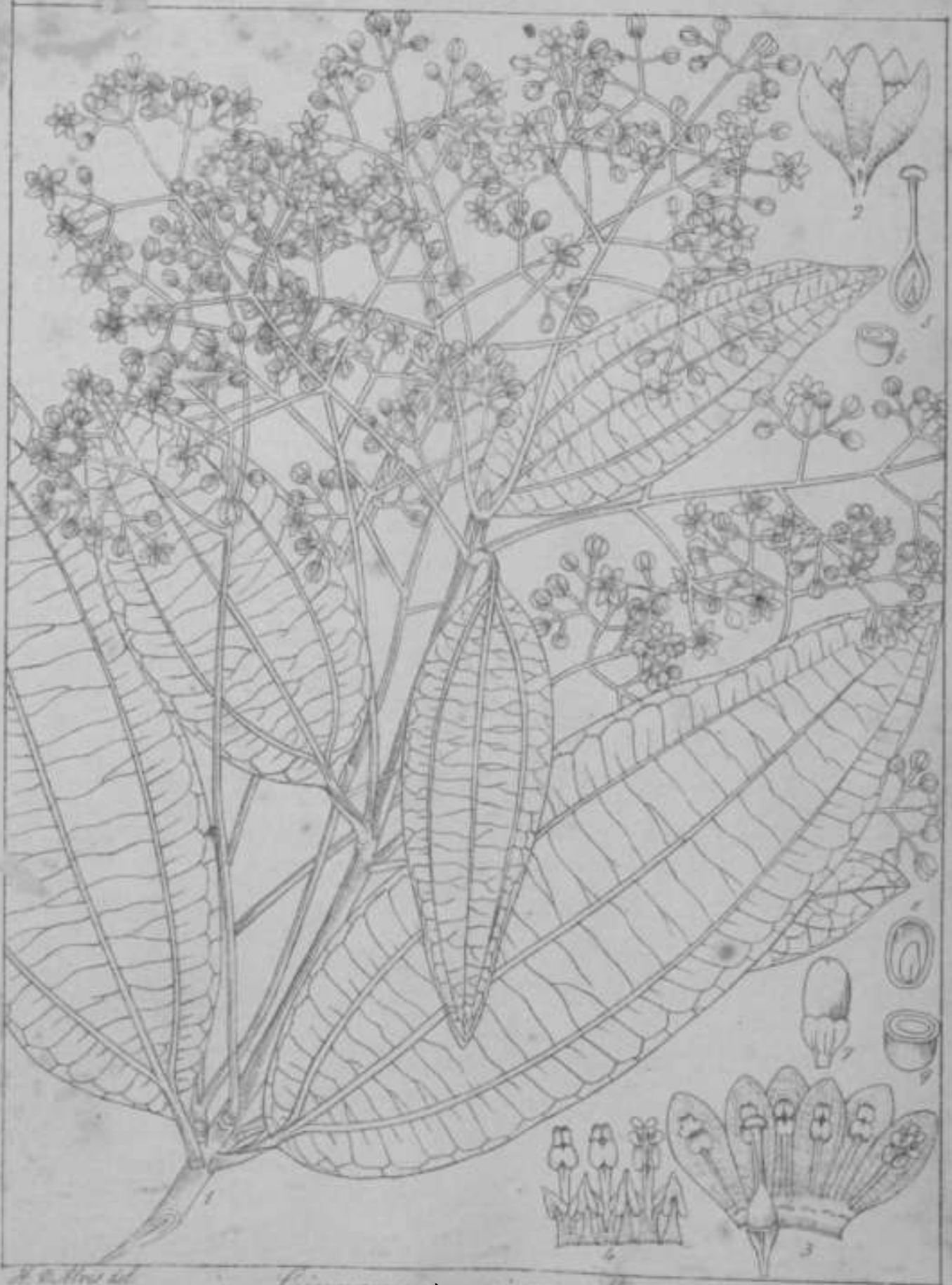
Garcinia elliptica? (Wall.)



R. D. Davis del

R. T. Cole

Garcinia conicarp. (R. W.)



H. B. K. del.

Cinnamomum iners (Nees)

Saurina.

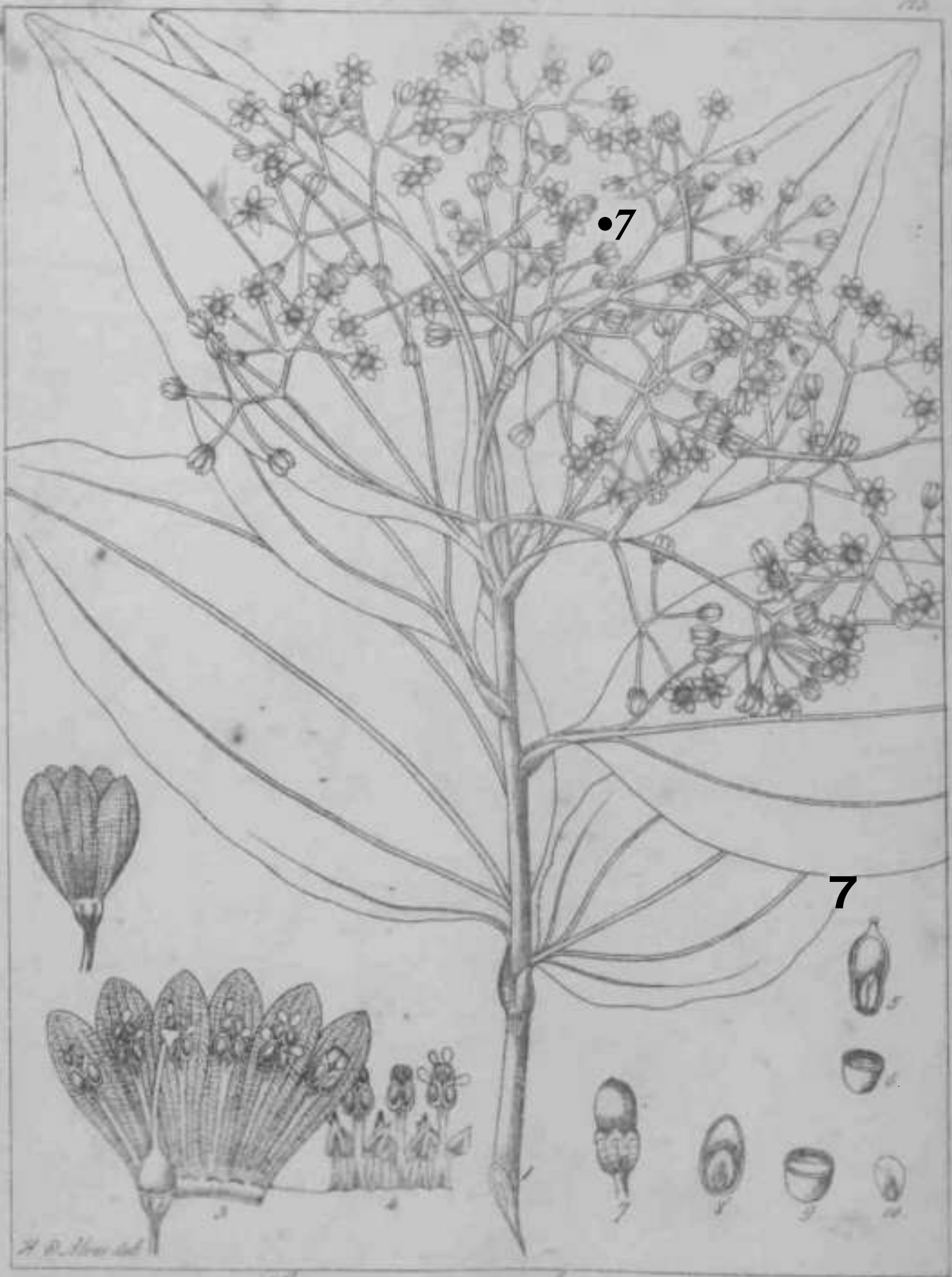
122 bis



H. F. Alvis del.

R. W. G. sc.

Cinnamomum erectum (Nees)



•7

7

H. B. Thwaites del.

Cinnamomum zeylanicum. 1&W.4



Cinnamomum ffitdu, (Nes) (Nes)
Laurus Nindus (Rab)



H. B. K. del.

Cinna menismifolia (Rett.)

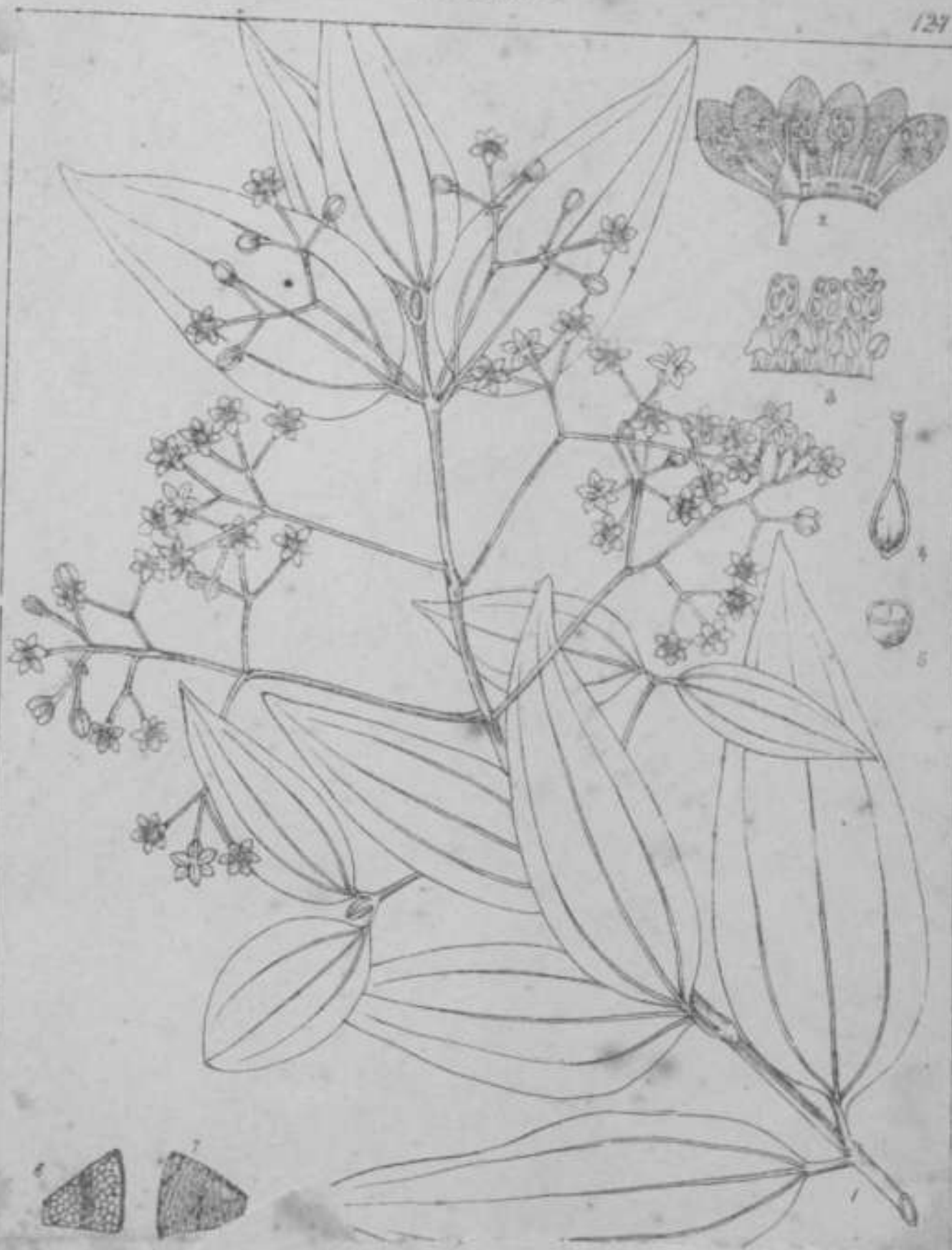


H. B. Ait. del.

R. W. P. sc.

Cissampelos multiflora B. R. H.

ysw

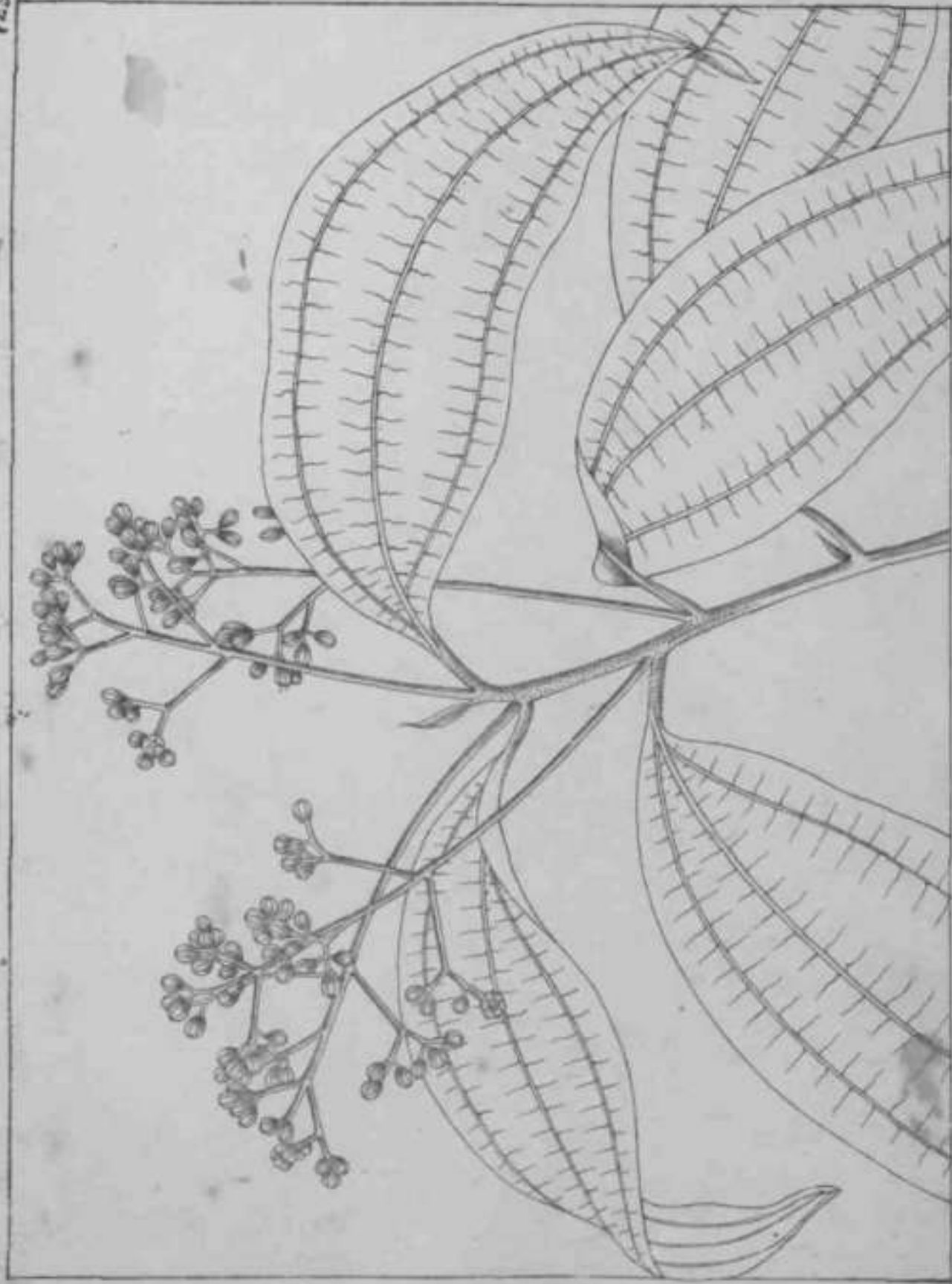




! /fti
iTi

X/m ut6 (h/ua..J Bot. mag. 1680.

Cinnamomum zylanicum ? (New)



Saurus cinnamomum, Bot. mag. 2028.

? *Cinnamomum Zeylanicum, Y. (Ses.)*



R. V. 114

Cinnamomum iners
Carua, Hort. mal. 1. tab. 51.



Laurus multiflora Roxb
Cinnamomum multiflorum



A. W. C.

Laurus canariensis (L.) Berk.



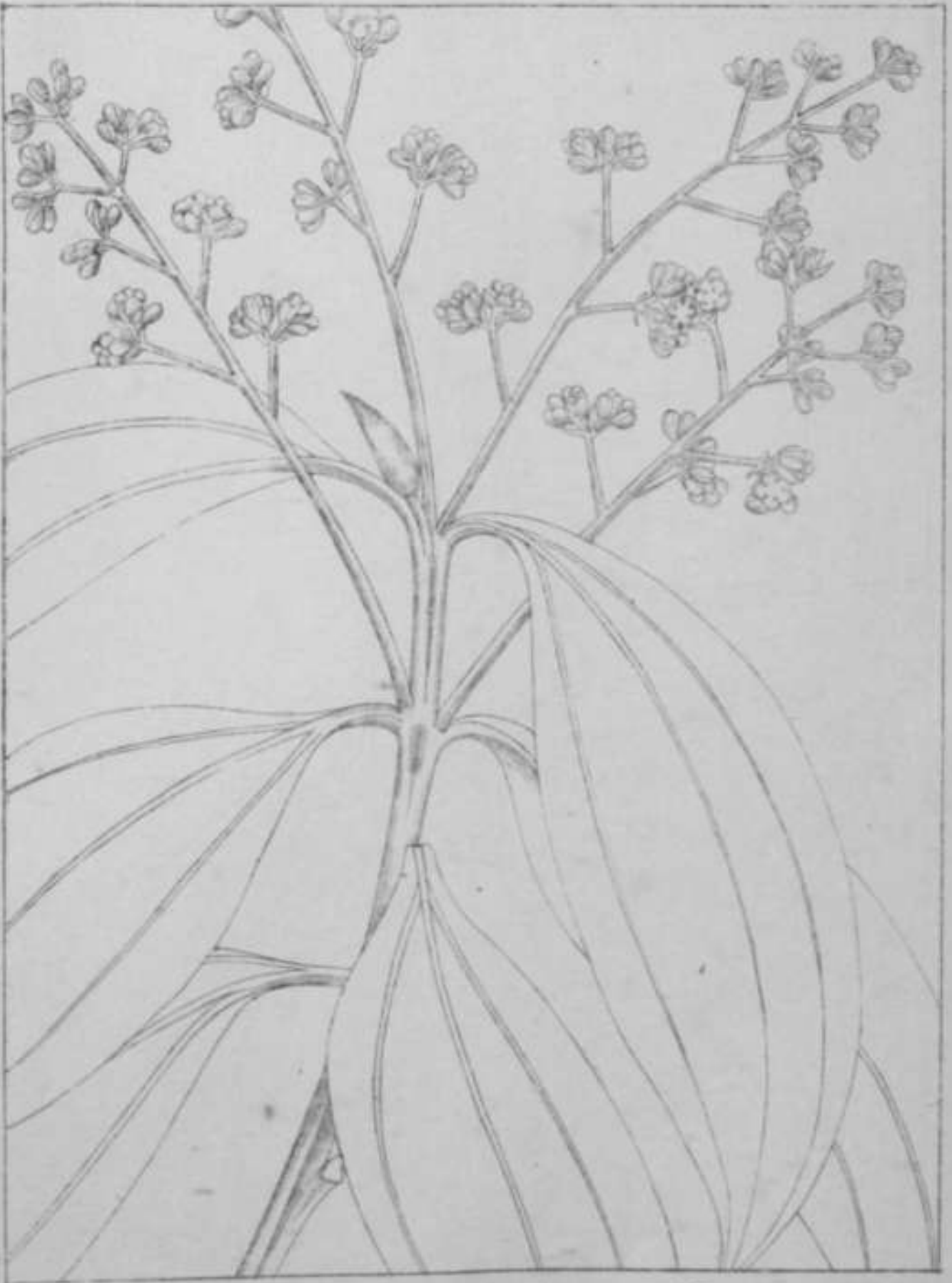
H. & A.

Cinnamomum zeylanicum Nees
Cinnamomum perspicuum florens? Burm.



X. H. Nees

Cinnamomum dubium Nees



Cinnamomum cum, Nees.

Saurus Cinnamomum, Bot. Sep. N. 520



Amomum subulatum

Amomum subulatum

Boerburghiana

Saurina.

172



Gfrmanctam dulce

Saururus dulcis, Boerh.



Cinnamomum obtusifolium (Nees)

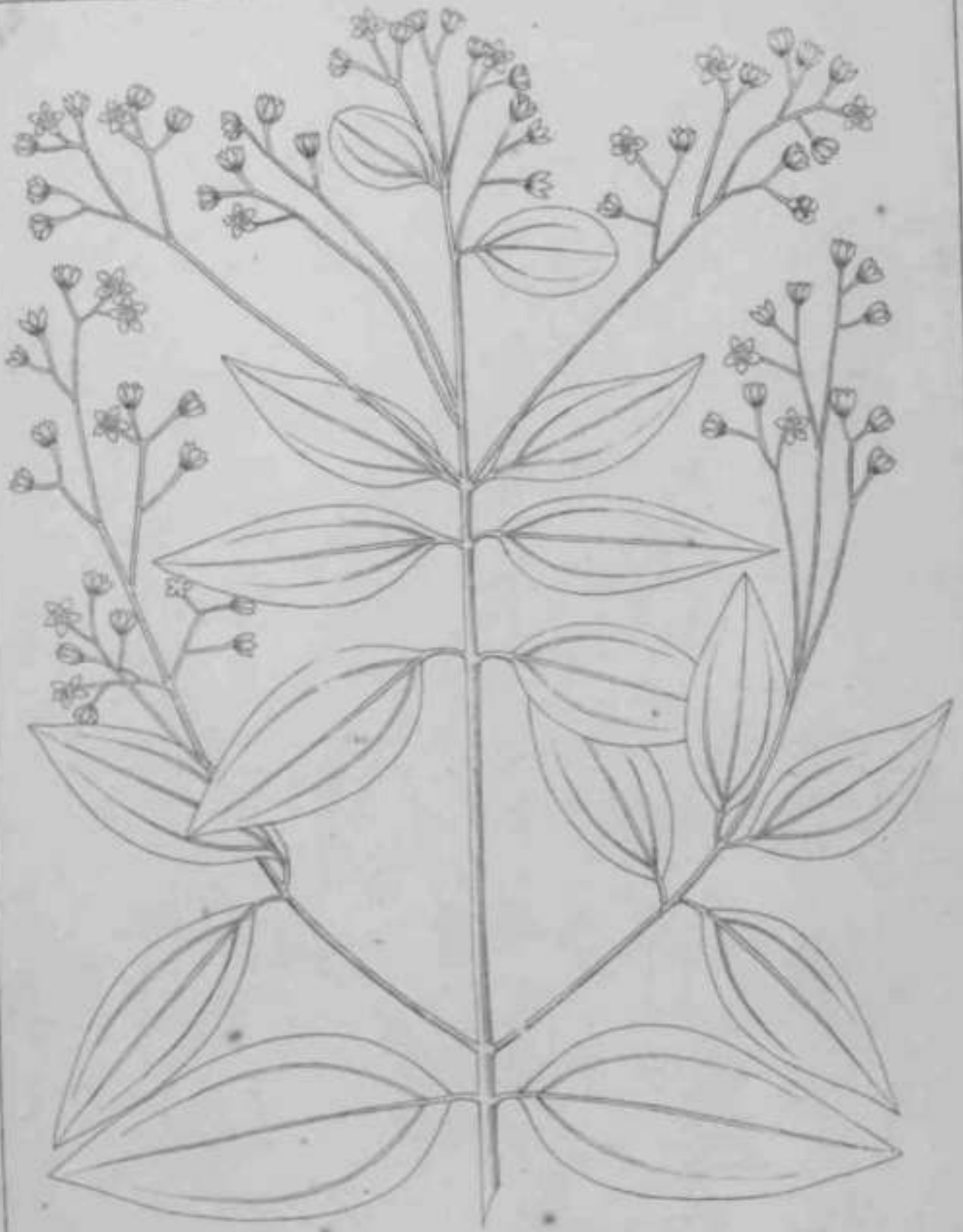
Saurus obtusifolia (Roxb)



Cinnamomum alliflorum (Sies)
Laurus Cassia (Roeb)

Laurino!

184



Cinnamomum papulaciflorum (Burm.)



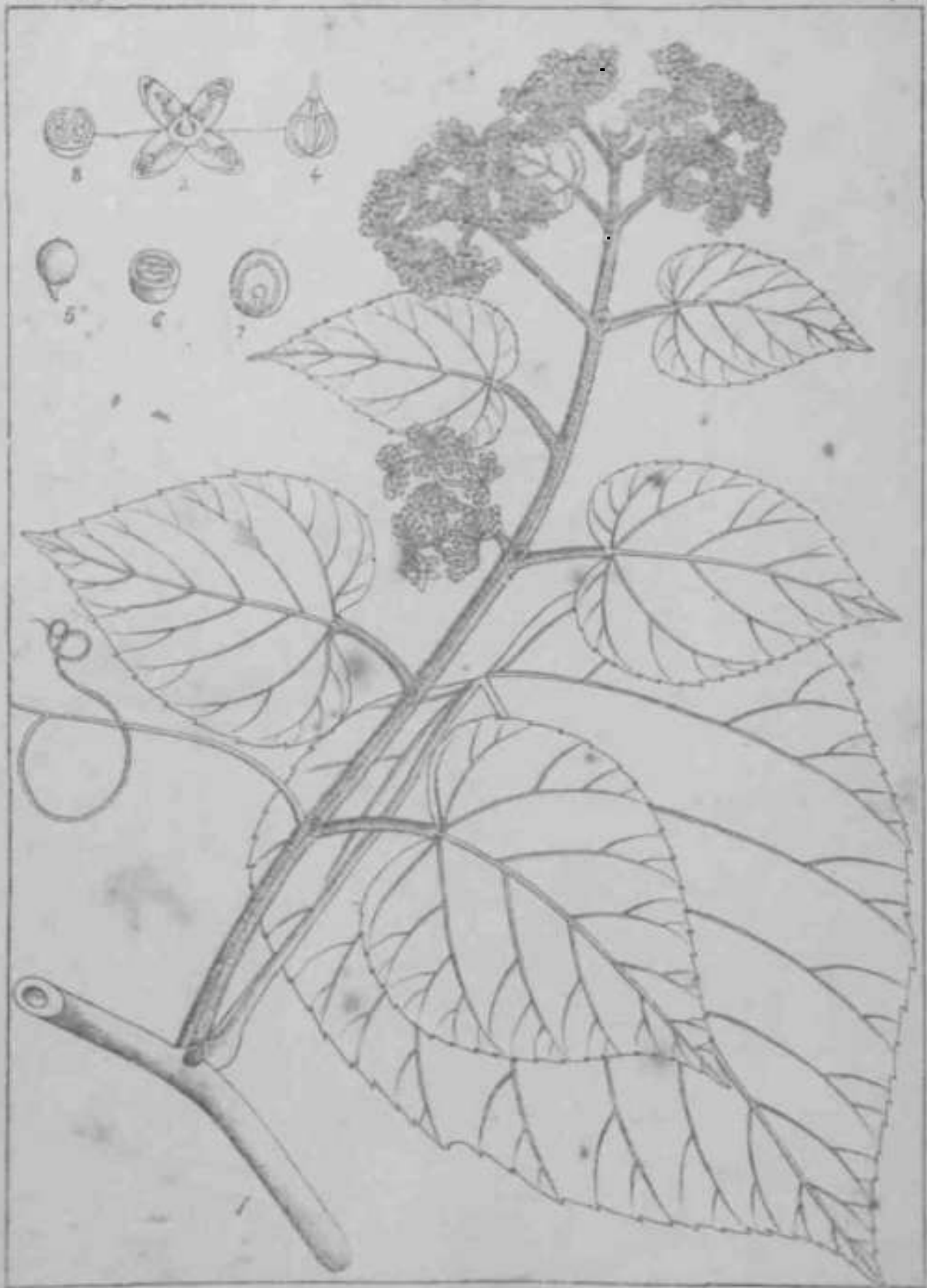
Engelm. det.

J. W. Hill

Soranthus memecylofolius. (W. & A.)



Soranthus Wallichianus (ftAu.)



Cissus adnata (Rexb.)
Vitis adnata (Vahl.)



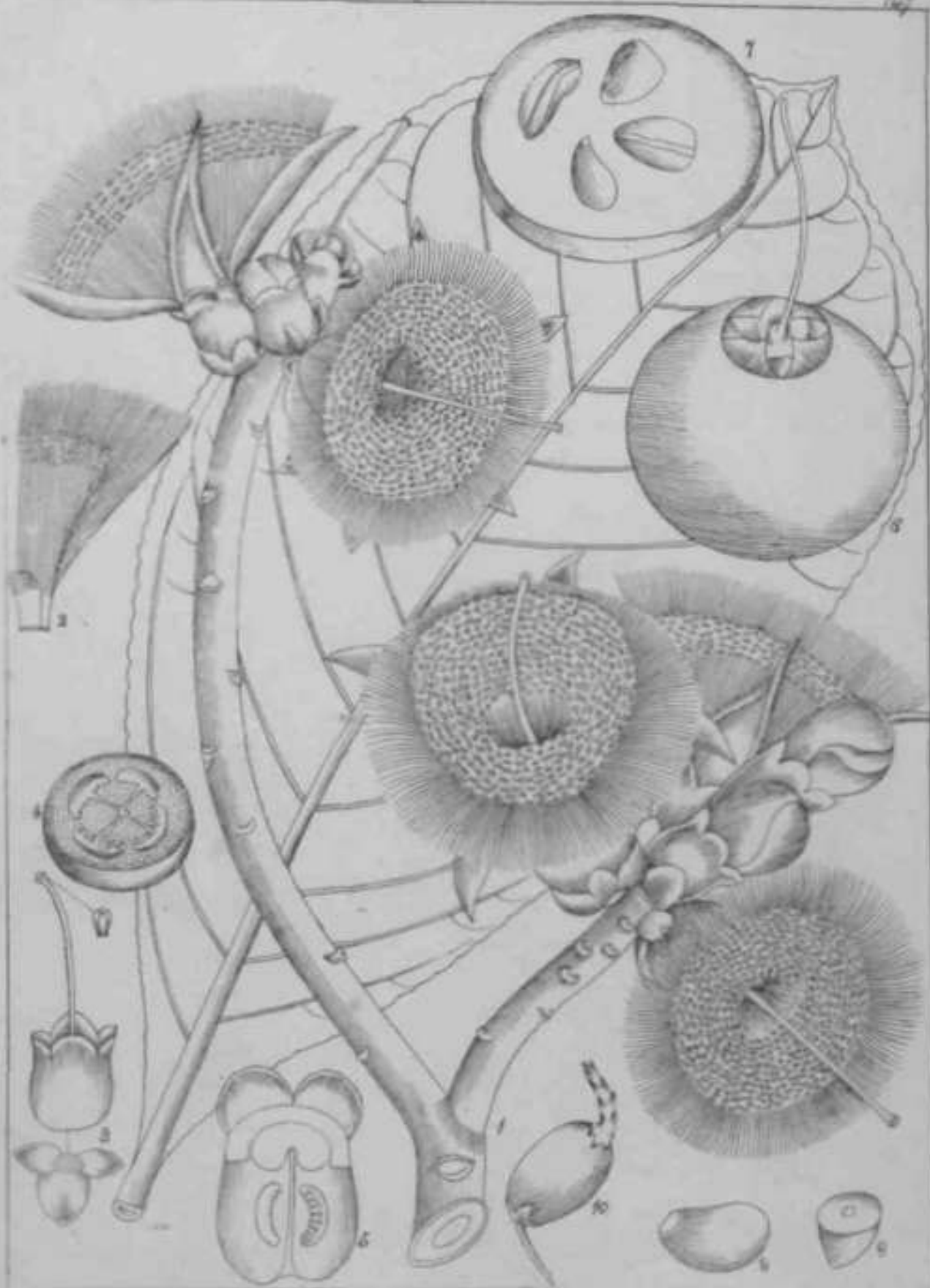
Cissus a& riculata (Poa) /A
Vitis a& runculata (Wall.)

Roxburghiana

Meliacea



Guarea paniculata (Roxb.)

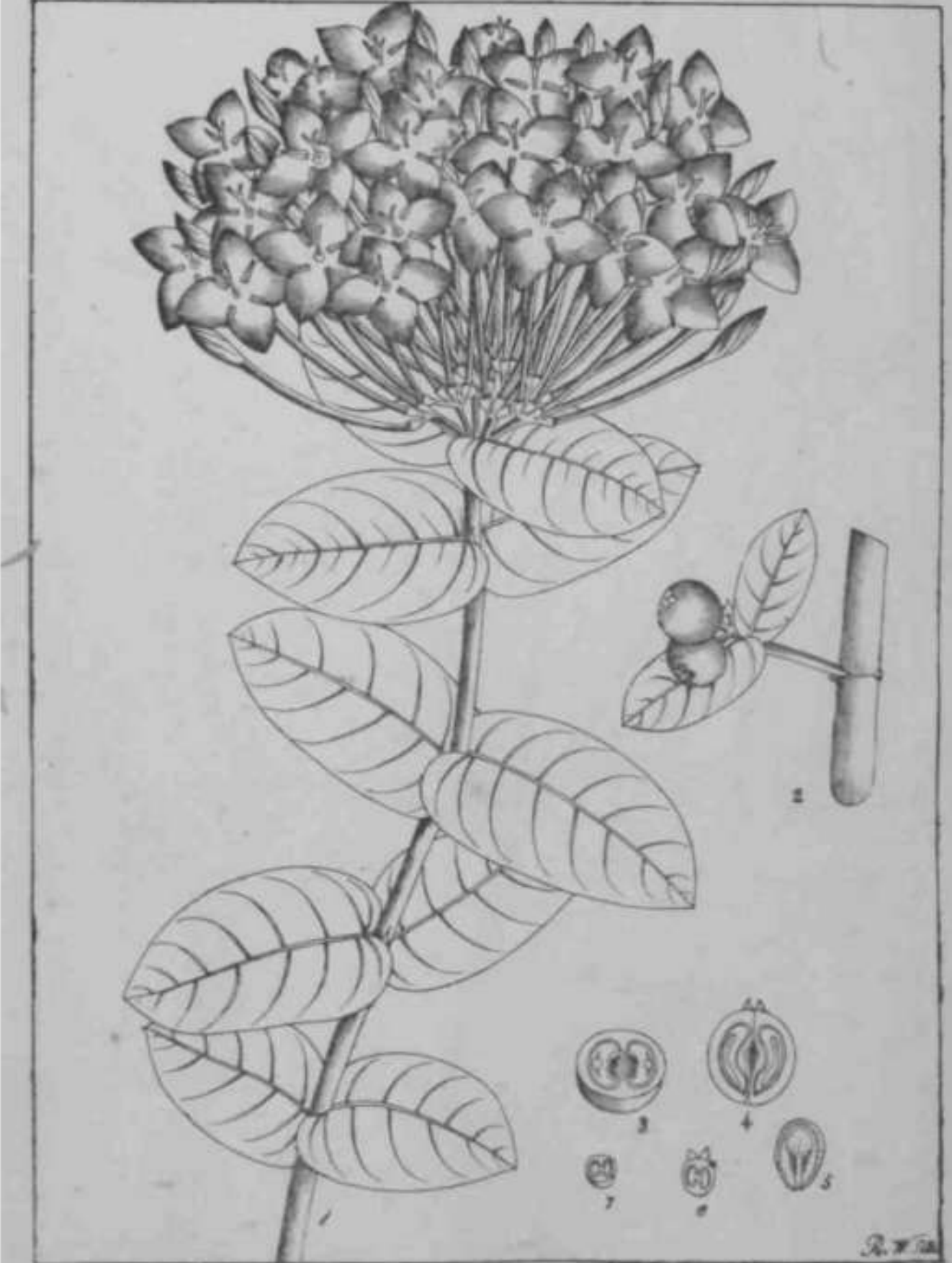


Careya sphaerica



Pavetta indica (Sinn.)

Acaba pavetta (Acab.)



Lin-m, J^atidftatz (R/r, -)



Psychotria villosa (Poeb.)

r,

7

1

2

4

8

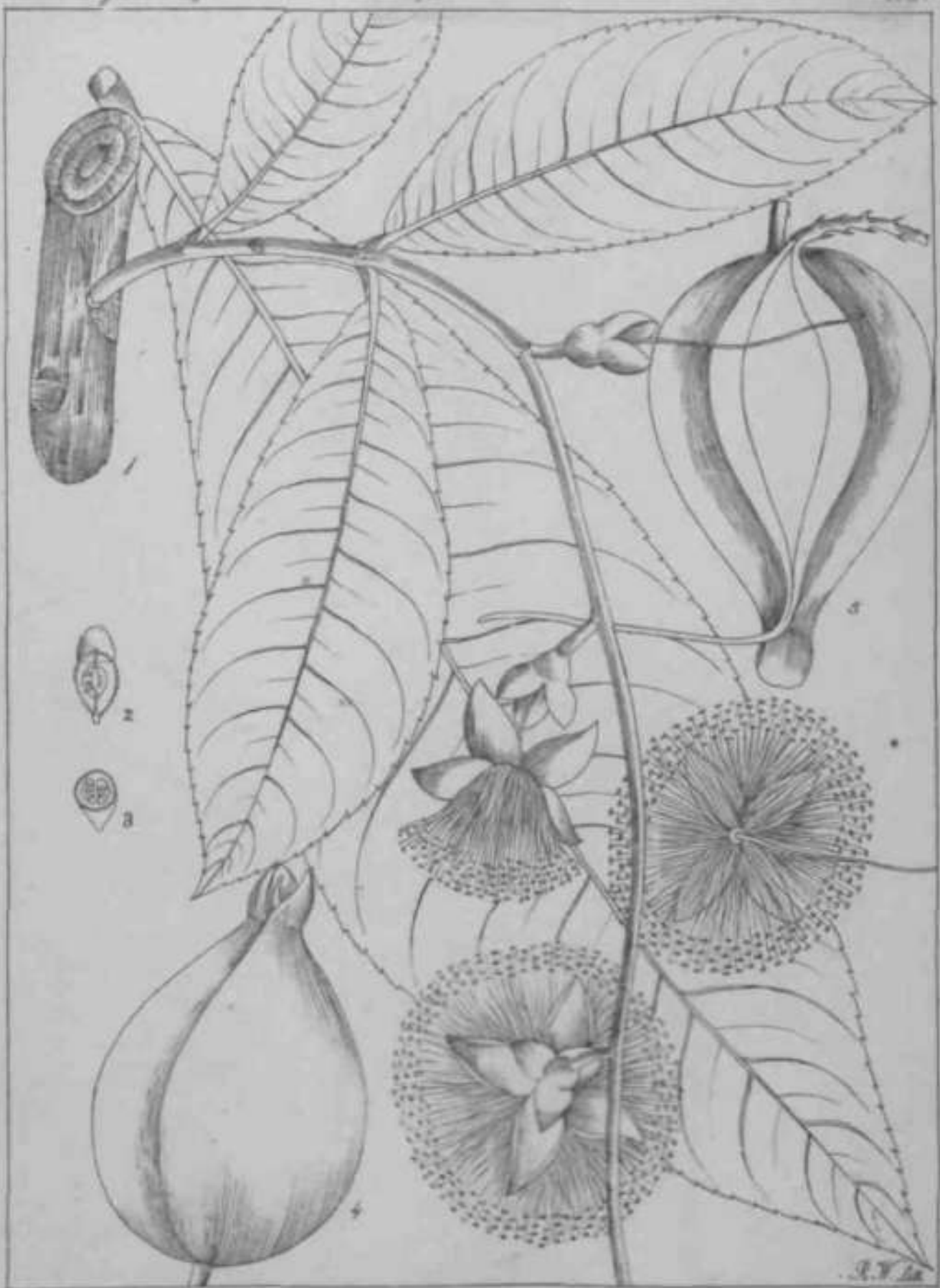
5

5

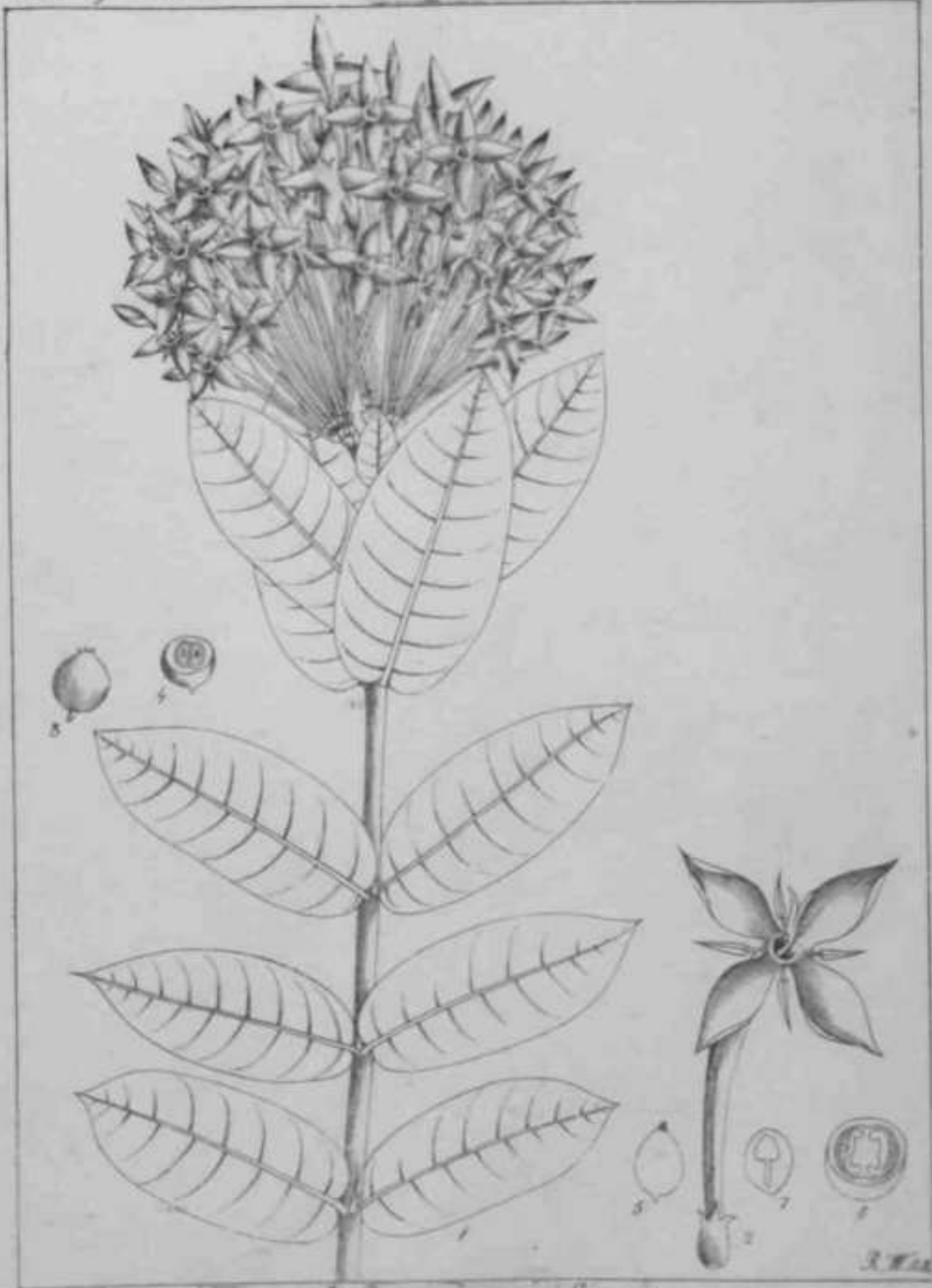
6



Ixora fulgens (Roxb.)



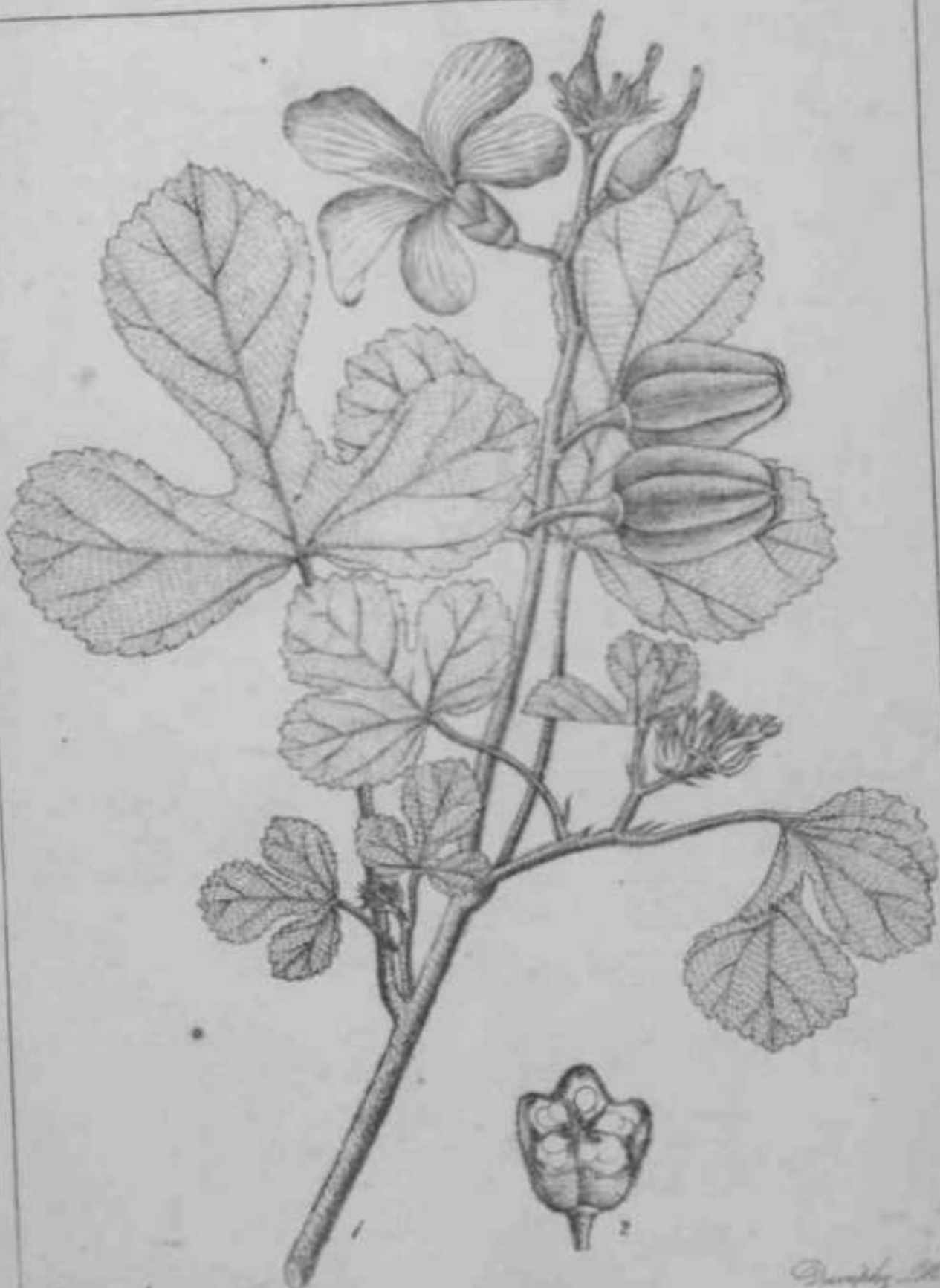
Barringtonia racemosa. (Roxb.)



Tab. 7 rrrtwua VI. •

Malvaceae.

27



Rango del

Bartholomew del

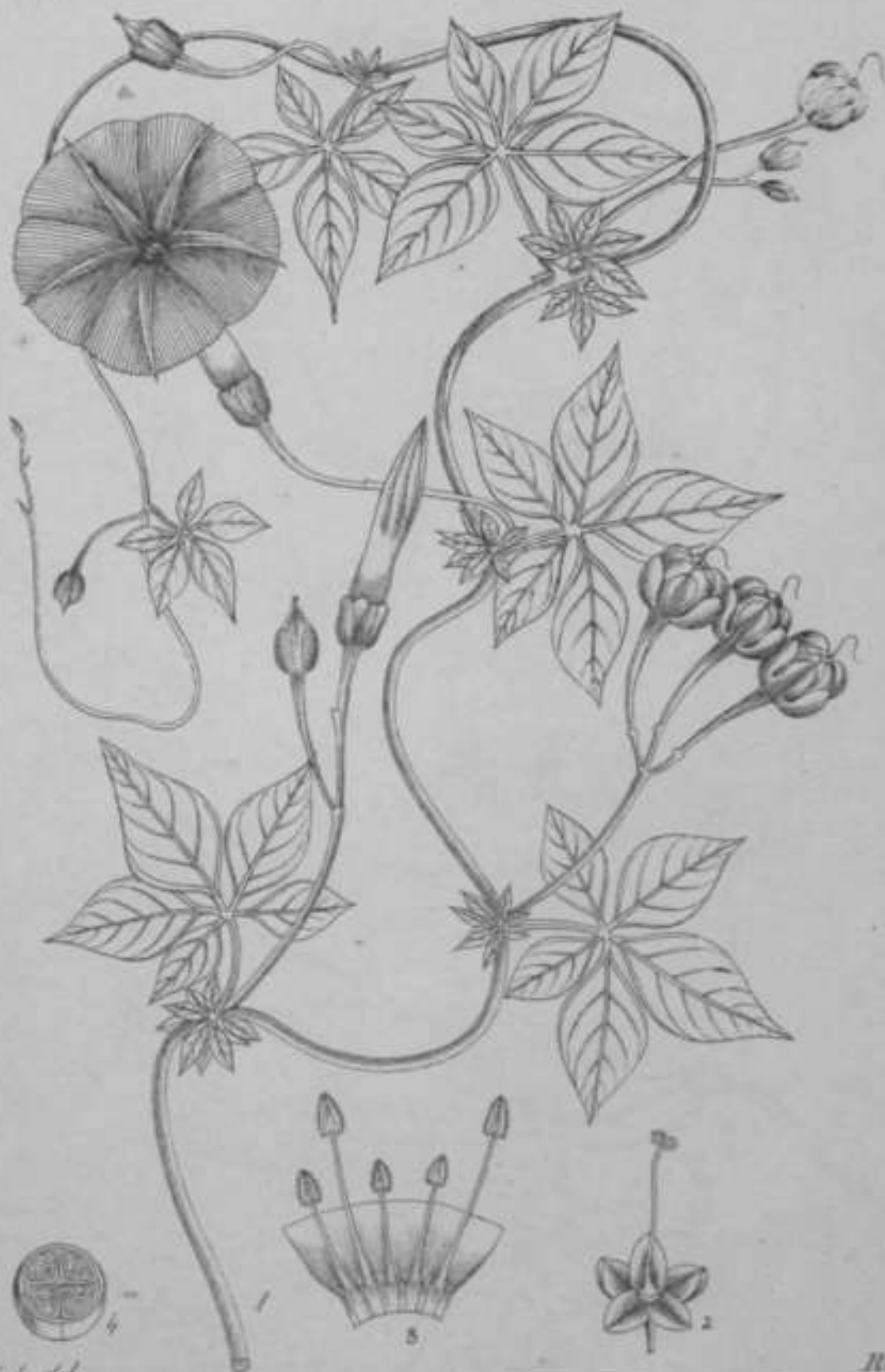
Admoschus fulvius (W. & A.)



Pungent leaf

Drumby - Ph

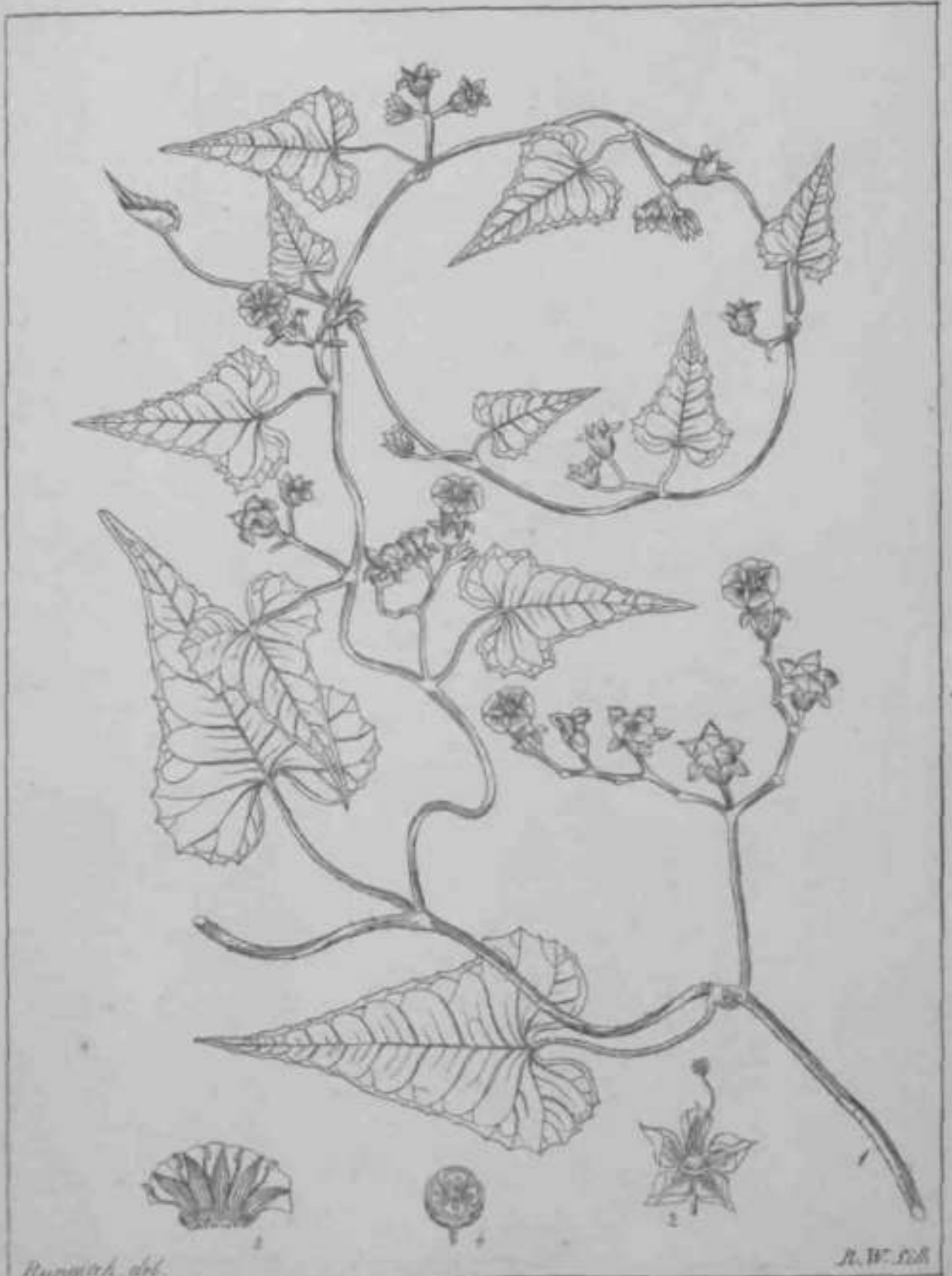
Pleurostylis Wightii (W & A)



Bongiah. del.

R. W. Lill.

Ipomoea pulchella.



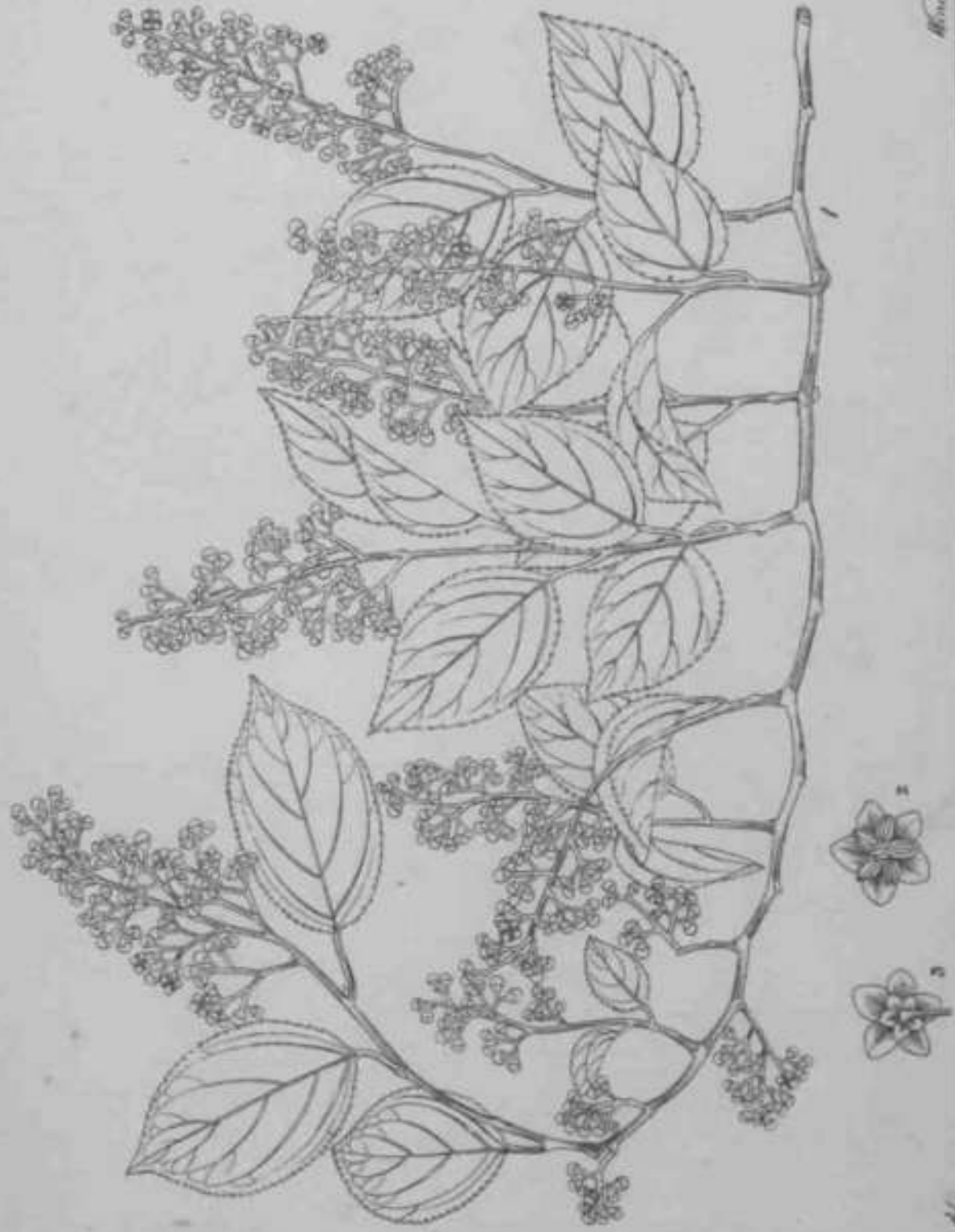
Bungeich. det.

R. W. G. S.

Ipomoea chrysoifolia

Celastrina

158
490



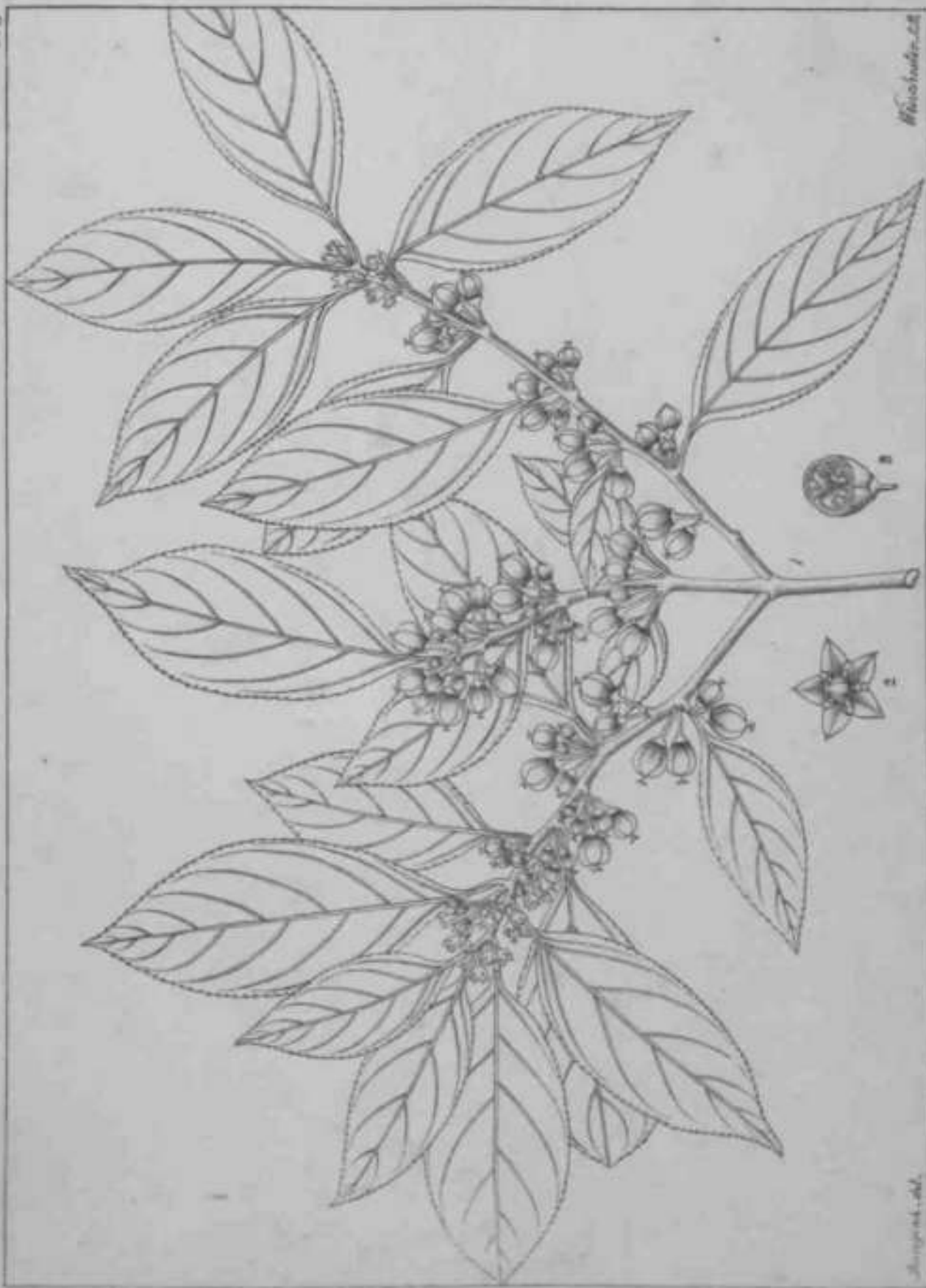
Boiss. del.

Celastrus 218

Celastrus paniculatus (Widd.)

Rhamnea

159
515



Rhamnus nigra

Rhamnus
nigra

Rhamnus nigra (W. & A.)

Rhamnus nigra



Original del.
 hand Deshayes 1824
 Melia Indica

Melia Indica (Linn.)

Plumby del.
 1824
 Melia Indica



Branch of
the
tree

Entrelia Terna, Root

Empty Cell



Rangabe del.

Wincheler sc.

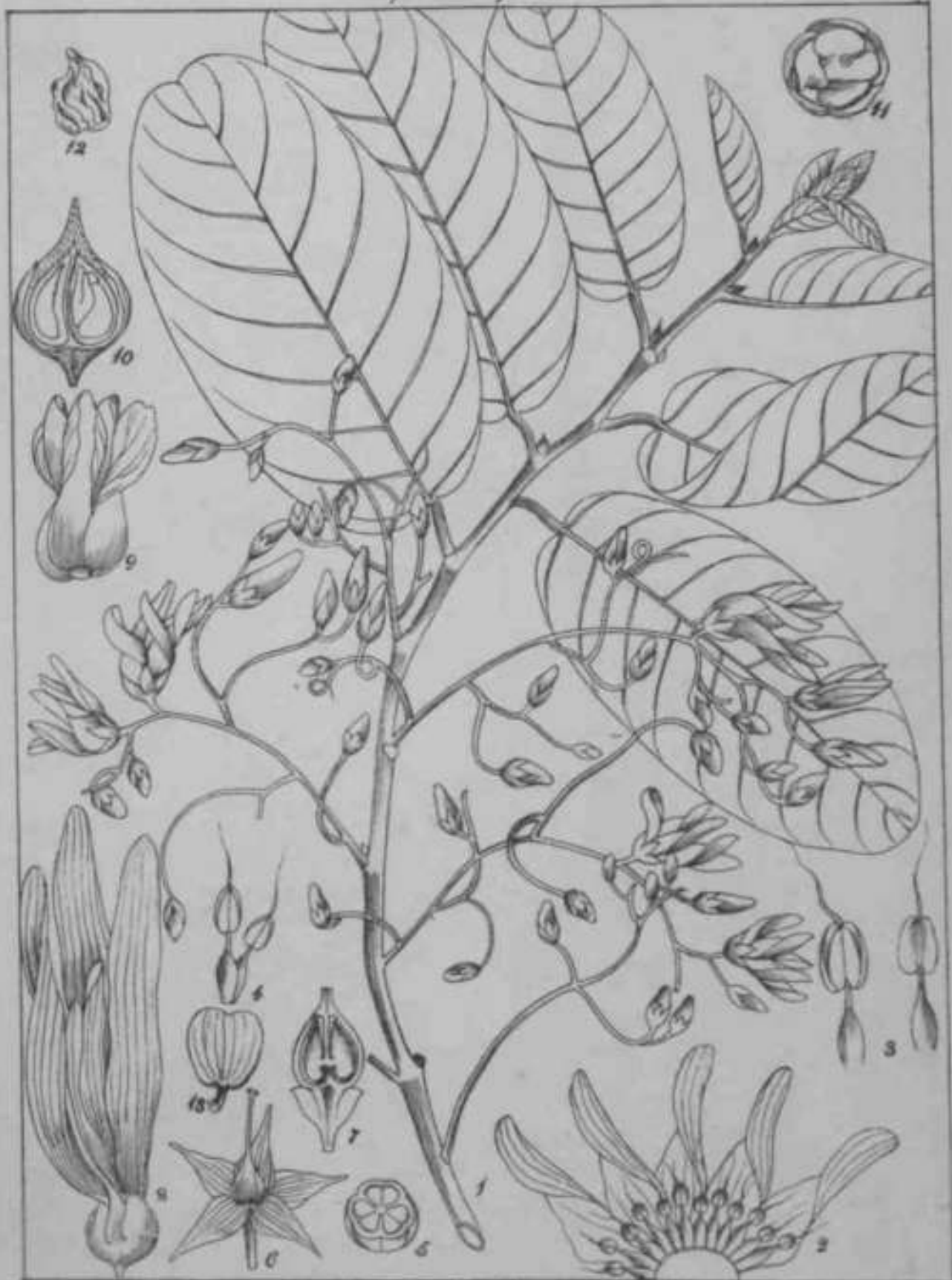
Lophopetalum Wightianum. (Arn.)



Ramgopal. del.

Kinchester. sc.

Ventilago maderaspatana (Gartn.:)



Vatica laccifera (W & A.)

Dunlop, litt.



Meliacea



Melina Roseana

wf¹



Hempstead del.

Dunlop sculp.

Glycosmis huphylla (Wight)



Glycine labialis (Sinn.)
Glycine labialis (Sinn.)
Glycine labialis (Sinn.)

Glycine labialis (Sinn.)



Ipomoea pes-caprae (Choir.)



Ampelid. del.

Kocher. sc.

Vitis setosa }
Vitis rotundifolia }

Vitis setosa (Wall.)

Samuel Butcher

Ampelodes

171
523



Ampel. 171

Koch 22

Vitis carnesu. (Hall.)



R. Schomburgk del.

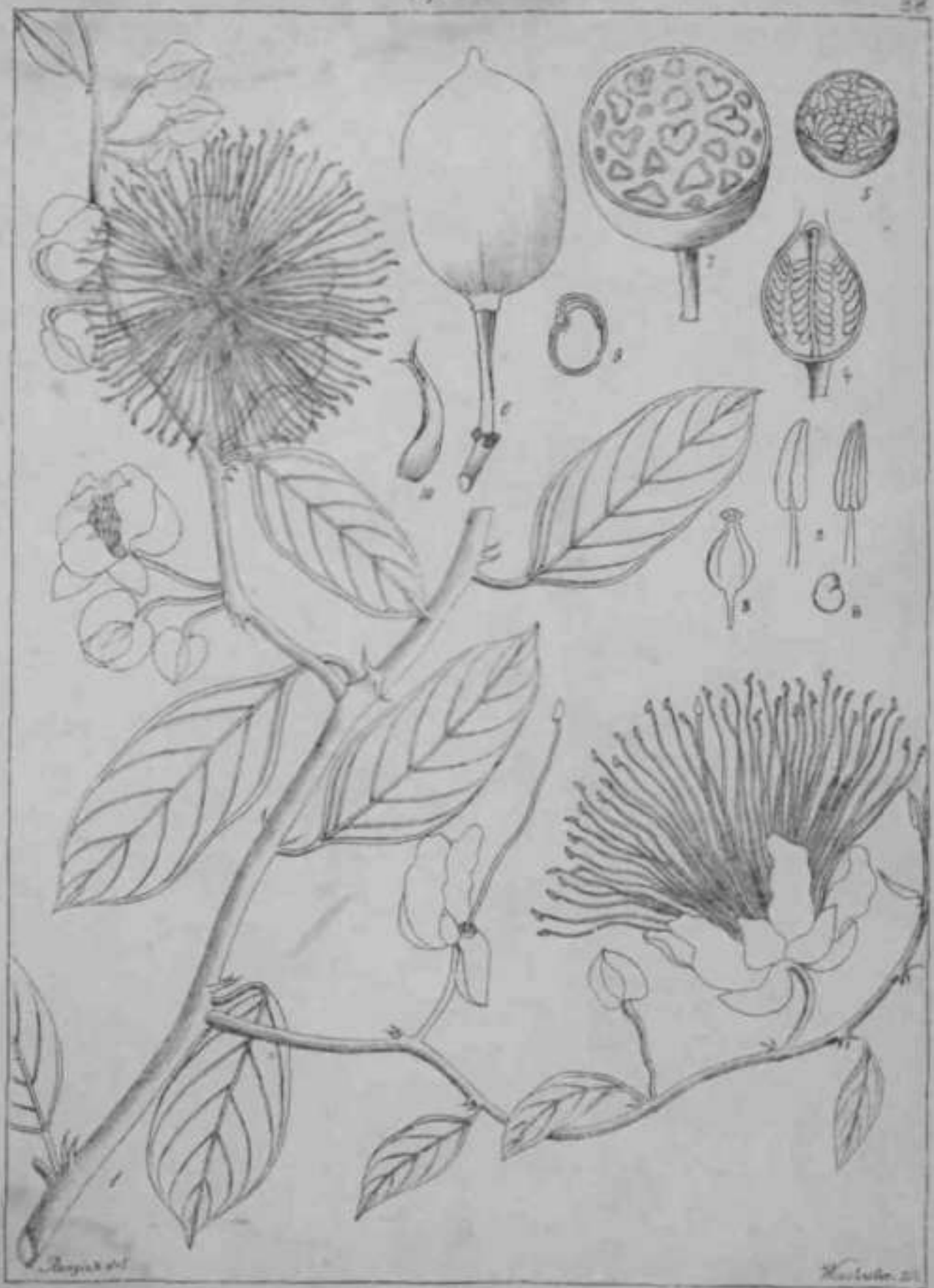
F. Schomburgk sculp.

Terminalia
catappa

1 X m

Terminalia catappa (Linn.)

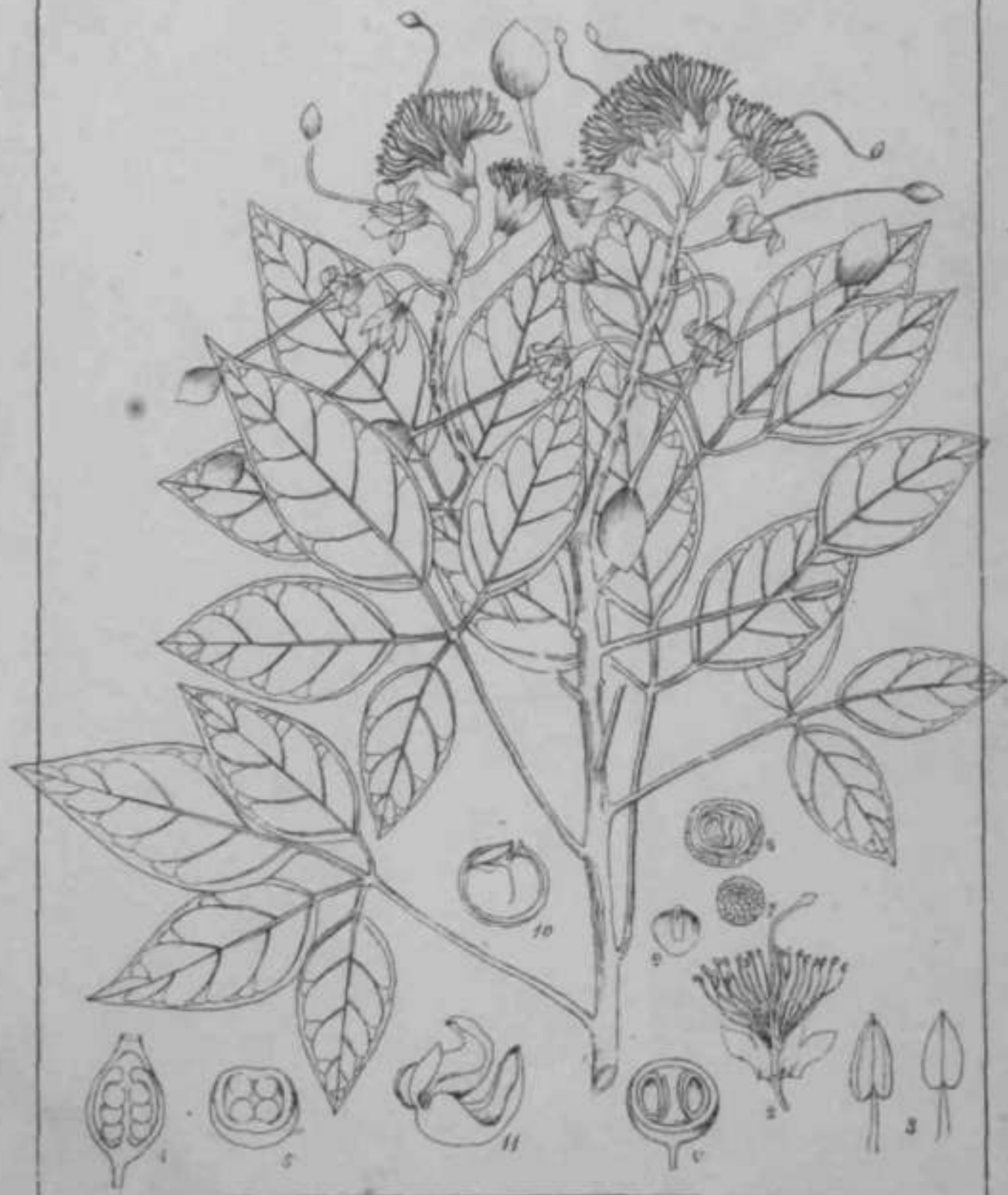
Behav. ... }
Behav. ... }



By permission of
Richard S. Wain

Capparis korndtii (Spreng.)

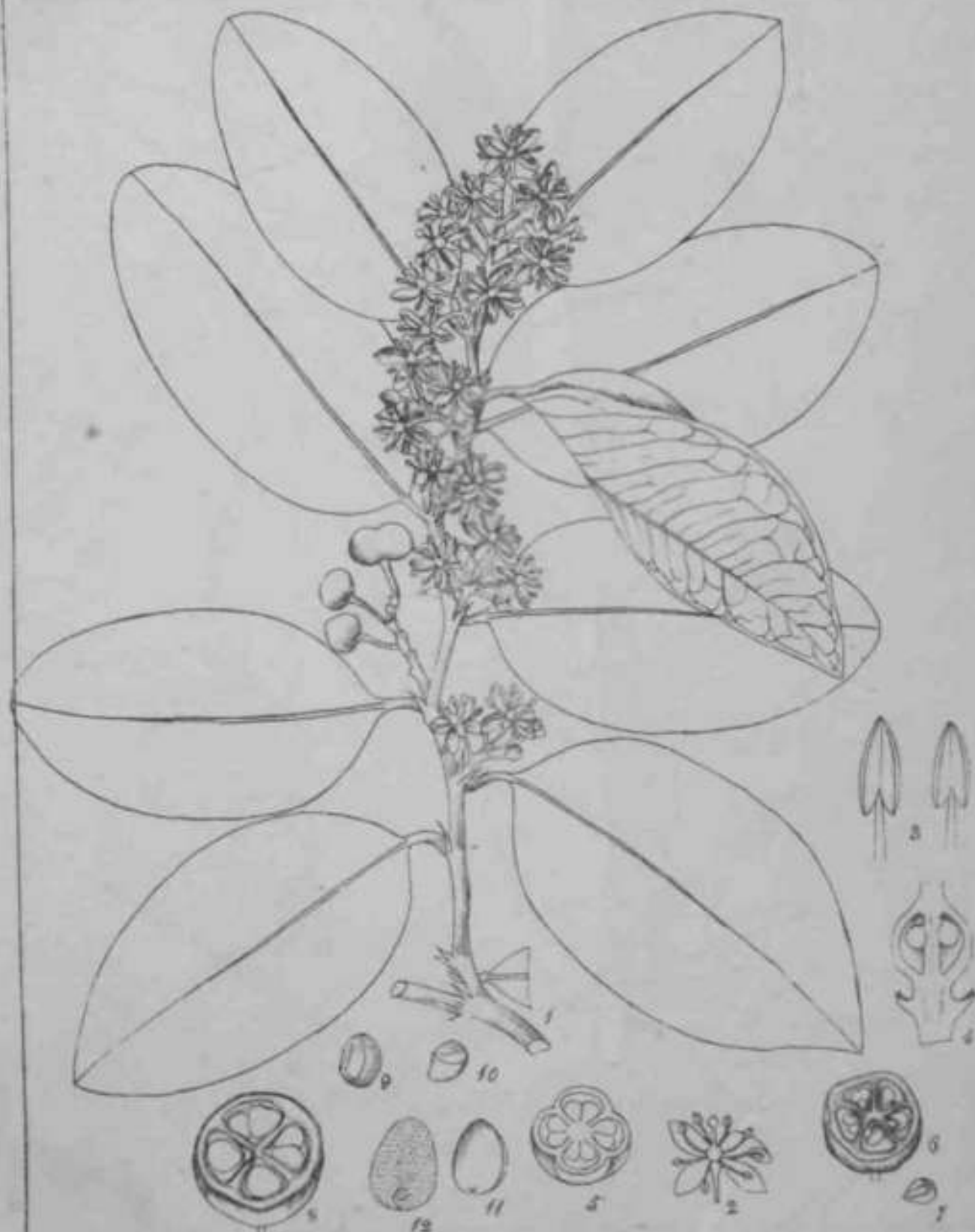
Richard S. Wain



Langsdorff

Nibuhria linearis (D.C.)

Stuebel



Reynolds del.

Limonia missionis

Samuel, Lich.



Vitis angustifolia Walt.
Cissus angustifolia Aca.

Thompson 182

Bostrychia

Ampelidea

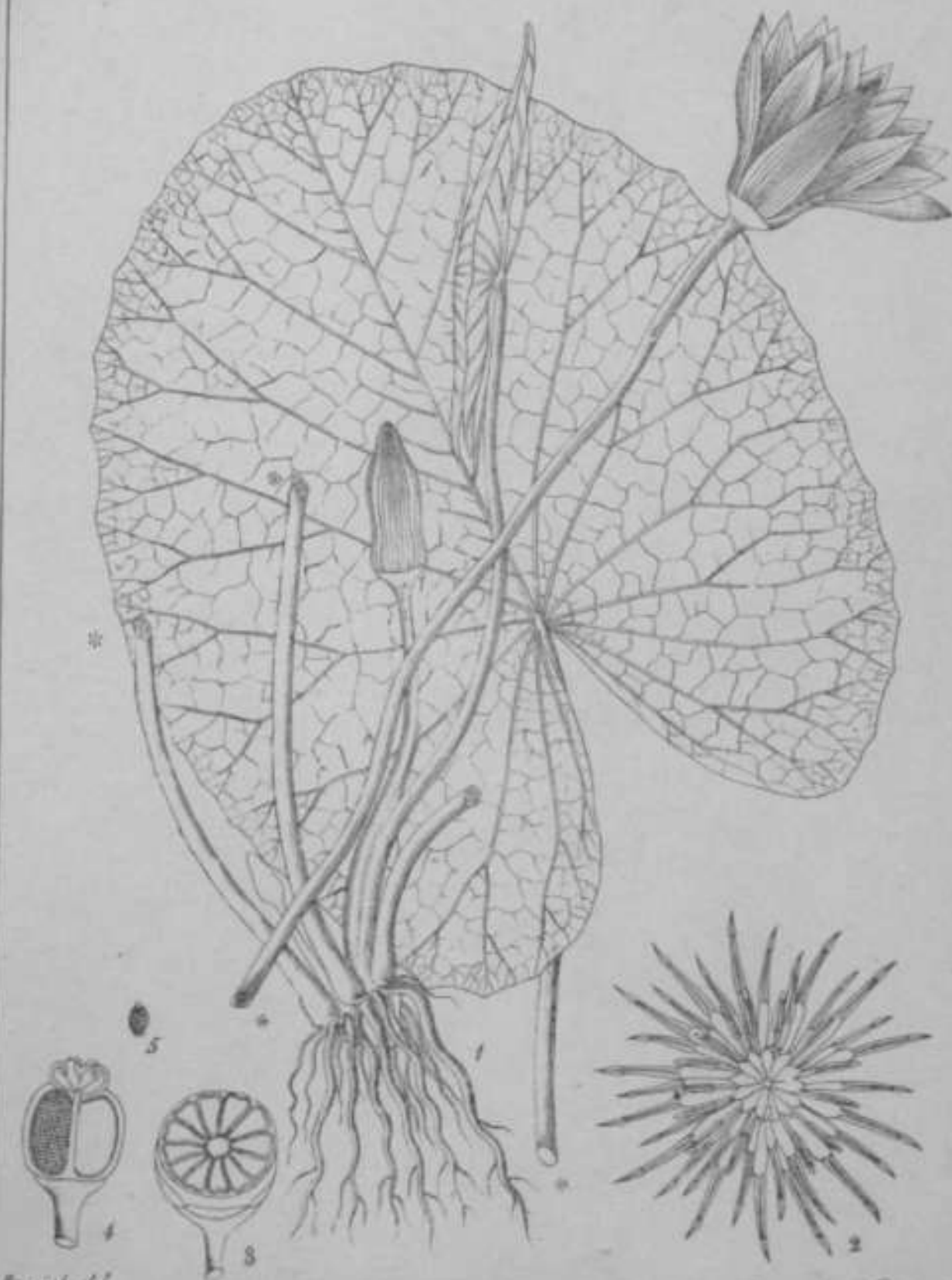
77
496



Ampelidea

Vitis lanceolata (Walk.)
Cissus lanceolata (Roxb.)

Bostrychia



Nymphaea stellata (Willd.)



, ^ *Passiflora ligularis* (Watermelon Passionfruit)

Bombacea

18
374



P. C. Smith del.

Helicteres Isora (Linn.)
Isora corylifolia (Endlicher)

Samuel J. Lill



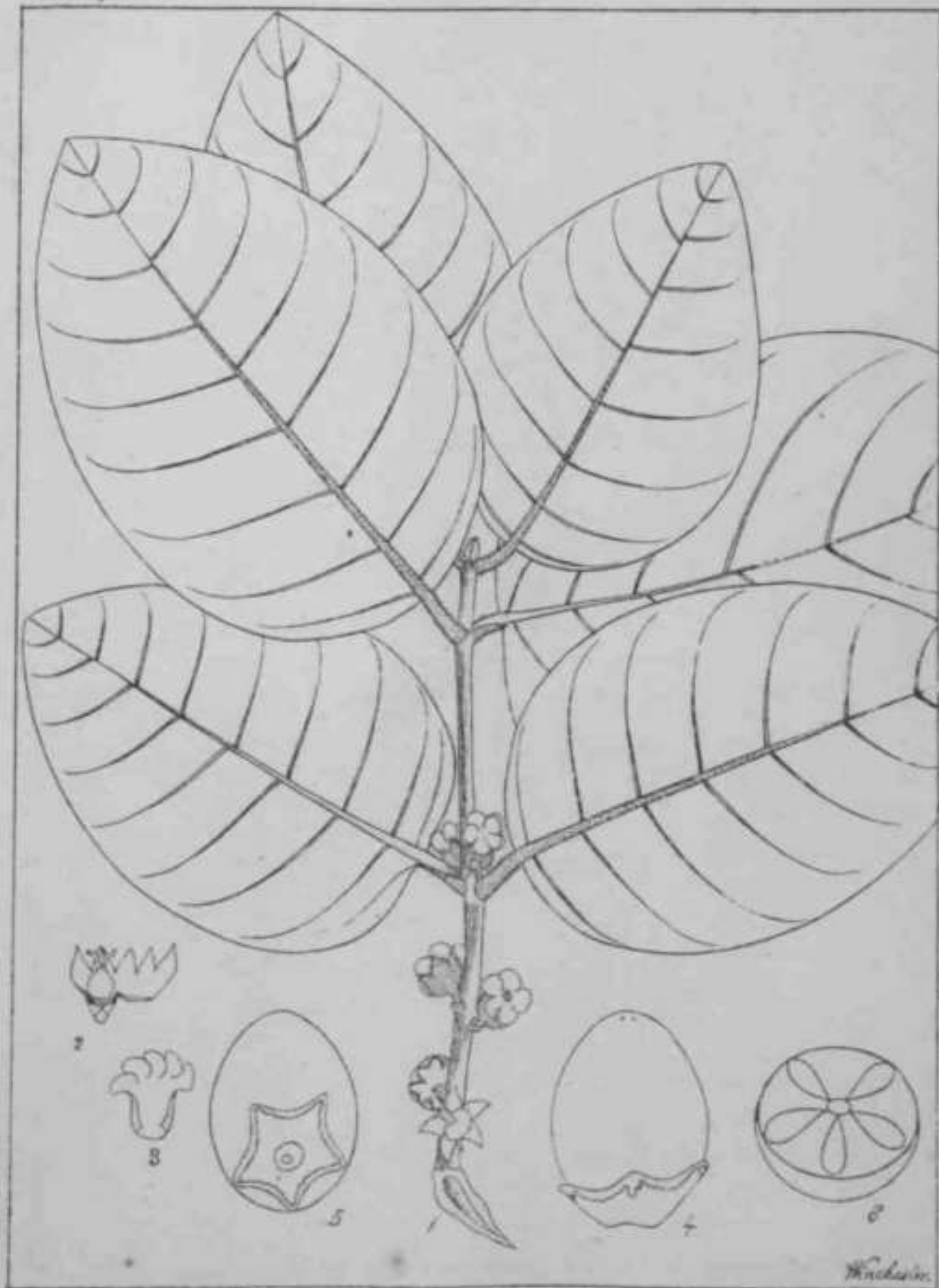
Seymour del.

Sterculia foetida (Linn.)

Seymour Lith.



Diacrypis hirtellosa-mas. (Roxb.)



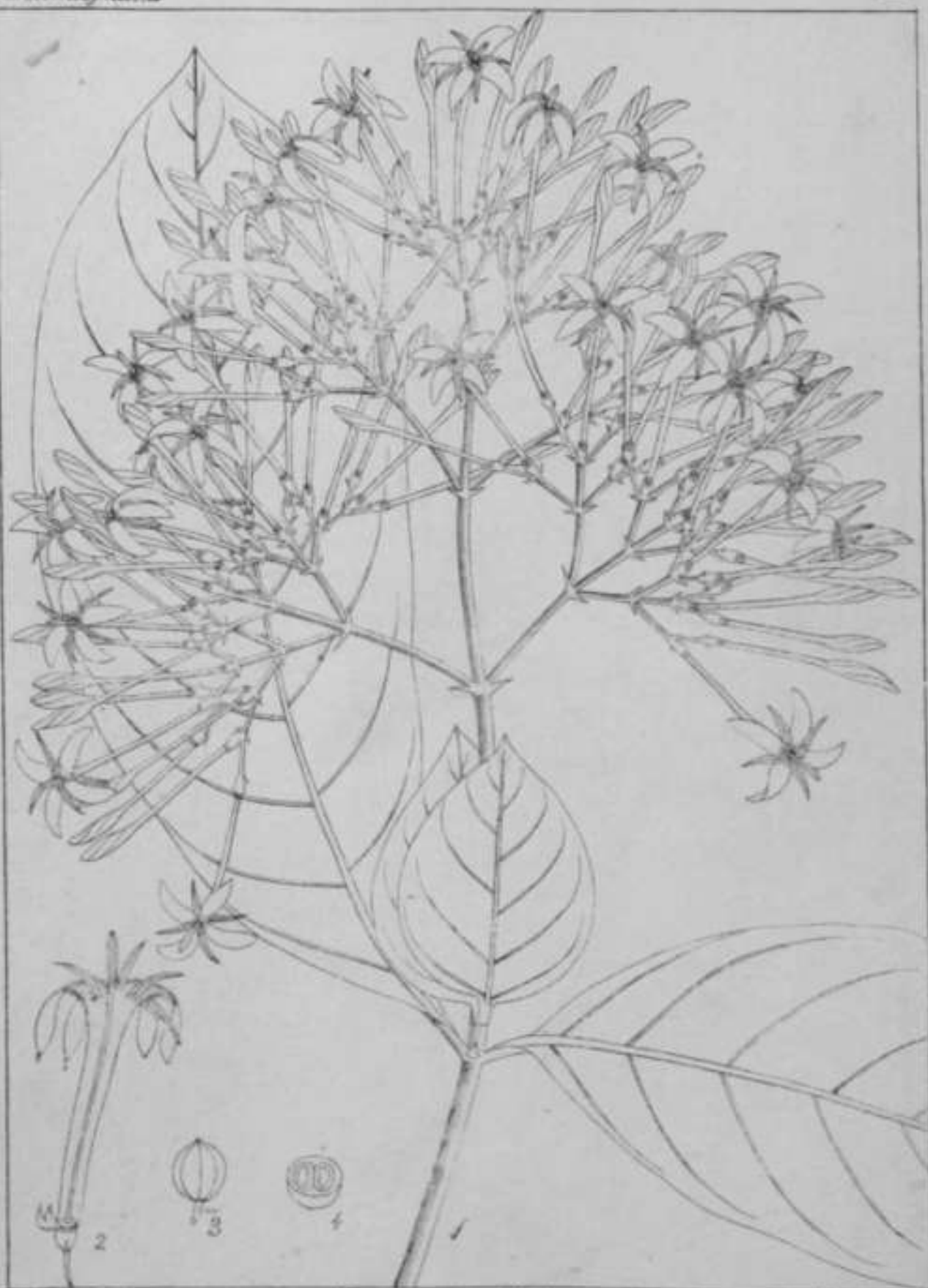
Dacrydium lementosa - fem. (Roxb.)

Wichser.



Scora stricta (Accl.)

W. G. S.



Lyora barbata. (R.)

Fincham & Co.



Saera tomentosa (Roxb.)

W. & A. G. Smith del.



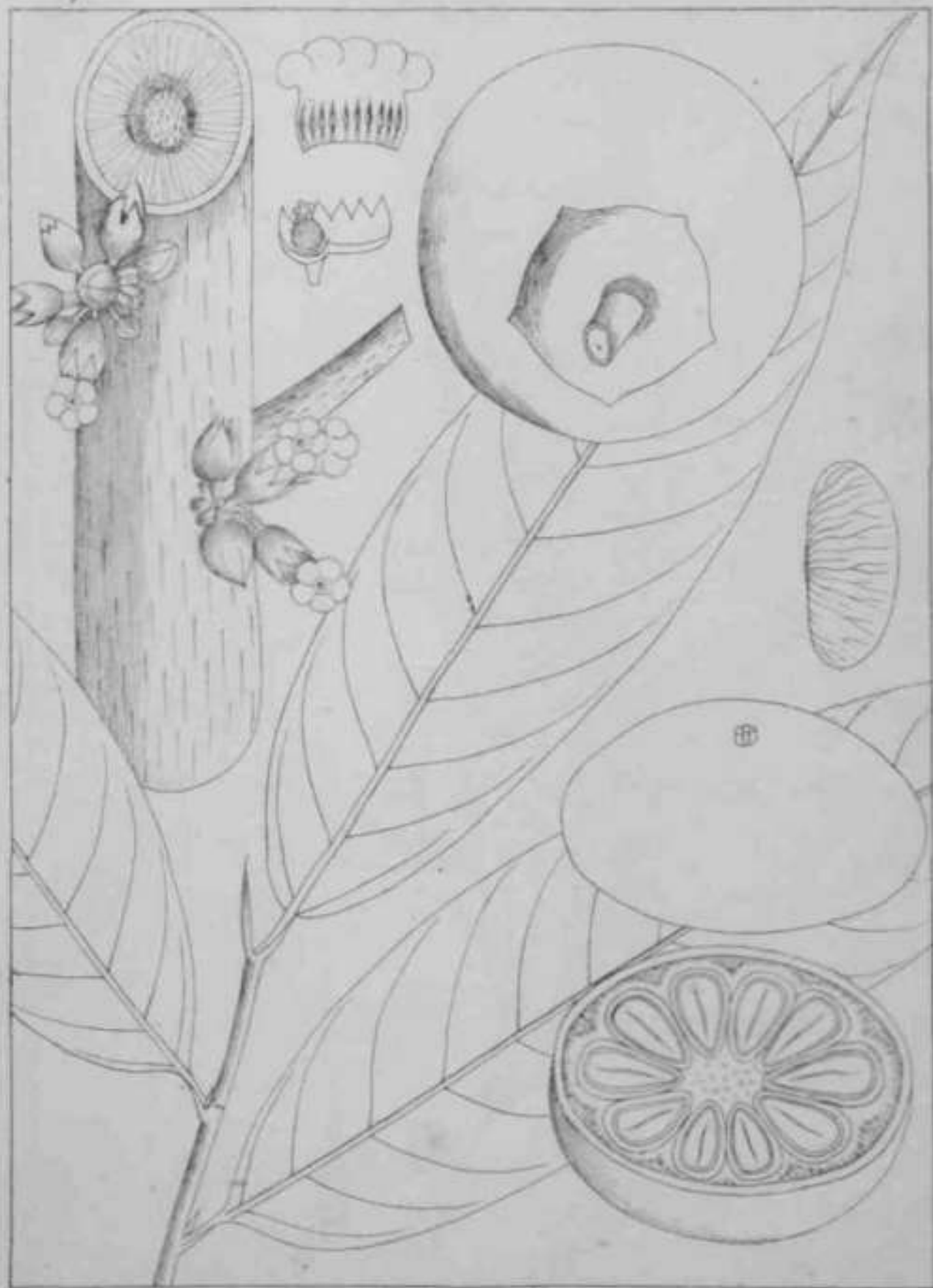
Rubia munjista (Roxb.)

Samuel, Loh.



Diospyros Ebenum

Thunberg del.



Diospyros ramiflora (Red)

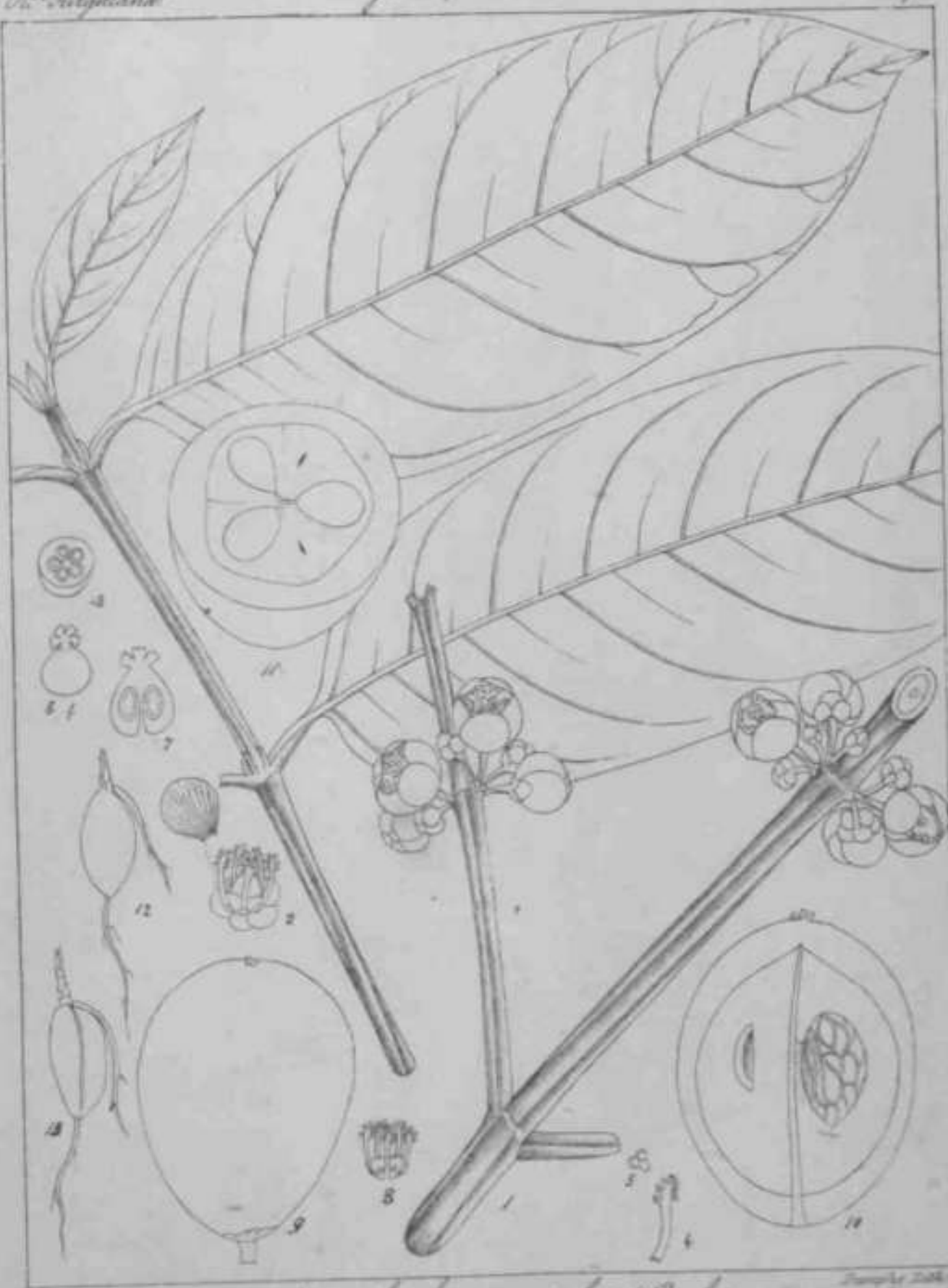


Rhododendron (Roch)



Rhipsalis robusta (Reich)

Chambers, 1848



Xanthochymus dulcis (Roel.)



Spermacoe laevis (Roerb.)

Roemerhiana

Alangia.

194
1005



Alangium Wal.

Alangium Wal.

21275 Buzo
 21276 Buzo

Alangium reticulatum (Lam.)
 1



Angust. del

R. H. Lich

Terminalia tomentosa &t&{ fffx. a,-)
Angust. del
H. Wallg. sculp.



Original of

A. W. C. C.

Andropogon
Polypodiaceae

Pterolobium lacerans (Browm.)

Andropogon
Andropogonaceae



Coronilla
Caulis

Hibiscus-lj ,/// }t/m4/i. (- Inn.?)

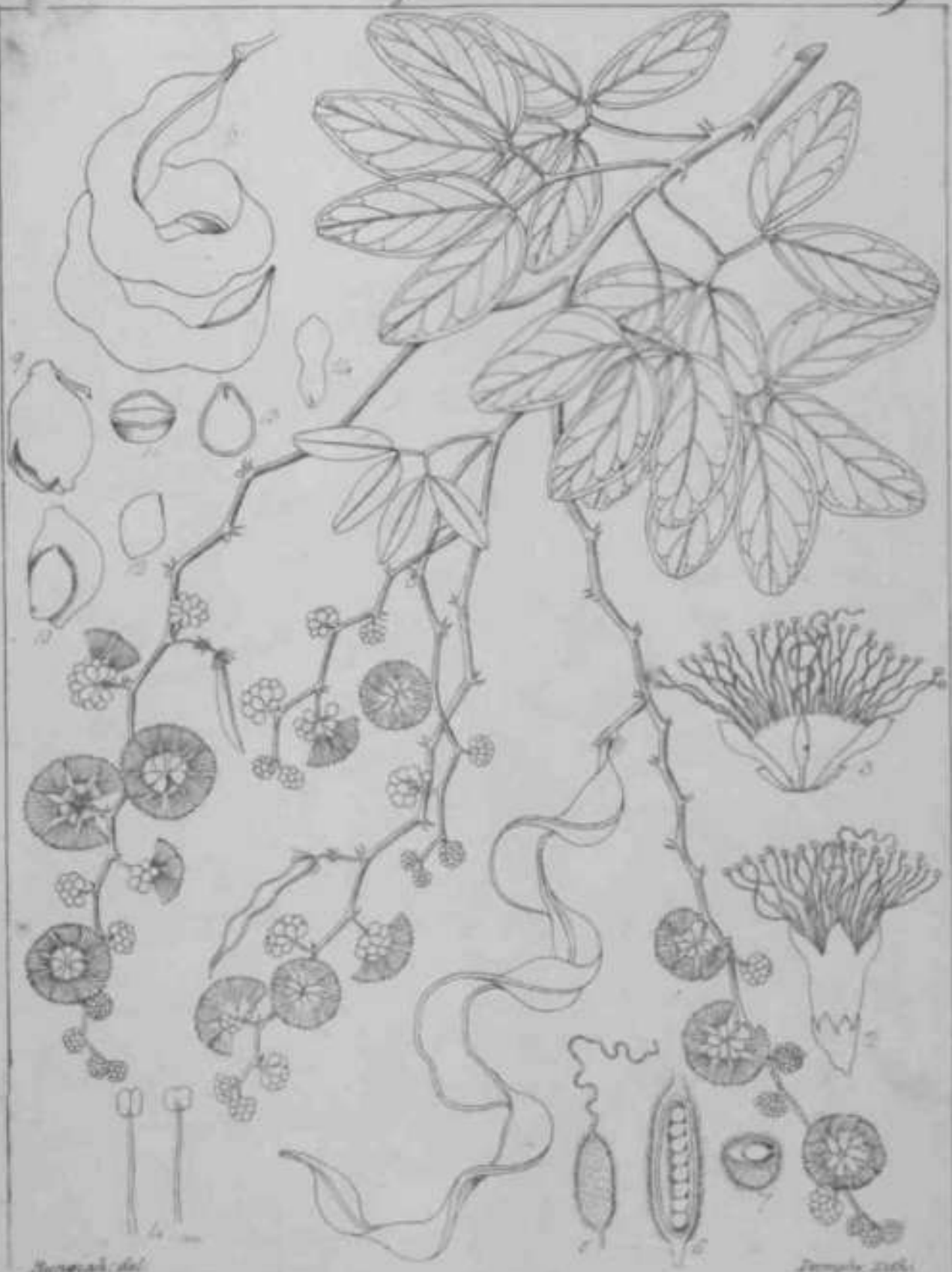
%L

Malvaceae } Gen

Humerae

Leguminosa

Asiae 1028
899



Surpiak del

Scamper del

Саркастозифлора
Асцитолемносис

Inga dulcis Willd.

Leguminosae

Leguminosae



Rothia hirsuta (Pers.)

Boissier, etc.

Boissier, etc.

Boissier, etc.



Regia del

R. & S.

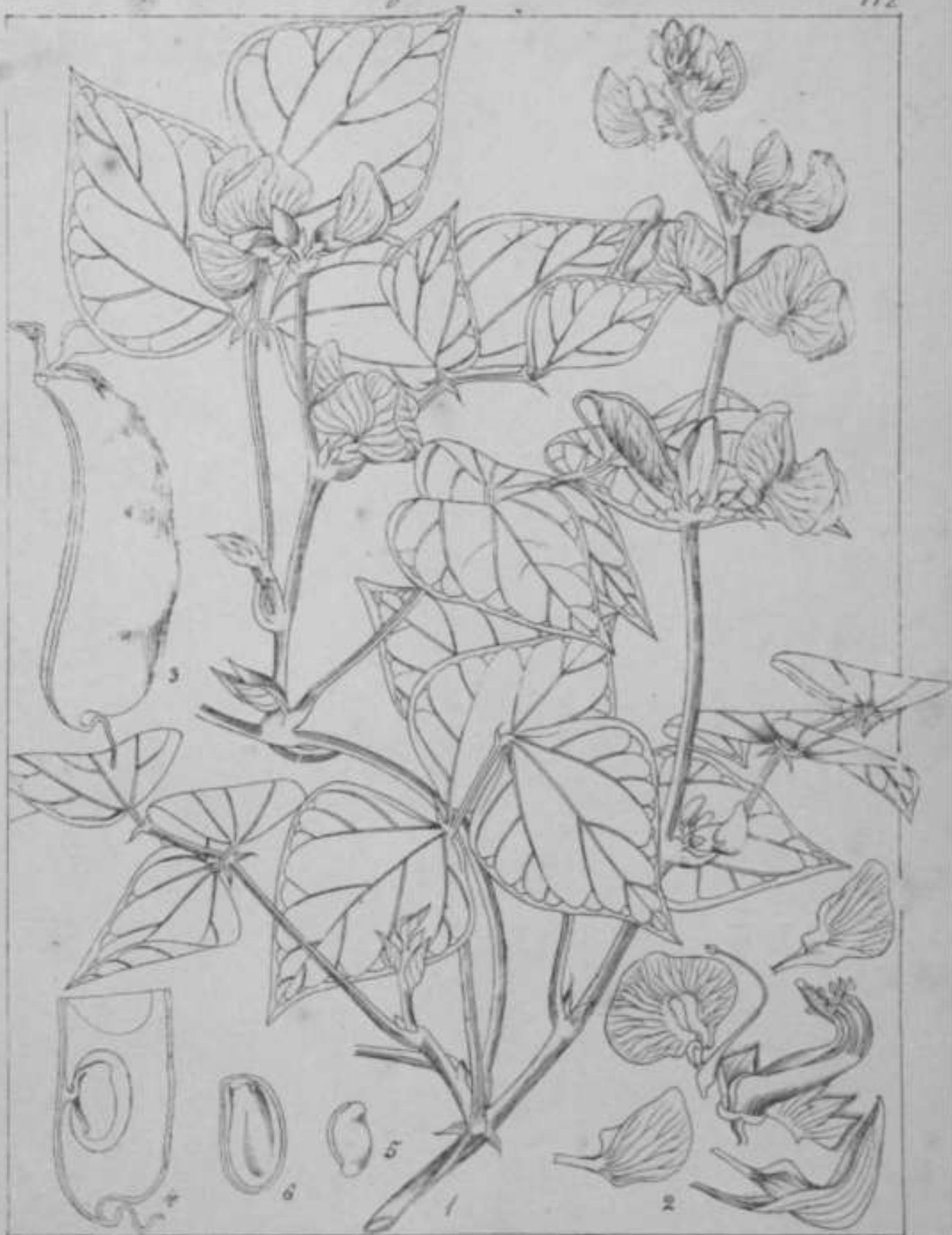
Crotalaria verrucosa (Sinn.)
Hy. helveticus



Medeeca palmata (Lam.)



Phaseolus pulcherrimus (R. W.)



Bean
 Phaseolus vulgaris L.
 var. vulgaris

Phaseolus vulgaris (L.)

R. V. L. A.
 37557
Chickadeethiga } *form*



Zangiacchi, del.

Lanthocylon bifidum (Sw.)

Thunberg, Linn.





Sonchus Asoca (Roxb.)

Leguminosa.

207
810



Mollisia rubiginosa. (W. & A.)



Erythraea obtecta (Graham)



Pipturus congestum (Wall.)

W. & A. G. Smith



Leucob. dit.

R. W. S.

Butea parviflora. (Roxb.)



Quercus emiserata (R.) Stand

Saccharifera

Cupulifera.

212



Quercus laucifolia, Nutt's Jour.

Roburhiana.

Capulifera.

2/3



Quercus squamata (R. L.) = *picata* L.



R. W. Ait.

Reimer del.

Euonymus crenulatus (Walt.)

Blasheimia*Euclyptus Spougei*



Jambosa aquia (Dc.)

Lycium

Salicaria

217
922x33



Potamogeton del.

R. W. Schmidt

Potamogeton pectinatus (L.) Rostk Schmidt

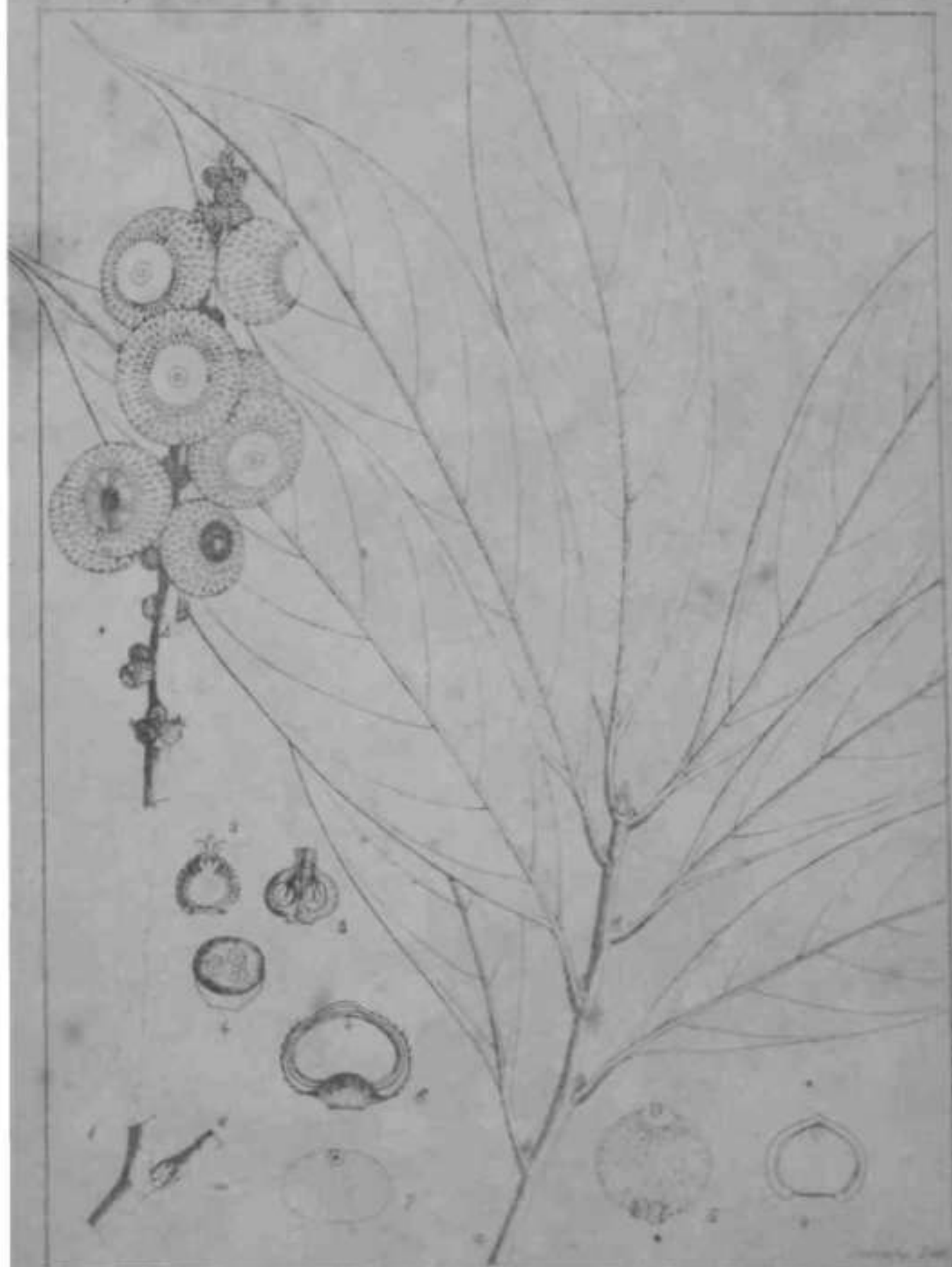


Quercus ferox (Roxb.)

Quercus

Cupulifera

218



Quercus foveolata (Sw.) Tuck. 218



Quercus laevis (Roel.) Pursh

Aschmannia

Cupulifera

221



Quercus turbinata Reel. = Thomson, *Nyct.*
Quercus acuminata Reel. 1874. *Stands*



Pungier del

R. T. SK

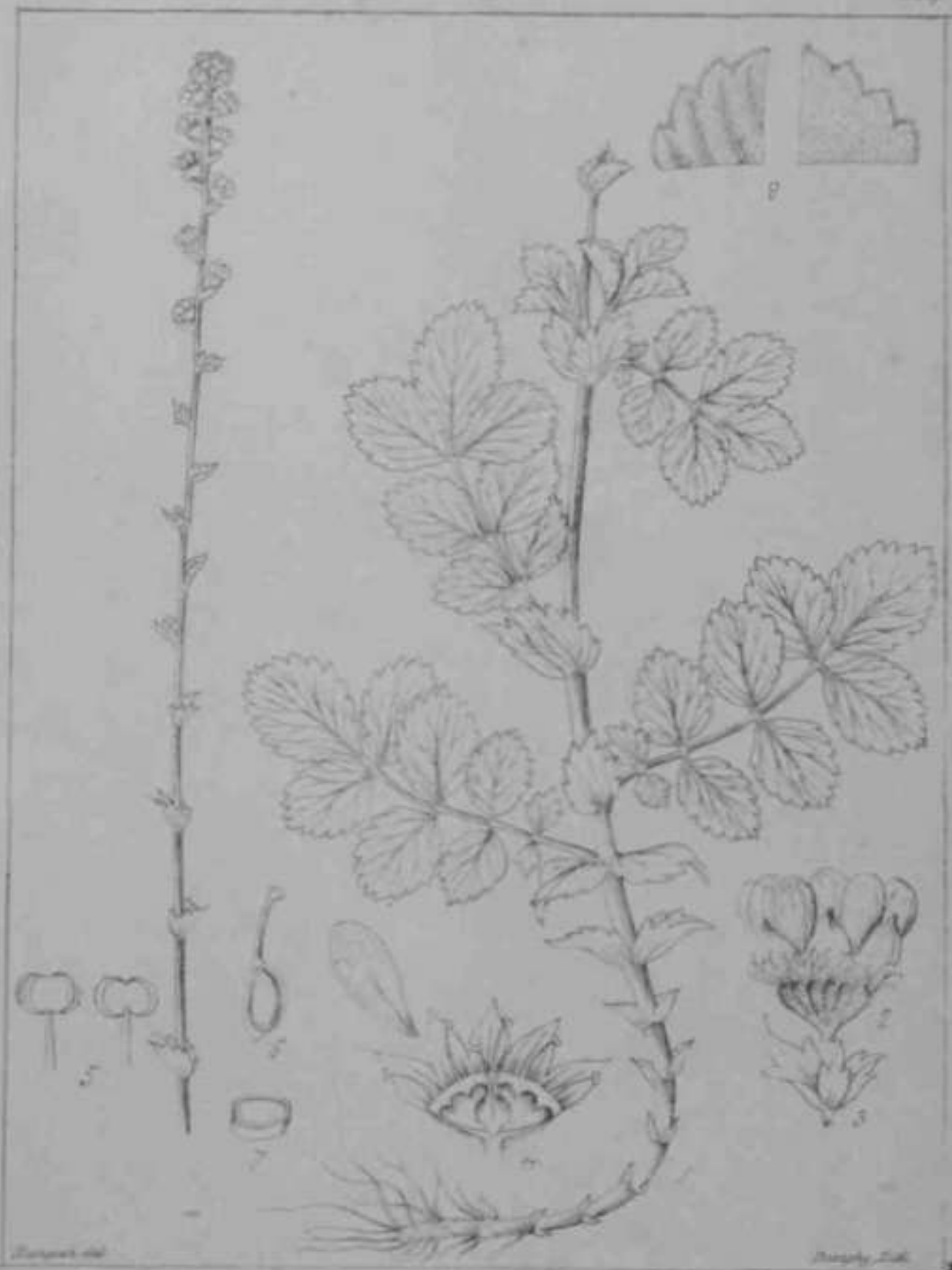
Elatinea Bergia *astrosa* (W & A.)



Pungiah del

A. N. B. K.

Ochna Nepheliana (Hall.)



Bartram del.

Bartram del.

*Apocynum Eupatorium (Linn.)
A. Ceylanica, Koenig*

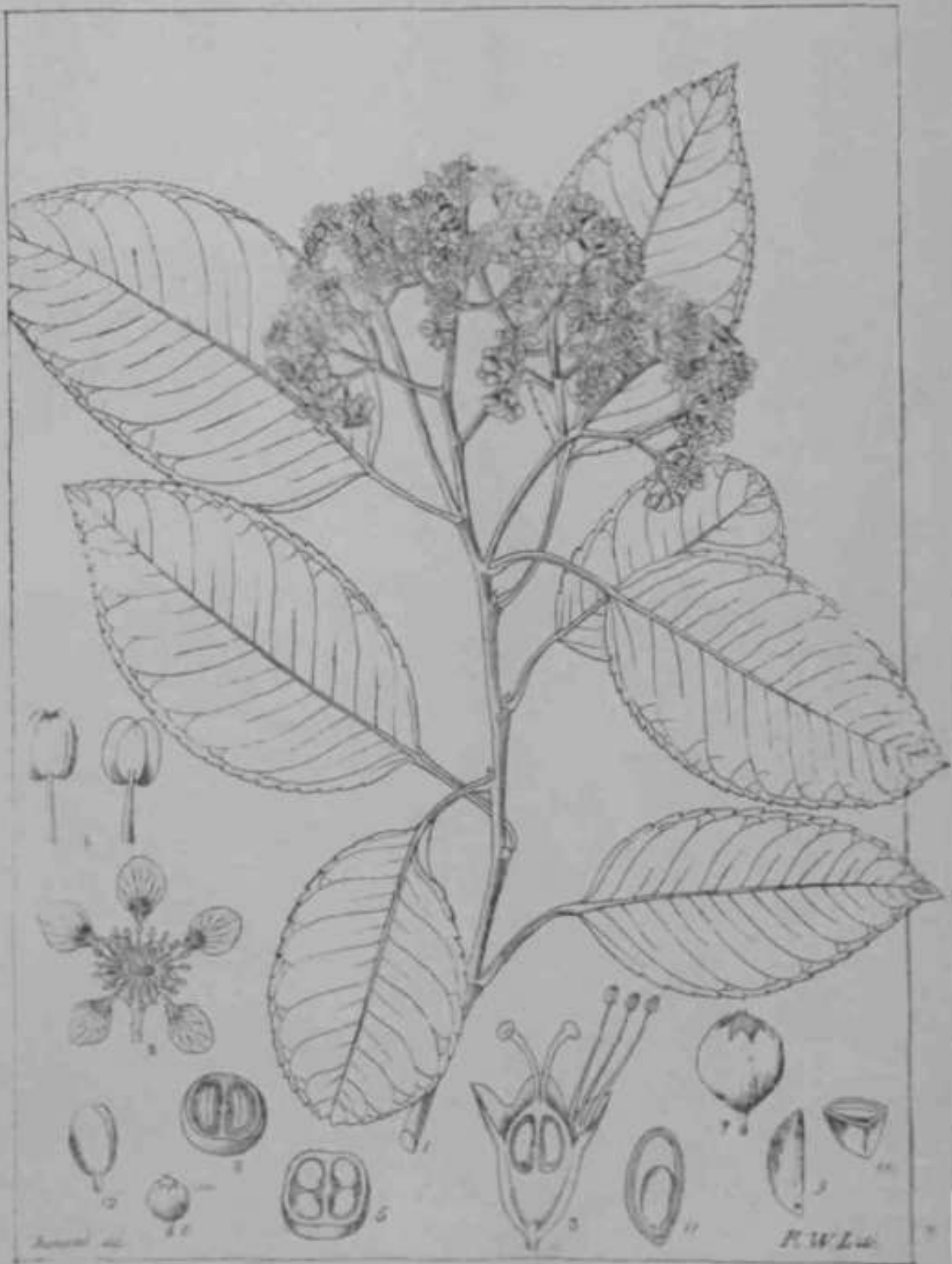


Rubus rugosus (Sm.)



C. glaberrima var. *glaberrima* (L.) DC. Japan and India





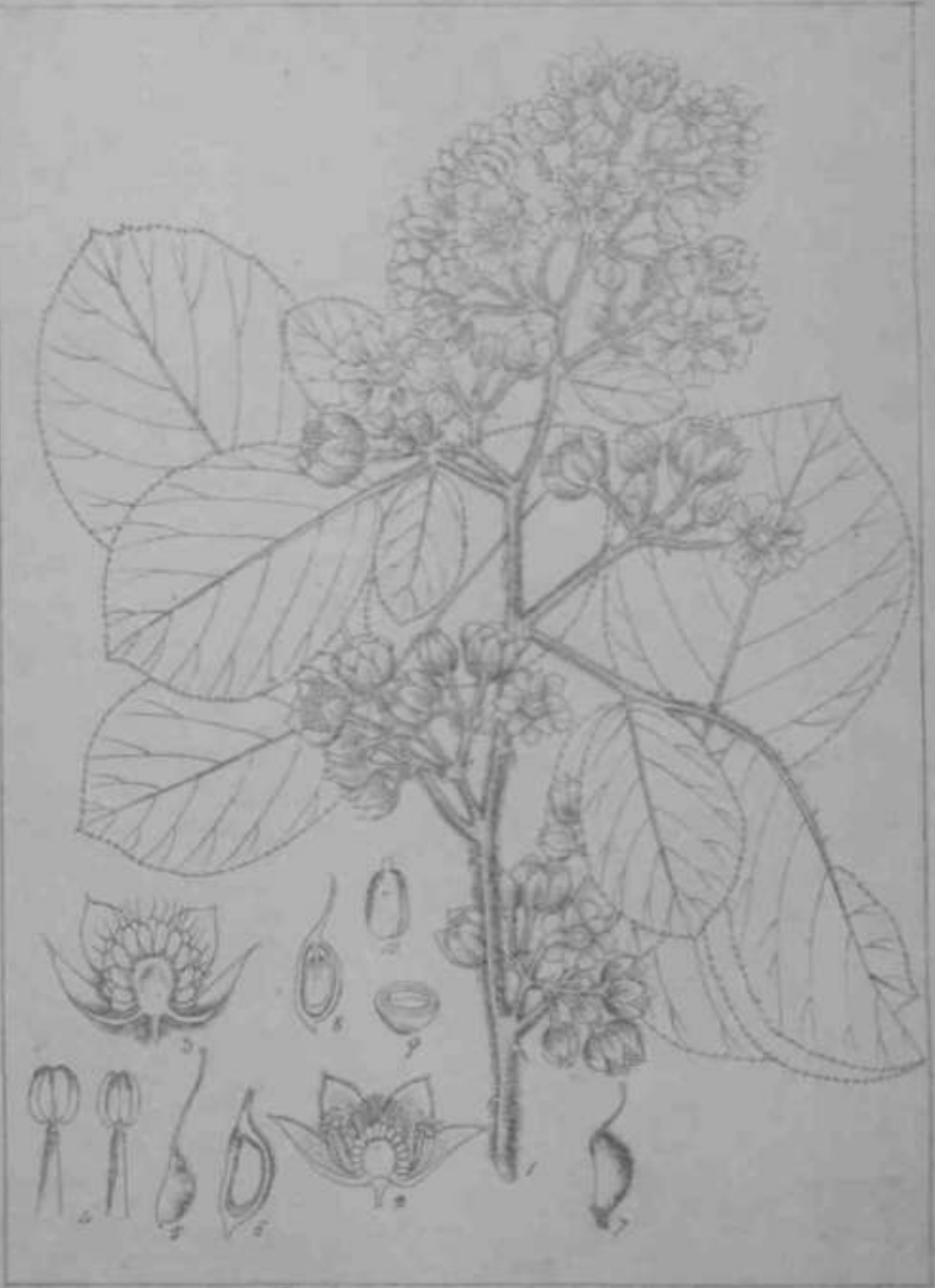
Thalictrum Indleyana H. & A.

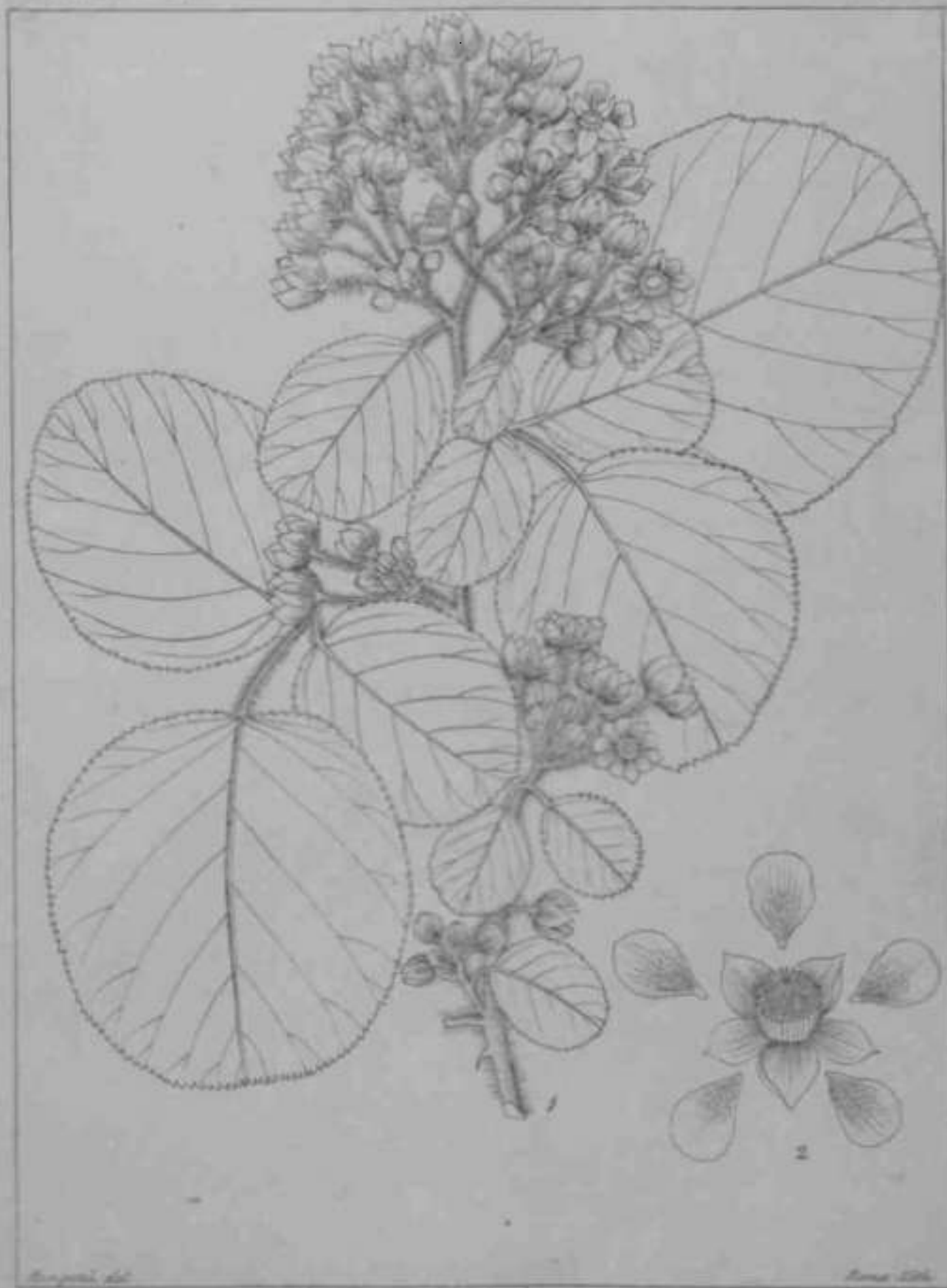


Boiss. et Heldr.

R. H. B. 1846

Alchemilla vulgaris Binn
Al. boylanica Moon





W & A del.

W & A sculpsit.

Rubus Wallichiana (W & A)



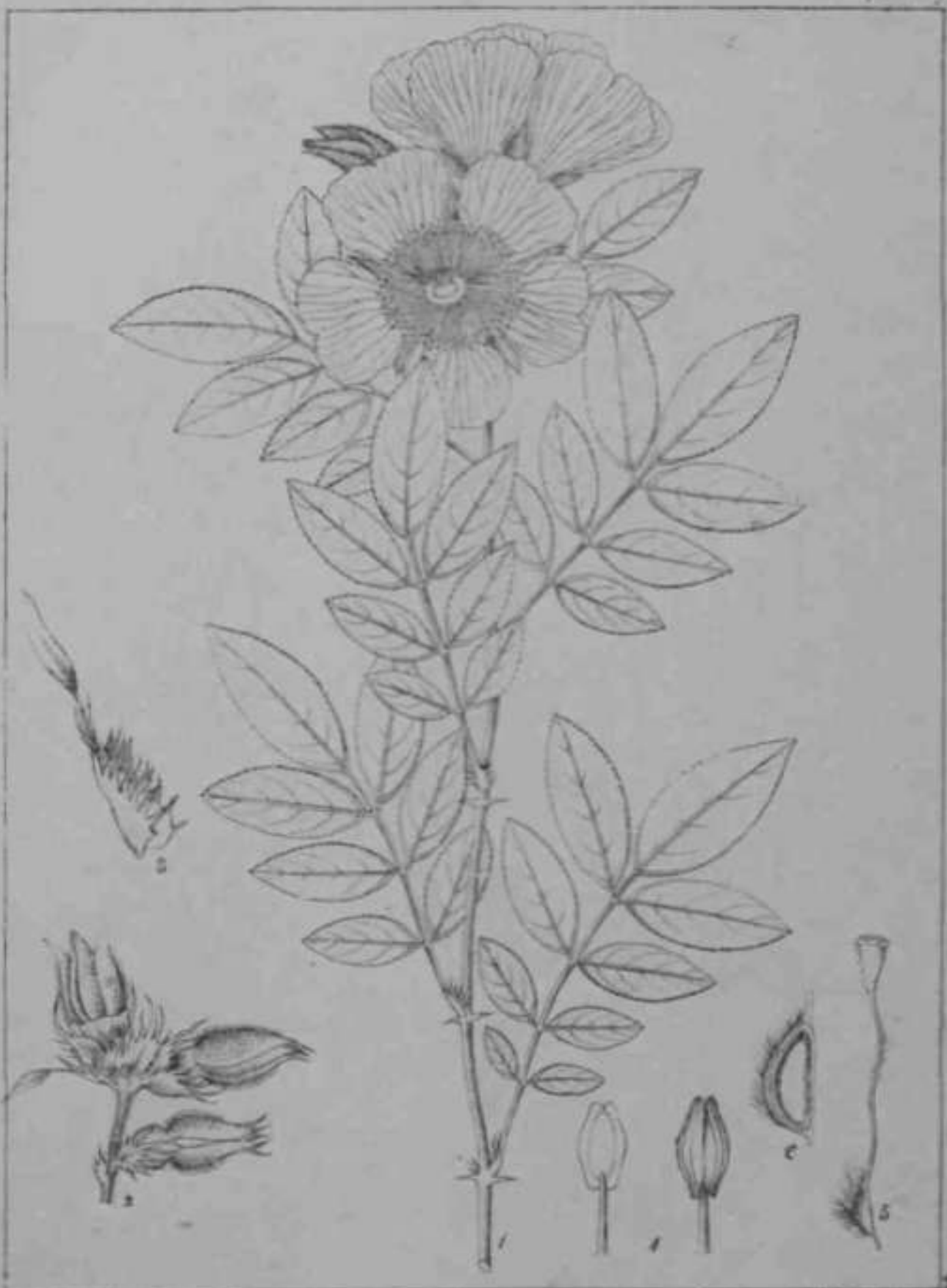


Serratula nemorosa (R. H. W.)

Rosa

Rosacea

22m
927x29



Langsdorff del

Rosa involucrata (Roxb.)

C. T. S. K.



L. J. Smith del.

L. J. Smith

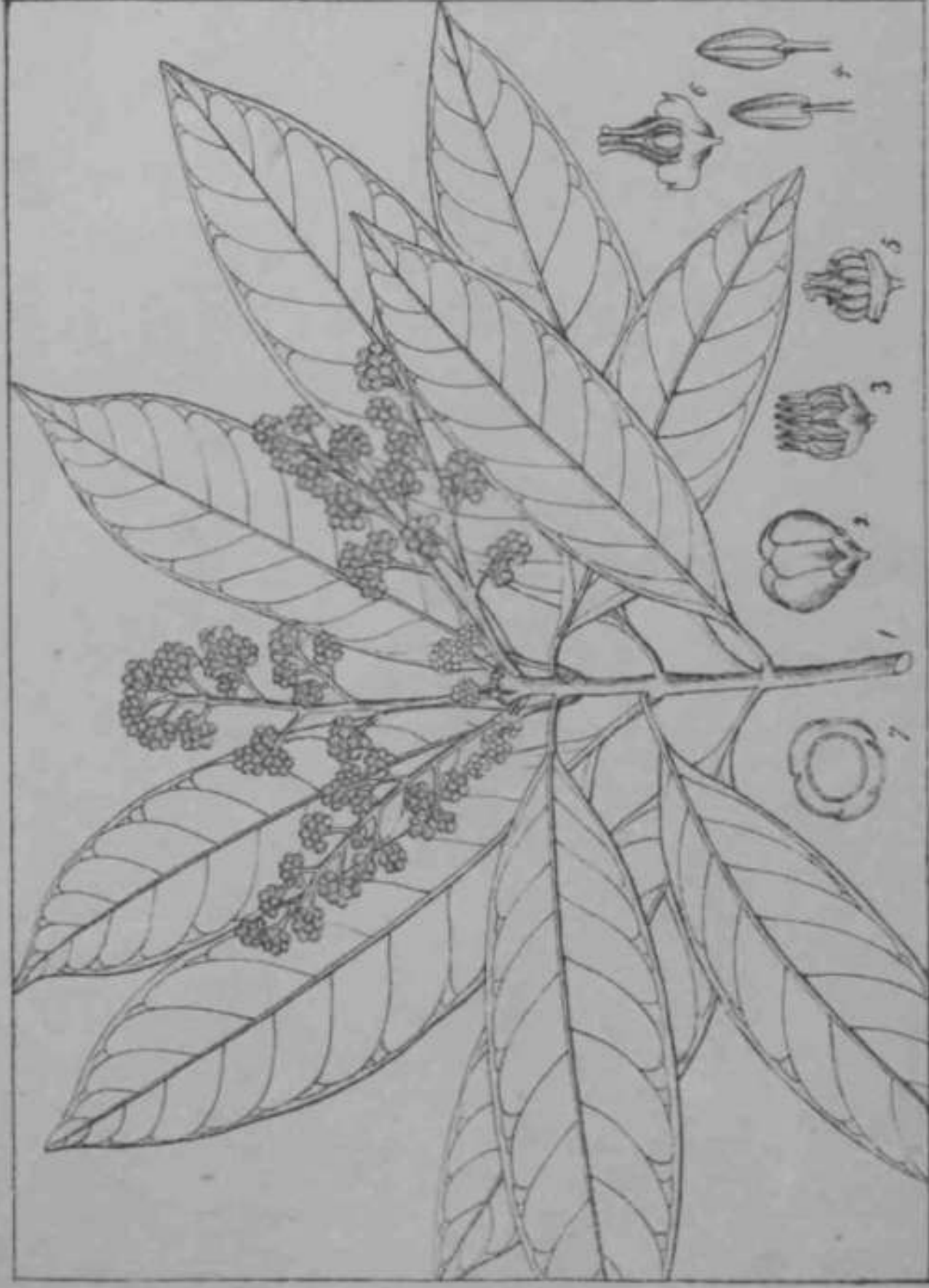
Lemnecarpus Grahamii R. & H.



Pungsh del.

E. W. L. K.

Pegia? Colebrookiana (Pott)



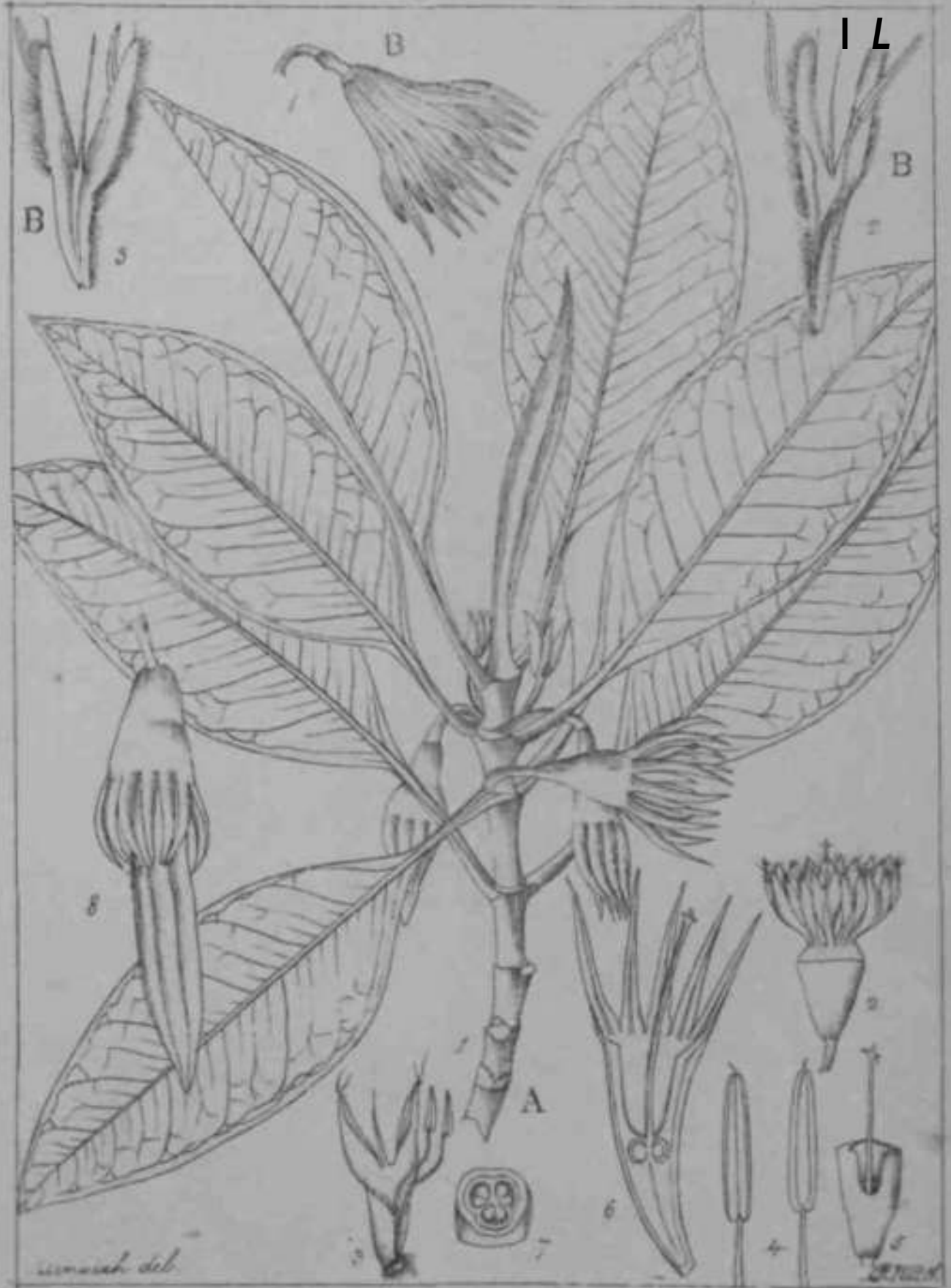
Rhyzophora



A.H. S.M.

Rhyzophora mucronata (Sami)

Rhyzophora del



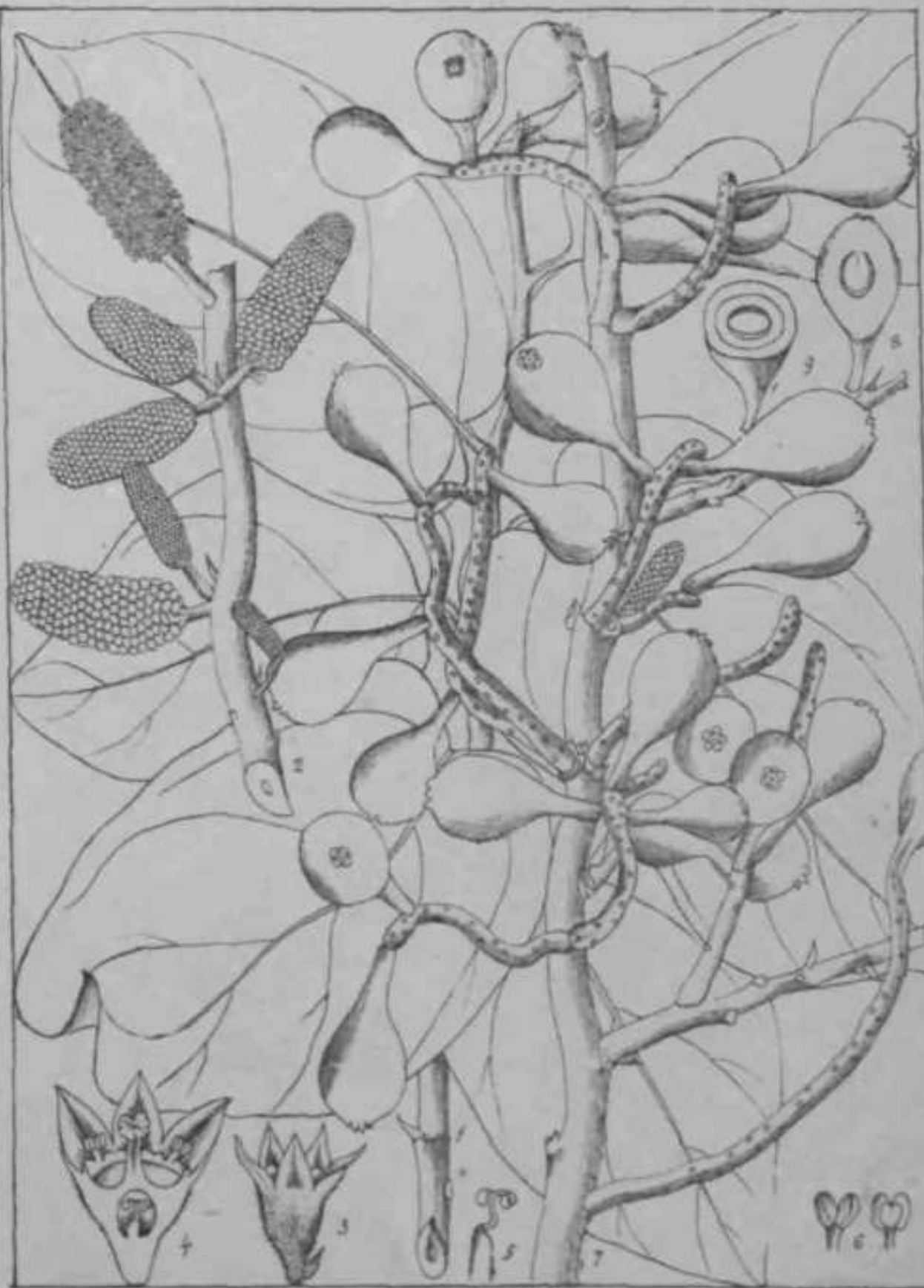
A *Bruguiera* *Rheedii* (Blume) B *B. eriopetala* W & A
B. gymnorhiza W & A non sum



Burgalich

Ceriops Candolleana (Arn.)

Det. S.M.



Barlaam, del.

Scleropyrum Walluchiana (Arn)

Spharocarya Walluchiana (W & A)

W. & A. del.
P. & G. sculp.

Roxburghiana.



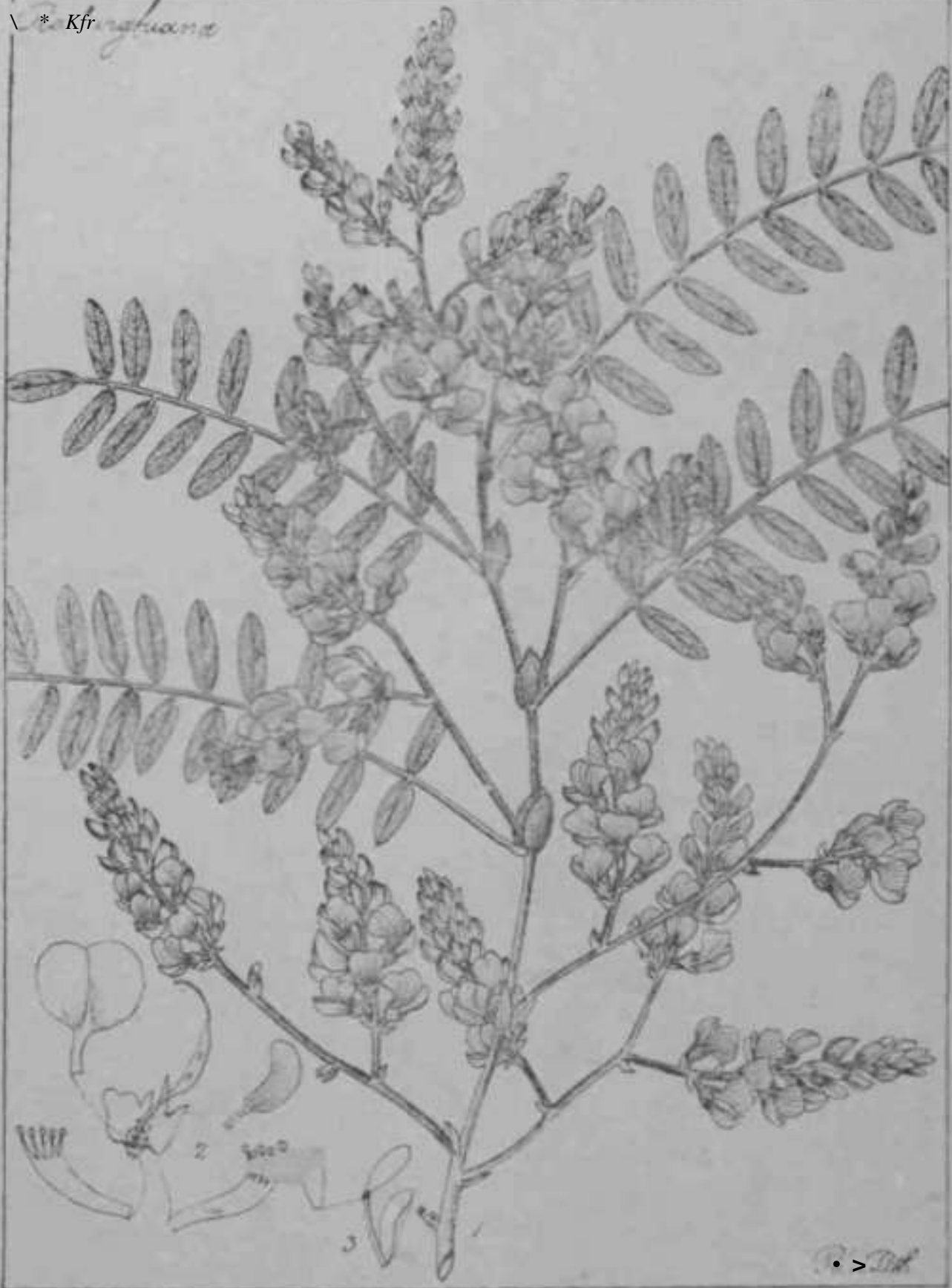
Dalbergia tamarindifolia (Roxb.)

Del. C. A. Q. & M. C.

Leguminosa

200

* Kfr
Roburhans



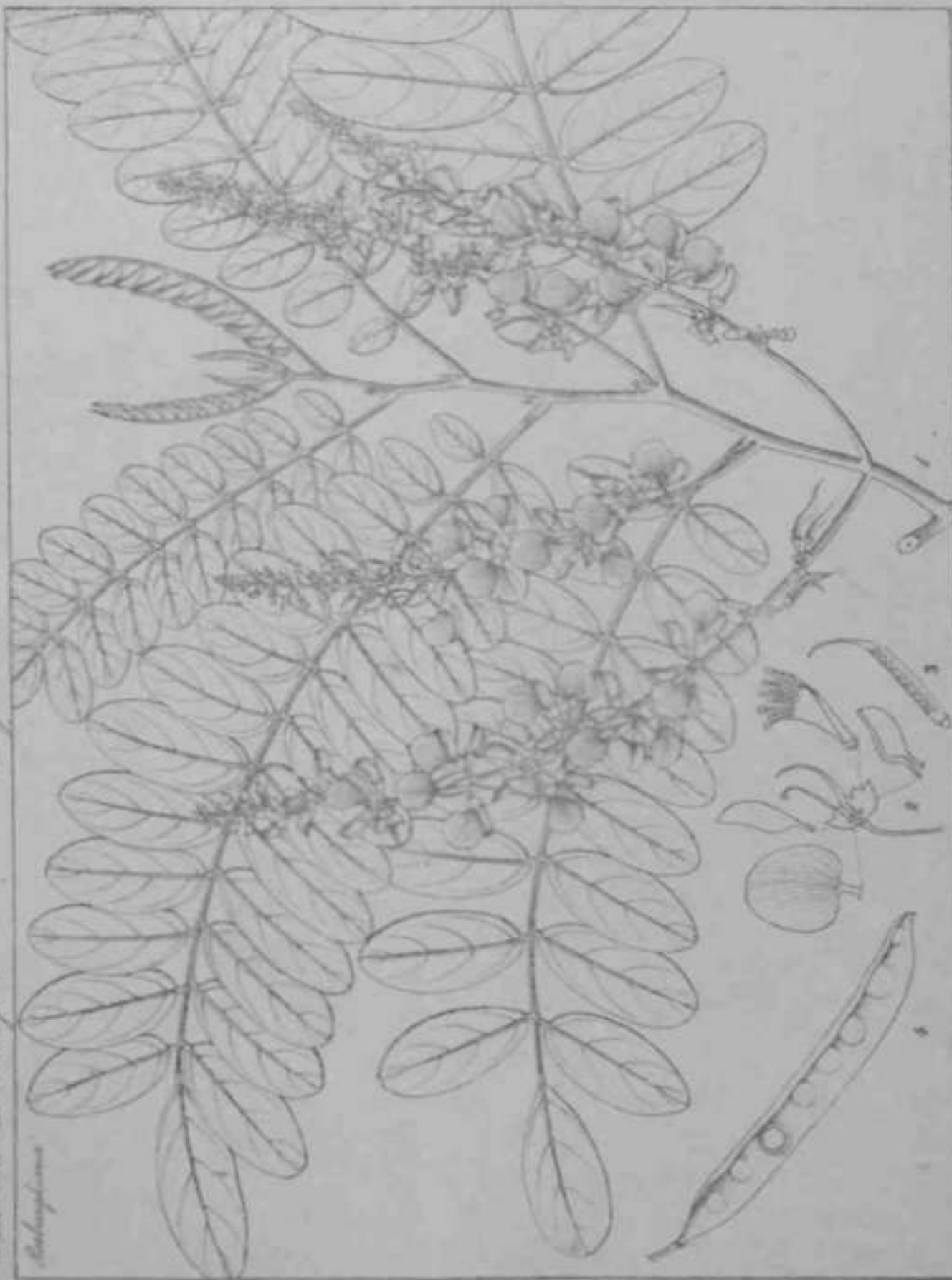
• >

Dalbergia hupula **h** (R. r/r)

Leguminosae

Sub. gen. Bullerquae

Bullerquae



Bullerquae robusta (Roxb.)

Siphocia

lymniscata

215



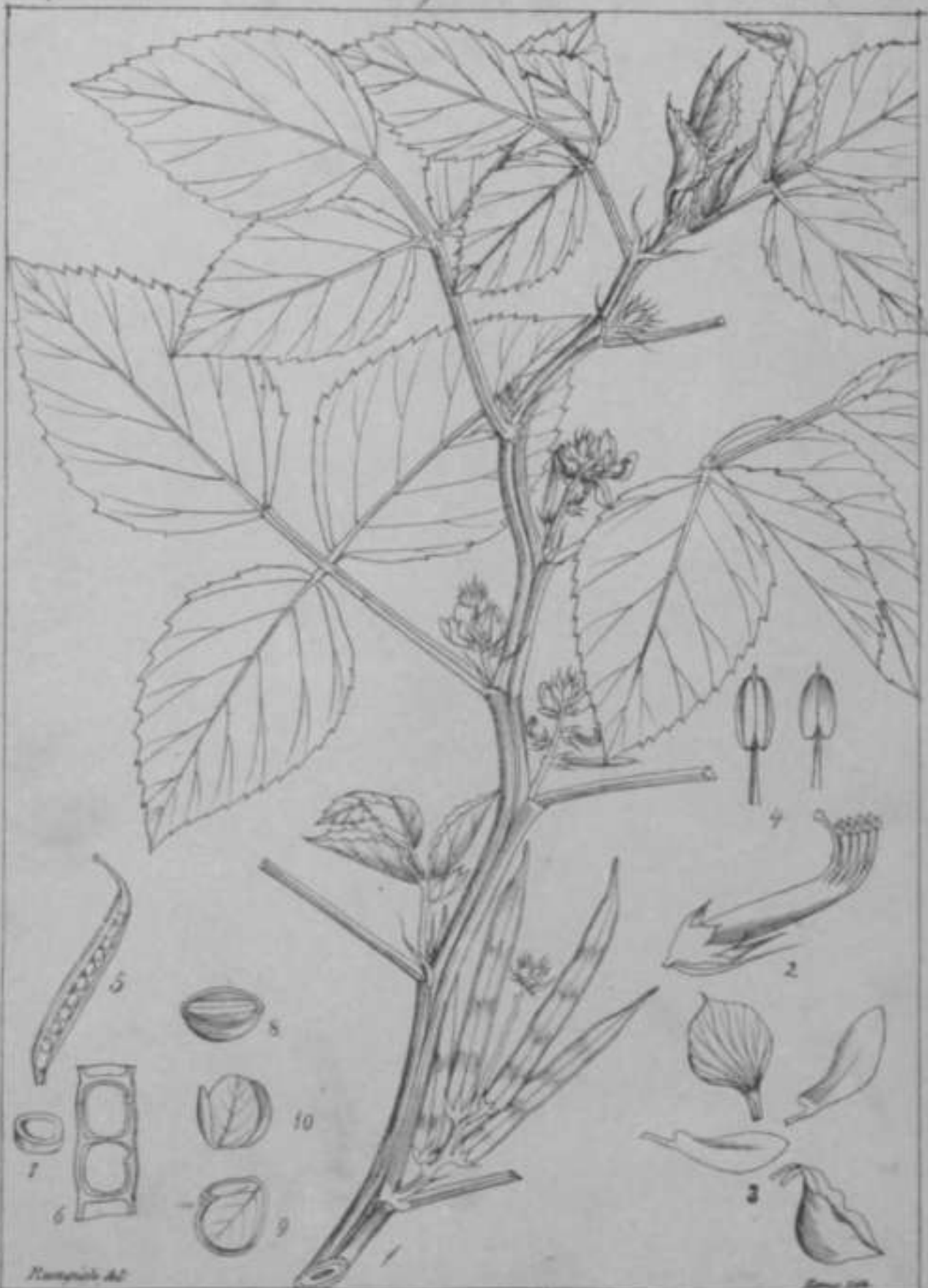
Siphocia lymniscata / Rose



Strobilium dalbergioides (Prest)



Erythrina ovalifolia (Roxb.)



Cytamopsis psoraloides (DC)

Rapilionacea

Leguminosa

Phaseol

$\frac{260}{52}$



Rangiah. det.

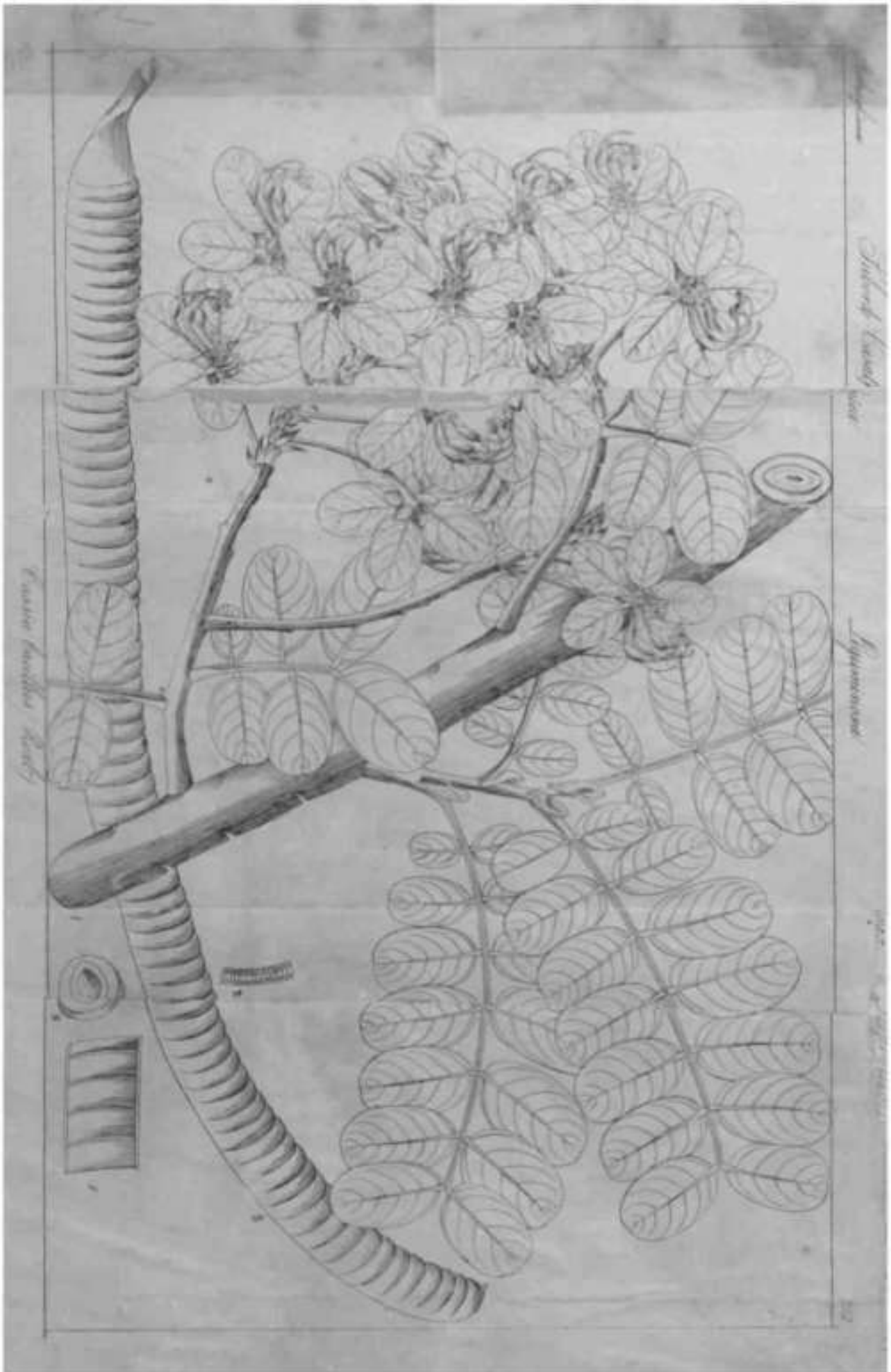
Ph. ?Moiud psoralicoides W & A



Alysicarpus pubescens (Lam.) Mas.



Alysicarpus longifolius (H. & A.)



Strobilium

1857

Fig. 1

Strobilium

Fig. 2

1857

J
Cuboni. Casalpini. Leguminosae.

Fig. 18.



Cassia alata (Sinn)

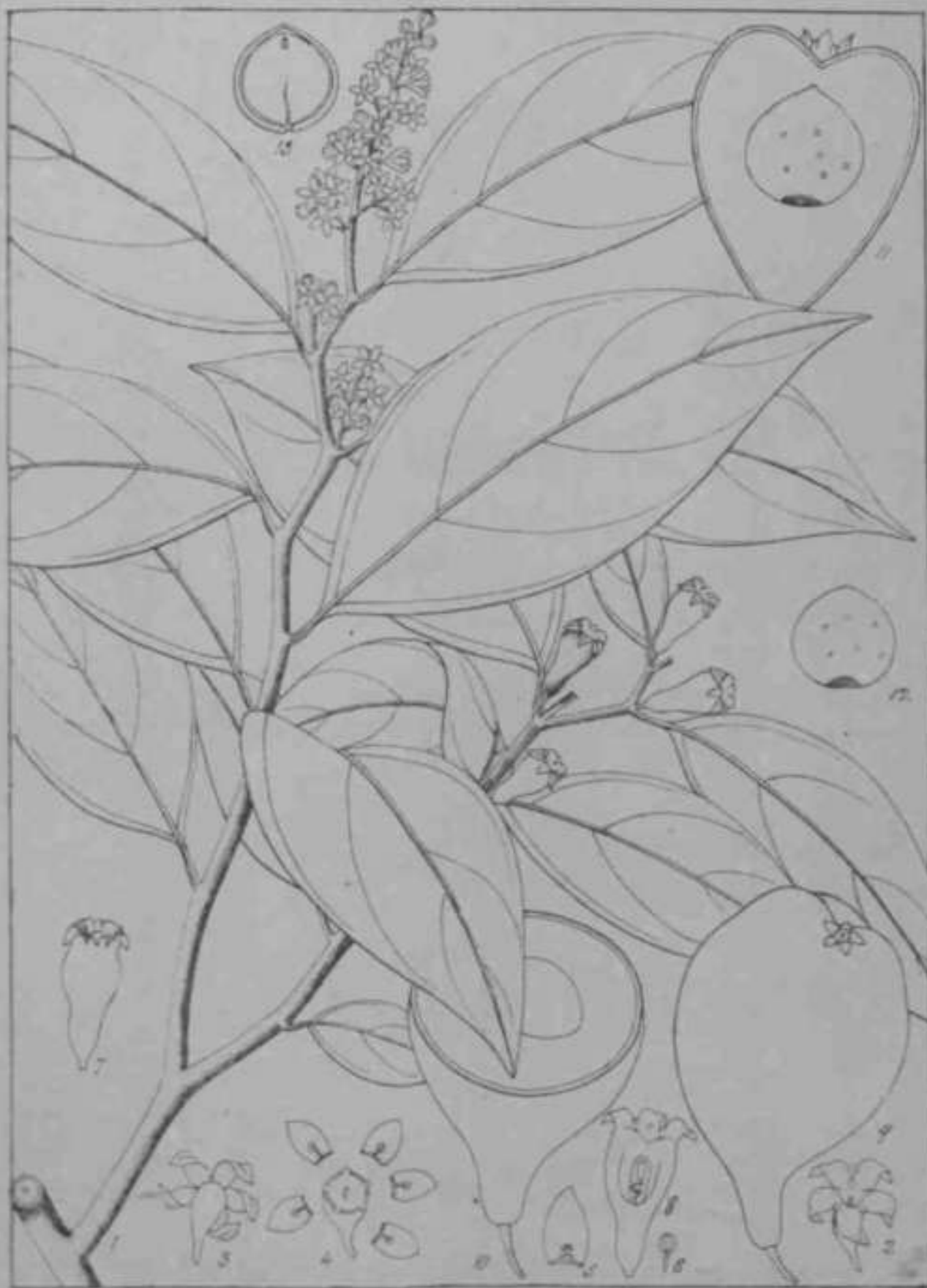
Casulpinosa

Lapumiosa

Cassia 252



Acrocarpus fraxinifolius, Arn

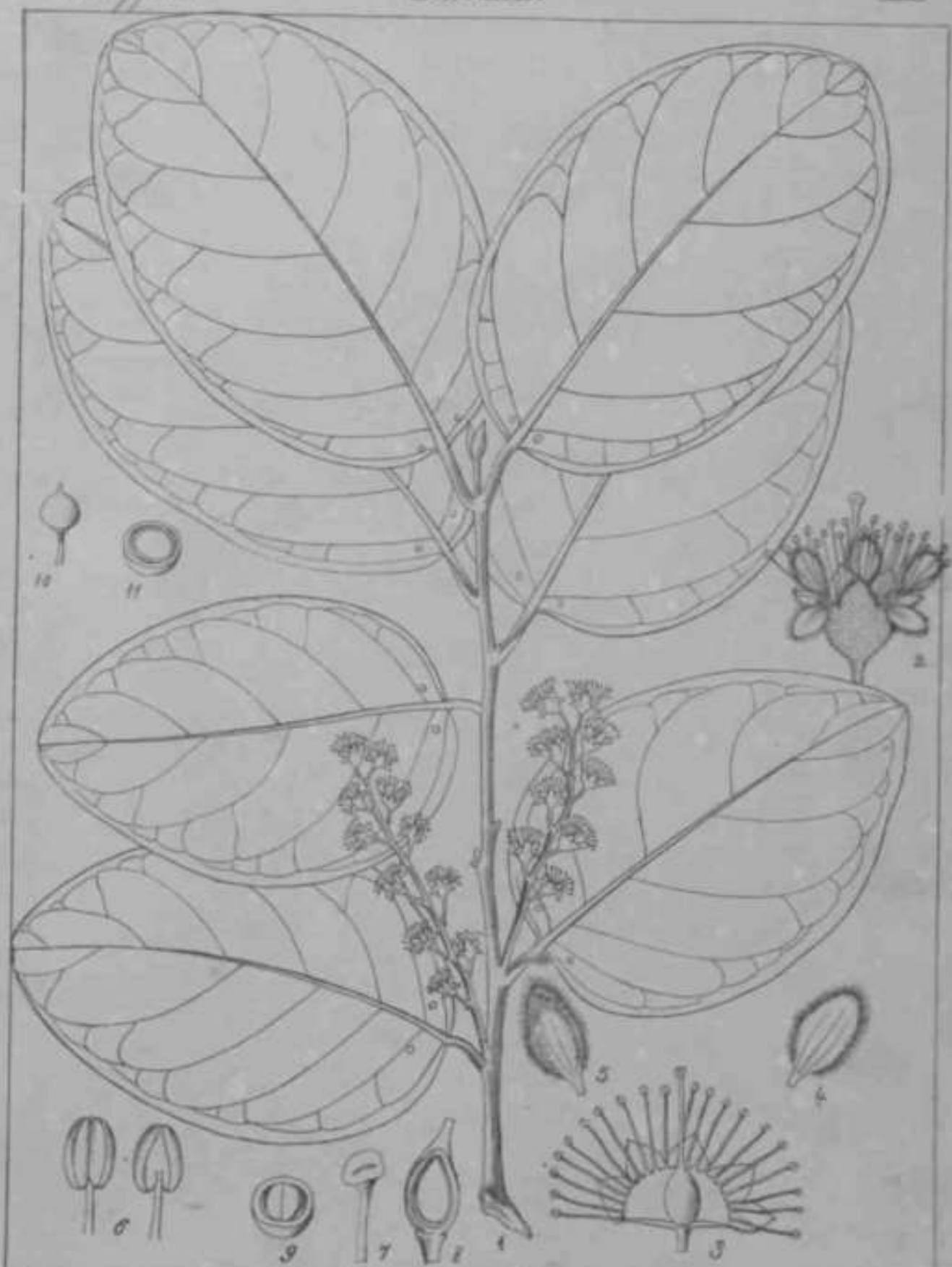


Apharocarya edulis (Nall)

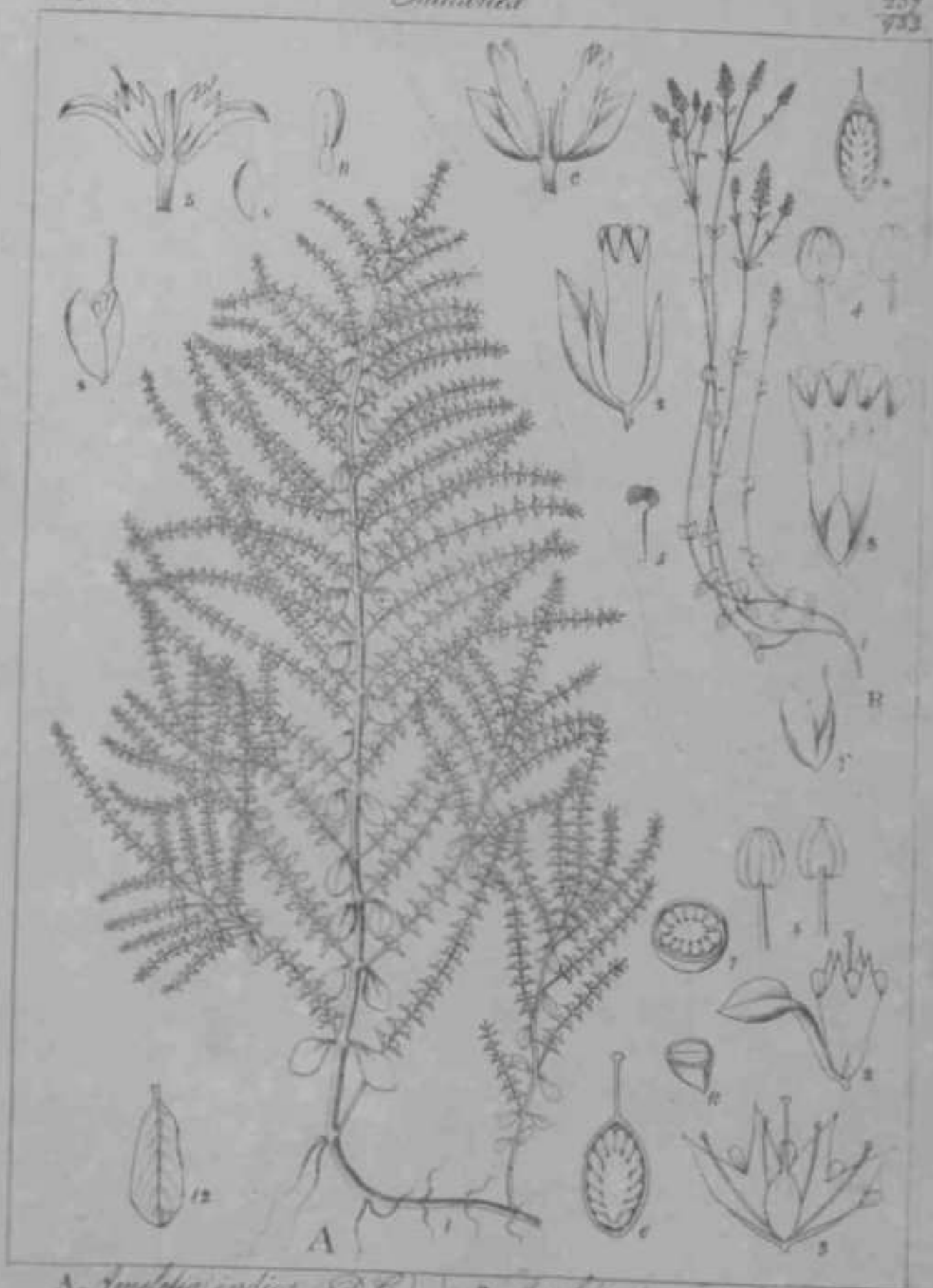
Amigdalae

Rosaceae

256

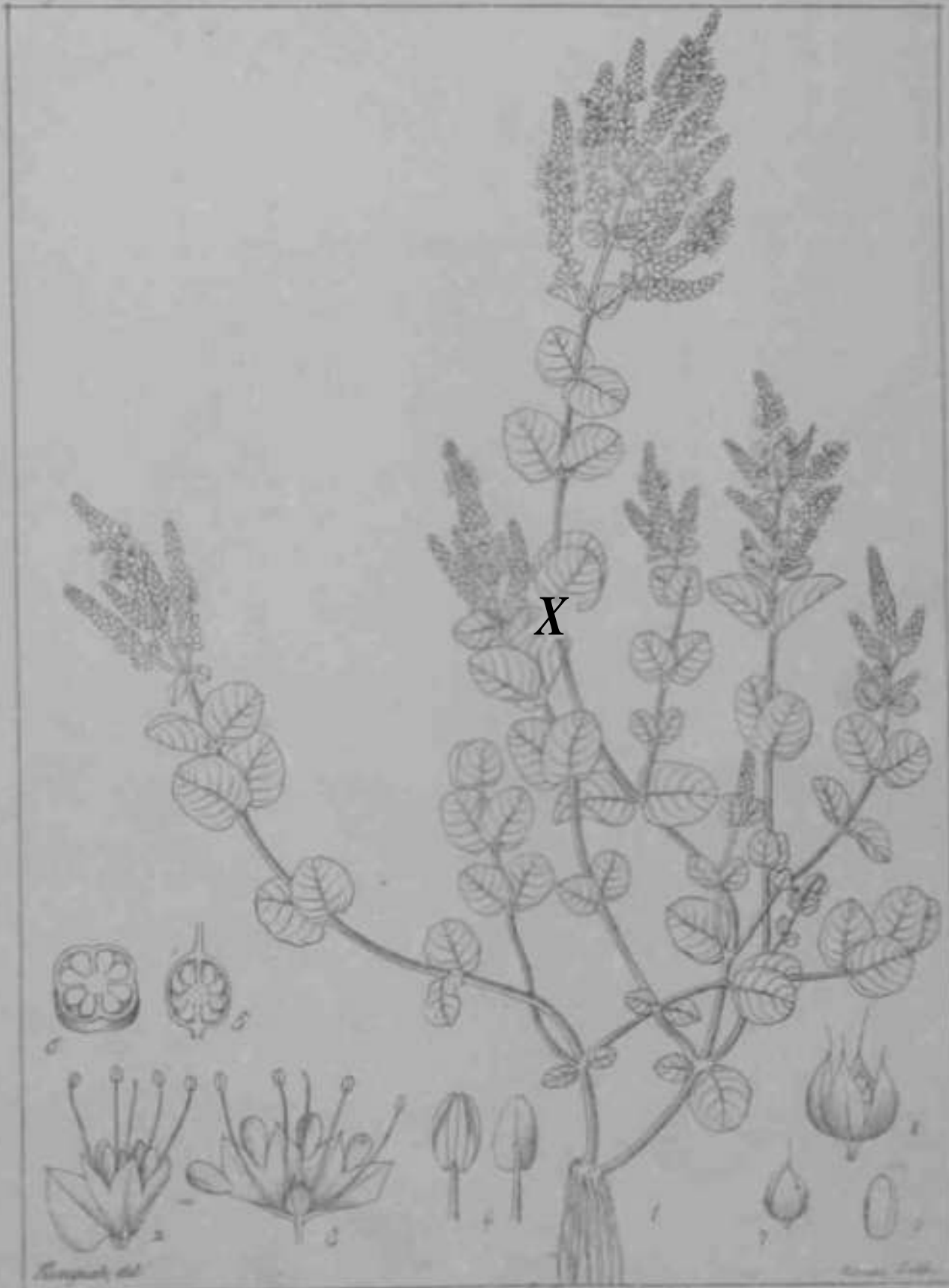


Polyodontia? Ceylanica (R. W.)

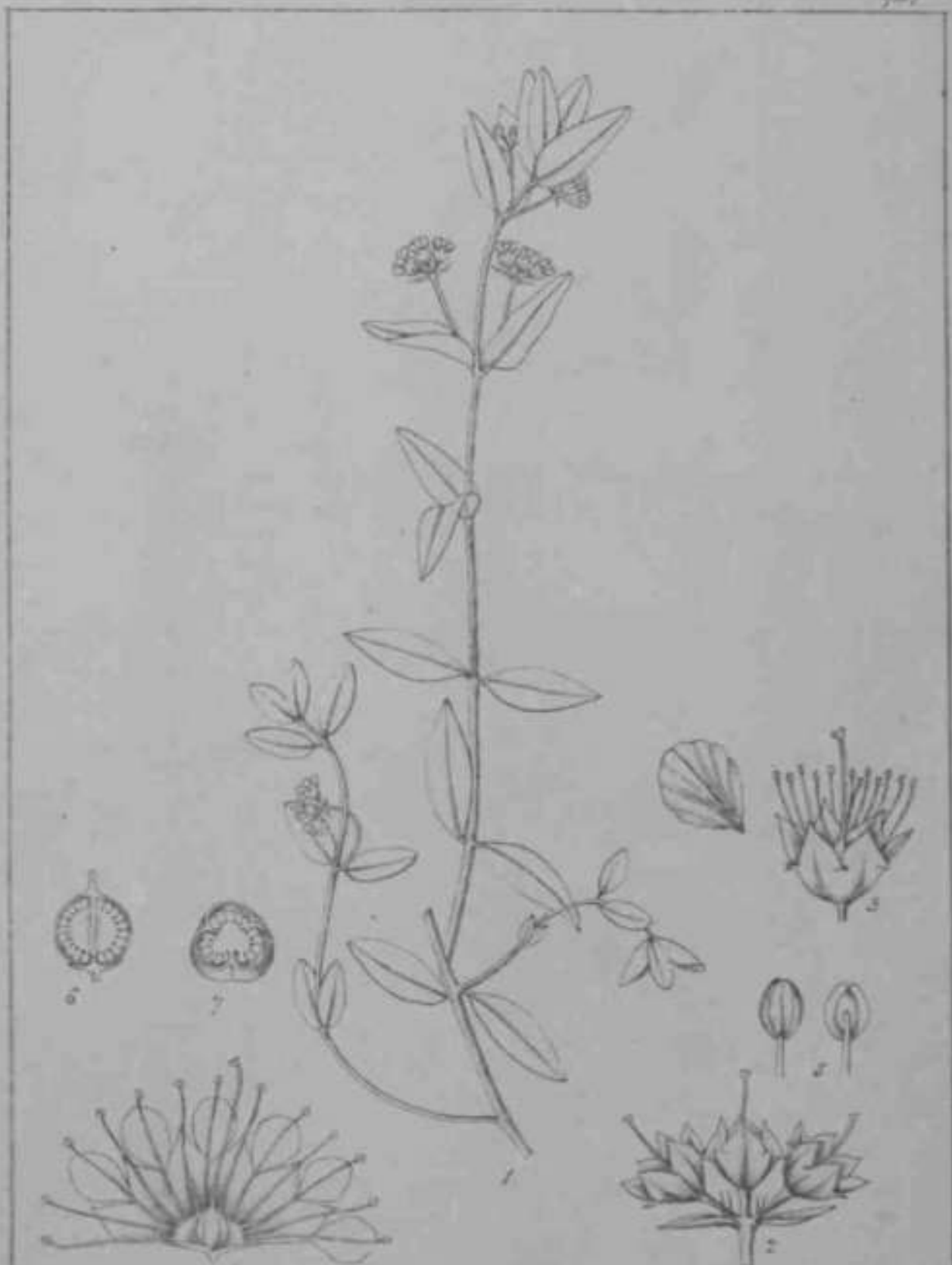


A. *Amelchia cordata* (D.C.)

B. *Amelchia tenuis* (R. W.)



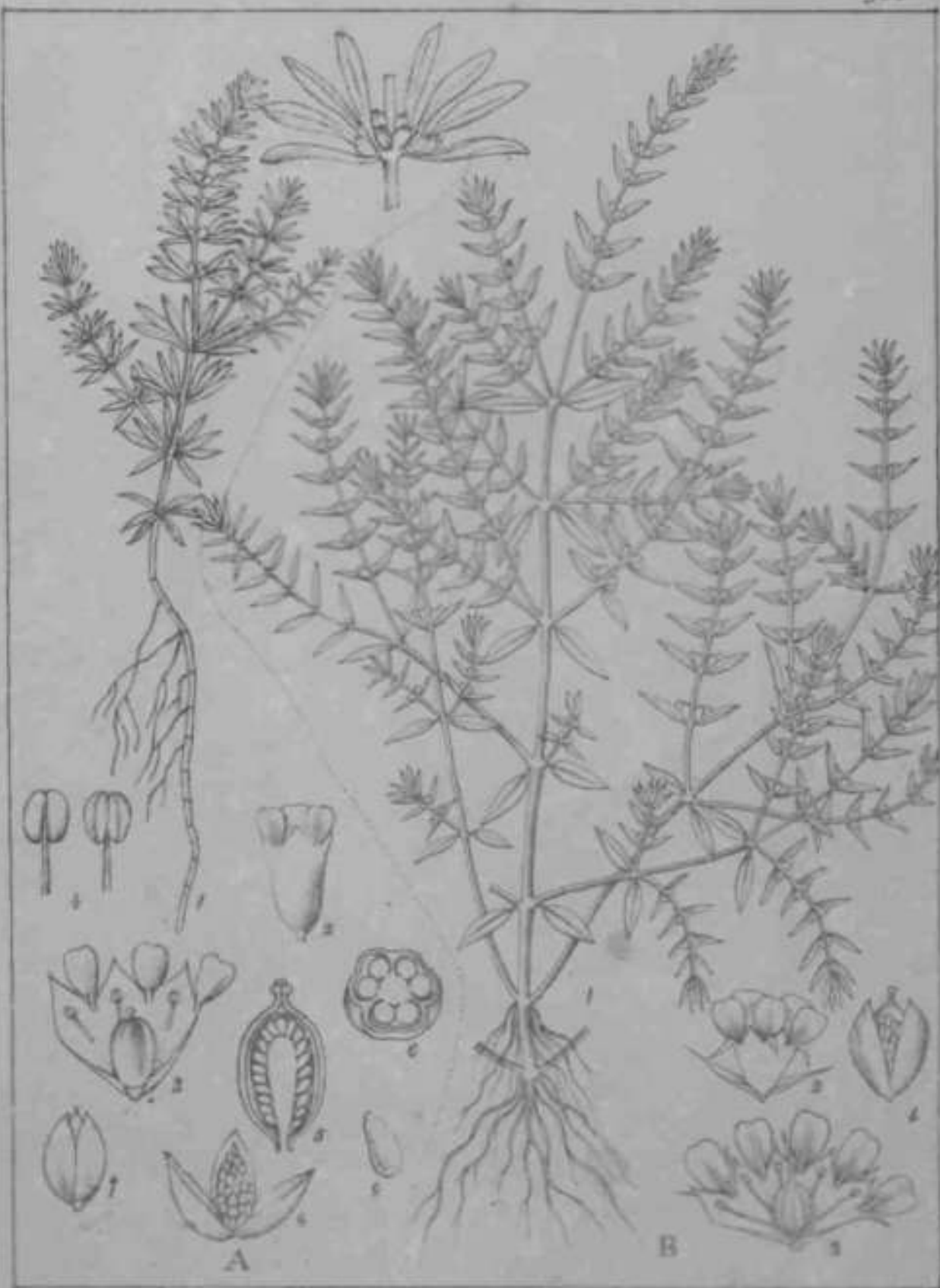
Amelanchier canadensis (R. W.)
Sambucus racemosa L.



Pennock del.

C. F. B. K.

Sesaa triflora (Kuntze)



A *Salicaria verticillaris* (Linn.) B *Salicaria Rothburghiana* (R. W.)
Ammannia pentandra (Roxb.)

reticulata



Dalbergia reticulata (Rac.)

Dalbergia



Dalbergia rimosa (Roxb.)

pfaMW* ~r/4**~

Casalpinea

Leguminosa

Cajica

163

Rozburghiana



Bauhinia semibifida (Roxb.)

Casalpinea

Leguminosae

Casica

254



Bauhinia

Bauhinia scandens (Roxb.)

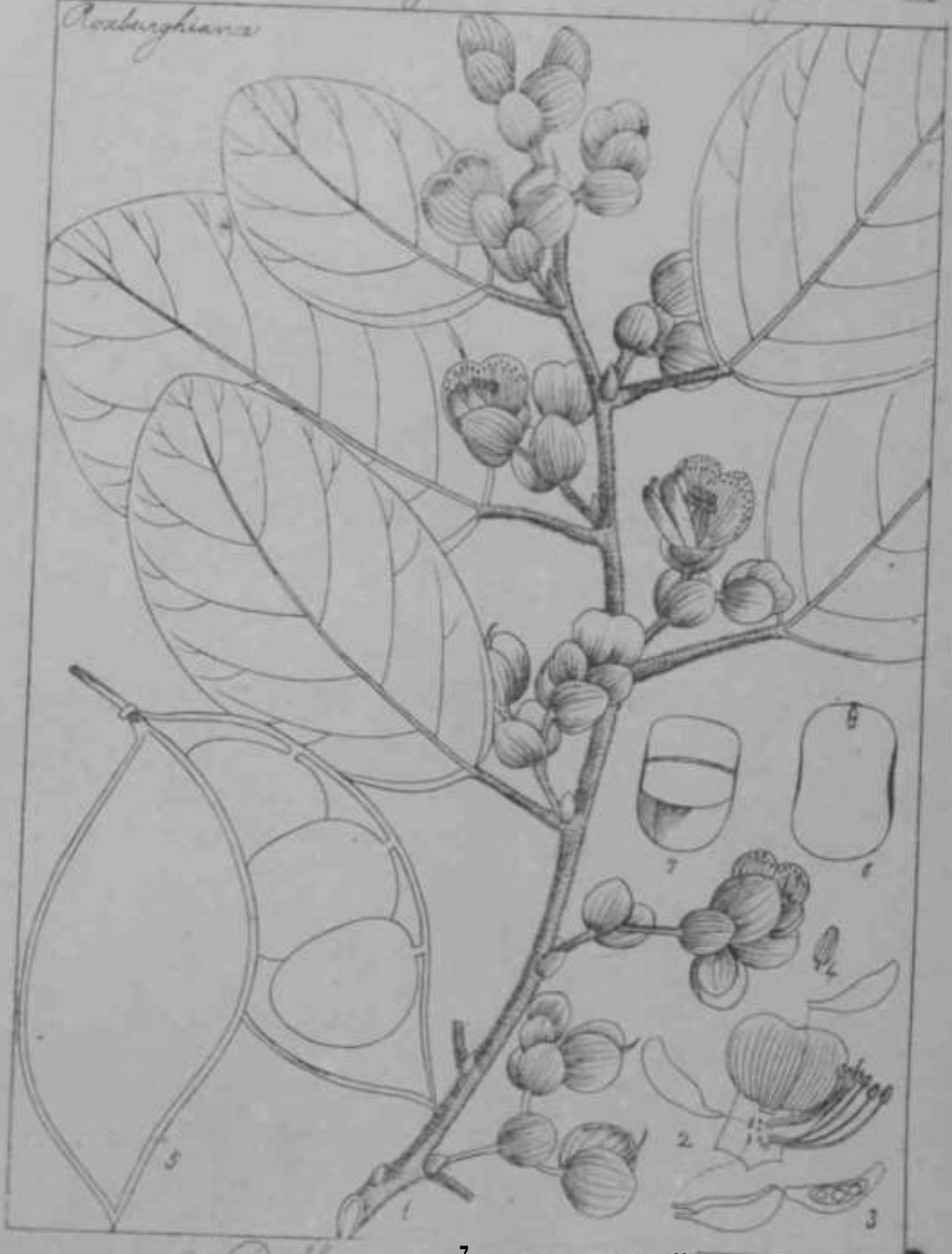
Papilionacea

Leguminosae

Entolysia

252

Rostrata



Dalhousiea bractata (Kral)
Podalyria bractata (Roxb)

Papilionacea

Leguminosae

Dalbergia

55
320

Acrocytharia



Dalbergia frondosa (Roxb.)

Papilionacea

Leguminosae Phasoleae 712

Hedysarum



Flemingia strobilifera Desour.
Hedysarum strobilifera (Poech.)

Psittacaceae
Castanea

Leguminosae

Phaseolae

261



Flemingia bracteata
Antyrsarum bracteatum (Retz)



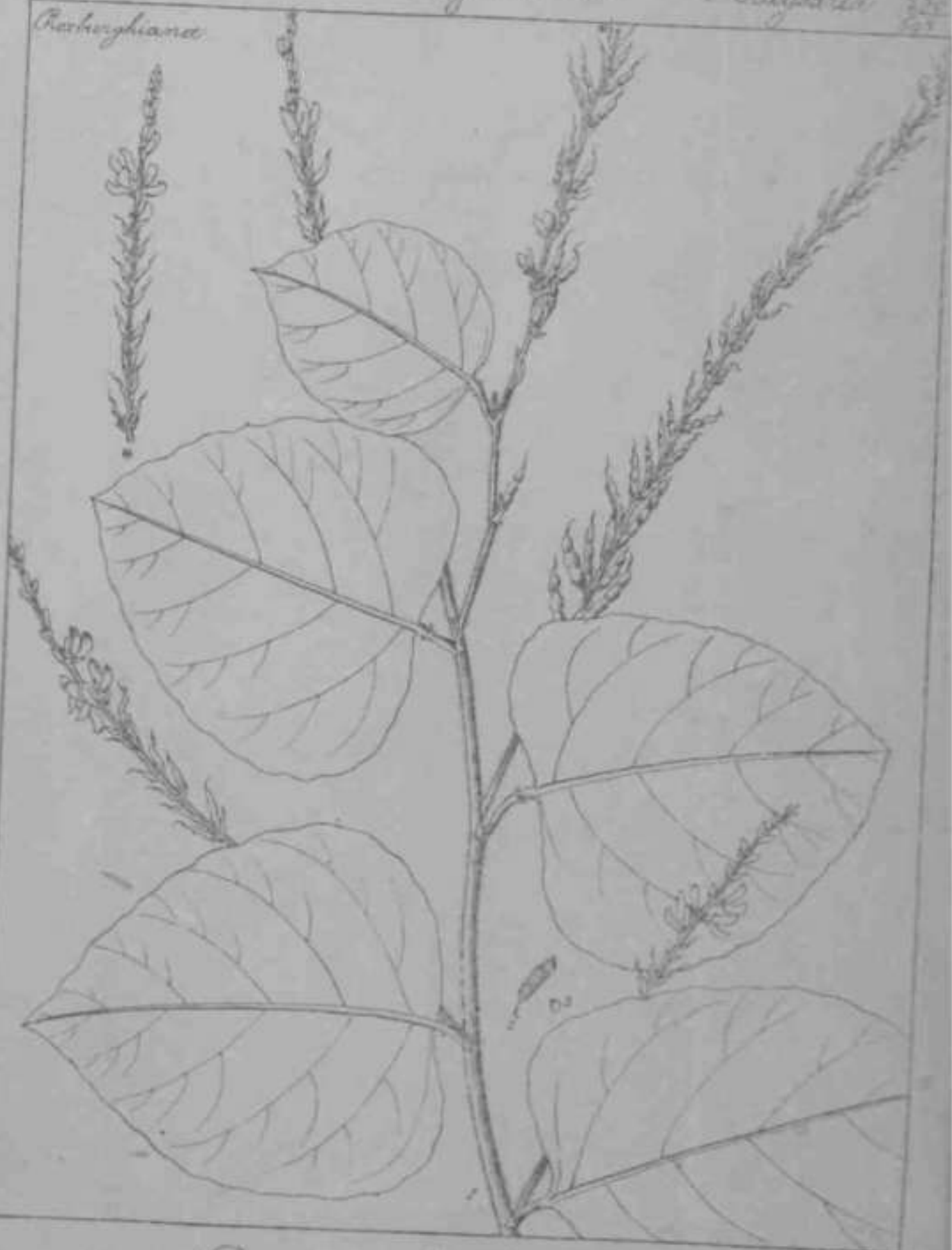
Cuscuta thymifolia (Roth)

Capilionata

Leguminosa

Podysaria

Resburghiana



Desmodium latifolium (D.C.)
Hedysarum latifolium (Roxb.)

Papilionacea

Leguminosae

Kedysiaceae

271
297

Andropogon



Desmodium gangeticum (D. C.)
Kedysium gangeticum (Poeb.)

Phascolia

Leguminosa

Hedysarum

272
649



Dipodomys latifolium
Hedysarum allenium (Reel)



Cratichneumon craticulata (Roth)



Amoyak del

Balanites aegyptiaca. (D. C.)



'1

Брахиптерум } Сем.
 Далбергия

Brachypterum scandens (Bonpl.)
Dalbergia scandens (Roxb.)

Mimicyclon

226
304 + 23



Kunze del.

Mimicyclon angustifolium. (R. W.)

Nemecyclus

177
1874

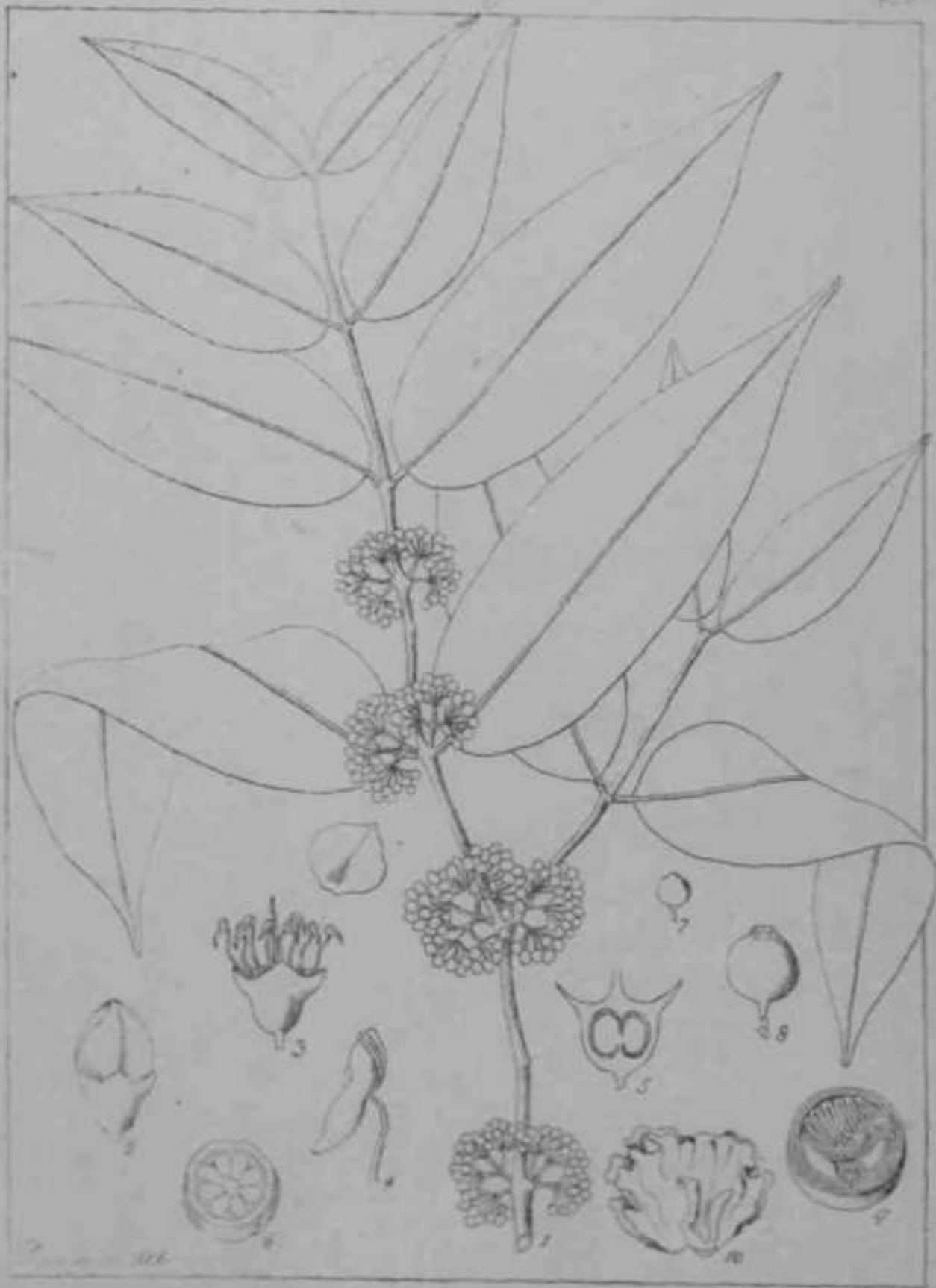


Young

Nemecyclus sambosicoides (R. W.)

Memecyca

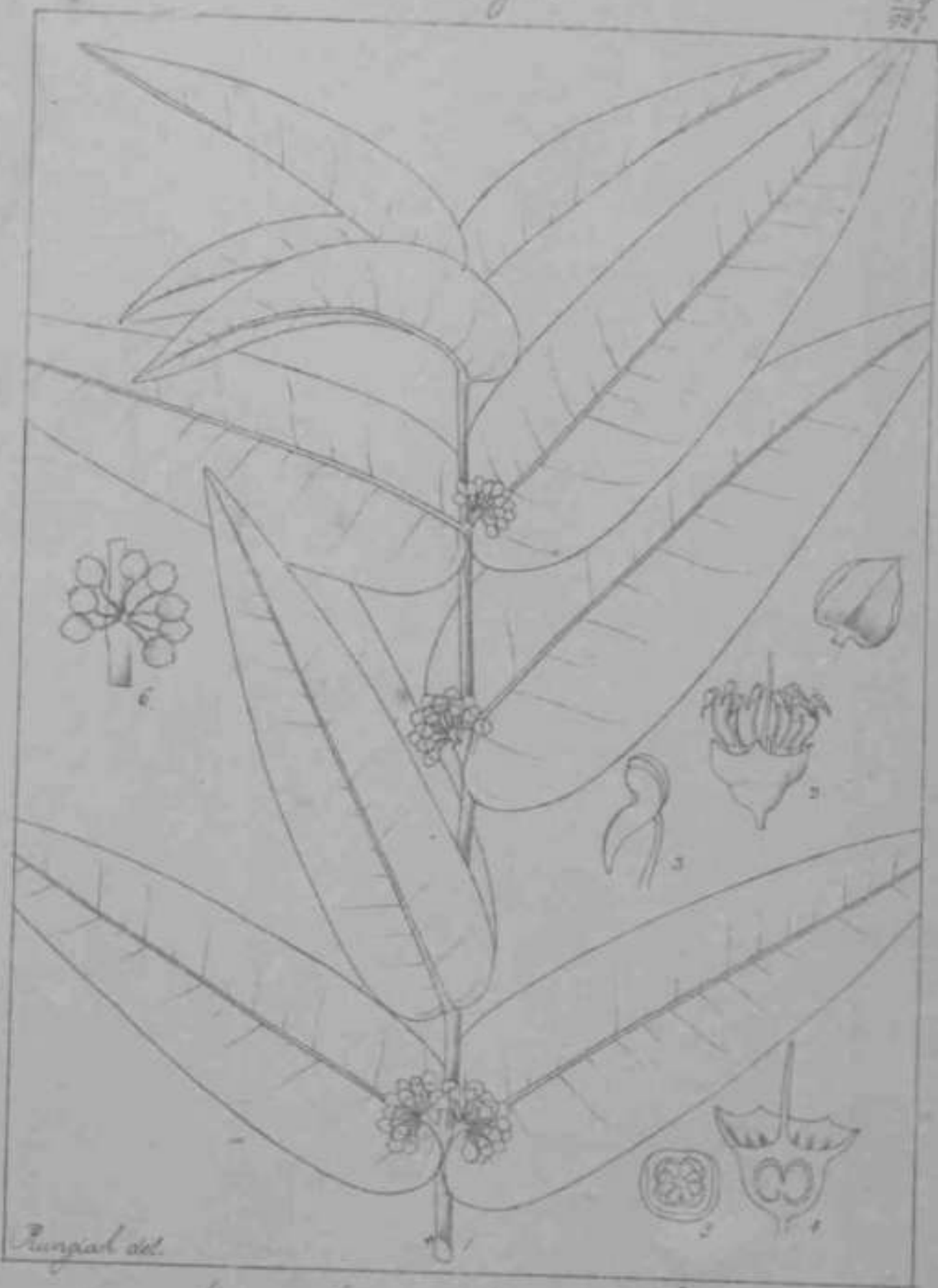
177



Memecylon Heyneanum >WQ: (Benth.)

Aemicylia

117



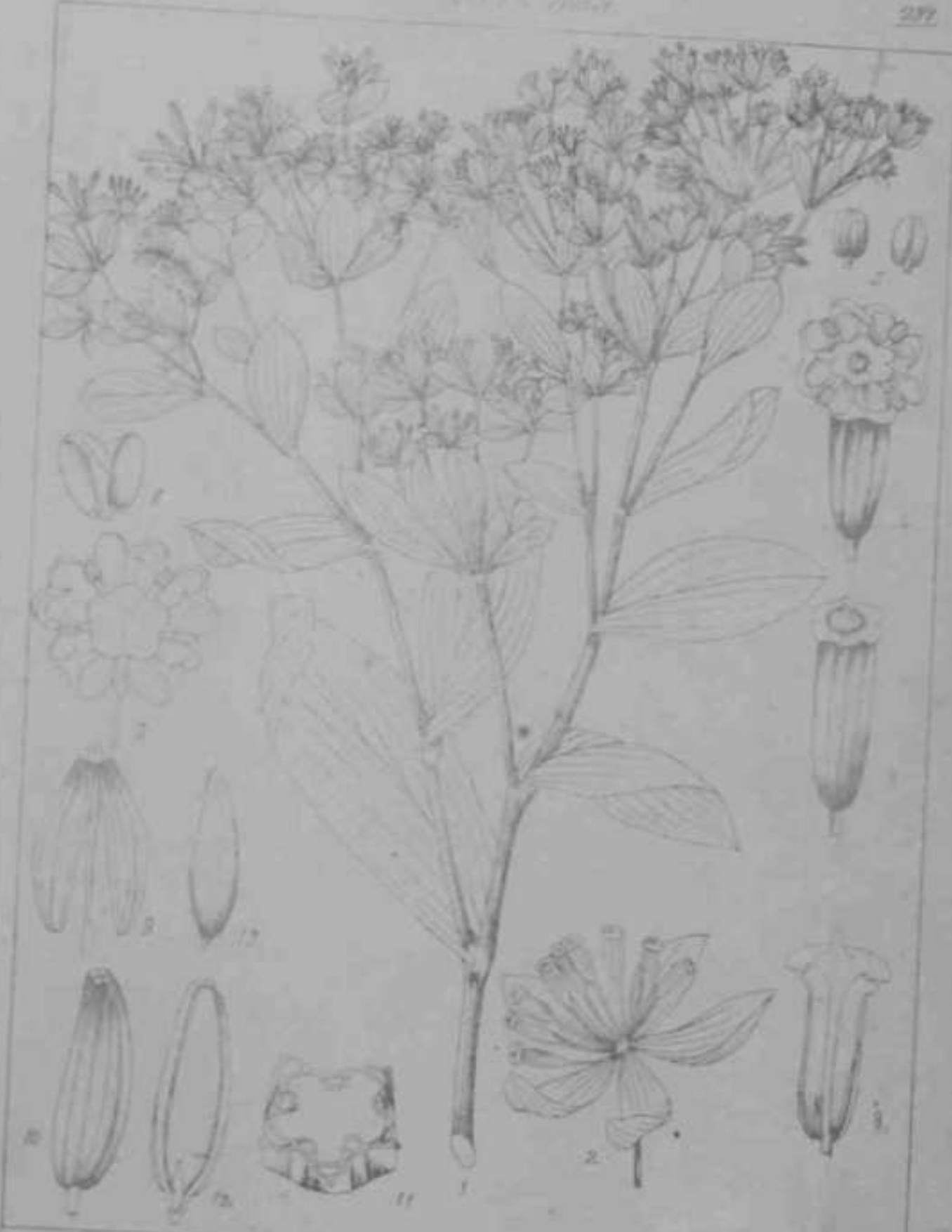
Rungtad del.

Aemicylon amplexicaule (Roxb.)

Hesperis matronalis Mill.
Hesperis matronalis



Hesperis matronalis Mill.
Hesperis matronalis



H. B. Adams del.

Dupleurum plank '4**Uf *lum* (R.W.)

London 1844
Ed. 2000

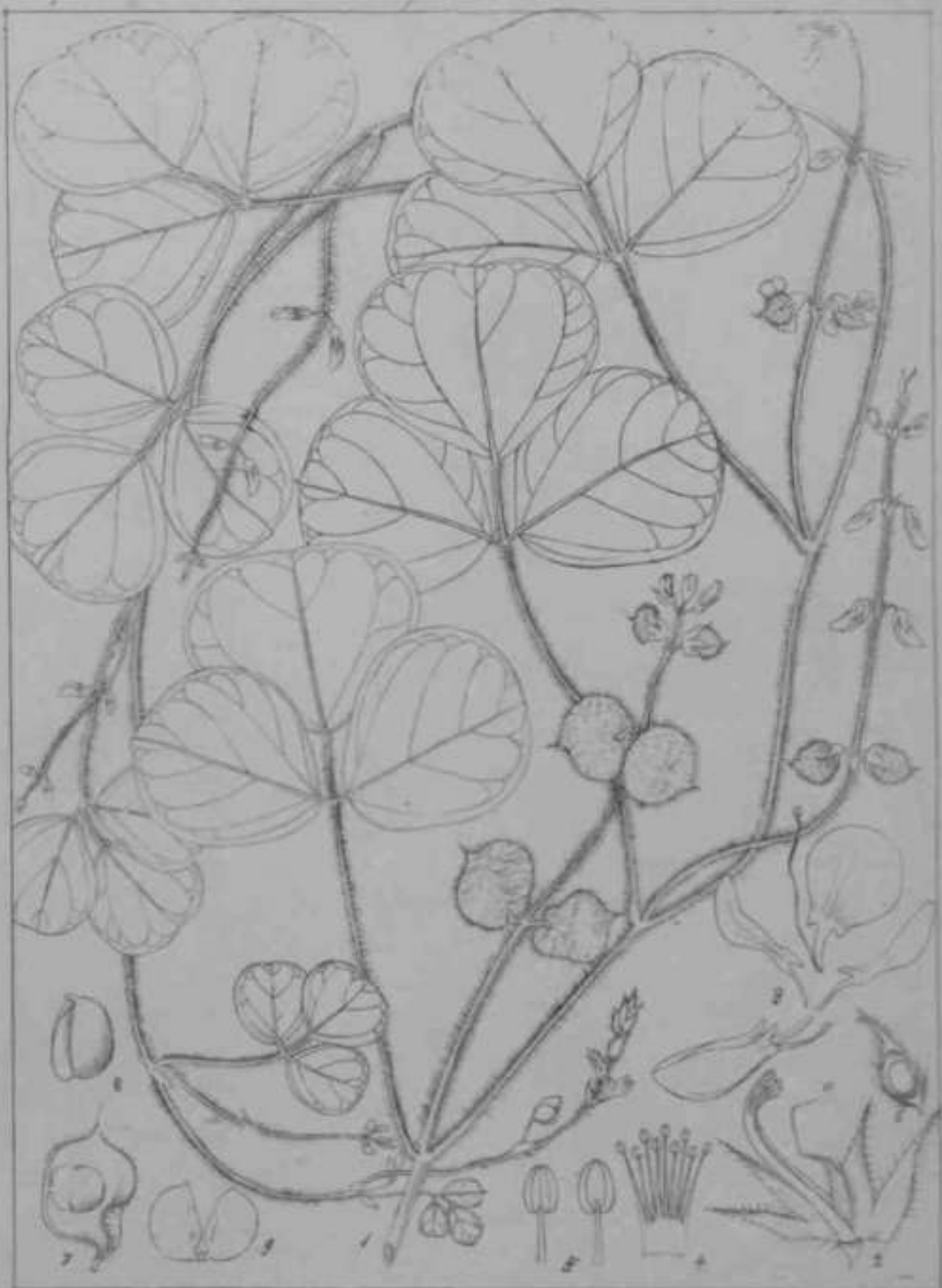


Zizyphus glabrata (Hoyne)

Papilionacea

Lupulinae

Brasilia 777



Boissier del.

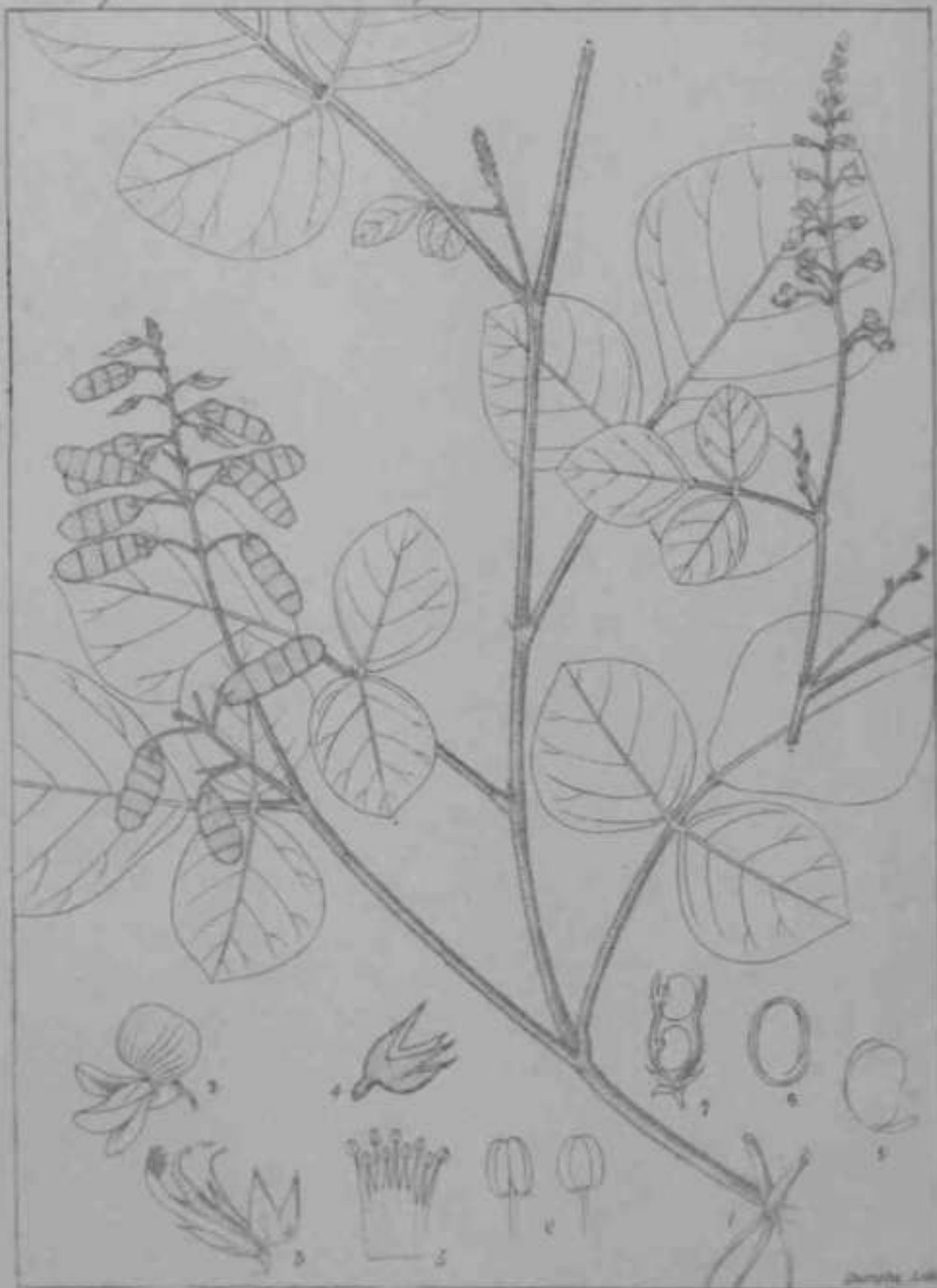
Mimosa nummularia (L.) P.

Boissier del.

Papilionacea
Kasburghiana!

Leguminosae

Pl. Ind. 218
631



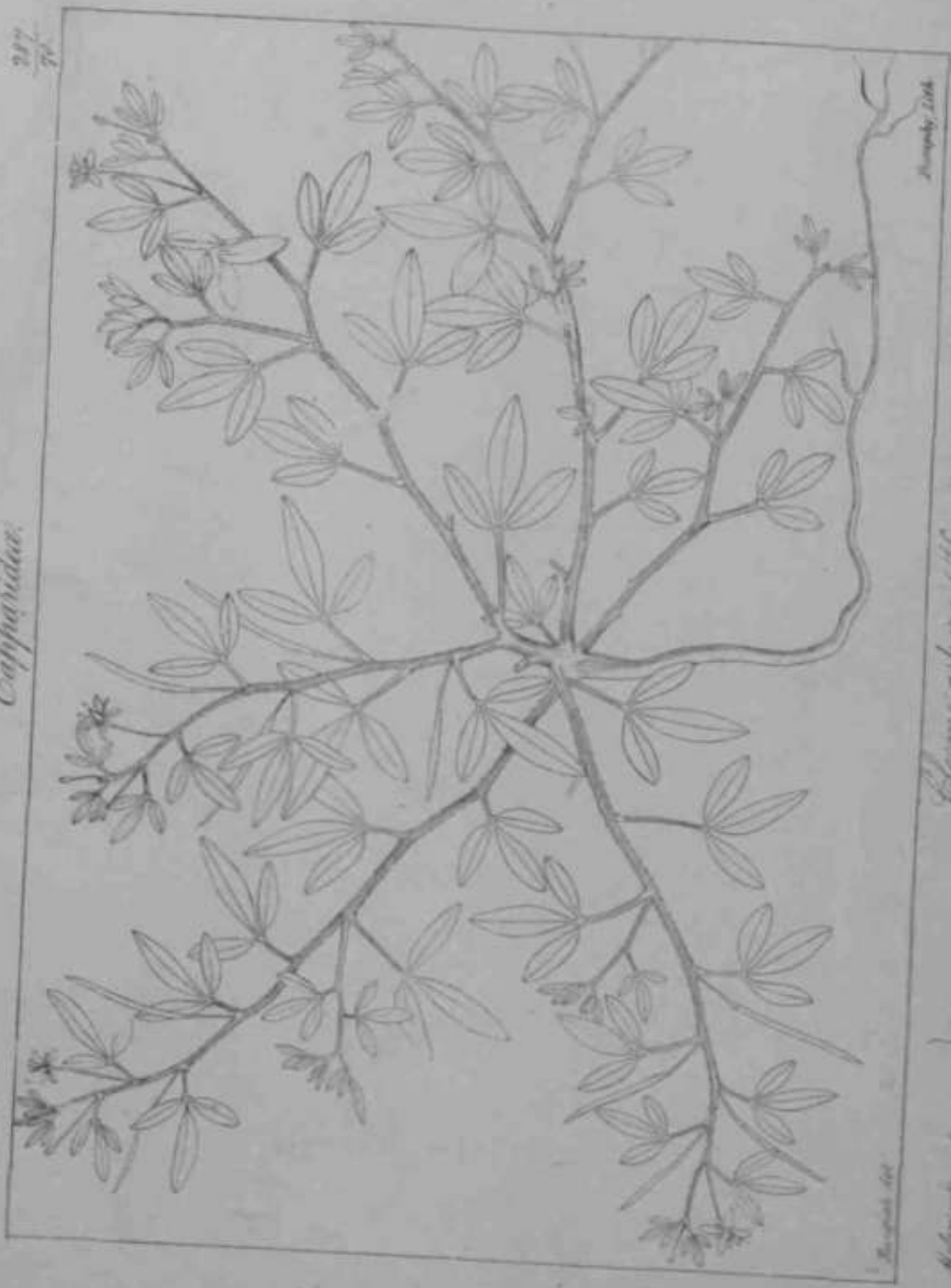
2022. Kengke del.

Bradyrhoea viscida / W. K. A.
Hedyarum viscidum / Rehb.

217
70

Cappariidae.

Clamada



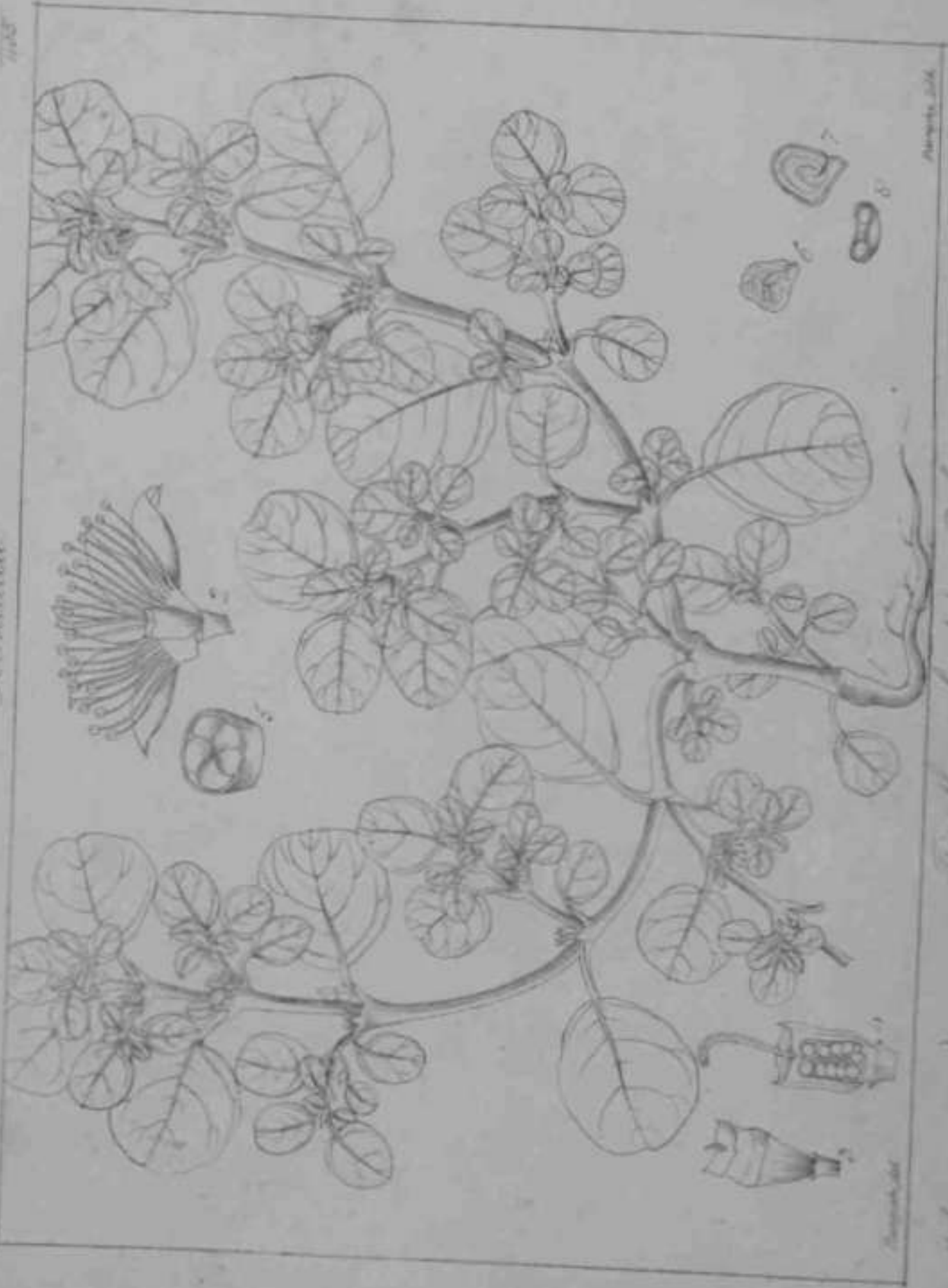
Alamy, 1864

Clamada aspera (Horn)

Clamada submarginata (Horn)

Barthol. det.

Scrophulariaceae



Plants 113

Quadrifida (Red)

Quadrifida (Red)

Quadrifida (Red)

Plants 113

Papilionacea

Leguminosae

Hedysarum 710
859.

Rachisphaera



Uraria lagophoides (P.C.)
Hedysarum lagophoides (Reich.)

Engelm. 216

Reichb. f. h. n. v.



'/Jte

Urtica alopecuroides C4
Hedyosari *Urtica alopecuroides* (Rost.)

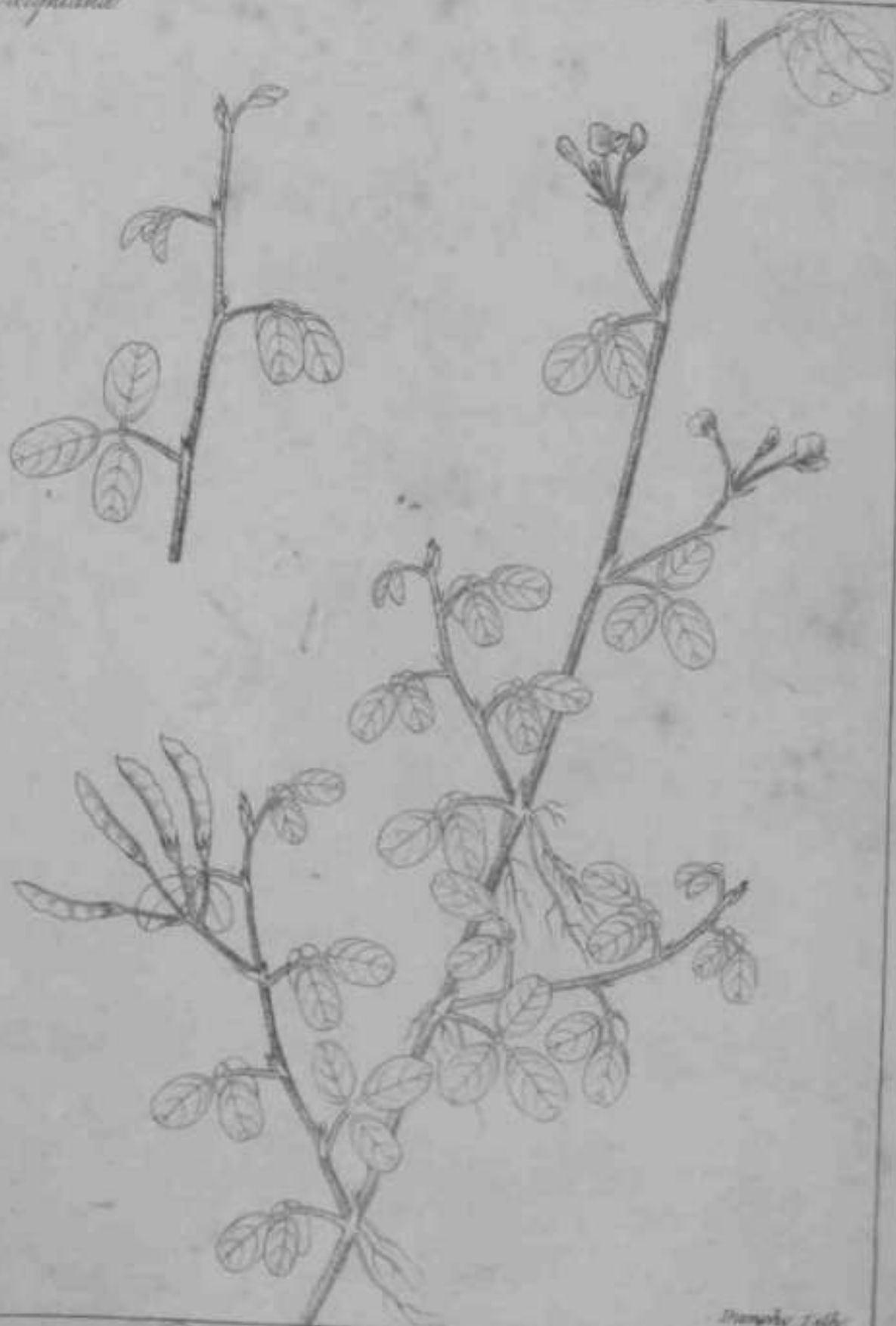
Papilionacea

Leguminosa

Hedysarum

291
708

Roelb. argentea



Stamphyl, Lich.

Desmodium hislorum a
Hedysarum reptans (Roel)

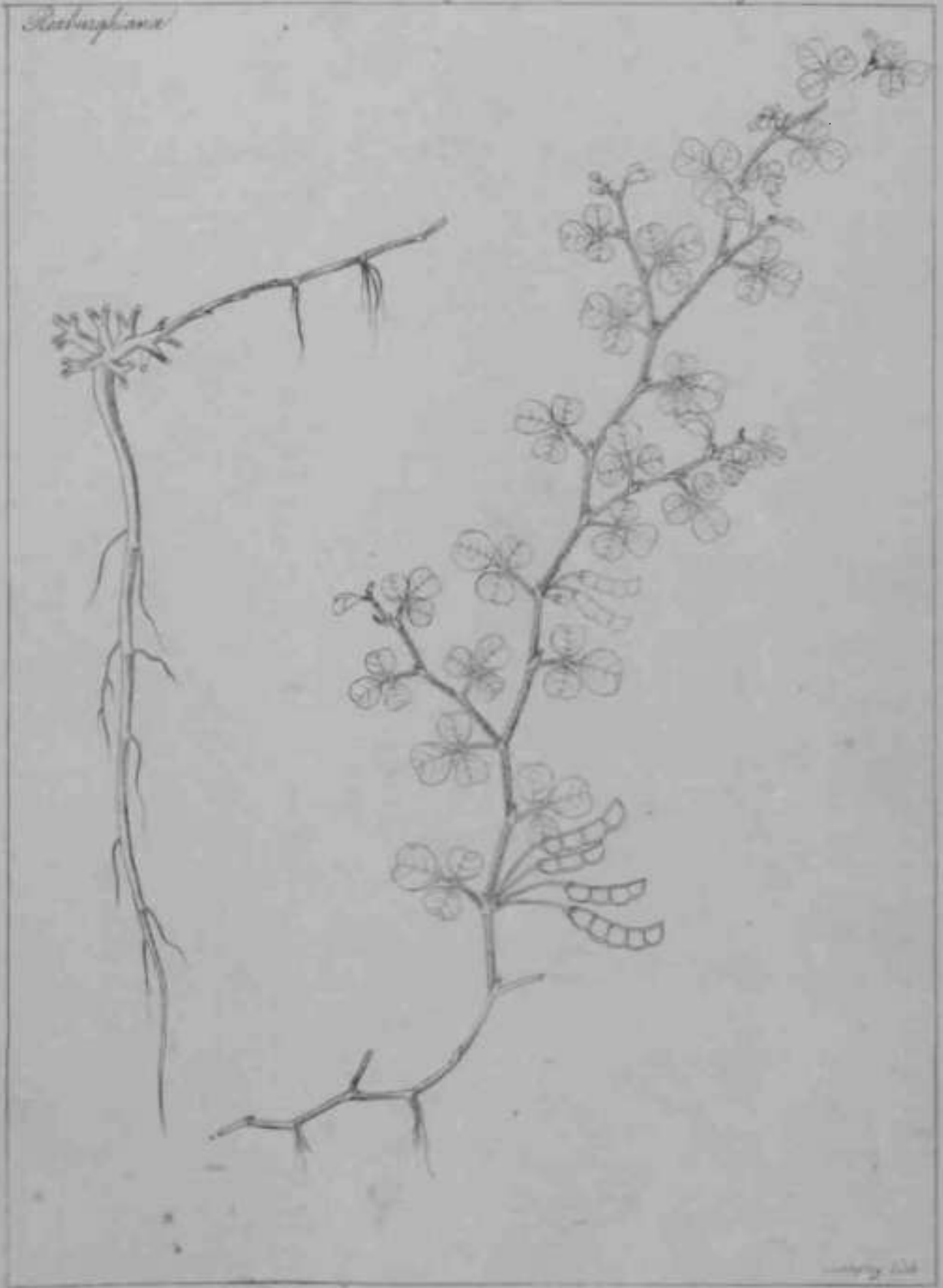
Papilion ²¹
am

L. <w>h *inosa!*

Hedysarum

$\frac{293}{703}$

Rochb. p. 100



W. G. L.

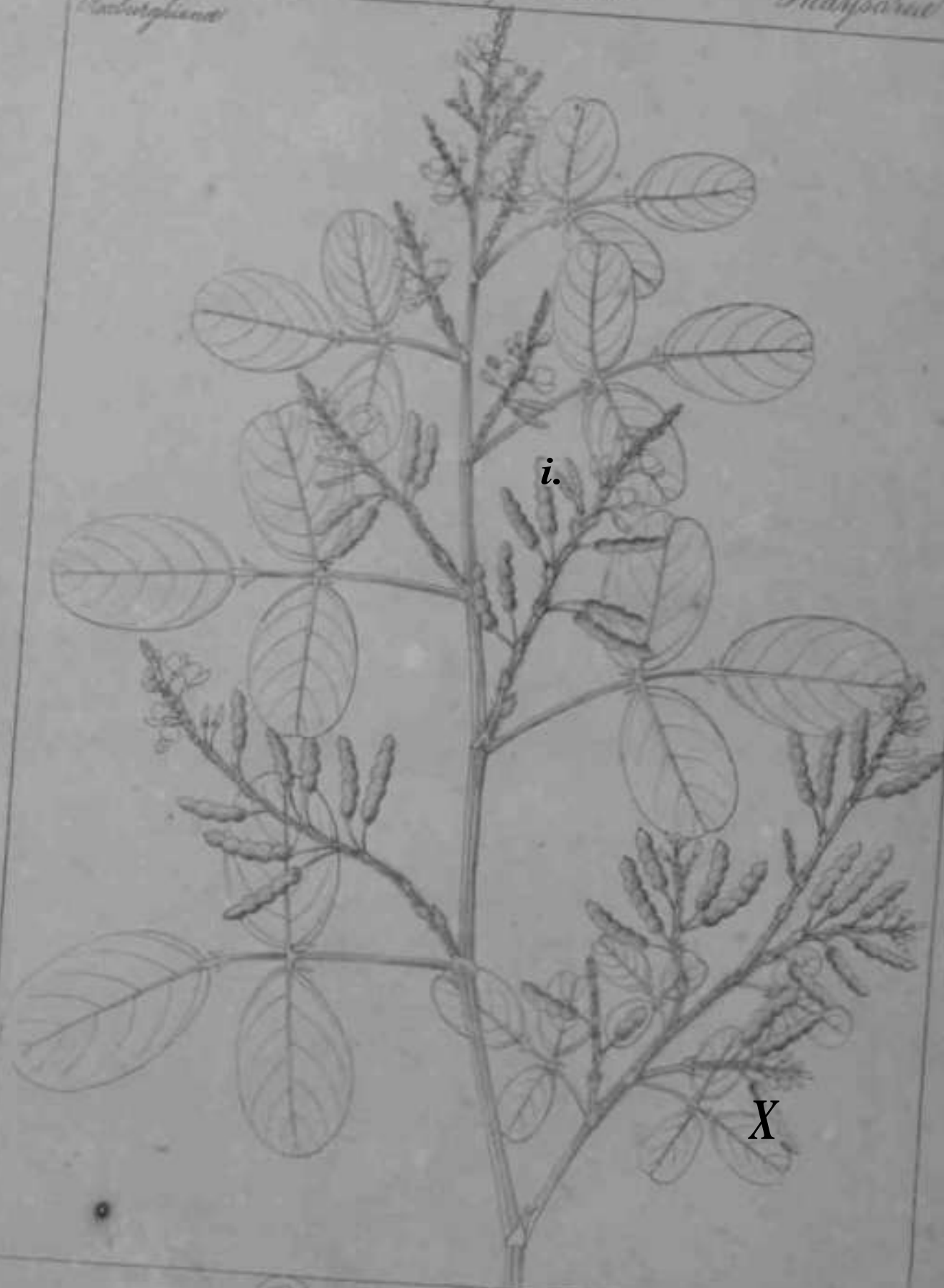
Hedysarum biflorum L. v. p.
Hedysarum biflorum (Rost.)

Papilionacea

Liguminosae

Hedysarum 293

Perforatum



i.

X

Permodium quinqueangulare
Hedysarum quinqueangulatum (Rost.)

Linnaeus

Papilionaceae

Lupulinae

Hedysarum

292
186

Bobacifera



Urtica hirsuta (Wall.)
Hedysarum hirsutum (Rost.)

Samuel J. Elliott

Papilionacea

Legumin &A&

Hedysarum $\frac{265}{075}$



Lourea Vesperalium Desv.
Hedysarum Vesperalium (Reich.)

Shawby, 216

Papilionacea

Leguminosae

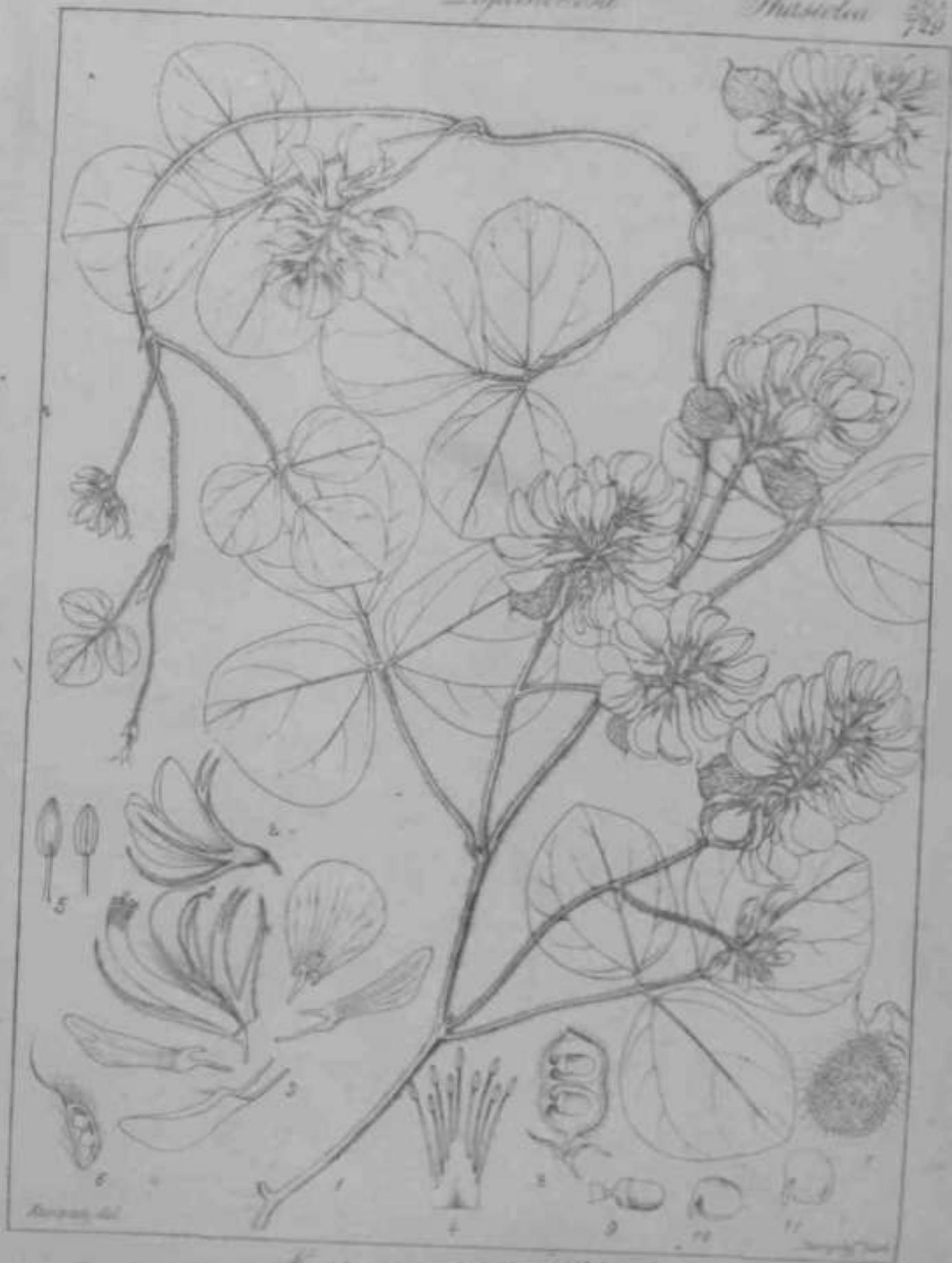
Hedysarum $\frac{24}{751}$

Arctostaphylos



Dasmodium gyrans (D.C.)
Hedysarum gyrans (Rost.)

Samuel L. ...



Lemniscus capitata (W. & A.)

Portulacacae

100
110



Trianthema decandra (Linn.)

Papilionacea
Saliciflora

Leguminosa

Halysarea

297
672



Crimocarpum senecoides (D.C.)
Halysarium senecoides (Rau)

Papilionacea

Leguminosa

Halysurum

248
079

Halysurum



Desmodium diffusum (L.)
Halysurum auriculatum (Rost.)

Samuel J. G. Smith

Papilionacea!

Liguminosae

Hydysarum 279
675

Reichbiana!



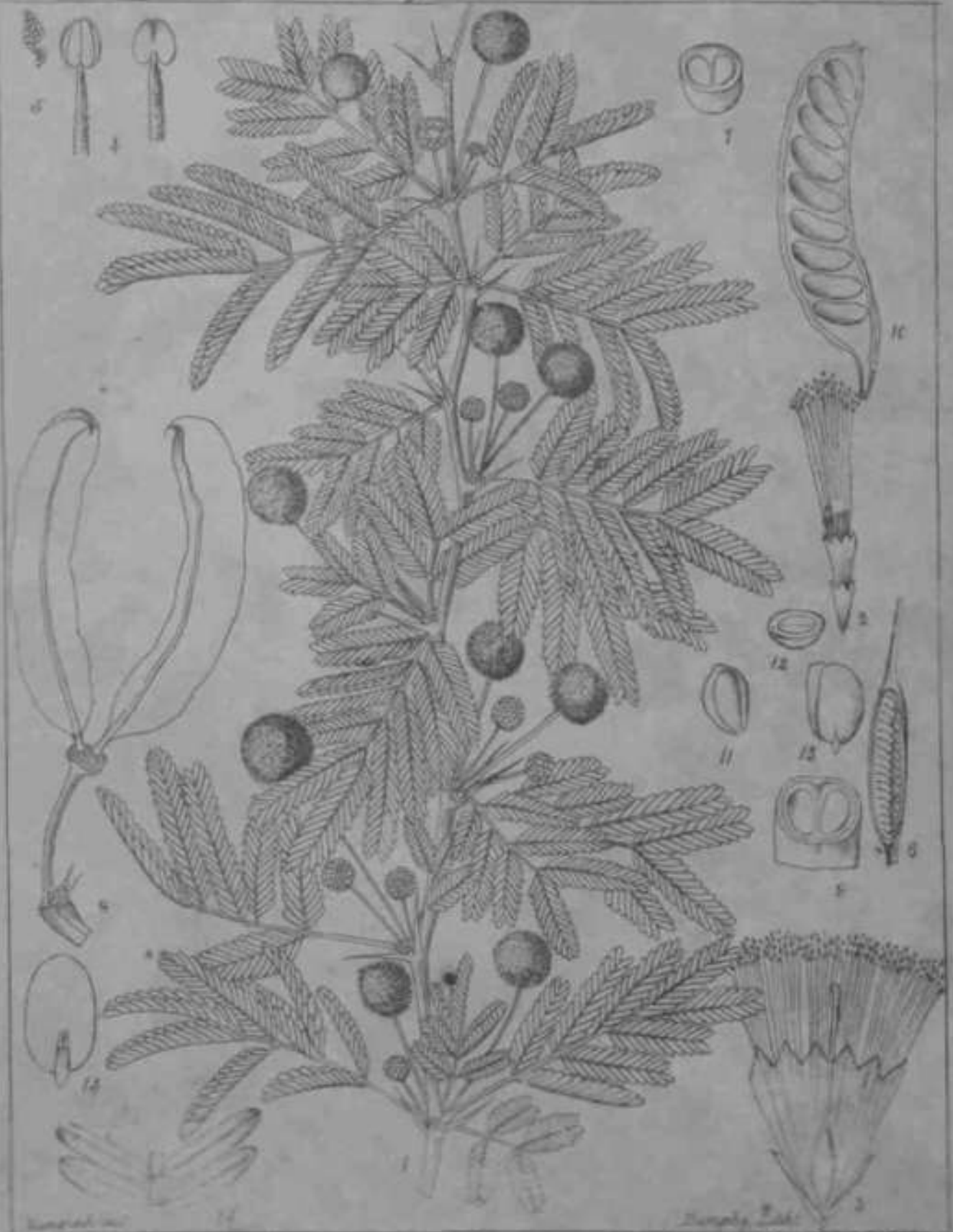
Aschynomene aspera (Linn.)
Hydysarum laginarium (Herb.)

Wm. Smith del.

Mimosaceae

Leguminosae

Acacia 26/54



55 *Acrotagia* *Vachellia Farnesiana* (WVA) *52* *Acrotagia* *Vachellia Farnesiana* (WVA) *53* *Acrotagia* *Vachellia Farnesiana* (WVA)

1847

Loranthaceae



Windsor, Tab.

Windsor, del.

Loranthus ampliflorus (D.B.)

Clavus, vicia, vicia, vicia, vicia
Anglicana, vicia, vicia, vicia, vicia



Loranthus longiflorus Desf.

Loranthaceae

716



Engelm. del.

Loranthus loniceroides (Linn.)

Barne. sc.

Loranthus

< n/ti

304
1881



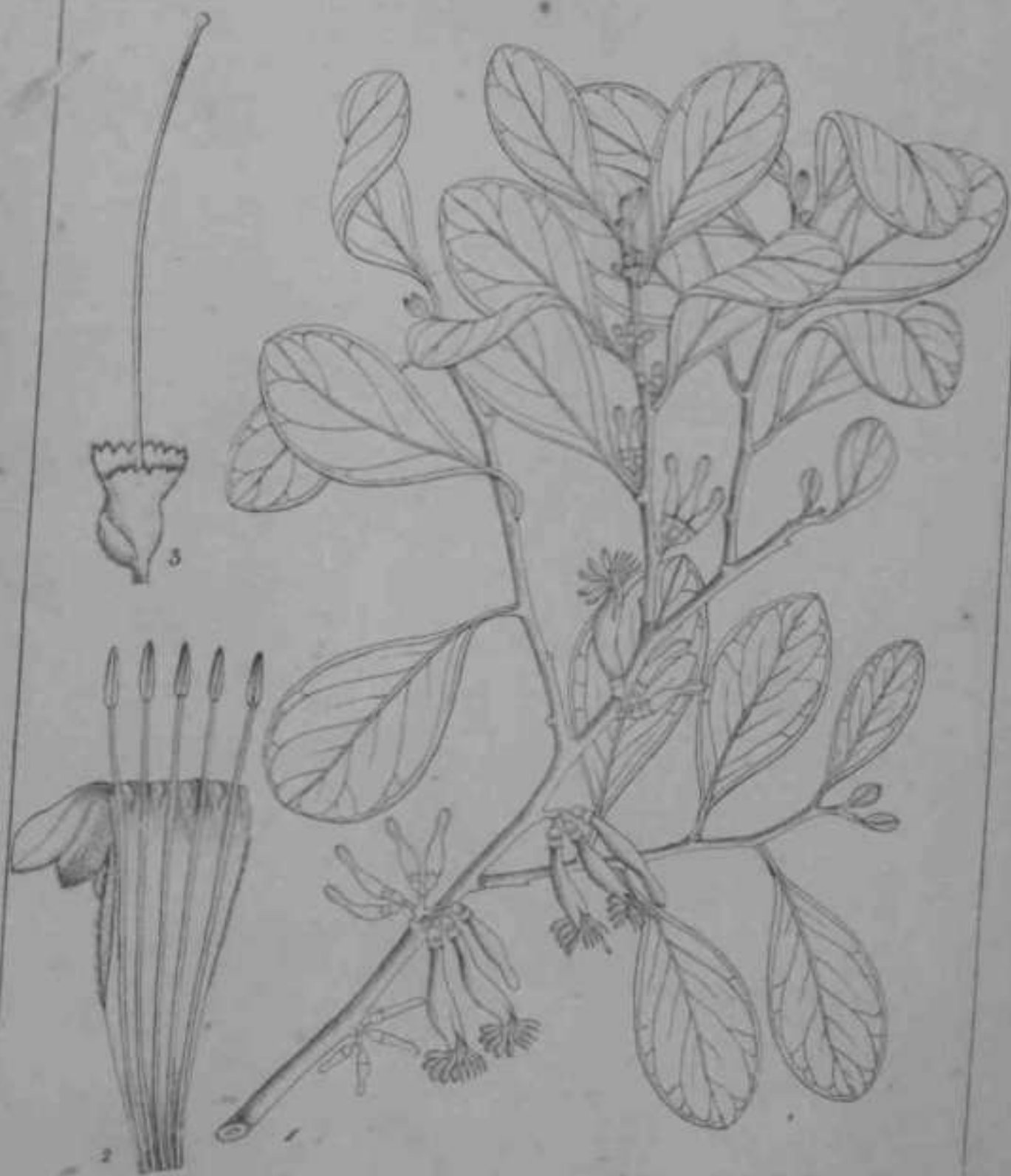
Engelm. det.

Loranthus capitellatus W & A.

W. & A. det.

Loranthaceae

305
7118



R. Sargent del.

Loranthus Candolleanus (W & A)

R. Sargent del.

W. & A.

Loranthaceae.

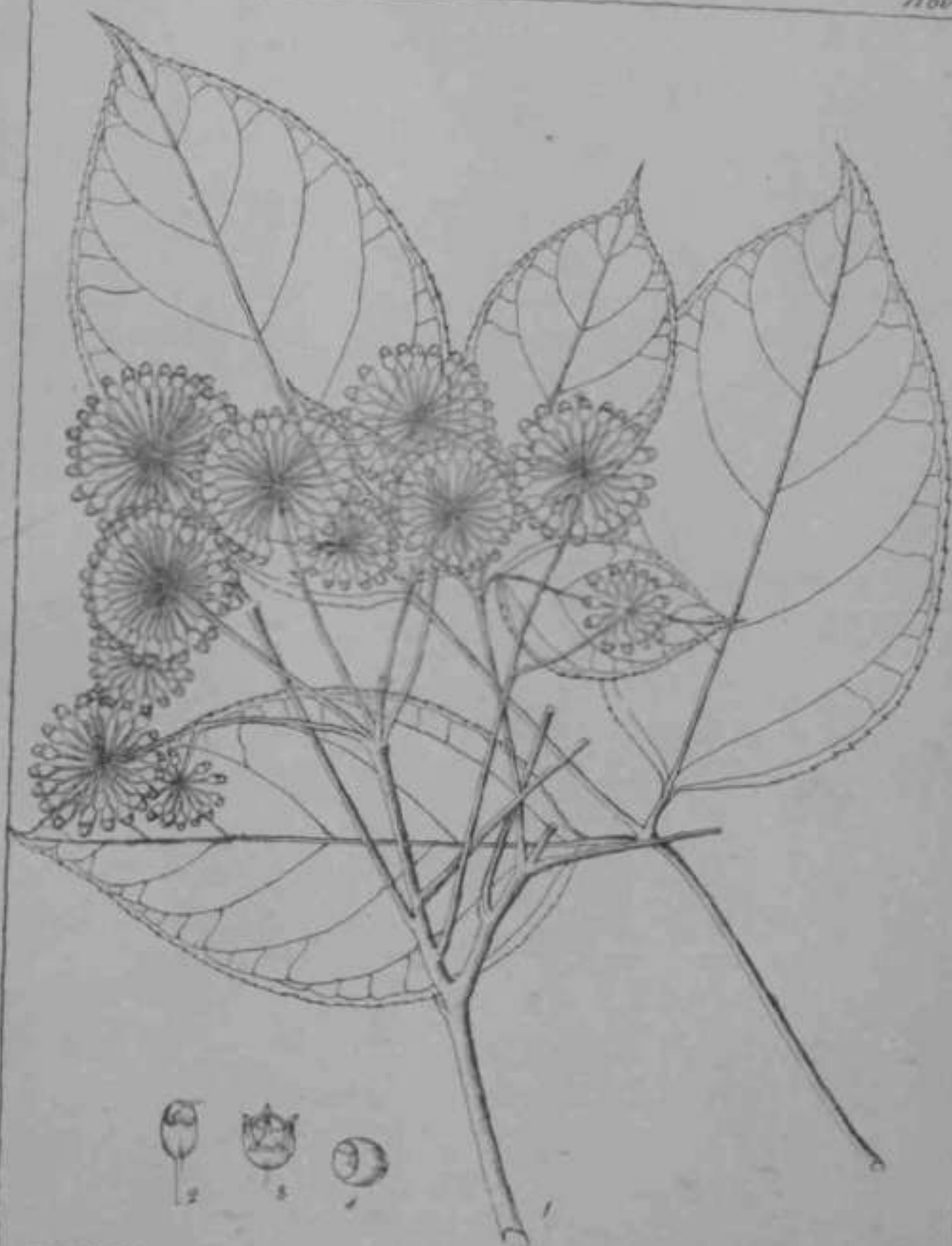
306



Loranthus lageniformis (Wight)

Araliaceae

307
1160



Engelm. del.

Drumh. lith.

Hedera trifoliata (W. & A.)

Violarica!

304
716



Barthol. Fisch.

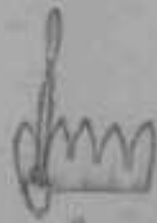
Sonchum suffruticosum (Ging)

Hayashi, det.

Cardenia

Rubiaceae aS

309
1936



Barneby del.

Stylacoryne Wibora (A. Rich.)

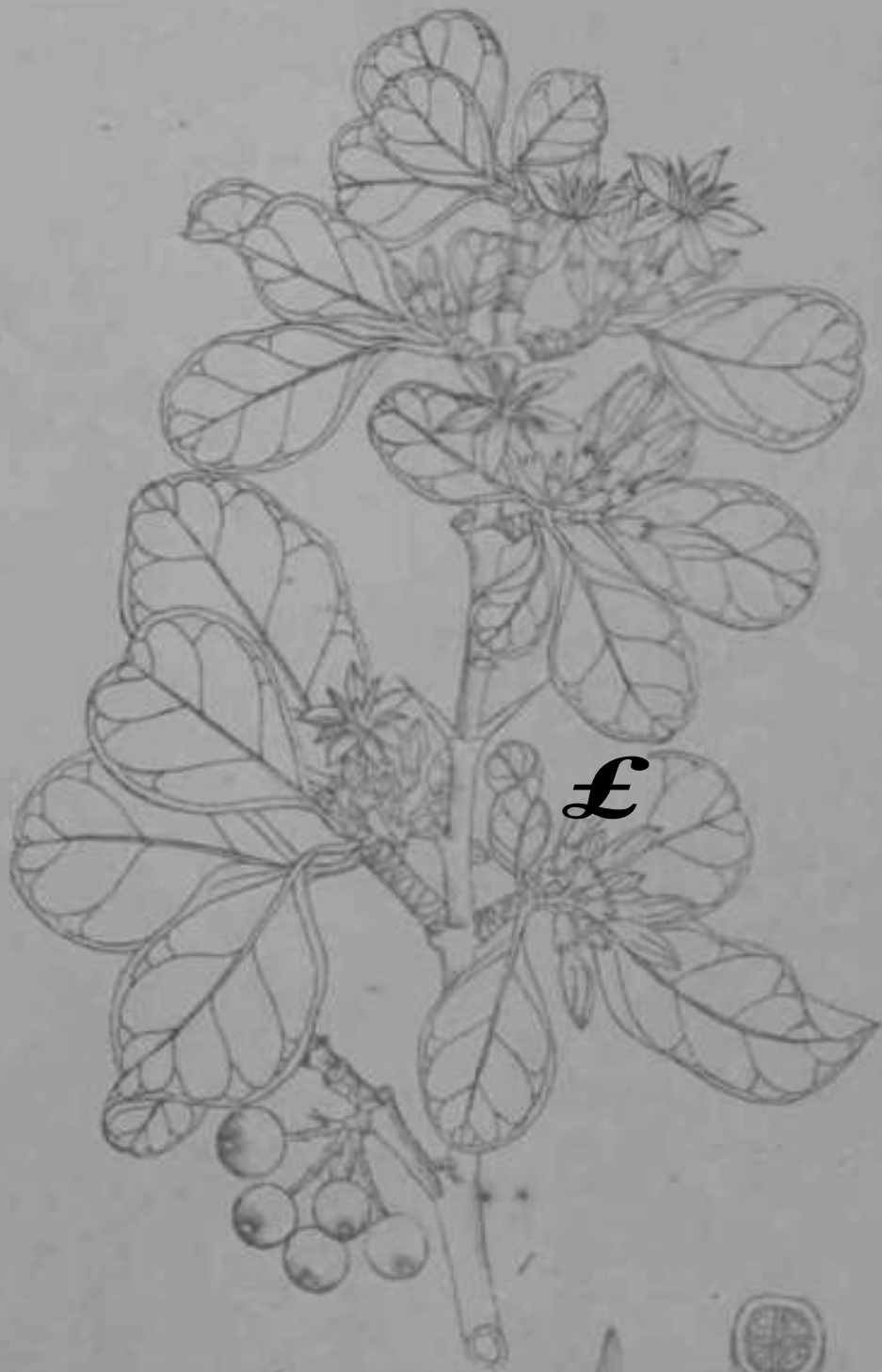
Barneby del.

Cyrtomium

Rubiacae

310
233

r



£



George T. Fish

Griffithia fragrans (W. & A.)



Corchorus capsularis Linn.

Linnaeus 1753

Walters 1796

Hedyotis

Rubiaceae

312
1266.



Hedyotis Lam.

Hedyotis racemosa (Lam.)

Oldenlandia paniculata

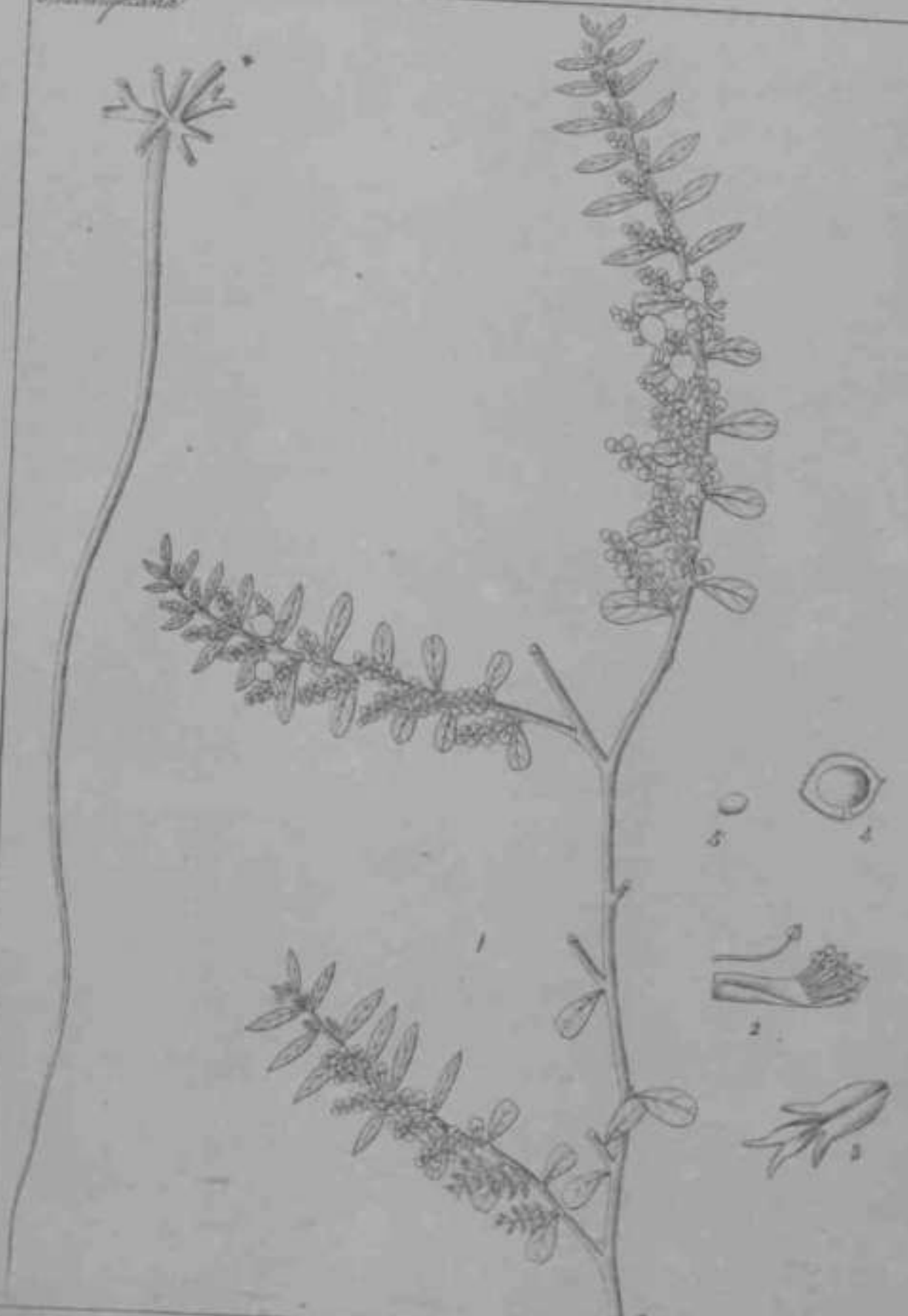
ZMT. 19. 1886.

Leuca

Liguminosa

312
618.

Asiatica



Indigofera tinifolia (Pehr.)

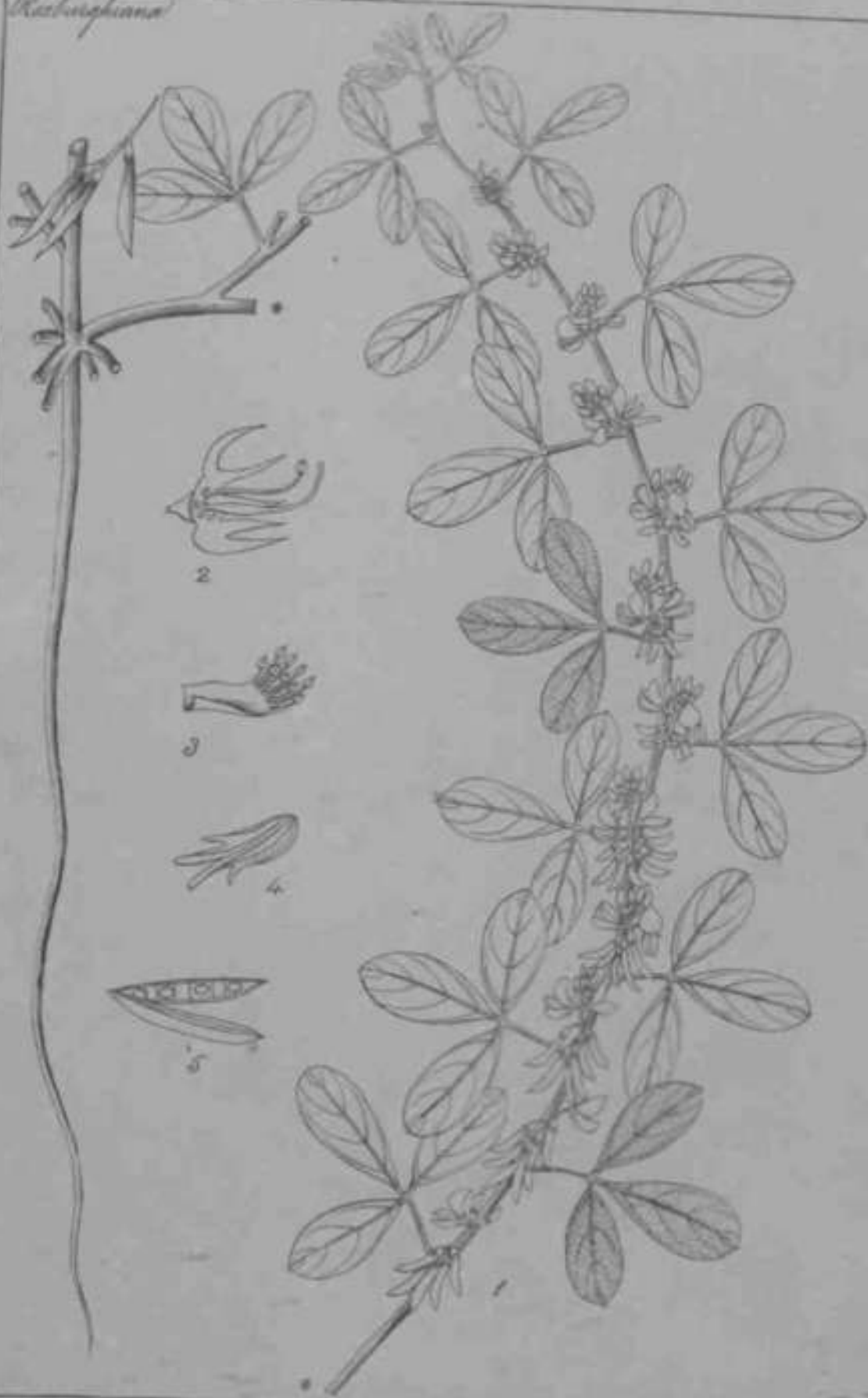
W. H. S. S. S.

Lilia

Liguminosa

374
628

Rachisophana



Indigofera trifoliata (Linn.)
Indigofera prostrata (Roxb.)

Boottler. del.

Sida

Laguinosa

315
38

Rochburghiana



Dumphy, J. G.

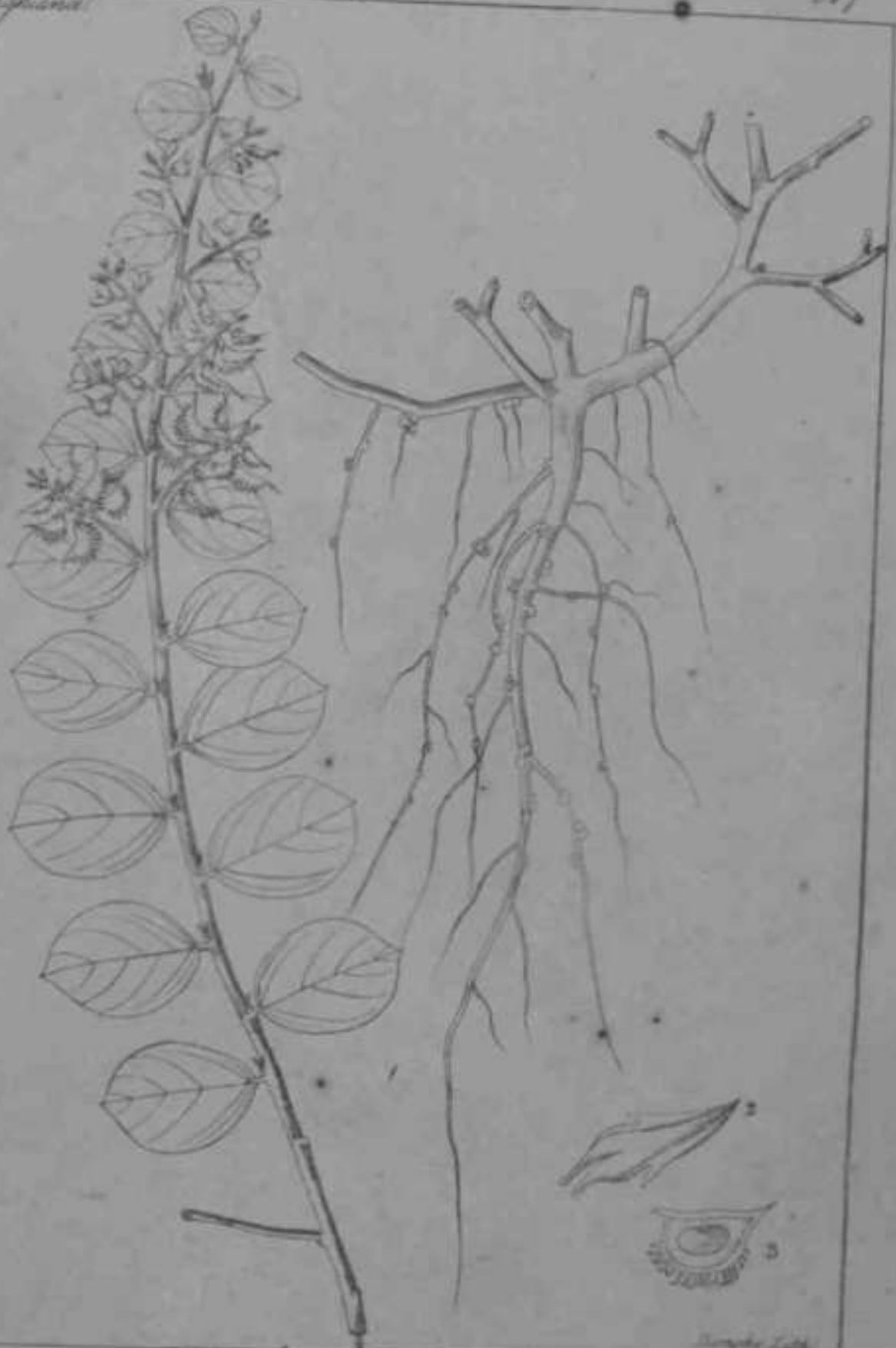
Indigofera trita (Linn.)

Pica.

Liguminosa.

316
517

Aschersonia



Indigofera chinensis (Willd.)

Gardeniacea

Rubiacea

317
1237



W & A

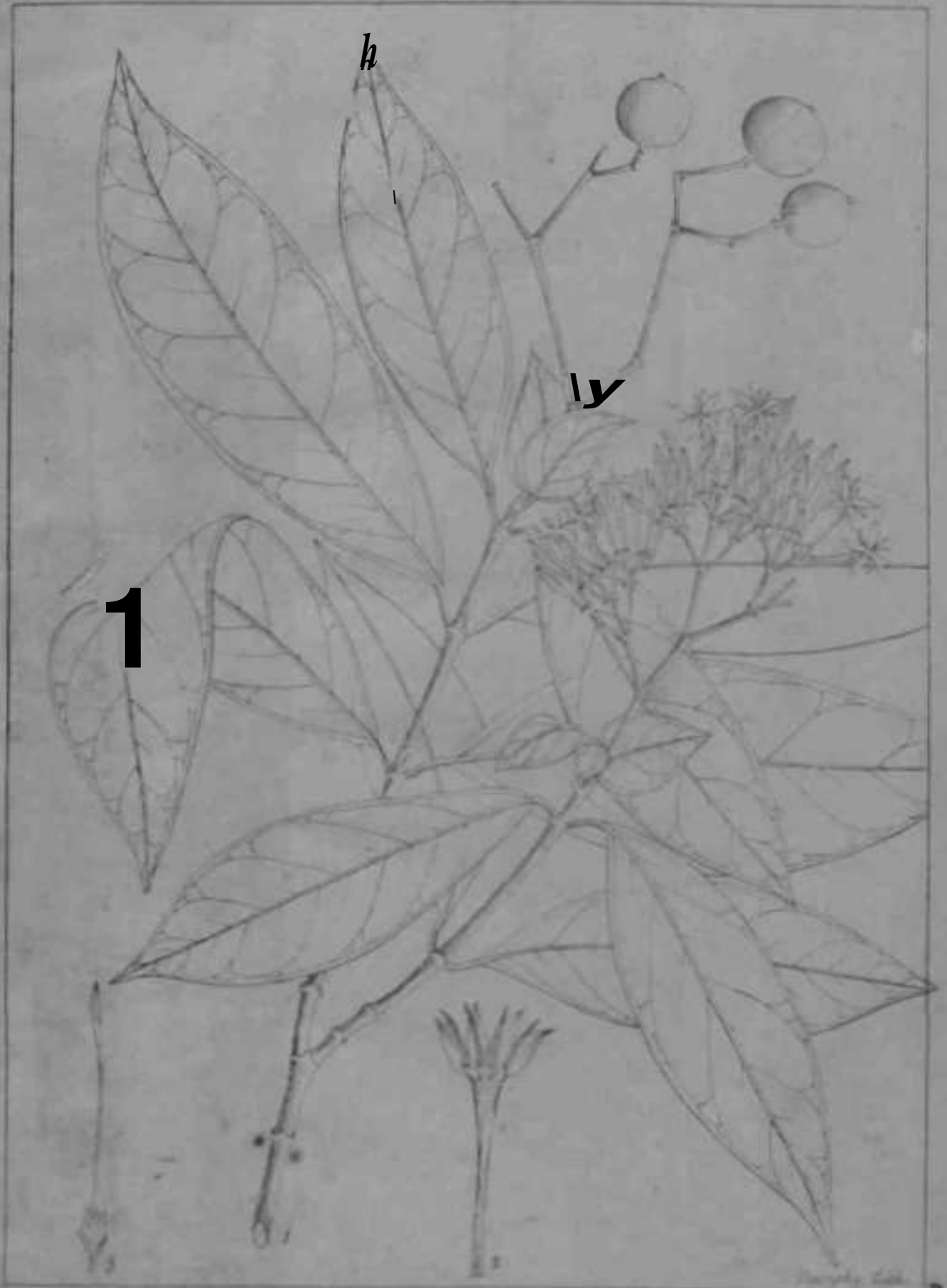
W & A

Stylicarpus monochlamys (W & A)

Coffea

Rubiaceae

155



h

ly

1

Wright, Bot.

Coffea nigricans (L.)

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