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FLORA INDICA.

## FLORA INDICA;

OR.

## DESCRIPTIONS OF INDIAN PLANTS.

by tie late

WILLIAM ROXBURGH, M.D., I'.R.S.E., \&ec., dec.


> PRICE FIVE RUPEES.

## CALCUTTA:

THACKER, SPINK AND CO.
 LONDON: W. THACKER AND CO.

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## PREFACE TO THE REPRINT, 1874.

## By C. B. Cl.thke.

TuF present abling price of Roxborghis Floma Indica (Carer's Editiont in Lombun in $\mathfrak{t a}$., and of Piddington's Index is $\mathfrak{E} 1$. The prestat raprint is priced lus.: and this is a sufficient reason for the nudertaking of the reprime.

The Flora Indiea of Roxburgh is still the only Hand-look of the plants of India that we have: and the study of Indian Botans has heen for years barred, both for students of the Medical College and for all Emolish denizene who do not bappen to have come to India well actumanted with a harge mmber of the tropital Asintir genema. bs the impracticability of obtanimer a sopy of the only book that con help them. During my ajomrn in Iudia, scores of persons must have consulted me how to get somic acemammere with the ammerons and striking
 there is but one book, and that matainable. The Flora ludica of Roxbmgh has Ineen quoted on larrely and widely in bertanie literature that a coper is essential to every hotanic hibrary, and by the mattiplitation of such himatits the price of the few ewpien of Roxbingh fluating in the market is being steadily pushed nj).

In order that the present reprint may completely supply to profescionat bantuists the phace of the scarce uriginal, the repmint has been made a verbatim and litemal one; all the errors of the oricinal having been fathfnlly retained; wen the geme loranthus is printel twice over, as Carey printed it iwice. For the late maliug of the pronfo of the repmin before the jpress 1 am imbebted to my fromd H. H. Lerhe, Fonf.. whose name will he a sofficient guarantee (to atl who know his work) of the careful necoract of the reprint. The paging of Cares: edition is added in the marsing so that the reforenets to the original Rosburgh can be immediately fond in the reprint withomt referring to the Limbex

The publication of Roxhmeh's manseript Flom Intica was commenced ly Garey and Wallich The tire volurne contaming the orders (in the Linuman Snecesion! up to the end of Tetrandria wns pmbleshed in 18:2, and is tweta Ruxhurgh's work, the remarks by Wallich himself beting trifling. The accond rolume of Wallich's Edition pmblisherl in $18 \geq 1$ is in form at continnation of the first, contaning abomt twothirds of Pentandria: bnt it really proceeds on an emtime different sale. It contains, indeed. the Roxborgh mannseript, but there me added erowds of epeeies lyy Wallich from Nepal, dee, widening the area of tho woek altogether. In short, the mera was so groatly widenced, that Wallich neser wis able to get on any further with the jublication.

Watlich's bdition of Koxburgh having thus come to a stop, Dr. Carey at the request of Roxbury's friends phblished in 183:\% in three volumea, Ruxburgh's mannseript Flora ludima as he left it : the first portion, np to Tetandria inclusive, coincides therefore with Whllich's first rohme, and the remainder is homogenens with this first portion, and represents Roxburgh's complete Butanical work in India, except the eryptugems.

In the present reprint I have therefore taken no notice of Wallich's second vilume, whin is ou a different seate. contains mush that is not Roxburgh's, and is mow ubt sume on that in the market: I have primeted Forxhorgh's owns inambeript at it stanth itn Cureyis aditiont, and hate added Roxhmorti's Cryptom grams firm the Calcutta Jommal of Niaral Histomg. Ciriflith's aditing of tho Cigptogams of koxburgh, unfurtunately, contains internal eridence that it was
written after the fall-oni occurred betwen himself and Wrallich. The Indian fernstave been better worked ap moreorer since than any other department of Indian Botany; and the Sympsis Filicman of Baker Ieaves little canse for mearthing the antiquated names and crude gemera in Roxburgh: newortheless, there is still somathing to be grot out of Roxlmegh's ('ryptugams: : ind I hatre printed them as they occupy ouly a few pares and render the present reprint a eompleted abstract record of Roxbinegh's work.

I have hestowed much thonght and pains ou the Index. and have finally adopted the simplest plan, riza, one Index in alphabetical ordel. I have always fonme myself that, if there is one Aphabetical ludex only to a book, my fingers will find the word and the page mechanieally without the current of thenght being disturbed: if on the other hand there is one Ludex to Euglish ummes, another to Latin names, a third Glossing of Botanic terms. a foueth of Esonomic Prowhets, de., 1 continally find that my fingers lead me to the wrong Tudex and my tuin of thought is disturbed with rexation by latime to tum asidet to consider for an instant in which Jodex the required word shonld be sought. It doubtess looks: a jumble to see linglish, Sinskrit, Latin, Teloogon, \&ee, words all intermixerl, but the alternative, cia, an Inlex like that of Piddington to Roxbmrgh, is not an Index, it is rather' a elassificd analysis.

I have included in the Index the native names, though on this point muy experience does mot lead me to adopt Roxhurgh's estimate of the value of such names. Considerable assistanee in discrimunating I Bambons can toubtess be frot from the dealers in Jamboos, thongh even in this case the name for the specties diffic in different distriets of the same provinee. So wilh resipect to sombe other plants, there is a elass whose business requires them to know the plants well. Bint the natives of lndia have no iflea of acemately observing anything, and the best names that even Roxburgh is able to give for enumon plamts are sometimes ouly Chota Doodlue Lnta, Donseras Sag, and surll like. As to the grand sanskrit mames they are still of lesis ratue than the vilgen ones, heing fombled om lises actinal oherervation, with the ohject of euriching the lauguage, an olject still so dear to overy chacated Bengalece.

In these remarks I do not mean to say that the rulgar naming of Rengal plants by Bengalis is much worse than the vulgar maning of English phants hy finglishmen. I have woserved that the cagermens to ret native or viluar mames for plants is directly propomioned to the ignomace of the euquirer: those who know nothing about the plants and who are unable to discriminate them under any mames being always loud in their call For native or local numes.

Howerer; thongh I ramot think native names deserving the tronble that Roxburgh has bestowed upon them, as 1 am reprimting Roxburgh ant not criticolly $\begin{gathered}\text { chiting him, I have preseresed these maness both in the text and in the index. }\end{gathered}$ The Finglish denizens have also many mames of their own for phants; thus ". Khodoleudron" means Melastoma Mahabatlucum (or almost any Iarge Osbeckia) and "Indian fir" means (inateria lougifolia: Rox-burch has passed by this class of mames altogether: donbtlens he thomght them likely to mislead as to the affinities of the plants rather than to assist. A plea has been putt in for preserving native mames on account of their value in tracing the history of plants. But everl for this pripose their value has been over-rated. Where no aecurate description of the essential character of a plant is on record, there is always moro or lenis doubt concerniwer the species meant, and whother more than one species may not be meant. It is ahont as dingeroms to assmme that a plant is iutroduced beamse there is no Sanskrit mane for it as it is to assmue that it is indigenous becanse there is a Sanskrit name for it. A very moderate percentage of tho indigenons plants lave any Sanskrit name. And in some cases where a new plant has been introduced. the sianskrit uane of an indigenous plant which it whe supposed to resemble has been transferred to it. and has rery soon bern monopolised ly the new plant. Thus the anciont mane for the 'Jamarix (which species?) is Jhow : this name was applied to the newly-introdnced Casuarina equisetifolia, and now while every body knows that this Casumina is called the Jhow, verg few know what the diow rewly meaus.

An ludian Flom is now being prepared at Kew mader the direction of Dr. Howker at the chief cost of the Secretary of State for lutiat and two parts (entaining the Natumb Orders: Rannueulacea to Palsammese have been pmblished. 'This mew work might be -npperied to supursede Raxburgh altorether, and I proceed to shew that this is mot the ease. In the first phace owing as above shewn, to the extent to which lioxburgh has been quoted, he will always bo wanted for reterence.
lut the semme place, the present reprint of Roxburgh is mot more than
 Indian Fhora of Kew shall be eompleted, aml, until complete, any sy:tematic work
 lishert it is the bat ihe earlien onters ane momparativety ensy : several klora In-
 the series have heen worked ng, hefore. It is very different with the later order's such ns Wrchidacer amb seremal :mallip orders of Xomoentrledme diflicult to mako ont from lherlinimm specimens. The completion of the Kiow Flora Intican mot be a work of time.

For, thirilly. the Few Fiom Indiea eomprises the plants of India from the




 well tixem in their minds, wacor ha ank of thin size fore a plant is wore than


 little time in really womkine with a book.










 burgh will twot be superatital.
 It as it comis ont is an: it tells thone in halin what material there is at kiew and
 time on whels all finmer latinie work in hatin will he grommed. After the plants hate been hetaniealtr d, formimol. and the mame attreled so that we are wherably


 mans come tiost before ant satiofactory progreen elvewhere can he made: : and
 their work in the manner that Drs. Horker and Thement indieated. The (iovern-




 acemat of all the specis likely for prowe io cermomic value. This last requisition


which only a rery fur are thomaghly known to hotanists : and if fifty rears hence we are in a position to draw up an exhanstive Forest Hand-honk of them shewing the method of germination of mel tree, our Botanic progress in India will have been marrellons.

In India, the variety of plants atome level, and in one elass of soil, is very much below the tropical lixuriance anticipated by renders at home. In the vast Adta of the Ganges, Brulmapoontra, and Megina (omitting the isolated pateles of red clay which appear as islands in the Mudnopoor jungle, de., ) Dr: T. Anderson reckoned not more than 6 (H) indigenoms phants. But cren withont proceeding 500 feet ahoure sea-level, there is :tu chomens: inerease in the variety of phants in the Terai jnngles which skirt the base of the mountains and hills. For an Indian lfand-hook Fkora, we want a book that shatl rontain those 2.00 p plants that come in the way of ordinary denizens of Colentta and Madras. Few persons compratively can visit the mometans or collect in the hot jungles at their base: and those who do so (as tea-planters.) and desire to know lhe wild planto, monst use mueh limerer hooks. Now hoxburgh's but ineludes essentially the plains Flora of Calentta and Madras, with a considerable number of the plants in the Civerar Hills up to 2.10 fect. and therefore covers the most nseful area for pernle in gencral. Alse Roxhurgh eomains an aceount of all the phants ordinarily enltivated in India in his day, and we have added womlerfully few since. This enhances greatly the valne of Roxhurgh to lorticulturiste, and prevents much disappointment, to those who seare for some widely-spread plant in a hand-book, and are vexed not to find it becanse it is onitted as introducerl.

In hand-books of Finglish phants, the enltivated mes are never inchuted: their mumber is too great. But the number of cultivated plants in [urtia is very sinall, so that Roxburgh gets them in casily: In an linglish grarden we can eultirate most plants of colder conntries (except Apine plants which arr tronhlesme) fand alst most phats of even the Tropues in onr shove-lomises. In ludia it must be recollected that we have no correspondiner ice-lomse conservatories, so that omr hortienltural efforts except for tropical and subtropical species are greatly ciremmseribed. Troplieal jungle plants ustually recquire a majurmit! of moist heat whels is what they do not get in India. At the Calcutta Botanic Garden there are not a dozen forcign trees that can be satid to thrire so as to be worth cultivatiom. And the number of indigenons trees worth cnltivation is small: the Calentta garden list of trees recommended and furmished for planting by romat-sides, fe., did not exceed twenty in all. Probably. ten times this number could be fomed which wonld grow luxuriautly in the Sikkim Temi. This statement will show that there is a tolerably clear line between the ordinary Indian Floma and the Flom of the jungles and montams: the latter Flora is ummangeable in extent, the former is contained in Roxhnrgh.

Roxhurgh's book contains, besides, a small number of the Terai and mometain plants from Nepal, Sylhet, nud Chittageng. and some plants of Penang, the Hohnecas (3, which Roxbmegh means Malara) and eren the Manitius. Uf these plants, (espeefially the Molneca ones, the deseriptions are often very short; and the apecies in loxhmigh are not sufficient in mmber to form any representation of the Fhona of the comntries. In any now edition of Roxburgh, it would he far better to omit all these species and make the book as a Hand-beok of the India platins Fhorats mauageable in point of size as possible. In a reprint intended to be useful for reference, I have thought it best to retain everything.

The issue of the present reprint has heen highly approsed by my botanic fricuds in Bengal: but they have very generally cxpressed disappmintinent, heeanse I have not added to each species the modern symonym. I might. froun the rednetion of Roslurgh's species published her Dr. T'. Anderson in the As iatic Iommal, and some other less snere sourees, give the modern symonyms for Roxburgh's species adopted ath kew. or 1 might give the rechnctions from my uwn mamseript list of Roxhurgh's species. But meither phan womld be satisfietory to me.

Some three jears ago 1 sent a paper home to Dr. Howker, for publication in
the Linnman Journal, on the Bengal commelynacere. In this paper I reduced the two leating species of Roxburgh (Commelynat commnnis and "nmmelyna senpiflorn) to quite differnt plants from thase to wheh they had previonsly liem supposed to menn: and this ehange natnably induced other ereat changes in the serwhinf. But it wa ouly after sereral lethers, aftere semting home named specimens, and after Drs. T. Tliomsom and T. Andersom had kindly lookech orer my paper with the Herbarium bindtes, that my propened changes were areepped.

Doubtless, every order does not require su great changes as Commelyacea: still, the number of eases in which I shonld think it netesenry to alter the seno-
 in Commeltnatere, every change whatd reguive a full working up if the order and in aparate ensay or paper in support of in, at hast. Any such criticel colition of kusburgh, even were I prepared to mulertake it, wonld he a rolnmizoms work and womble render the present " reprint " niselens for the pmpanace for which it is primepally intended. And on the other hamel I deeline to hash lioxburgh, or do imperfeetly and manti-fimenty what 1 conkd domuch better.

Perlapes the next grean atemne in Indian botany is the thorough working
 ance with all the phato of the Indiat phatis, and a syomatic hertmorising oter


 manys other of his species have heen impertmenty reduced be rarions hamde to


 symill

No donht, it wotald be far mone useful than the present reprint in prepare an Indian phans' Flom ont of Roal urgh, arranging the phent.s in C'andellian order.





 reall) writun hy him before 1-2り that have not been anpersedrdbe modern work.
 tion: (in this statement I do mot reeknom I)rury wheh, be ine enmpiled ont of hronks instead if eremmed on a study of the materiat in Herkarinms, alds anthing to the previnus st me of homieal knowlenter) : and hesides this. many of the corrections
 right. I may mention an instanco: Wiath ant Armott ans that fanfla acmenterla

 large "yperi and "phackied aside" the eymomes in "liserse directions: Rox-

 rally the beat plam to get hold of Roxhurglis species first, and fit in all sulacoquent
 ceivel, than they torm a sutid frame-work, which being once pint together, all the other spectins are emsily fittul imbe their dhe pheres.









# FLORA INDICA. 

## CLASS I. MONANDRIA MONOGYNTA.

 y, tis-C.ANNA. Seltiob. gen. No. 1.Awher fingte, attarherl to the elfere of the petal-like tibanent. Slyte spatulate, gron- Pago ing to the thin ot the cornhat. Nigma liuear. Capsule threecelled. Skeds several, naked. (1) imdica. Lian. op. pl. et. H"lld. 1. A.

Laves orato-lanceolnte. Segments of the immer border of the corol lanceulate, and bidentate.

Surs, Vunt-kolen, Surva-juya.
Bang. Lal *urva-juya, tho rel rariety, and Shweta Smjuya, the rellow.
Trliag. Kiriatma-tamara.
Kintu-bula. Ribred. Mul 11. p. 8.7. t. 4.3.

Comanon over ludia, and in thower and somb mont part of the pear.
Observation. The burts of the corulla are eactly alike in lush varieties. C. Iutea of Buspor, must cherefore be different, as in that, the immi limb of the corolla is liffol.

- DHRSNITM. Hilla.

Auther ancle, terminal on a dhet rect tilanent. Stale growing to the fulm of the


1. P. dichotn nom $R$.

Shmblhy: dichotomoms. Lezea car late:

Armiantrum. Tonchat scstam. Rumph. And. 1. p. 22. t. \%.
Danas Aruadastrum. Lutriar. Coclan (h. Lis.
 bula, (ihuta, Fitee, Vinhowa.

Beng. Misneta-patre, Patter-paten:* or Murar-patice
Thi* elogmt shrub is a mative of bongal, as will an of vari me other farta of ladia, \&c. Fhonerine time the hat setant seat ripe in the raine.

Rout raneus, woxly, preminl. Stems atrairht, tip riug and simpte to the branchuc,












 recirval argments. Inmer elevatell far aluwe the exterior om a continuation of the tulne, und omtist of tive rery metual pertions: the exterior two are larger, olveriate, with
 Inmad, uberdate. devply emarcinate. and of a midhling size latween the two exterior, mol two interior segurents; mu the inside near the bose a semilunar body which projects inward Fetroent the mither amt stimm: ; the inner two small, and wrenth the mouth of the tube, cherly mhrarine the stigmand anthre. Filament short, attacherl to the margin of the gmalle segment of the interior lomaler of the rorol. Anther erect, simple, wate-obleng. Iu this sjuries, ua wrll us in I. capilatum, the pullen consists of remarkahly tarem round


[^0]Page of the tuft shenthing, with thein upper pirt romml and bunoth, those in the ermetre (ome or two) lave no sheath, mad are from apes to hase romal and sinooth; gelmeral lemerth of tho whole from six to twelve inches, which is uearly the hoight of the whole plant, the po-ition of the leaves being nearly borizontal. Spizes schitary in the eontre uf the petiolos, or lateral
 imbricated on opposite sides, with four to cioht, alternate, bitarions bracfes, or sleaths; arch embraces a smull spikelet of tomr or tive puirs of serile, small, nenrly white flowers on the back, or interior side of the spikelet, which expand in sucescion, begiming with the lower pair. Rach is flcwose, smooth. Bractes; exterior, or common, omat afle joint of the spike, sub cevindrie, sheathing, smooth, and rather obtuse; infrrior, wroper one to areh paib of tlowers. Calyx three-luved ; leaflets lameonhte, smooth. Corol with a long, very slender, suootli tube. Borler; exterior of three reflexed, ohlong, obtuse segments; within these are two larger, round-oborate, erect, eurled portions; interior, or nectarium small, and like the other speves mequally thre-lobed. Anther one-eelled, attiched to the inmer border of the eorol. Gierm inferior, threc-celled, with one ornlum in each, attuched to the lot tom of the erell. Style hemded with the tule of the wonl, at in the wher species deseribed by mo. Stigma meinute, thiek, and lleshy. Seed ressel (not sewn.)
4. P. imbricatum. $R$.

Stemless, Laates radical, Spities simple, petiolar, solitirrs, short-peduncled; briactes
imbrientel, trmeats. many-tomihed.
Fittuli-pata, the vim citur mane in Chittagong, where it is common in its wihl state. Flowtr in March minl April multh stats ripe 11 in Ausust.

Root iuberous, \&e.. as in oher scitumizeus. plants. Stem unne. Leaves radicul, long-



 apens on one sin, for the -pike, ita margins thin and hairs. Spike solitary, slume perlunchel,

 gink thowrs, which expami in ollectsion. Inner lerutes small, and membranaceons. Caly, r, corol, ard stermen, is in I'. parifformen. Cierm three-cellerl, with ohe owhum in ateh,



 of the cell ; extornal thaic herd, Irown, aml polinhal. Perisperm conform th the semal. Embigo ereat, simple, the apre homberl. Raficle inforior, clowe to the umbilicns of the secyl.
(ibs. The eimple, short-pedumeled, iuntricated, linear-oblong spike, burstiug from the midalle of the petiole, rearlily prints it out.

## 5. P. pureithorwin. R.

Stemhess. Leares radical. Meads of flowere petiolary; bracles aemle.
 begimitug of the rains.
livot thberons, In rizontal, hairy, in other respects as in P. capitatwin, de. Seates tome-petiohel, clliptically wal, prilisheel, entire, sh rt, achte, pointed. H, ads of tiowers sub-

 spikes. Bractes; the exterior two are loriti-ovate, and common to the whold heat ; the

 slort pulticiltel, who th, but hairy romat the instrtion of the calsx, therecellat, and in this spreces 1 hawe ouly thand une of the celle ferite, in it is one ovalum, attached to the buthm of the rell. In rofpit thom all the threx cells are tertite. Style as in the other species, it grows to the thlo of the cond, its pex fro and hooked. Stigma infundibuliform.

## 6. 1'. rajit tum. limn. sp. M. ed. Willd. 1. 17.

 mimal, celonmote. Braetes trmeate, inemrvite.

Nam-killa, Rhead, Mul, 11, p. (i7. 1. 3i.
Phythexk Placentaria. Larr. Cochin Ch 16. 17.
Kiblsi. Bexef. Whiela abo sirnitive "I Pleatuin.
A mative of' ' 'litiogemse and ni varioms other parta of ladia. From the former plare it
 asin! senem, the aetylo ripent in the cont bरamit.





 joint the re is a swelling, which in the time is fore in opern on the insile by ehe growing






 Exterior ome of enth finceicle is lirer, suh celintric, of a tirm toxture, mul reatish colomp;






 month of the tute clow hy the free, curved ond of 1 her stshe. Aather simple : graina ot the





1.

8

Page
round, smooth, dark grey, resting on a small, squmiform aril, which is attached to and smromeds the short umbilical cord whieh unites the seed to the hothon of the partition. Integument double ; exterior spongt, inner thin and lather hard, whering to the exterior, and to the perisporm. Preisperan eonform to the saed, horny, tinged with pale bhe; a fissure replete with a brown sulstance penctiates from the base to a considerable distance npwarls. Embryo pure white, hooked, with the convexity upwards, which corresponds with the periphery of the suecl.

## -HEDYOIIUUM. K̈̈n.

Corolla with a long, slender tule ; loth borders three-parted; inner resupinate. Anther donble, nakel. C'apsule three-celled, three-valverl. Deeds mumerous, arillech. Embigo simple, and fumished with both perixpormand vitellus.

1. H. corouctium. Limu. sp. pl. ed. W'illd. i. p. 10. Könị̆ in Retz. Ohs. 3. 73.

Leaves lancedate. Spikes compactly inbrieated; seginents of the cleft lip of the eorol semi-lumar.
(iandsulimm. Rumph. Ainh. 5. t. 62. f. 3.
(iornk-natha of the bengalees, ulso hy them ealled Doolala-echampa.
A native of various parts of Bengal mud the neirhbouring provinces. Flowers during the rains; and the seeds ripen in the early part on the cool semeon.

Roof horizontal, peremial, roumd, flesly!, mathed with ammlar eicutrices, ubout as thick us 1 man 's thmon, fleshy, with fibrous ramifications issuing fiom the cicatrices ; laste simply herbacens, Stems erect, from three to fiour feet high, rombl, every where covered with the slums of the leaves. Leaves sessile, altermate, hifinions, limerilite, tupering ion an evaneseent point ; above, a deep smostli sreen ; below; striated, pale, amd slightly covered with depresced, soft, white lairs; from nime to twidve inelins lomr, mat about tivo broat. Shealhs smooth on both sides, strinted, terminating in a lirulated proces, (as in many of the grasses) which is often twoparted. Špike terminal, solitary. erect, linem-ohbme, abont the size of the thumb, compactly imbrieateal with many large, uval, concawe, grem, common, pemament bractes. F'Vowers harge, pure white, " Fery tragrant, from two to four to each common bracte, but seldom more than one or two expand at the same time. Bractes; bexides the common exterior on's, already mentioned. the are as inany interior as there are flowers in the fascicle ; the laresest of which is abont lanf the length of the commom brncte, and envelopes not only the most forward (exterion) flower, but all those of the same fascicle, gradually diminishing in size; all have a shathiner hase, are membsumen, mad
 striated, half the length of the tube of the corsh. Corol mencetallerl. Tube long aucl slender, from the apes of the exterior bractes reenved. Border that, donble. Exterior three-parted; divisions equal, lanceolate nente, membranacems, trinted. Inforior reanimate, three-parted; lover two divioions oblignely oval, short-clawerl; upper division broal, obeordate, bmmer like, with the fissme decp, and the lohes romatish; margins waver ; towards the base tingel yellow. Nectar" (of könig ant letzins) two short, the hy, subnlate hodies embracing the base of the strle. Filament from the lown margin of the month of the tube, between the insertions of the imer horder of the eonol, aseending; upper side chamelled for the style, and inserted into the antloer a lithe abowe it: hase. Anfber linear, sub-erect, two-lobed. Germ ohsoletely three-siderl, three ectled, with mums ownla in anch, attached to the axis. Style slender, in length sufticint to elewate the large, laniry, pertoruted, ghudulne, green sitigma just nbont the apes of the muther. Capsule oblong, therecelled, thee-valved, prening from the apes ; inside orauge colonred. Seeds many in emeln cell, invested in their proper, multifl, erimson aril. Iriteguments two. Perisperin and vitelles together conform to the sead ; the former orempes the lowire nme exterior portion; and the later the upper and interior portion, and is in immediate contact with the cmbryo. Embryo simple, suboylindric, nearly as long as the seed.

Obs. This, to me, is the most chaming of all the plants of this untural order that I have yet met with; the great lengrh of time it continns to throw out a profusion of large, beatiful, fragrant hlossoms, makes it particularly desirahle.
2. H. farum. $R$.

Leaves browl-lanceolar. Spikes terminal, imbricaterl. Bracles about four-flowereh: interior two segments of the corol linear: liz obeordate, with apex ilemply retnse.

A native of the vallies anongst the hills near silhet, where it is ealled hattia-rityam by the matives. Flozering thme the miny sensom.

Rool tuberous, like that of most other Scitaminere. Slems erect, two or three feet high, and rather stout. Leaves lanecolnr, very tine pointeil, sunooth on hoth sides. Sheaths smonth, with a very large, smouth membranseous stipnla rising far above the month. Spike terminal, solitary, erect, oblong, imbricated ; from six to eight inches long. Flowers mumerons, largi, yallow, wesmbling those of II. coranarimm, fincrant. Bractes; exferion between oral und oblong, rather ubtnse, smooth, flatly nerved, three or four-flowerect, alount two or two and half inches long and nearly one and a half brond. Sntesior, one to each flower, and meh simaller. Caly.r superior, nearly as long as the fube of the corol, memhranaceons, inflated, obligmely two or threeteothech. Corol; tube sheuder, lengeth of the exterior bunctes, all the five proper segments of the honder linemr, the inner two more deply

* I varicty deply tinger with yelluw, is fund in sume of the interiur porinecs; and anothor of a pale yellow : all aro cinally fragrant.
entonred and obthse. Lip or sixth segment, obeorlate, deeply retuse, placed on the intmine Page or upper side upposite to the thament. Filament linear, and tugether with the two-bhey Curey anther about as lomy ats the lip. Germ hary, three-edled, with mineronts orula in each, 1. attached to the imper ampe. Style lemeth of the enol Stigna lurge, and villous. Cop- 13 "nle turbinate, sian of an alive, smoth when ripe velluw, three-edled, three-valved. Seeds a few, muoth, bright deper rel, with a partial vatyetl aril of the same colomr. Enb.yo siuple, sul-lumeeolate, fimmined with both perisperm med vitelhs.*

3. H. angus.fifolium. R.
leares lithar-lameendate. spikes open ; fascicles of thowers subtern, sagments of the deft lip ehmonz; the other tive segrmente of the corol linems.

Beny. Bhov:ala.
Native of Chittarngy, silhet, nud the eashan parts of leengat, where it Huwers about the berimint of th raths, in June.
forof tulx runs, horigntal, iominted, de., as in the nther scitaminems phants. Stems eremt, from thret to mix feet hish, entirely invested in the shathe of the leaver. fances hifurinus, sezale on their ankuth thenths, iurrow-lancenhte, wery fine, I mis say filitiom, phinted, smonth on bith sidew; from ten to fomrten inches loms, by me to iwn hromb. sipike termimal, ereet, ricild, from six to eightoen inches long, emthth. Fascieles of flowers


 sim. Catyx shleri ir, evlimitic, mench of the the of the eorol ; month equally thees-
 limar (anb-filif rm, ) warionly revolnte. Lip literal, with linemr, chanmednd mad twarartad I amina; the stgments therentsemi-oval. Filament opmosite to the lip, aud twice is - hompth.


 apex of the mather.

Notwithanding the minion which the di-tin-ti-hed Botanist FAwards (in hiv Bot. Reyiv(.) hat exprescal, 1 am hel tossupect the H. coccineum of sir J. smith (Resis new
 Ifthy my inestimable frimd and predecensor, Dr. F. Buchanan at the Butanic garden at ('alenta.
4. H. gracile. $R$.
T.eares lancerhar. Syikes temminal, mpen: floaers anlitary schtereal ; sigments of the


Khasee name, Kinflia Laply 2

 rain! wanm. Ity sulitary-thowred sikn of whit, mold with their scarlet filament, and its


## 




1. K. Linla=g, Limn, sp, yl, at. W"ild. 1. 15.

Leares a mate, rombi-ovate enordate. Epikey central. Cpper segments of the immer Brathex of the corol nail.

Mpinia sowilie fors in Rele. Ohs, 3. p. ni?.

sizne. Chamlramor that.
 miny ar:mom.



 lide in the earth; in short they me ouly celindric shenthe combacing thene within, and the
 mill, cteel in sumbll fasicles. from is to twelve, within the shoathes of the lervere, expmutines in whe saion; purp, pullucill white, except a pmrple -pint ons the centre of ath of the divi-
 within at the sides; all are linear, acme, membranaceons, and half the kenght of the

[^1]Pago
 Luth thee-pmeded. Fixterior divisions limear, ucute; intrior, upper two divisions orate, freet ; muler ont expanding. two-purtert, with lobes bifid. Filament short, apex two-parted, and recurvel. Auther rephete with white pollen, crowned with a bitentate crest, or eontinustion of the finment above the anther. sfigun fimmel-shapere. Dectarial filaments of Könige I wo, filiform, crect, pretty lotig, embracing thelower part of the style. Pericarp; 1 never *aw it ripen.
 aromalic taste; the IIondons use them mot only as a perfume, but ulso mediciually. They are menown tu onr hest julges in Lombon.
2. K. rofumla. Liun. sp. pl. ed. H'illd. 1. 15.

Leaves oblong, coloured. Spike ratical, appeaning before the leaves. Upper segment of the imere bereler of the eomol lanceolar, and aente.

Mnlan-Kıa. Rheed. Mal. 11. p. 17. 1.9.
Suus. Bh(к)-chmириєの, See Asiat. Res. iv. 212.
Beng. mud Tlind. Blwod-champa or lhhon-chmmpa.
'Ihis elegrat plant is vory generally foumb cultivated in gavdena on accomet of the beanty and tracrance of its tlowers, und thongh no doubi a mutive of varions parts of India, fet I canmot sily where it is muligemons. Flowering tinue in our gardens Darch and April, at which perion the plant is totally destitute of leaves.

Root biemial, tubrrons Sfem none. Leaves ralieal, petioled, oblour, waved, smonthe gencrally moturd mudernesth; ubout a foot long in a good soil, and from fonr to six inches broal. Pelioles sheathing, mited intor a short stem, as in Curcumu. Scapes juat sufticiont to elevate the fowers alhofe the eath, embruced by a few common sheathe, of a gremish purple colour. Flumers sessile, from four to six to the sempe, or spike, very large, fragrunt ; colour of various slates of purple, and white Bractes two fo each flower, aurrounding the base of the germ ; the inner one has its apex two-parted; the exterior, or longest is here only abont half the length of the calys. Calyz: above, ome-leared, as loug
 purplislı colour. Corol; tube long, slender. nylindric, nearly arect, obligucly funmeshmped
 with nurgins involntar, mae white. Inferior border, the two nppermost divisions erect, lanceolar, acoute; eolour aloo white, with the marcrins slightly tingerl with purple; the remaining inferior one is divided into two broad, obeordate, deflected lobes. of a deery purple colonr, partionlarly towneds the rentre, and luse. Declarial filmmouts of König as in K Galanger. Filampit short, erect, brond, inserted on the bise of the uppermone two interior divisions of the erornl. Anther linear, and enlarged with an ovate, two-forkend, colonred, somewhat recurved crest Giermenate. Slyle filiform. Sligma fmmer-shiped.

- Obs. W"ontrille observes, at pare 302 of his Medical Botany, that the ronts of Zeifoarin longa, and rolemela are both prodneml by the same species of plant, amb are indiscriminatoly used in the shops: the formor, he says, ure bromght to us in oblong pieces. about the thickness of the little finger ; fwo or three inches in lemplh, bent, romph, and angnlar ; the lattor are romelish, about an inch in diamefre, of an a-h colom on the nutsile and white within. I have nerer met with mery of the roots of this phant that agree with his description of the long sort. and they are foo small for the romblat so that I mast conclude they are the probluee of some other plant at the same time Dr. Woodville s observations ons the same page, cive me reason to think my Curcuma Zedoarice may be the phat, which yiclds this romed sort of Zodantia.

3. K. augustifulia. $R$.

Leaves rudical, linear-laneenlate, waved. Spikes hid in the eentre of the leaves. [ppper two segments of the imer border of the enol linear, oblong, obtuse.

Hind. Kimpinu-hoora, alon Madu-nirhisha.


 striated lengthwisg, with darker and lighter coloured erreon, sinooth in every parf from six to right inches homa, and nbont me brome. Spites hid in the centre of the leares, bearing from four to six luroe. benntifnl flowers in sucecssion. Bractes two or three wo ench flowe ; one or two interior ambrace the germ haterally, the exterior ome is larger, all minch pointed, and of nearly the sante length. Cely.e superior, one-leaved, hatf the lenpth

 above the earth; borde; donble, fre, ns in K. rolunta. Nectarial filaments of Köuig, slamens, and pistil as in tho lasi proted species.

Obs. 'I he root is used as a medicine for cottle, by the prepule of Bement.
4. K. panduraía. R.

Teares petiolet, broat-lanemolate, smooth. Spite entral. Corol, with the npper segments of the imer border obovate, the inferior ome much larecr, and pandinforms.
 to quote Munja-kna, Rheme. Mrel. 11. p. 19. i. ii., nlthongh veforred to already by Limmeus for Curcumar rolunda, a plane l ham nevere wot with, if this be not it.

From Snmatm, this lxantiful plant was acht by H: Charles Camphell to the botauic garden at C'alcutta, where it blossoms darins the rain:, chielly in Aurust.
 stmight，dender，fuwitorn，p：ler colnured purtione descend deeplinto the anil．Ste ns
 acute smonth：depper areu on the upper surface ；wins paralhel，and pretl！concpicums， from sic totuche inches loner．Petioles alome the hifit lienla，de ply chanched，and from
 stem．Spike hind in the centre of the sheatho of the lawee，milatemal，being inhricated on
 pairs of（exteriui and inferior）scatos or brath－Flowers prety lame，expmuding in


 （q）
 and of a much deeper colomr．Fillament very slember．Anther two－hbot，and crowned

 portion of its margin threstoothed，and the sani－circular unt even．Sertarial sathemp and slemler．

## 5．K．oralifolia．Roxb．

Irates ovnl．Spikes central，crivt of anther－laciniate．
 Fstanic garden at Cillonta，where it blewams in Juls．It i－an intemberlate flecies，both with rejpect to size and habit，betwen K ．Gal magi and rafonda，amel waght to be phaced letwern them in the $x$ stem．

Root tulemous，as in the other species，and almut bimbinl．Neme wers siont ； 1 may









## ClRCUM．1．Lien，gen pl．ut sicher，No．A．

Corolla with both bordara thero－parteyl．Auther domble，lase hicalamate．Capsule
 and vitellus．

## SECT．I．Suikis luternl．

1．C．Zemumbet Roxb．Ind．pl．S．N．2014．



Hind．and Ti liang．Kuchora．
Beng．Shuthee，libelloura．
fers．Zarmmbard．
Kus，Thetel．Mit．rol．11，p，13．t． 7.
Zarmmetwl．Rumph．Amb．5．p．16s．t．（is．
Antomum Zerumbeth．Kon，in Retz．（iber．3． 55.
Zommbet，or Cochom of Garcias．







 shatl，nul wam litteriah，spiey taste．From the bulbs chictly，thu proper tibrous roxts inith：some of these are thicker than nthtrs，penetrate defper into the suil．and end in an ohnge，parl－coloured，swlid tulter ；which is more spomgy nal lese fragrant when ent．than










Pago
its apex is elesated mearly a font above the surfinee of the earth; encered mith imbriented,
 those immodiatrly abovi, forming us many sacks, or pouches as there are bractes; the lowe half of these ure broml, shorter ; soncely tinged with red, containing eaneh ahout three or fonr bantitin, yellow, Fescile thowers, which expand in succession, aud are ambriecel lateratly by their own proper, smaller, short, eolomeless bractes. The amperion half of the large colured oures, which form the tufta, we generally starile, and of a deeper erimann, or purphe eolonr, than those which contain flowers. Calya supericr; senterly onethird the homerth of the corol, irrecrularly threr-toothen, pellucid. Corol fumel-shaped. Tube

 Inlevior there-parted ; lown serment, or lip, browl. derp jellow, projecting, recurved, lifid;
 short. Anthe donbto. the lower cut of ench lobe temninating in a lone, shapp, subnlate spmr. Germ beneath, hary, threcocelled. with many ovalis in each, attacheal to the inner
 two-lobed, crowniner the inther. (apsule ornl, smontly, of a pale itraw-eolour, thin atul
 are ripe the alestibity of the sengenta of the arils bursts the vertex into various portions, from whenco the sedels are soon cxpelled. Seeds sevoral in ench cell, arilled : slape vinions, but the most prevaling is oblong. Aril ent to the very base into several slember, meqnal, white, fushy segments, whieh are mitut to the seed romul the umbiliens. Integuments two; exteriar spongy; with highly polished slipjery, light brown aurfaee; interior mentbranemens. Perisperm pure white, hard but friable, and openpies the lowor latf of the soed. Titellus clearer, lint less white and of n tonchore consistence than the albmen ; it
 to be clavate, both ends trmucate, the mpuer half lodged in the vitellis, and the lower in the albmmen, or perisperm.

Obs. The dry ruot powdered and mixed with the powalered wood of the Crsalpinia Sirppan makes the red powder ealled Aberve by the Hindoos, and Phag by the Bengraleas. It is eopionsly thrown nlont lyy the mative dmone the Ilooli, or Hindoo holieligs in the month of Mareh. The root is also nsed medicinally mangest the matives.

In 1805 , I grae some of the slical nud dried limbons, and palinate tubemus ronts of this plant to Sir Joseph Bank, which he gmo: to Dr. ('onl), who fomm that it was the real Zedoaria of our Materia Medica, mal hy the same menns useertamed that the root of ny Curcuma Zedoaria, is Zedoaria rotunda of the shops.

## 2. C. Zedoaria. $R$.

Bulbs smull, nul, with the long palmate tubers, inwardly yollow. Leares broad-lan. ecolar, sessile on their shenthis, cericrons underneatli; the whole phut of a miform green. Amommm Zedoaria, Linn. sp. plant. ed. Ïlld. i. p. 7.
Suns. Vuna-huribra, Sholeo, Vumaista, Sholika.
Beng. Junglee, or Ban Hahdi, (witd turmeric.)
Arab. Jedwar, or Zalwar.
This bemtiful speries is a mative, not only of Bengal, (and common in gardens abont (Aalenten,) lun is also a native of Chim, and varions other parts of Asin, mel the Asiatic islames. Fowering time the hot somsom, the laves appear abont the same period, or rather after ; for it ia not mommon to find the henutiful, lnrge, rosy, tufted spikes rising from the naked earth before a simgle leaf is to be seen,

Root hemmal, tuberoms, fe., us in the last, and inwardly of a pretty deep yellow colom, appromehing to that of turmeric. Stem $n$ on other than the sheathis of tha luaves. Jeares pefoled, broad-laneoolar; entire, underneath covered with soft cariemus down, which is pratieularly conspionous whom the leaves are diy. The seape rises distinct from the leaves fluring the dry season, and of ten not only at some distance, lant also sometime before then ; it is romul, as thiok as man's fore fincer ; few inehes long, and combmect hy its own short, proper. green! sheaths. Spike from six to twoler inelars lones, dee exnctly as in the last speries. Bracies und ealy as in the before-mentiomed specis. Curul me-petalled; at the lmse tubnlar. Tube short, widening a little: ita month shat with fine jollow pubusrent ghands; throat muple. Border domble; exterior of three pate pimh-eolmment, ereet, ohlong divisions; the upper one more pointel, uml inemblent over the antler and part of the two upper divisions of the imer border. Inferior somewhat ringent, thren-parted, fleshy, yellow; the lower lobe or lip lougest, obovite, entire, projecting with a crown aud erect margin, while a broad clevation ot a decp yellow eolour rmis nome its midulle ; uper two divisions obovate, and with the upper secrmont of the exterior border, fominer a complete eovering or dome over the snther. Filament short, insertixl betwew the two upper divisions of the immer border of the corol. Anther two-lobed, carh emding in e lomg, shatly spur at the lase. Ferm inferior, die., as in the lnst. Style filiform. Stigma therelobed, with a perforation in the mentre.

Obs. Tho plant when in flower is hichly omamental, few surpassincr it in bennty; at

1)r. Woorville's ohservation and quotations, it pare 362 ot his Medieal. Botemy indum me to think that the roots of this plat tue not only the loncer speceles of the Zedoaria fonsed in the slopes ; hut also the shorter or romblish, theis form and size depending on the marner in whilh they may lave been ent for drying : and I have lately learucd frow Sir J.




 fart of Indis, where I hate bexa, to shlaw me t, thiuk, any guantity of thems can ever be collectal for exprortation.

## 











## 4. (1. eliefa. I


 all untima inval.





 (H)


 is alcut -



## 5. ( ${ }^{\circ}$ cesit $R$





## 



 the lat be














## (i. I'. Actergiancoser. Is.












 fisur the aix liet.

## 7. (!. Firruminotr iR.



Page Carey
Led.
 appear firt in the seasen ; wherens it is sempedy to be observel in the lother. The flemers
 brecless to the fertik part of the spike femmentors, those of the come few, and of a pretty lwight eximstm whatr.

## 8. C. rubueseens, $R$.

Bulbs ovate-lanconlate, and with the petmate lubers inwardy peaileenthmed. Leares brond lanecolate, on red winged petioles, nhowe the sheaths; rib ret. Sicape and seales real. Flomers lemper than their hatetes.

A mative of Bengat. Floweringr time the mome of April anct May, sexh after which








 the leares, which like them, decay ammally ubout the menth of (letober, and aplear arain when the Howers hexin to perish in $\mathrm{A}_{\mathrm{p}}$ mil. Leares hifanions, (six on eicho of them fimming



 projerting process on the inside mark , in all this nathat ormer, the finnt of the theath, and




 its month completely shat with three villons, sellow glame. Fint mot seen in a ripe state.

 pinnalifida, which the matives of the eomeries where the planz grow, prepre and eat. In
 lavere part of the diet of the inhabitants. Il: "angustifulia is amother specius nhell vid!ls
 alco, and epmally rexed.
 phants of thee other surts, all emplogel fin the same purpme.

## 3. C'. comaisa. R.




 at Coalcutta, where they thive well, and himomem in May, :1t which time it is ly fier the mest beantiful, and the large ist of the ge man, I have red -icell.

















 nud rubbed on a stune, or lent in anortar, aud nfternards rublued in water with the hated,
 Then, (fernla.) drivel for un.





 In the structure of the trat it aser- perfetly with that wi C. Zotumbet.

 lar. Floweres lomeer thata the bracies.

Tliko t the thmone.


 alxom th lef cimine of the cone ofann, in Nowember.





















 the matices.

## SEC'T'. 1I. Slie a coutinl.

[^2]




 of the fiesh rout, are phated us the lups of the ritere, at alrout cifhteren incles, or two feet


13. (?. - 1 madr. Re

Bullas conic: und with the mermute tuteres, insardly pule prlluss. Seares lonar petiwhed, hroml lanceolate, sumenth. Npikios scmanty, few-flowered. The whole phant mifirmly greetr.

 Bengal. Flowerine time the later pant of the rathe.





 Neeny abont the cond of ()ctolere, and mpear agan with the tirst showern of duril or May.




 margins mated to the batek of the two next alsole, forminer a pench, for a fascicle of four or fire, rather small, wellow flowers, which expand in stecension; these have rach a propere


 in the other species. Germoral, hairy, three-eelled, with seremal serts in cach attached to their central receptandes.
14. (.. rividiflurer. $R$.

Buelbs chomer, and with the palmate fuberes inwardly of a dee prodlow. Terares long-


 bell sent flants to this garlen, where they grow luxuriatly, and hemam in duly and Augrist.



 only paler. Flomers smatl, very pale rellow.
15. C․ montenn. (inom. pil. 2. N: 1.1.

Ballos conic, with pale-pellam palmate tuters. Leares shont, petiolet, oblong. The


It errows in moist plates, amonyst the Cirear montains. Flowering time the rainy setson.

Root furemial, consisting of conical bullos enveloprel in the remuining shathe ot the





 Gong ; the lower luitt of the hase of the two imere are mitad to the margins of the next




 romdish, border wawed, and a little nothleth. Filament nu ather than the midde sergment of the upher lip of the interior horder of the comb; centleer two-lobed. lineme, the umber point
 the nithal two nectarial boties, whel in this specees are larger; stigma large, globular, wolipperl, somewhat marked.
16. C. reclinala. R.

Buths finsifom, with scarcely any palmate lubers, lmit many stran-coloured, oral, perre dulous ones. Learess petiolecl, oblongr, reelinate

Diseorered hy H. ' 1 . Colebrooke, Esty in the interior parts of India, where it blossoms during the rains.


 plant at present in my possession, from which this decerphtion is tukent) : fome in mulner. two on each side of the spike, embracher it clowely, with the lower sheathing part of their petioles

Pertimat, whome, acute ; margin- lighty watal ; smonth on beth sides : hagh, exelusive of Page










17. 1. extivlata. If.




 chtta, where it bamsente in Ansllst.
 of the leares. The spiku is central, us in the other lerte themering apecies, it- comen small, and of a lilae colour ; the bractes w? periectly mited alumet to the broad, remiform apex,


## 

Corolla with ilu interi or berker milati te. Anther dmble, amountenl with an entive,




 lubal. Crat lirec-lubal.


 is Iprit.




















 folver. (ierm hementh, dewne, ant er whel with the two metariat arates, withit the hase of the tule of the empl; in this sperem thes are -hert. und transent.
 subntitute for the true (arda) somu is ot Mahbar.






 diffu-la antrons, but phasant irementic - matll.





ए2ge


















3. A. Moulretum. If.



 ripent theip aced in () etobre emt Fovember.





















 Ramp). Amb. (i. p. 1:3). I'adilions membmatarous. Seets many in each ceell, naal,





 diecetly to tho moldilens.
t. 1. mतांख्यासm. $R$.
 Bracless lancoolate. Lip alliptic. Coronel ot' one semi-hnar lobe. Cepsevies romul, ninewingul.




Root thberons, as in crincer, but mand larger, and with larors, conical Imblb-like bises









 tube of the corol; month three-touthed, Corol; tube tumucl-shued. Exterior borter three-












j. 1. de tllatmon. $R$.




A shotr|y


























i; A. $s+1,1 / R$.


 wh: $1 \%$ It raw


















## 

di, n). Moming li. जlit





 similar is thir blsel and spley thautr.

Phge
Konl twherons, raming for a sinall extent at in small depth under the surfine of the soit,

 demaly, ull are apered with the shathe of the lemves.







 valuded ore the stamina, and wighm. Lif marly romal, and madividel. tingel with red





 of the med, its apex pacoing thromern the erntre of the vitellas.
8. 1. seriecum. $R$.
 olxovite, losse calcarate.












 length of the seed, and firmished with both provisp mand vitellus.

## Y/ACIDER

Corolla with the interior horder milahinte. Anther domble crowned with a simere, horm-
 [he, and furmished with both perisperm and vitedhs.

## SECTI. I. Spilies rinticul.

I \%. officinat. Roseon in Tirans. of tima. Soce viii. :3As.
Leares sulb-sessile, linem-limecolate, smouth. Syitics clevated, oblong ; brackes acute. I.ip three-fohed.

Amomum Zingiber. Rimn, sp. pl. rel. Willd. 1.G.
Stus. Ardrukum, shrournscrum.
Atal. Zaniminhit.
Breng. ant Hind. Ahrake, or Aden. The dey root Soontha.
Trliney. Illam.
Inselii, sil Insolhi hana. Rherd. Mal. 11. p. 21. I. 12.

This plant is miverally known, and antivated wer al the warmer parts if A Ai: ; where to be tomal indigenoms ! knew not. Flowerine time the ratuy semeon ; lut it is very racely














 lodgral just under the apex of the hornlet of the anther. 'this fanmes plant is too well known

## to require any further diveription.


Page



Kitm-Mnschi-Кna, Rhat. Mat. 11. j1. 27. tah. 13.

Zinzilar spurimis. Kiom. in lietz. Obs. 3. tio.
Pirnf. Butelh, ur mahabmer-butell.
Fomad widd in the wends alout calchtta. Fluwering time the rany semson, the seeds ripen in Sownturanl Downber.













 with lome, di-tinct hairs.




Aoms. V'unts Iraliokisell.


 in Nurember and leeromb $x$.





















4. \%. ruxenm. Liuscoe in Tirans. of' Limn. Sue, S. 318.
 cerlate, colommed. Lije cutire.

Tating. Bumacethtico!.


















Ohs. I have not fimmed that the mowes matc any nse of this plant.
j. \%. ligunlatum. $l$.
 vate. Brarles comaitirm. / ip shl)-ha-tate.

A mative of 1 lindexathan, Flewnime time in the Botanic gardan the miny stasom; the sededs ripert in Now miner :and berember.

Rool jointen, rmang hazontally nt some deptla mider the surface of the carth, and

 Leaves altarnate, approximute, bifarions, sessile on their aleathe, from combate ixelow to lanceohnte townod the top of the plant. Weth sides smonth, and marked with parnllelen weins, the meler side paler grean, lebeth from three to twelve inches, and breadth niout four. Sheaths
 growth of the phat beromes hitid, and hy are searione. Spikes radieal, half hid in the earth,

















(i. Z. mhens. $R$.
 straipht. Lip murwo-vwate, nufire.
 the phants to the Rotanice farden, where the hlowem in Inthat.



 stems, where they join the root, halt inmerel in the arthe shboberate, tistigiate lanty








 and ciliate. Corpsule
7. \% squervosum. 1 .
lecomes lameolar. Spites sumarose, half immorsed in the earth. Brarles linear, with


 from buth the sects and roots arew fredy, and the latter blosiomed in Angnst.



















## 


 with wal, cmarsinate hathat

 from the in howamel abmukatly.











 infonhbenlifurn.

## SLC"I. II. Sy ilios termintl.

## 9. \%. rupit,trom. Is.

 fintill : lerte for hat ce dite.



















 emveloped in a derply jaseral, white aril. Perisperm contomen the the lowe hatf of the sed




10. \%. maryinatum. $R$.


11. \%. rlotam. R.





 hatenc, straisht, from four to fire firt high, inchoting the spike. Lenter hitarions, linear,



 with lancertute, one-flowered bractes, which ar" un inch ant "hatf lomar, and a litile imiry on

$\qquad$


 only eonsiderably lomere ; the colour a tolerable bripht, lively vellow: shamian with a showt






## CUSTLTS. Schort. !gen. No. \&


 colled. Sceds numerons, mrillech. Einturgu simple, Hut fimmished with luxh perisperm and vitellis.

1. C. speciosus. Suth iu Truns, uf Jimn. Ser. 1. 2.n. Limu. sp. ph. wed. If:lld.1. 11.

'l'jana-Kuı, Rheed. Hul. 11. p, 15. f: 8.
T'simus spuciow d. (ime 1 O.

anoms. Kemouko.
llinel. and Beng. Kéo(o).
Banksia sprecioser of Dr. König, See Relz. Ohs, 4. 75.

 the wet mansor.
 to shld : the chice diffintures ane.
 spirally disposed up and robind the stem.

2id. In this the spike is at ull timere erect, amd rivid ; fiom alout three to six ineles long.

3red. There is uothing like in erown to the anthers ; :mat,


 König. 1 impute his not takims notior of the two later lips of the -tigma, to his hasing examinal the thowers sometime after they were gathered, when they coalesere
 decm wholesome, and nutritions; the dry ront dow inot at all resemble the Coashs arabiens of the shops.

## ATPLNLA. Silurel. gen. No. 5.

Corolla with the interior homber milahiate. Auther domble, uaked. Cropsule lerried, thuee-relled. Seeds $\mathrm{f} \cdot \mathrm{W}$; or m:any, arilkel. Eimbrgo simple, and furninhed with both perisperm and vitellis.

## SECT. I. Influrescence terminul.

1. A. Gntangr. Limm, sp. ph. ed. Willı. 1. 12. Rowroe in Trans. of Limn. Soc. 8. 3.\%.
 late ; apex bitinl. Copssule olswinte. simonth; seeds lew.
(inlauges majur. Rump,h, foml, 5. 1. 6i3.
 vucha.

Hiwd. Koolingin.

 Botance sadell near calentta, where the phats thrime remmekally well, and are in bosom November.


 at least more durable thm those ot herbacenis plantso nearly ared, wombl, smoth; general lemuth, when in thower, nbmit six or seven feet; and as thiek as on temater walking canc:
 less shenths only; they are short-petiolenl, hifarions, lamecolar, umrans white and somewhat

 ot the leaf. Pamicle leminal, feret, oblaner, crowned with mumerons, spreadiner, simple dichotumons hranches, ench stpporting from two to tises, or six, pale greeni-h white, some-























 thrmgh it and printine to the unhtilien*.






 from it."
¿. A. Allughas. Reaseor in Trane. I.inh. ster. S. 311 i.
 rical, (hlack.) ontresalsed, miny speaterl.


Artiss. I':ruka.
Beng. Taruka, or Tara.
 time the legriming of the raing newe us.



















3. A. Uruetrefta. $R$.
 Bratos ETMOH.


 in 11 Precifie thtinitions.

Roul hiemial, or perlops, paremial. Stoms mect, alsut theqe feet high, entirily ine


 iuch long, and deeply chmmellet. She whe smenth, rivin, it lithe alxwe the insertion of the










## 

## 

 sarely thenelabed, with two sime at the hase ; lateral lobes iucureal. Capsules oblignely spleroindal.

Maranta malaccemnsis. Timu, sp. pl. otl. Willd. 1. 11.
(iahnuga malucronsisi.. Rimmph. Amh. 5. p, 176, 1. 71.f. 1.



































 degree into the vitellu*. Radiele inferior, projectings straght from the convex, or under side of the eresent, with its base to the mombiliens.

Obs. This is the most boutiful phat of fhe whole genns, evell surpassing A. nutans, which I beliove the Rotamienl Kepmeitory considers an species of Renealmia.
5. A. mulans. Roseoe in Tirans. uf Limn. Noc, 8.346 .

Leares lancednr, shom-putioled, shmoth. liacemes compomal, hy the lower pexlicels leing two or thre-flawered, dromping. Lip, hrmal, threc loberl, the lateral inenrved inte a thbe ; the exteriou curbed atud bitid. Capsutes spherieal, openinif on tho sides. Seeds few.

Rane:lui: mutans. fudr, Bot. Repos. д̀. t. 360.
(ilobhat metrus. Limn. sp. ph. ed. W'illd. 1. 15. 3.



Root pereminl, tuberons, de as in the other surets. stemex mone or less lent to one


 on looth sides; while yomere the margine villons ; leburth from one to there foet. Shenthes of the leaves smonth, with a stipmary bearden porecess. rising ulsore the insertion of the laf.
 leaves. Incoluce of generally two, ceducuns, lanceolate, boat-shaped sheaths. flomer's uu-
















 wholle veir minlid.
6. A. matich. $R$.






































 sud lificl.


 atul hi cannus in Mareh, April, athl Mas. But nurre or lims ill the var.








 Corul with muble bernles. Exterior three-cleft; dicistuns mphal, lim, exp, exmbing, pellucid,

## Pago






 sluperl, ciliate. Vertarial scates nearly foursiden, with iplices cremulate.
S. A. spicata. R.


 ing time the cluse of the rains.

Root us in the othere speries. Stems arising in an oblighe direction to the hicirht of








 allow me to nstertain its form. Filament lurt, anther large, of two, lang linemr lobe with

 lobes.

## SEC'I. II. Inflorescence remticel.

9. A. carlamomem. R.

Sectives from the base of the stem, compmandly flexiese, prommbent. Lip there-foberl,

Amomana repens. Roscor, Willd. aind sommerd.
ELetturis. Rhered. Mal. 11. p. I. 1. 1. mad 5.


Beng. Elachi, Elainlı.
Aham ehedy of the Dababars, of the Malabar Const.
Hil of the Persiams.
Kakulah, alsu) Inl, of the drabs.
Teling. Sana- yalluevi.
C'ardonnm. Butch. Junvey, 2. 336-510, 538. and 3. 22J.
A native of the momeminons part of the Coust of Malubar.
Root tuberons, with mamerons thens tibus. Slems pereminh, ereat, smonth, juined, enveloped in the spomgy shentho of the leaves ; firm six to nime feet high. Jeeres bitarions,

 stipulary process rising ahove the mont $h_{1}$. Seapes sereral (theme on fome) trom the hase of the


 seape, which embrace the insertion of the matme, or hatach; and ond at each of their fomt


 Cood withering. Thbes alemher, ns loms as the caltix. Border donhle, exterion of three, obs-


 side of its insertion and chese hy the hase of the filament is : small aneme hombet, is in mont


 of the tube of the corol. Capsule eval, somowhat three-siterl, size of a smull matmers ; threecolled, three-valved. Seeds many, angular.

Obs. The following acembit of this interesting phant has lately been tramsmitted to me by ('aptain bickson, the Commanding ()tlicer of the district of Whatiol where the Carlomam is cultivited, viz.
" The Cmedomum shroh is fomm in great. nbmulane anmar the western monatans of



-" 'The shrub $\vdots$ sald to be producel its filluws. Belore the commencentent of the perio.
dical mains, in June, the cultivaturs of the Cardomem asiemel the coldest, and most shants sides



 prodncol, aul have invariably been tubl is atrealy stated. They at tribute no other effects to the failinf tree, which may hir welecteld from any -peciec; than such ne nre derivend from its
 flamts I have hranl it lye sme asort dhat the C'ardomun, like the fannel Plomix, would embrge from the ashee if any large firest tree, but these stories were uttered only by the ifnorant, nul are two ab-ard to rephire comment.
"The -lunb comtiuucs to krou in this mammer mintil after the early rains of the fourth vear, in fremary, whin it has reachel it ntumet he isht, which varice frum six to nine feet;

 tion, than lrying in the sum. The trnit is mumally collecteat in this nay, until the s.l centh sour, whin it is usual the ent it diwn, and frenn the trunk other firout arise, in course of the inst mentwon ; which grom, flomrivis, atul are rultivated an heflre. The husk with the seed I hane calleal the lruit, an it cormombl- wit! the native name. 'The seeds are termed the rice, and the temulrils the threach of the plant.




 will theth, and some malicimal properties are locribed to it whan nad in deaction for com-


10. A. purtiona. $R$.

Learis luncelate. Stides ralieal, compart, inl riented. Lip cutire, sul)-phatalic ; Unse spurlesi

A -tately greciee, a native of Sumater, frem thence ant lyy the late Dr. C. Campbell,


Rools lurd and bifarious. Suckers manmern, rumins fur untir the sarface of the














 lithe remment ir mu the axis. Brae of the stgle embracel by tro subulate nectaries. Sigma


## 11. 1. Carlorman wrdiem. R.

L.mers lame lar, ville on mule renth. Spikes radieal, har. Lip ovatelaneeslute. Cap-


A nation of the hitly wantries in the vicinty of sithet, where the plant is called Do.
 temhere, when the? are sathered, athe कoth to the depleve in drues.




 sumenth, yolluwi-ht pink: interior, or inferior perianth tulular, leneth of the propur lu rianth, (iatus nuperine, lengeth of the tuln of the comb, tulnhar, with thrre-twenthec), crikural apex.
 with pr tey hruad curturn hase, from thence tapering to it = mite chbtnst. puint, much lomaer





 Perisperm cunfuru to the seed, white, and frimble, perforated hy a sponey, hrown sulstance
above the cmbryo. Titelles somewhat hyalime, riving an eath side of the perforation like twe

 the ared, aromatie taste of the seeds, indnce to cunchede that this is the phat which porduces the C'ardanomam morlium of the writers on Materia Medica.
12. A. limynifurme. R.

Spikes moticat, linear, mother open. Lip linguiform, hitid; base broml, and siputess ; sides incorver.

A native of the interine parts of Bengal, where it hosenns dhring the rains.
Root peremial, throw ing oft manerous shekers, which rum hoth aboven mad under the shr-

 their sheaths, lanceolate, smowth on beth wides ; from twele to twemy incheo hong, liy fomm









 nectarial bodies, which are in this spleceits bidentate. Sligmee hamer, and red.

## 

Corolla with the intarior horder two lobed, or nome. Filanent wery barg, base talutar, and winged with a cructiom lip. Anther houble, with :un appendix, or naker. Capsule onerodled, three-valverl. Seerls mathy, attacheal to thee parictal ieceptacles. Eimbryo simple, and fimmished with hoth perisperm amb vitelhas.

1. (i. marantina. Willt. spece. plamt. 1. 1:3.
feates lameeolar. Syike terminul, sulrscosile, strobiliform, butbiferons. Anther fourhorned.
(i. marantina. Smill's Firol. Bot. 2. p, 85. l. 103. Ruscoe in Trans. of Linn. Soc. S. 350.

Lompuimm silvestre mims. Rumph. Amb. 5. 150. l. G1.f. 2.

 bronght from Anhuyn. Flowering time, in lemgnt, the miny season.




 heiner wery smath, mal cordate. shealhs half stem-chaping, wnoth, with somi-hnate, propectine,

 even the whote, bave emeh a single, small, hrownish, waik, pointed, ovate bath in the axill; the superiop are smalle amd renerally cmbrace a single thower tath. Fouress shmber, bright-


 rion border, cmeate, and of aldeeper yellow, weflectel were the anterion two divisims of the

 nued into at very long, shonder, incmrent, grooved filanent. Anther donhle, with two homs from each side. Germ bomenth, romad, tubereded, one-e loun as the tube of the corol and tilament, ind lodged in a prowe therein. stigmae fimmed-
 of the lower bractes of the spike, readily vegetate, and thas the phat is abumatly fropagated.
2. (1. iullifera. $R$.

Slems bulbiferons. Leares oblong, Racemes terminal, erect, shorter than the leares, bulbiferous.

Teling. Condar pooshpon.
A uative of the nort hem Circars.
3. (i. orixpusis, $R$.

Jeares ohbung. Panime teminal. Anther naked. Capsule vermense.
Is an mive of the moist vallies in the nuthern Cirears, and thowers during the rainy seasou.

Roots himminl. Stems ammal, bending oblingely to one side, as in the case with most plants of the matmal order, abont two or there feet tong ; lower part involved in an few simple sheathis, above with the sheathing petioles of the leares. Leates alteruate, bitimivus, very
sh ort-petiold, oblong, ending in a tapering filform point, antire, smooth, fintly beined : from










 Inetwern the luber of the anther. Capsut sub- plobnhar, watery, the-thy, one-celled. Sieds uluy
4. (i, ITurr, R.

Tarasoswatu-uhlon=. Riacemes terminal, crect; patieels tern, thee-fhowered. Auther With a m whtrablat ins errat.

II ran ni.tmell imm. Kion. in. flets. ()tes. 3. 10.
Nation of the peninala f Malacers.
5. (i. fencular. If.
 loms, Ant bo, hicatentate:
 rai is 4od io










fi. if. ('1 Mothm. I:-

 cul.s.





























## 7. II, banlutz. R

 स4 hithuilr, w- reqt.




months, which renders this tovely plant one of the most charning of the whole maturnt order that 1 have yet with. The specific nume is taken from the shape of the wings of the filanente
 lumuar. Nems ammal, bemding al lithle to one side; from ome to two fiet hifgh. Leares altemite, Difinious, acesile on their sheaths, lunceohte, with a long, withereel, filitorm puint;
 smonth, keded; ligula, or stipmlary procene trincaterel. Scolpes radical, from three to four inches lons, often sevcral urise from the sume chater of ronts, ereet, envechpect in three or fintr,
 expunding nearly as much, the whole as very lively bhish purple. Ramificalions altemnate, longe, simple, diverging, bearing in suceressimi numerims, ulternuth, sessile, sulatl, lovely purple
 those of the tlowers cordate. Flovers solitary, sem-ile in the axills of their proper bractes.
 halt of the tule of the corol. Corol; tube lourg and very slender; the lawer half, which is indoned in the tube of the culys, projecting horizontally; the mpler hi:lf erect ; at the mugle, which those prortions of the tube make with each wher, aud which is nearly a right one, the flower hrop, leaving thi. Fower half to withers: Border single and thee-pirted; mper division ereet, pressiug ou the buck of the base of the filament, oblones, berit-shaped; lawer two divisions oblignely condate, and reflexed, all the three are of a light parple combut. $L i p$ enneate, deepl? two-partect, much larger than the divinions of the exterior border, depp urauge yellow, forming a pretty contrnst with the lisely purple of every other part of the panicle. Fillament very long, very slemder, on the first diy murd incurved, niferwards resolnte, finely gronved on the miderside for the rechition of the style; neme the bise are two, very houg, slender, flat, submbe, diverging, recmred win?s. In my other six apecies with terminal inhorescence, these are cutirely wanting, but the inner two-lwhed border is presemt. Auther donble, and enkreed at the sides with two, Inome, reniform wing. Germ lemeath, oval, with nine longitudinal ridgres, it trimsereme sections exhibitis one cell only, with munerons seeds, uflixed to
 purple, size of a sumble cherry; fix-ridged, one-celled, three-valved, opening spontanemily from the apex. Recrptacle a longitudinul riden on the inside of cach valve. Seeds many, minme, oblons, villous, comucted by a large, white, spongy membrame to the purietal reecepticles.
8. (t. Spathuluta. IR:

Panicles radical. filamenls, with a apatulate wing on each side near the lase ; anthers semilumar, wineed.

This second, beantiful sprecice, with lurere azare colonred, radical inflorearence, is a nutive
 whs introluced liy Mr. M. R. Anith into the Botmie garken near Calleutti, where it flowers in April, at which fime the folinge begins to appenr. At the begiuning of the cold seatson it perishes down to the root.

P'anceles radical, ereet, oblong, from cipht to twelve inches high, composed of many, diverquing, simple, lemghening branches, every phrt, bracte inchuded, of : pretty, light azare co-
 one to each flower. Flomers numeront, produced in a contimed sucersion fire sexeral wreks on the sane panicle. Perinnth superior, "idening to its three-tnothed momth. Coral ; Inhe long, slender, curreid, und villons. Border three-lobed; lobes nemply equnl and equally arrunged, shape obleng, and eone:ive. Lip as in (i. sulunhata, lont less divided ; yedlow, its in thint
 inner border to the corol, there is a spot nhate, diverging wink on cach side. From its shape the specific name is tuken, nud readily diattinsuidhes this species from sulumate, which it wry ex:ictly rescmbles when in flowre. Anther with a sempilmar wing on each side. Geran ondecelled, containing many ovula, at fiched to three parietal receptacles.
S.ITICORNIA. Schecb. gen. N. 14.

Caly, gibbons like an aril liuing the inside of the cavities of the fructifiention in the joints. Corol nome. Seed one.

1. S. brachiuta. R.

Percunial, erect ; branches numerons, decnssate, joints clubbed. Spifes eylindric.
T: ling. Quoilon.
This seems an undeecribed plamt; nor cean I eolleet what Dr. liönigr thought it was. It is a small, gemerally erect, peremininl speries, growing plentifully on such low, wet, salt ground as is overflowed by the spring tides. Flowers all the year round. It should be coupared with s. herificea.

Stems. senerally crect, woody, atont as thick as a moose-quill, thuugh sometinces at the base as thick us he lithe finger ; from twelwe to cighteen inches high. Branches derussate, asecmbline, wery numerous, divided, anul subldivided in the sanme maner ; their extremities aro the sucenlent, "yliulrice jointent -pikises. Joints of the spikes, or lentese thick, succulent, minnular, capl-like, jurtions: that elusely surromul the extremities of the filifinm, woody, branchlets, like leads stringe of a thrend; ;abeve they are cenlease, with two opporite elevitions, the tower conver cond of the next leaf above enters flis conceavity; these clevations, like the brumelles, are decussated with those of the next above and below, with a ring. Flomerss conspicmous, three-fold, (three on each side of each joint.) opposit.. Caly/r, a flask-like Heshy nubstance, with a longitudiual slit for the stanen, and style; they adhere firuly to one aiother
and to the culstance of the leaf, till the cend is ripe. Corot mone. Sinimens conntantly one. Pago
 rates, und dropse with its -ingle sed.
$\because$ A. indire. Vishl. епкin. pl. 1. 10.
Peremmint, diffose : joints giblurs. Epikes cyliudric ; flowers hid.
Beny. dexlexs L'ilusir.
Trling. (na ia-pipaly.
Thin is also very common, and grows with the former an similar ground.

 ing, or nearly ermet. Juints, or leateo kenger than in the firmer fucice, but in other rempets
 Flomers inemanimous, pposite, threofold, hidl ly the mper manpin of the next thral leaf below. 'rylys atin the tirmer. Simmen; in thit - pecies 1 lave meve been able to discover evell the ratimento of one. Pistil, Sc. as in the finmer.

Ohe. Catte will met eat these phant, althomeh ther tante is simply saltish. Thewe two






 or mure ; provided it could be there importad duts tret.

# CLASS II. <br> DIANDRLA MONOGYNTA. 




-1. N. aifor tristis. Limb. sper. plant. cd. "Illd. 1. 35..
Parlimu arhor triatix. Gorl. Nem. 1. 231. t. 51.

-iralorita trillora. K.ann. M /n/. 1 P. 37.
Mamjn Itmiram. likent. Mtet. 1. p. 35. t. 21.
Seplatic... As. R-s. 1. 211 .




 The serls ripeen in ticc chll rotiont.















 tece any thing likn a peri-perm.








Corol salver－shapect．Germ two－enthed，one－seceded．＊Berries one on two，suprior：Seed sulitary．E゙mhr！n erect．＂ithont perispran．

1．J．Zambires．II Flla，1， 35.
Shrmbly，twiningr．Learex olpmosite，sul）－sessile，from cordate to ublung，acute，or ubtusc． Sigments of calys subulate．Berries glohular．

Miroriman Sambac．Lamarro．Eurycl，iv． 210.
Ot this we have three varieties，viz．
1．st．Sïghle flometed Aratian datmine，which I suppose to be，
Iticmin！mm mululatum．If illd．1．36．
＇T：jineram－Mnlla．Whetal，Mal．f．，p．97．t，55．
Mallica，mud Asphuts，As．Res，4．p．215，are I suspect both this varicty．The first is


Beny．lam－malikal ；or D（sili－mulliks．
2d．Duthle flowered Arabian Jusmine．




Beng．Bela，or mulikin．
Bdt．Crent doubte Aratrian oi Tusean Jusumine．
J3eng．Moot ta－helu：13ura－belin，or l＇atuai mulika．
Kinda－mulla．Rherd．Mol．6．p．s9．1．51．
Flos Manore plams．Rempho ibid．
Septalat．Ane Res．l．c．
All the varieties fower daring the raine chandy：
＇The simble varicty of this plame，（which is the one describect）is one of the most common








 black．Seet womfon to the bery ：internment single．Periperm note．Jintryo（rect．（＇o． tyledons．comform te the wect．Reuticle small，inti ions．

Obs．From this species we have the eommon double ；and rose，or great－flowered，and
 been improved by culture into their present state as abowe moted．
 in the great rost，or fill－flowered sort；here the handes are erect，of sy reating，hut never twinint．

 ans thing like a fixed speceitic chanseter to distingmish it from Zambac，as the number of pe－ talis or divisions of the renol are ineonstant，and in most mank only the variety．

2．J．seandeses．VIll木．1． 37.

 Inistle－shaperl，of the eorol－ix to eight，lanerolate，very atente，neatly the hength of the clanate tube．Stigma hilab：ats．

A uative of the sonthem pats of Bengul．＇lhe pants in the Betanic frarden near Cisl－




 rather lucid on both ides：from one to six inches lomer，and tran half an incht，two inelus



 ing to the month，and mene than twice the leneth of the satments of the calys．Bueder of



3．J．clonyaturi，Limi．sp．pl．atl．II Filld．1． 37.

[^3]
 Siyctanthes domyala. Limn supyl. se2.
I bative of the forests ahmithintrele, near the month of the Iforghly in Bengal. Howering time the lx"天imning of the hut catom.











 coritut nut omm:th.

1. 2. puhersenve. Zinn. sp. 1. el. Will 1. 1. 37.




Sit is. Mr-fymm, kimmtum, sue Asizt. Res. 1. 241.

## Br \%. Kus suda.









 M品

 opemine in sur ain tate it very dacials.
S. J. la if lits. H .







 "It th:






1i. J. colidellim. $R$.






7. J. Mivere. lithl. Symb. 3. p. 2.




A mitive of the forents near Silhet, whre it bles mus in Mareh and April, und the bersics riphti in Jume.









Page
ahont about the midelle of the tulse of the corol. Germ wal, two-lohel, two-celled, with whe ovislum in each, attuched to the partition. Style lengeth of the tube of the coror. Sligma hificl. Ots. The flowers were solitary the tirst gear the phats were in the Botmic garden,
8. I. bructeatiun. K .
'Twining. Lerrees (1plosite, wate-oblong, ante, villons. Fifoures in tomint bracted fasmeles of thre, tive, or cheven Howers. Calycine segments from five to serem, sulmatate; these of the corol from tive to cight, oblong, with rounded acominatue apises. Style fonge ${ }^{\text {r }}$ than the tule Stigma entire.

A native of the i.sand of Smmatra, From Bencoolen In. C. Comphell sent pilanto to
 (rool, and the herriminy of the hot senson; the seed ripens in April.

Stem se:arcely my; breaches mmerons, ligncous, climbing and twininge extending ${ }^{n}{ }^{\prime}$ and over trecs of ' considemble size; tander parts rommb, and rlothed with math, very soft,

 white, frarmat, in terminal tascieles of armerally there, or five, subsessite ones, or gewing on short, axillary brachlets; embraced by one or two bair of hace bractes, and by a menter number, when the fareide teminates a primary bramelat: the addition in this, us in most of the other Indian species, proced in opponite pairs of threc-flowered pedmuches. Biactes on-
 and some small smbulate one within them, all villems, like (wery other tenter part of the phant. Caly, downy. Tube short. Sithents tive, six, wherem, subulate. Corol smeoth. Tube twice the length of the calys, sub-cilindre. Borler of from fise the cight, ohong seg-
 in cach. Style longer than the tube of the corol. Netigme entire, linear, with a growe on
 smooth, suewtent, and of a shining hack colour when ripe, me-celled. Sped? single, oral. Integuments two; eaterior composed of woolly tibres; inner thimer and mure temere, both dark, brownish black. Perisperm none. Embirgo creet. Colyledons coufurm to the sed, green. Plamula two-lobrd. Radicle patelliform, inferior.

## 9. J. latifolium. $R$.

Shrubby, twining. Leares opposite, petioled, combate. Corymbs terminal ; calycine sayments from tive to seven, suhulate ; those of the corol from ten to twelve, linear, and cuspidute. Berries hirlney-shaped.

Teling. Adivi-milli.
To the best of my linowledge, this speeies is a native of the mometainons parts of the ('irears only. It is imech larger than the other speciec, thomgh like them it has a wowly twining, or climbing stem, hat its homelem ure in gemeal struisht and spreal. Branchlets opposite, smonth. Leaves oppwite, petioled, vaminy firm whong to brad-erdate, printed, entire, smooth; size varions. Corymhes terminal, divided hy threcs, diflise. Elomers large white, fragmat. Calyx with as short fube, and seldom more than fivech ft border. Corol thbular ; border from cight to twelve-rleft ; segments slember, mad patent. Borvies one or two ; when single ohbong; when two kidney-shaped.
10. J. tiburescens. If.

Arboresent. Leseces opposite, and three-fold, ohbong, downr. Flowers terminal, mumerous, corymbition, Doreler from ten to twelve-cleft. Sligma twodobed.


Nyetamhes grandiflora. Lowsir. Cochin Ch. 26.
A intive of the more elevated parts of l3encal, where it blossoms about the beginning of the hot scanom.

Trank searcely any ; branches many, stont, wondy, sub-crect, corered with smooth, ashcolonvel bark; yriung shools round, and somewhat villons. Heirht of the whole tree ten or
 acmuinate ; margins intire, and oflem ward, smonth on both sides ; from two to fone inches long, and fiom ont (1) three brond. Petiotess chmmelled, jointed men the mithle. Flomers on terminal, trichotomons, thece flowered pedmeles, often forming lage. corymbition pronictes; thry are large, white, and very fingrant. Bractes subulate, villous. Corlyx erowned with five or six subulate, inenved, villons divisions. Corol; thbe longer than the calys. Border of ten or twehe, somewhat achte, linear divisions. Anthers owate, within the tule. Germ turhinate, two Iobed, two-eelled, with one ovithm in each, attacher to the upper part of the partition. Sligma two-lobed, about hatf way up the tube ot the corol.

Obs. This species is nemrly allied to my J. latifutium, aml indeed the only specifie difference 1 have yet been able to obsere, is, that this species has no tendency to twine or climb; that is twining.
11. J. angustifolium. Traht. en. pl. 1. 29. Limm. sp. pl. ed. Hilld. 1. 36.

Shublby, 1 wining ; polished. Leaves opposite, petioled, on the, smonth, of a shining derp green. Flowers terminal, one, two, or three; corol cight or nine-parted. Berries single, ovate.

Nyctauthes Mrifora. Burm. Ind. 4.t. 2.
J. vimincam. "İlld. loc. cit.

Katu-pitsjegam-Mulla, Rheed, Mal, 6. p, 93, !. 53.
 of alternate laters ; it is very momm, and ut the - me sime one of the most benutitid species nt $J_{a}$-nine I know. It abounds in every foreat on the const of Curomandel. Blossmas during thw hot seasul ; but in a state of conltivation flowers aroprodnced the greatest part of the year.

Stem nut buanches wooly: iwining, sumotls. Leaves phposite on every part of the shrub,

 larci, white, with a faint tinge of rot, starshapeth, having a pectuliar but very pleasant fra-
 norally eight or mime-partet; derisions lameeolate. style short. Etsmar lanceotute. Bervies ablems.

This. I lave for many years mativateal this surdes. It grows eatily in apery soil abd
 dere it always lematitul, and particularly wetl adapted for serecming windows, covering arhome, ic:

1… I. thifformm. R.

 (1) the very lentre shender tube of the corol. Berries onate.

A nation of the Malay Arehipelater, fithem from all the other bulian spocies hithertes "xamined by mo in the freat lenath of it shmer tube, whel is three time longer than the


13 J. sinplicifulimm. Iinn. sp. pl. al. W'illd. 1. 34.






 a leccussate panicle, with its rmmitiotion tritil. Pedicels clavate. romml, smonth. Bractas


 Slifine tworthti.

1t. J. "मriued/t/um. Zimn. sp. pt न1. Wiltad. 1. 38.



Ben!\% Int hi, ow Jui.
 nith a wowhly atem, ame hranchos.
 wanting; the tomimal one ht hast tru or fiftmen time- latetr; all wiate, cmite, with a



 clavate. Bemy caactly is in dambac.
15. A. hinierent riaia. Is.
smulhy, erect. Lemres termute ; luaflets lamemiar. Corzmbe teminal.
A native of the jungles or coppers of -illut, where it homemas in May.
16. 1. pa нийтіны. If.
shrubly, erect, every part polished. Leaces ternute; leafers oval, whueely acuminate. Panceles terminal.

Same veip-som-hing at the chinse.
Firnil ('antom in China thix fite evert, shrulby, highly pelishad sperids was repeiverl into



17. J. chrysenthemum. $R$.
 Coryunhs sub terminal. Culyeior segnatents attemate-


A native of the mometainoms comutrioz uorth of Himloxistan. Colonel Harrlwieke fond it on lis jommey tu Sirinagur, (sere Asiat. Res. vi. 349. Insuinmm, No. 3.) and Dr. Buehanan in Nopml. In the botanic spardun it qrows freoly from coutings, and lemomas andont, ere't ramoux shirnh, even a small tries, withont the smatlowt tundency to lequ, or twine. Flowers more or las the whole sear" ; bint, like the other species, the proper eeveson is April and May. at which time it is the bumt desimhle desmine I have set sephe.

Siens atent umbl wexdy, iu plants se ven or vight ymars uld us thick as at man's leg. Bark






 ly as the tillue of the calys. Sergments of the coral tise, wal, whtue, lengeth of the tulne-
 corol. Berm two-eellod, with iwo wink in each, attathed to the middle of the partition. Style halt the leneth of the tube. Sligher chaviate:
18. J. arcadiflorum. Lirin. sp. pl. od. "itht. 1. \&1.
 comflnent. Peduncios termimul.
('atalunians, or Spanish damine.
Pityjignum mullo. Rherd. Alıl. 6. ह. 22.
Suns. Sommana, Malutere, dati.
Renil. Jater.
This plant. I have only fomad in gardens, where it flowers the sfenter part of the sear.
19. J. Treterophythuin. R.
 lucid, fucly acmminute.

 plunts are yomg the leaves are for the ment part temote afterwats they are simple.

## 

 Difpe or berry superior, one or twosceded. Bimbryo inveres, aut furnislued with a perisperin.

1. P. paniculatr. R.



 drooping hranches, curred with maoth, nsh-ewtompal hath.







 incumbent. dierm abeve, but lixiged deep in the bottom of the culs is two-edhed, with two ovula in mels. Sigle short. Stigmu clavite. entire. Drupe size if an anall Fruch lxan.





 will wot ullow. me tor think they cans the the sane.
2. 1'. rolicatiz. R.
 hes snl-evitudric, me-recded.
 furnishes the matives, \&e. with very furd durahle woxd. Flowering time dume ant inly ; the sed riperm in dumary and Febrary.

Foung shools void of pubermence, bust doted mith small whitish specks. Leares opm-

 round, ant villosts. Flourens oblong, acate, sillons. Craty, bow-shapect, four-texthed. Cores.
 tube of the corol apmesit: th each other. Anthers oblang. Germ superior, durested, twocelled. with two owna in earh, attached to the top of the partition. Stylm and stigme clavinte,
 sncombent, datk olive-pmples sizo of a large trorry, rarel! mome tian one-cellod. Sead solitary, eonform to the lurry. Integuments two ; exterios fithons, mud striatel ; miterior raterer thick, brown, athering to the peri-prin. Perisperm eonform to the sed. oily. Fmbren, struipht. nearly as long as the perisperm, iuverse. Cotyledons latureolate. Jotedele cyliudtio, superior.









1. N. av mple fol a $R$.
$I$ zime alt mate -jमpl : bruall lan (m)late.

 Allytit.




















2̈. N. Pundar. R .
 1.1.!.


















 सy


## 

[^4]Page
 curved. Filaments two, opposite, short. Authers large, whlong, "recs. Fierm :nperion', romad. Slyle very short. Sligma two-eleft ; dirisions entire, arente. Ripe fimit not ohserved.
3. O. dioica. 1 .

Arhoreons, divicons. Leanes opposite, short-potioled, ollong, serrate, Panicles axillary.
Attarjan, the wrmambar mme in silhet, where it is indigenons; also on the hills if Chittaromer. In both phaces it grows to be a pretty large tree, the timber of which is reckoned execllent, and pint to many nses by the matives. Flowering time the month of Murele and April ; tinit ripu in July.
 Leares oppositc', slort-putioled, whlong, tapering afmilly fit each (ond, remotely, and acontely werrate, acmmate, smonth, from tome to sight ineles long, lyy from two to fom broml. Stipules, the owal concave senles of the buds only. Panicles axillary, and oppexite, twow the
 tour-tuothed. Corol one-petalled, tulue very shant; borter four-purted. Filcomentstwe, very

 InTe, and in that "ase all the corols "ith the stamina, mast have fallen wit at a vers enty perioul ; which I have moramon th think was time ase, bs they were eximinal at what I con-

 to the top of the partition. Style shont. Sligma twolulxed. Drupe nearly remm, in ike and
 thin and rather brittle than hard, onceelled. Sed solitary, confom to the mit. Snfegmene
 than the perisperm, and consinembly naroner. Cobledons orate-lanceolate. Radicle anneriur.

## CIIONANTHES. Sched. gen. N. ab




1. C. remiflora. $R$.



 abont six inches. Petiofes chamelled, smonth, ahont an inch long. P'eniches opgrate, from


 monts of the border laneente, with inenred margins. Filaments shont and thick, inserted


 form to ther sied.

Leaves oppenite, short-petioled, obowate, entire, smooth, Raccmes uxilary, often compound ; formers tirnary. Bractes ovate.

Ihnocicra perpurea. I'th. En.pl. 1. 17.
Said to be a mative of Ceylon.
3. C. dicholoma. $R$.

Shrmhy, dichortomons. Leares cunciform-lanccolur, recurved, entire. Racemes axillinry ; pedicels threc-thowered.

Noitive place Coromandel. The Asiatic symonima are menerain. Flowering time in the Botanie gavden the month of Jumell.

Trink short; butk dark ash-coloured, with muny, devated, lighter colnured ppecks. Bramehes rlichotomons, themelhout, very mumerons; haight of the shrubs in the Botanice garden, about seven fect in seven yars. Leares oplosite, short-petiohed, brant-ameitorm, lamcenlar. entire, rather obtuse ; surtaces smonth, textme hard ; three inches lone ly one berad.
 remging, three-finwered. Floterss small, white, imodorms. Caly.x four-proted ; scgucute ovate, obtuse, villoms. Corol, the segments emm sempedy be said to he mited at the base exepp by the fibments, which are inserted on the hases of two, and in that mamer form two pair of regments; they me memly exact, tuper a little, and huve their margins much incursed. filuo ments two, short. Authers large. with bifid apex. Germ fomresided, ovate, tweredlerl, with two ovula in each attached to the middle of the partition. Slyle short. Sligmen ohsentely twolohed. Drupe superior, orul, or short obovate, size of a buele cmimnt, sucenlent, when ripe purple, one.celled. Jut obovate, rather thin, and tender, marked with fonr rihe fiom the apex to the hase, with four small, imperfect oume betweon, one celled. Sped solitury, comtom to the nut. Infegrment single, thin, aud tender. Perisperm anne, Embryo iaverses, Colyledons contorm to the seed. Radicle patelliform, superior.

## SCHIRETBERA. R.

Calg. hilahate. Corol calver haperi. Capsule superior, turbinate, wo-cellext, two ralveal. sweds sweral, membrame-winzi4l.
S. swiplenivides. R. Corum. pl. ะ. s. 1U1.

Treing Mnemati.

## Tom. Mogelinura marum.

A large timber tre, a native of vallies over the montainous purt- of the liaja-mundri















 nilur.





 not - hiturt-rthe:

## 


 fatition.

1. Fi. montumers. $R$
















 oblentr.

Jualirix pulchella. $R$ )xh. Cornm. pl. ‥ IV. 157.

Reill. Kulba-Juti.
Hind. (ioxl-aluma.

 ill Fibiman!.










Page nahi.d. Shamens within the thle.

 storn mowtl.





-1. li. dienther'um. $l$.
 dunched mmbollets. Corol somewhat hilabiate. dafleres twin.
$A$ small dolimate, premental phamt, hronght from the Mohnecas in 1800 , blosstmed in the Botande gilvhell in soptember lsol.

Strm. cumed, simple; brenches few in onf small somme plants. Tecer:es upposite, pedioled,










 podmeled fasciclos of flowers in the axills of the leaves, as woll as in laving fome ome to
 there is onty one ; mat lasty, in having the "plere lip of the corol ouly two-parta, which in that is thasercloft.
J. $V$. retemosim. $R$.

Suffuticose. Leates oldong, ventricose. Racemes terminal ; corol sumbwhat bilabiate, both lipe three-parted.
 chs, in 179s ; and blossonmed in November, 1799.

Stens shall, with a fow, slouler branches ; height ol the whole plant abont two lece.





 Filammis fonm, short, inserted within the month of the thhe, two of them mimute, and abortive. Inthers hall elenet.
6. Ris. herilevioidex. Roxb.



A mative of the Andaman liands, forn whome several phants were bromernt the thata-
 growth.

Stem amd branches suh-eroet, jointed, the youncrev somewhat fombesded, and n litthe lming.


 fiom the bise of the fwo fertile anes. Aulhers half hial in the tube of the corol

JLN゙TICIA. Schuch. gen. NT. 3.3.
Corol one-petalled, irrecnlar.
Capsute suprerior, two-celled, two-valved, bursting with elasticity contrary to the purtition.

## SEC'I. T. Anthers singlen.

1. 2. Echolium. Limn. sp. pl. ed. Mitld. 1. 8J.

太humbly, croct. Spikes terminal, fomr-sided. Bracles oval, ciliate. Corol bilabiate, thbo Gliform; upper lip limear, reflexted, with bipartite upex. Crpsule two-seded.
('inim curini. Rheed. Mal. 2. /. 20.
Mind. Jodro-Jati.
A mative ol our Indian foresls. Filowers the greatest part ot the year.
Stems several, wookly, straight, romul, smonfli, jointem, and swelid ahowe the joints : from two to fonm feet high. Leares opposite, petioled, oval, tapering a little tuwads each



 ('aperid iwnomedint.
… At ? willare. R.



 ary and fedmury, and the seol- are ripe in Mareh and April.



















3. J. vita ína. li.

















A. I. uttrat. $R$.












## is J. pixeln. Lian. sf . p/ ed. Will t. I As.




T:, nde Marmu. Rlieerl. ILal. 6. p. 111. I. 60.









in medicins, aml is the bittur of the fimoms Nontrmm, ealled Drogue amere.

Toling. N"lla-vingeo.
A mative of dry rromm, moler the shate of trees, bishes, \&e. Flowering and seed time, the wot and eold stasoms.




 site par ; within the flowor-baring whe there are two sumbler, embracing the hate of the pediecels. Corol bilabinte. Tube rectrval; lips linear, and retlectal; the selperior broandest.
 ing, hairy. Anthers very flat, obovate, firmly mited at the batse, and three bearded. Capsule ereot, sub-rylindric. Seeds thres or fom in enche eedl, eylindric.
7. .1. eshioides. Limn. sp. pl. ed. Wildd. 1. p. X7.

Ammal, erect, fonrosided, hairy. Leates sessile, deconsente, ohbong and linemr. Spikes avillar, remoed over the hosoms of the leaves, secumd. Capsule oblong, with fund, verrucose seeds.

## 1'ex-1mula. Theed. Mal.9. 1. 46.

A mative of Coromandel, and erverally fomme on old walls, in flow oll the four.
 buse; whole height abont a foot. Leates opposite, derusiate, seaile; fiom oblomer to linear,
 the bovesm of the leaves, and in wencral shorter than thom; in hximinut plants comurnund. Rrocles opposite, small, lameobato, bairy. Floures altermate, sesile, ercet; upuer lip purple, the rest white. Calser of five, long, hairy, (ensitorm divisions. Corol filabiate. Thbe sul)-
 Filaments projectinge, straght, and about as long as the liju of the corol. Anthers simple, mited and homrded ut thr hasse. Capsute ohbong, erect, hairy, length ot the ealys. Seeds gencrally two in (:arlt (ell), obloug, rongh.

太. J. polyspermat. $R$.
Anmml, creceping, romm, jointerl. Leares sesile, lamendate, downy. spizes imbrieated.


Ben! (Chhot:1-michetar.
 caltivated places.

Stems dithise, or crecping, rery ramons, six to twelse inches long. ronnd, jointed, a little downy, Leares opposite, ressile, lanceolate, cntire, downy, doyikes terminnl, and axillary, imbriented with oppusite, deenswaterl, flowors, and brotes. plowers suall, pale hate Bractes three-fold, ont fow ored, the lower one a lithe bronder than the two lateral, all we woollg. Caly. woolly. Copsules lincar, emataning from twenty to thirty, small roundish secels.

Root permmial, stomless. Lpures radical, sesile, ovate-ulnong, crenate. Spiles ascendiug, imbricated. Corol riurent. Cripsules many-seaded.

Elytraria cremata. I"ahl. Emum. plant. 1. 100 .
Toling. N゙ella murn.
Grows on pacture ground, generally under the shate of trees. Floweriag and seed time the wet and cold seasons.

Root perembi:s). Stem none. Leazes radient, surcading close no the gromad, sessile, wedge-fom or ohlong, crennlated, rngose, woolly on the numer side; from six to twelvo inclues long. Spikes radical, several, an lomer as, of longer than the leavos, nsomding, imbriented from top to botom, with suall, rigid, pointed lnactes, each of the superior nus embracing a flower, and two small lateral bractes. Flouers suall, white. Calyx five-leaved, tho superior leathets innch the largest. Corol; tube evlindric, recmred; rpper lip vanltex, under lip broal, three-parted, with the divisions two-parted. Capsules conical, cight-seeded. Seeds kidney-form.

## SECT. II. Corols bilabiate. Authers double.

10. J. nasuta. Fahl. Symb. 2. 15. Limu. sp. pl. ed. I'illd. 1. 20.

Shruhby, ereat. Leares short-petiolend, lancerbate. I'anicle axillary and termimal, Upper lip of the corol, linear mad bitmitate; under lin broad, three-lobed.

Pıl-enlli. Rheed. Mal. 9. $135 . t .69$.
Sans. Ioothika-puruec.

## Remд. Joоі-рама.

Treliag. and T'omul. Namamilli,
This sperien 1 hatr maly finm in garlens: from whene it originally came, I commot say

 feet in lin irht.




 divivions. Pretumelos and pedieds shome, romme, a itth downy. Braches minme. Flourers
 per tip erect, limme, sidh- retherted, apex hithe. flectary, in theshy ring -urmunding the have


 those which are inusined to belener th that chas.
 the ring rorms, or Herges miliaris, which in ludia is a most troubleame disense, and very (т)








11. J. lomerndatin, li.














 tire. Filemente trom the munth of the thlae of the entol, shortor than that lipe, and propecting
 straight line; than extior half' of the powterior une being atached wo the apex of the filamatis, and in the limet of the enterior athere
12. . . splecinser. $R$.













 in the mouth of the tulse of the corol, menty as long as its lapeler, and, with the lower lip,




1s. I. tinelorif. A.
 thers linuar:
follum limlurium. Runph. Aub vi. il, tab. sxii.f. 1.
Beng. Butil-rum.












1 t. .1. biralris. Lism. sp. pl. ed. $\|$ illd. 1. Xe.




A ntative of the Molnerets.
Fulinin linelorinm ul' limiphins, quated mular the prexerling sperises, toes nat so woll
 of thell.
15. I. chinemsis T*ihl. en. pl. 1. 110.
 the petioels (tron there to five), dindichons, imoulueds atrovate, untopal. Cirpsentes romed and thin.
 for thic plant.




 smonth, form one to two inches lomer. Peduncles axillary, from there to the in cacto asill, dis-







 coleh cerll.





1f. J. lulelionsa. Kїи. J/心s.

 onte bidontate. Sreale solitary.

It gr.ms always amuig bushes, or muter thoir shate, in at dry burent soil. prlowering time, the wet sum cold viensoms.





 cell.
17. J. licalyeulala. Kimn. sp. p7. ed. II illd. 1. S1.




J. lienlata. Lam, illwir. 1. 10. 1. 12.f.2. Cavan. icon. 1. 52, t. 71.

Berug. Nis at-hlaga.
Trlimg. (hallorm.
 wet and cold simsons.




 flower in it, whicls often expand in succerssinn.
froper purtimth. Twbe of the corol with n hall twist alsut the midhle; "pper lip narsumet,

 in each cell.

## SECT. III. Corols ringent. Authers doulle.

## 18. 1. Alhatoda. Hتild. 1. 9f.




Sans. Viblyumatri, simghne, Viasha, Vrihu, L'turqusha, simphoshy, Vasooka, Vajijumtukn。

Hiwh. mul Beng. Malius, Vincoukth.
This amell trev or large shrult, is common over most parts of India. Floweriner time the cuhl arman












19. J. बIcusitu. 12.



 Mameh.










 Lower mithir- calatiale.


Be 14. Juctiomalua.

 fuld it is imbinnour on thu Molay L hamls.








 Bram ('urini, Rherd. Mlal. $\because$ p. $3: 3.1 .21$.









[^5]
## Page

bitash, with rose-coloured reins. Calye single, five-cleft; divisims ensifome. Corol ringent; "pper lip wiulted und twotontherl; lower threep:irted. Anthers twin, the lower one with a spur form the lower and. Copsule lonirer thm the anlyx, villons. Deeds two in euch cell, temenig on be romme, rongh with nmancous sharp points.
2... . retmosivatimet. $K$.

Shrubhy, ereepinif, vary ramons. Leques sub-ovate. Spikes termimal, secund. Bracles lancenlate. Lower bohe of the anthers eakenate.

A mative of ' 'oromandel. Flowering time, in the Botanice ermalent, the eold semsont,
Stom nome, brouches mmerons, rising in exery diroction, as well as sprembiner ont the
 Leares oplowite, petinhed, suh-ovite, rather obtuse, tipering down the petiohe mearly to their
 pairs. lamerolate, eotomred greon mal white; the proterom one ot the rachis always abortive,
 Cibol ringmit; upper lip vanltul, with it bidentate ipex ; under lip broad, inml thron-cheft. Anthers duble; lown lohe with a lang curved, shary'spur. Capsule ublong, fonr-sceded,



 gamower, und grenter.

## 23. J. tranquabariensis. Limn. sp. pl. ed. Wrilld. 1. @9.

 by fonr rows of rommdish rilinte lmetes. Flourers solitary, in twor rows on the furn-part of the spikes. Anthers calcarate. ('ommon amomgst hashes on a dry bareen soil, over the coast of Coromandel. Flowrofiter time the wet ant colal sagnoms.
koots peranmial, sombwhat grammlated. Slems in vonmer plants erecot, in old oures mucer-







 entely erll. bristly.

21, J. glubra. Kön. MSS.S.
 trichotomons. Upper lip of the cornl vinlted. Lovoer anthers calamate. C'ipisules faursecederl.

A native of similar places witly the last dexcoibed. Filowerimer time the same



 Corol; lube short, whloume; upper lip eroot, vanlted: umber lip bromb, and there-pinted. Fitaments comemad mater the mpper lip. - Anthers donlte, the lower omes calearate Stigma slightly hitid. C'apsule tour-simbed, two seeds in well cell.

 form. Authers distinct. C'apsules conic, tommended.

 to two feet hish. Lecoms opmosite, petiolm, liromd-lameoblar, antire, very downe; the luwer many times large than the mper ones, the former being often wolve imelres fomg, man the



 two-clell; sequments Inoidl. ("ifssules pointed, cight-scerled.
26. I. orirensis Kön, I/SS.
 nul. Bractes olbicular, ciliate. C"upseless lentroth of the bractes, "ontaining abmut four echinute sereds.

Obs. It is a mative of high, dry, pravelly gromme, in the vieinity of Smmuleota. Is very like J. Irunqueluarionsis.

 presard. Bractes wite, white, membrame bomered, posterion raws meiter. Lore anthers crescent shmpert.


A nation of paature groume. Fhwerin- time the wet and cold seasons.





 rosi-colourad. Curul, stemens, juistil and capsule as in J. proutubens, which it much risemble.

2s. I. prommbers. Limn, sp. pl. ent. Willd. 1, 87.
 lancemate. Sipizes tominal, fonr-sidel. Bractes lancewhte, ri_id. Lucer unthers calcarate.

Fuphracia, Alimps allgu-tiore filio, de. Pluk, Alm, 112. t. ifs f. 3.
Firy common on pature gronud over the coast of Coromancled ; thowering moxt purt of the sear.












 nal. Broctes linear. Coppules ruther harger than the hracta. fomesectenl.


(31). 1. IPClin la. Curnm. M1. 2. 1. 103.


(impura with J. parefloria. Rela. Uhat i. p. ! 3.
A ver! bermtifnl, delismore, dittise species, growing in shat! places. Fhowrine time the crid soxsuti.








 caterl. Cryys fomr-lentred.

Fomblin the teinity of (inhotta, in mantivated shaty places.








 Neade cif -lit of tem, tommti-lt.


## 33. J. revolivillata. $R$.



llizd. ('u-limita.
Fonnl by ${ }^{2}$. Hunter in the viduity of Onjein, in seal and flower in March.

## GR.1TIOT.I. S.limb. yen. N. 37.


 1. 1i. Hmanion $K$.

Aunual (in Bugal), (roping. Leates petivley), cordute, sirrate. Peduncles axillary,

Pugu
fonr to six-flowered. Caly.e fonr-haned, extorior pair cordate, immer subulate, aptees of the steribe filantent- freer. (ap)sule ovate, hid in the callys.
(aramga amara. Vaht, rman, rol. 1. Jom.
 take, 1 pursime, fur riewtellation intlime.








 inuer or lateral pair, limenr-lamembate, and moth smaller than the caterior pair. Corel bilat-






Ols. As limmphine observes, the lewes of this plant are excecolingly litter, and might mo dombt amower valuable jumberes ill medivine.
2. (i. Ifrenelifluru. Limx. sp. pl. ed. IFilld. 1. 105. C'orom. pl. n. -1. 179.

Ammal, "repping. Leaves sesile, brual-lanceolate, pointed, surate Flomers axillary, solitary. C'apsules limenr.

A mative of moist places. Flowers durine the wet and cold semons.




 ing on the moter lip und adturiner to it, yellow, enver. Cionsules lanceolate, longer that the calyx.
3. (i. ulata. R.

Ammal. Leaces pretioled, ovate, serrate-dentate. Raremes terminal. Cerly.e five-toutherd, and live-winged. Strile tilament fire. Capsule line:mr, hid in the ealys.
 known by the tive large membramaerons wings which ran the whole lengeth of the ably.
4. (i. insolucrala. $R$.

 Conpsule hid in the villons, gilhons: live-tuothed culys.

This speries is also n mutive of the Molne ors.
5. (i. rotunlifotia. Limu. sp, pl. wh. Ililld. 1. 103. Cor. pl. 3. .s. 201.

Anmal, erect. Leares scesile, rommbertate, servatedentate. Peduncles axillary, soli-



 Profuncles lomerer than the leaves. Corul; stamens and stigma as in the foregolner sivecies. Copsules rommed, as higen as the calyx.
6. (4. integrifolia. $R$.

Ammal, white pamer straisht, ufterwards stracerling, four-siderl. Leaces sessile, ovate, three-nerved, entire. P'educles sulitary, nxillary, one-fluwercl. Cupsules the length of the calyx.

T:jangra-punmm. Rheed. Mal. 9. t. 57.
A mive of Bongal, where it appens as a weed in gardens, durine the mins.

Ammal, spremlingr, fomr-sided. Leaves putinled, wate-comdate, sermate. Flourers longpetmeled. mxillary, and irmanal. Capsules onate, hid in the calyx.

Anmal, and like the rent, appeariner in moi-t place du:ing the rainy semsur.


 than the chiyx.

 Spikes terminal. Fiomrew oppsite. Copsules lineme.

A native of similur places with the last desivilatl; flowering time the stame.
 long. Leates oprosite, sessile, dectussate, ublour, alambular, suouth, theshy, fine and most


9. 1i. rifo messa. $R$













11. (i. sericula. R.

 sules linar. aliverying.

## Reng. Blacon: i- Him.




I mative of 18 "ral. wnl in tl wor dhrine the ratis s.






12. li. reglens. li.
 Sterile filhutelnt-flete. (olpeste linvar.
 blascons thriar the raius.

 ont the ere "t flow or*











 with hlme whos. Inthers twin. Sterile tilonent tworlift, cam livinion lemaled. C'apsules mother ohblong. pexi:1tad. lunger than the caly

 one-Hnserenl. Culy.r sescu-berved. Corol eqmafannlate ; slominn four.

Rent. Alhat limi.
Trelurs. Aumlumai-वlsitton.
A hative of mbint plates, borders of lnowhis, dic. Flowitime time the wet ame eohl geas ull.










 shtumbltic |meths.


dumeles uxillary. Capswles limear-ohaloug.
(i. hyssopicoides. hön, in helz. נl,e, \&. p. 8. Liun, spec. pl. ed. Reichh, i. 18. Appears with the timerer soceien during the rails.

Ammal, erect, colmanar, neary naknd, Lomer leaves lanceolate, stem-clasping ; above minute. 'Flue twos pair uf anthers not united. C'opsules shohular.
like the rest, this species delights in a wet situation, where it appears and How ors during the rains.


 The sterihe filanente in this species stamb between the lemte oncs, and are very small. C'upsules crobular.
17. (i. сиисifulia. R.

Aumal, wect, simple, nearly muknd. Ifares one pair at the bise, cmucifom, obthise;


A mative of wet places on the const of Coromandel, mad uearly allied to (i. lovelioides, and juncere.

Ammal, on the losere part of the simple stem grew from two to time pair of appreximate,
 (apssules romul.

A nitive of Commandel, growing in wet places during the rung sealson.

## 

 Seeds minuermis.

1. V. stelleris. Jrinu. sp. pl. ed. W'illd. 1. 113.

Floating, leathess. Scape with a verticil of hadders. Corol without a nechary:
Tr-ling. Nittan.
(ifows in swe waters, appans and fowems therine the mans.
Prool ernfiryalike, swimmine in, and not on the water ; I have alsays fomed smat utrieuli arluering to its filaments. Scape sub-erect, simple; raceme above the verticil of bhaklers, whied rest on the surface of the water.
2. V. fusciculata. $R$.

 edge of the multer lip. Capsules beaked, Iromping.

Tr-ling. Nintsuo.
Braty. latnjere.
Fomblew swming in starnant water in the vieinity of Calentta, at the end of the coll, and berimuing of the heot seatins.

Stem jointel, leneth sarions, bint otten extending some feet. Rarlicles most muneroms,




 muder lip, mad bending up to its maxsins. Cerp.sules conical, printed, retlected.
3. V. hiflorer. R.

Flontinir, leatless. Scape uaked, two-flowerel. Ctrimeli owate, with filuments from thoir apices. Vertary hom-shuperl, ascemding, us loug us the umber lip. Capsales ghobular, erect.

Brıeg. ('loot:- janjue.
Fonul with the last deserihed in staguant water near Cialcutta, during the same sensonso A much smaller plant.

Root of a lew, scurerly componm, filifinn fibres, aud some seattered, subulate nigresemet ntrionli, with two ar more filameuts from their apices, or months. Seape ahont there inchess higrh, thiform, maked, gencmally two-lawered. flomers yellow, small. Caly, amd corol as in the whas, with the lamx closerl, and a homed, aseending wetary as long as the muler lip. Capsules globular, erest.

## LICOPUS. Sihieb. gen. N. 44.

Corol four-cheft, with one of the divisions emarginate. Stamina distinct. Seeds four, retuse.

1. 2. diunthera. Buch.

Ammal, (rect. fomr-sided. Teerres potiolm, rhomb-ovate, serrate. Calyx binbiate.
 where the phants thrive duriur the eold catom, and hossom in Marela and April.


 dutted with minute, darker green grlands underucith, grenctal leugth nbuat une inch, or less.





 or othe, lout vory sinall, and alourtire. If neatly nliand to Thymus.

## 



1. ㄷ. Singolensis. Fíl. VN゙S.













$\because$ ¿. brotckiafle. $R$.








 if slighly 1 tront lic.
B. S. It $\begin{aligned} & \text { rlir. If. }\end{aligned}$
 lisilluts.





## 





1. 13. f'r hes. Il th. If owke.

 sim 1 tl ric.






IB. AR Pa, Coril. Carp. ii, 2tr!. 1. 127.



 w/ 1. seir.

 the :







Pago pationce to moderstand the strumere oll this part of the thower.






 celled, with one bracte only to each pedied.

FHANMVS.
 seedml, with lancerlate wings.

1. F. chinesiv. $R$.
 axillary, end terminal. Flowers withent futals.

 griown semel veasels.








 orate. Style long, ant cervirl. Stignere cnuserinate.

## 

Corol fonverleft. Berry : mperior of two calls with two sectes ire cach celt.

1. 2. Mejulense. Wrahl.

Leares ovnte, or owateoblonse acmanate, villuns below. Panicle terminal, villoras, enssisting of sube ereet erowherl matemes.

 Junce; Ifreries ripen in limuto six monthe.
















 of Limstrum. Cicrt. Carp, ii. 72. toll. $9 \cdot$.
 villosity of its learis and the contracted shape of its panicle. it may merhaps ly. formb the
 attributed to that tree are cemsidered an paniclow, which inded tats been dome by the illustrions anthor of that article in heess's New Cychnaedia.

## VERDENA. See Ditynamiu Anginspermia.

## DIANDRIA TRIGLNL.



Ament filiform, imbricated with fultate scates, Corol nome,
Gismb onesellecl, wits a
 1" 「M.




 paltowns.

Mind. and Beal. Murich, or Gul-unurich.

Jיrs. Jilpil.
Aral. Pilftil.
Midhey. Lavlda.
('nltisamal in varions parto of India, and its I-lands,
". P. Rivivirum. R.



Trifng. Merial-tical.






 स्था the le dr fre zins to be nut ldel.

























 there t. Whte mis the other?




















Pugo Carry








 ing. Berry slobulin, siza of a small paa, red, smonth, onse-cellecl. Secds solitury.
3. 1'. longum, H'illd. 1. 161.

Diecoms, shrmbly, werping. Lower leaves petioled, hroad-curdate, flural leaves sessile,

('ntti-tirpili. Rheerl. Mal. 7. p. 27. t. 11.
Sans. Kri-hure, Oupukoulya, Videlse, Mareudiece, Chupula, Kuna, Ooshuma, I'ippulee, Shomulere, kola.

Sirmy. ['ippul, the ront Pipprata-moke.

## lingtish. Lame belpury:

l'ippuldittow is the 'helingit mane of the plant, and Pippaton the pelper.
 the Circar momatains. It flowers nthl beabs froit during the wet and cold sa:anms.



 somenhat "rinkled; below pale freen; size sarion-. Stipules of the petioled havestwo,
 Fpathitorm.









 for which purpose it is partionlarly moltivated in many of the sallice mumpat the (iremr





 drying it in the sums), is grathereal in the month of dannary, atter which the - talk, inn banielis a of the plant wither, and the roots only remain alive. A highat of land (the thime of memplish acere) will yind in the fist year abont a mand (cighty-Fom pmats) of the peprer, in the secome your forr mands; and in the thind, six ; after which, ins the plant herome ammally









1. 1'. Chalu. W: Hmater in Asiet. Rex. ix. 3!).



Beny. ("hoec.
Piper longrim. Tumph. Amh, 5. $\mu$, 333. 1. 116. f. 1.






2. 1'. vyluration'm. I'.



A מutive of the momatams on the northewest border of Besgal, where the natives call it









 diractly to the hath of the cill.
ii. P. perfolmels. R.

























 the Mahay comitric.



















A blime of Primet of 'Wate' Flame and the conmeries to the cantward of the Bay of Benaral.
II. I'. lu Illim. R.



In tion of the halay Are liip larert.

 ti, roul. ulim, -mumeth.




11. 1'. Geth int mers. IS.



Page

sirimu arhoresce us teptimu, Rumph. Amb. 5. t. 28.f. 1 .
A n:1tive of the Nolucat listinds.
12. P. lenerolutum. R
 smooth. imeuts leat-0ppowed, longepedmeded, filition.

A native of the Maluceal hatabl-
13. I'. Malumivis. Limm. sp. ग' chl. H'illt. 160.

 the petioles.

Amalary. Rheert. Mal. 7. 1. 16.
 chnded from the list of sunnyms belonging to this sjecties.

1 f .1 '. roshatum. R.
Crepping, tember parts luiry, Leares shomepetioled, obovate, cuncate, whtnse-pointend,
 duncled. Berries beakid.

A mative of the Molueces.
15. P. diflusus. Tiaht. rnum. pl. 1. 333.

Lente link-petinded, remel-cordate, shiarp-pminted, five or seven-nerved, smooth. Aments cylindrice, short-peduncled.

Niriun frigidum. Rumph. dmb, 5. 315. t. 119. f. 2.
A mative of the Mohncerns.
16. 1. sarmentosum. $n$.
livect, ramons at the top, samentose. Leares firmu hroald-coriate to obloug, sumoth, fire-merved, the superion ones sul)-stisile. Aments leaf-olphosel, short-pedunched.

1. Lafifelinm. Hmeter in Asial. Res. ix. 342.2.

Gadu. Ciblula, ni (indukh, of the Maluys.
 it thives luxumiantly, mat in in fruit most pant of "the yar.








 Seed solitary, oral, attached to the bettom of the cell. Cutegumerar inelc, thin, light hown. frerisperm contorm to the seed, triahle. Einturyo shape ot in smath broad inserted cone lodered in the aper of the prisperm Redicle superior.
17. P. cugnelifolimm. R.

Su:mulent, ur crepping, smonth. Leaves swaile, oblignely-lanceolate, very smonth. Aments leaf-opposed, short-predunrted.

A native of the Malay Archipelago
18. 1'. smxatile. If all.
stems furvowd, creppline, with vilious joints and fiscicled sub)-erect branches, Leares
 nerves, voinless. Sjpike tominal, filiforn, chongated, pedunded.

A mative of the neighburlood of hatmandu in Xipaln, where it grows on rocks amb











 which the thowers are lodered, on at pedmede abont halt it lemertl.
 been able hitherto to examinc its orghns of fructitication in astioftetory manme.

## CLASS III.

## TRTANDRIA MONOGINIA.




 ihial. A3.3.


V. apice, I'ahl. en. pl. 2. 13.

## 

Calys antive. Corol them putallad. Nectery of a $i$ is almortive filament- inarted on the



1. O. serandenx. (orro 1. 1. 3. \&: 10ッ.




## Teling. 'Furkatrepa.















 than the cotyent ins. insal. simp rier.
д. (), intratio. $R$.



 of thittaryeng where it fimers in the he atomb.

## 



 thererlett. C=las the hy.

Prane min depresilm. Mart iffi.




 tals hatar, with thre or finm-its) thed apicem

## 


 |arispuctit.

 C'apuritex (bi mg, twn-aribul.







 lentoln of the (apsonles by the :pex of the wine.
2. II. whtaxigulia. R.





















 Plumalat twolenved. Radicle shont。 intivion.
 respert it resembles exact! this seeces.
3. 11. arborea. R.
 Corpmbs anvilliry. C'apsulms lineat-ulblons, two-sceded.
13. Ki:ntar-paharis.

I native of the interior parts of India. It blossoms in July, and the sceds ripen in Mirrh.
















 Colyleduns confinm to the seed, jullow. Plamule two-lobed. Radicle oval, sub-inferior.

## JOITN/A. R.







1. J. salacinirless. $R$.



 thar rails.

 twigs smoutl.

Leaces oprusite, short-petioled, reenved, bromb-innceolate, cntire, tirm, bulished, obthse
 do.











2. J. ध̈riule 1 bur. $R$.










 celleti, whe -so alul.

$$
\text { HRIS. NAmb. } 9=\mathrm{N} .
$$

 trumosl|w|






## 






Inithinise. (ent. 1/!! = 171.


 (1) $\mid$ |nl 1 .
 at in in the ef and 11.









 1**) 小。



 nt: V, A श






Prge
Like the luat described, this freeriox is " mative of wet places ower Bempal, hat. humeh sarcer and smatler ; flowrong time the same.

 ing, hairy, and ciliate. Npathes teminal, mul aillary, of a shane hetween that of a shot,



 pisfil as in C. commumis, unly the style is hum betatifully opiral. Pericarp threcoeelled, there-valwed, with remerally two sedn in each cell.

Anmal, crepping. Leates xassile, oblung, about five-new wal. Flomers terminal, solitars, sub-sessile. J'rfuls expul.

A native of the Mhaluccas. Crmpare with Viahl's C', affenterte.
4. C‥ salicifofia. $R$.

Poly ramons, crepping. Leares namon-hateodate. Petats there, "qual. Sprothes firon


Sous. Lamgntere
Beng. L'ince-kanslina.
 det comat ; thwerime time the wet man onl.








 seeds in lach. ('int the are foud of' this spereies.

('reeping. Leares corlate-lanceolate, stem-clasping. F'lowers terminal, sub-pmiclech.













 trons. I'tuls apmal. Ciapsules thres-cellen! cells two-sected.

Beny. Kianduli
Tinle pulle. Rheed. Mal. 9. p. 123. f. ti3.
Tramkecant jai makabartica. sp, pl. 1.12.
A native of most of the warmer humid parts of ludia. Floweringe time the rainy semon.
 bearing extremities sul)-crect. Lerares ulternate, or-sile, linear, slumthingr, sum, th, wexpting




 bemetiful jointerl hane lairs. Anthers hlue, owal, the thial filament sterile. style shart, iscentiner. Cupsules three-celled, with two scalbrons seeds in cach. .
7. C. uespilosa. li.

Polyganons, creppinge, Ifares lumealate, Spathe cordate, pedmeled, few-tlowered; petats nearly equal. Cajpules.sthrewe eelled, with me or two sceds in cach.

A native of Chitturong, from thence the phante were seat to the Botanice parden bey Mr. W. Roxhmerfl. It is in hosemm inust fant of the year.




 long, round, aul smouth. Sjpalhe cordate, or rather semi-cordate, in their natural fubled state,








8. (". se リア!tara. 7 .
 Innal. Len ex in :1 tuti, em-ifinm.

Bene. Kuralli.















## 9. (. h-rbue l. H




















 sied, small, unal.

## solverld. F


 relled. Sier is mumerom- minate.

1. A. mivel ift Riosh.



















Pago
Carey Ed. 1. 175






 to :1mit of my acorrainine than internal stme ture.
2. S. em evelula. Roded.
 viliate.


 It is also leas robnit than that plant, "ith longer perluches to the rucemes, which are somis times hatiet-bracterl at the midede.

The thatiors and sted worsels ate alike.
3. S. angustifuliar. Timet\%.

 speceics in halit, but the shape of the lenves widy lifferent, and only a little hairy.

1. $s$. moluceanu. $R$.
sub-embescent. Leremes in mins, eutire, hatry, one minte atrel nearly round, the other unedmally comate. Renemes mulneltad.

A niative of the Molneca latand:

## XIJis. Schirll. g. n. N. So.


 meronis, on parintal receptatem.

1. X. indicu. Linu, sp. H. ed. Trillt. 1. 25 1.

Kivi-jiletti-pulhn. Rhecel. V/el. 91, p, 139. 1. 71.

 time Nowember and berember. Sivels ripeen in Janany and Volornare.






 apex twoeleft, cadt division emtins in :1 percii of fitm wellow laris; atherime firmy int the
 erect, inserted on the inside of the spex ot the clans: of the phials. Anthers fuin, wert,

 Sreeds mumernus, attichered to a hed down the iuside of cand vatre.

Obs. The following acemat of the virthes of this pant I have been fibomed with, by






## FTIRTITA. Schreh, gren, N. 90.

Ament imbluleated on all sides pithe tailed seules, Curol thereapetallect. Seed naked. 1. 1 . ciliaris. $R$.



Tilim!. Elagahor:1 maddi.
A native of arsi-1 place on the conat of Command, l, with the seirpi, de.





 Byikers, corol, de, ats in the gemus.

## 











































 thace -il ।








 in the atme culys.
TV:Mi.1. IR.
 E-ithitl





## 1. 11 , 13










Paro
Criey
Ed.


 whong, therowided withont bristles.
2. T. lerigater. R.
 lenved.

I mative of moist williw.





3. 'T. बirmalra. R'
 Fhoures diundrons. Stule two-cleft.










## SC'IUH:Nな. Schreb. geu. N. !2.

Culys. or Corol, glunes several ; seed one, naked.

## 1. S. articulatu.s. IR.


 and erownel with the comice base ot the style.

## Teling. Komde-turera.

A matire of mardy phates momonst the Circar momatans. It may le referme to



 five to eirelt, shathinge, shorter tham these of the root. I mbets the trminal whe dereme




 a large brown, spomery, comical boder, the base of the style.

Oles. There is frequently a very slember male thewer within the large or inmer chame of
 that cattle will nut eat it.

## CYPERUS.

Glames ehaffy, bifariouly imbricated. Corol none. Seed one, maked.

## SECT. 1. with culumuar Culms.

1. C. setacents. Lion. sp. M. ed. Willd. 1. 2f?, Rolz. Olıs. 5. p. 10. Culms setacerous,


A mative of corrom:mblel, :4











3. C. Iateralis. Pomes deseripl. 13. 1. 2s.



A native of Coromandel.














## 1. U. andur. K .

Cialm trum three ta fine tiet hich. roumb, makal, inwardly interenteal. Lenrex nom'








5. ('. srmi-nudus. $R$.

 three-ainlat.

## 










## SliC'I. 11. with "thror-sidet t'itm.







firag. Chbut ag theathi.
 pastur. lames.





 ons.e. ('anthe wat it.





## Jif e! . Gintlinel)















Page

Dithise, from tun to fonr incluce hich. JTocrls terminal, gromernte, sessile; spikelels


A matise of moist pather gromme.





 lutes. Seed threseviderl.

 ghomerate, rombl. Theolucree mby-tenved. Scates with achte, recurvel puints.

1 native of ' 'uromamele.
10. (', cistutus, finn. sp. pt. ent. Wittd. 1. 2ヶ5. Rotth. gram. 23. t. G.f. 1.
 sescile : serales with a longremernd pint. Incolucre there-leatwed.
scipun- intricatus. Mant. Is 2.







 tapring to al lome, fine recurved point, which gives the spike the raprod appmance they hater. Siend thres sided.
11. C. pectimatns. $R$.

Culms three-sided, leafy, from aizht to twelve inches hieh, stra ight. ITmbel terminal, snesit. In otum lemeth of the mulbel. Spikes all sessihe, linear, 1"ctinate, sceled mucros. nate. Seretla there-sided.

A native of Cormanmel.



 "prex. Seed obovate. thromoded, sinonth, dark ash-embomed.

 twrokelved. Style thromerloft. Seed threr-sided.

A mative of shardy monst pacture latul.





13. C'. jrmoniens. Limm. sp pl. efl. Nithl. 1. gh1.

 Thri-patdi is the 'fetinga mane of the phat, ant tomi-thmpathat of the rowts.

















 three-sided, grey.









Ft e fl. .2. istio.











## 15. (: .nitlor. $R$.



lil! fiml ril - 1 :!n- dı. $J=$ k.t. 1!:, ! . 3.








16, 1., , \& h. M/w

 withor!1/ - le.







 lahth 1 int r 'is.




$13,11_{1}^{1}, 16^{3} 1$.

1), his in a $3 \mathrm{~m}^{\circ}+$ - il.









 it Aich it











Rent.f. Thelowni.
(inens mplally in cither a dry or wat smbly soil.







 pl. 2. :3:30.
 Sjuikerets; serales liarerer red.

Welicrlits in :s mutiot soil.



 Scoles invits.


 roumd :und sumoth.



Oたs. ('nttre rurly cat it excent when preacel by huncrer.










23. (1. Porluesses. Kime. Wes.
 the involnere. Spifelet linear, inwurved, Howers diandrons. Sect whovate, connpreseal, without annere.

A hative of mosist past more ernmul.








(1. rotumdnч. Rumph. Amb. 15. p. 1. l. 1. fiv. 1. 2.
C. Therenstrehyos. Rotll. 28. l. 14. f. $\because$.

S'ans. Ilrost:i, Moustuke.
Beng. Mootha.
This is by fir thr most common specios we lave in Imlia; it delights in a mosst samby soil, thongrl it grows alhmalantly evary where.

 griant. Culnes rect, fomm ome to two feet high, makod, throp-ahed, month, with the anglog




 Seed whsolately threersidel, hrown, a little remerne.

 weerl we have in ond gimens, there is mextipating it, as erey little bit of the root grows realily.
25. ('. pertenuis. $R$.

Cubms trom three to four feet high, sub-rotund at the base, three-cormered above. Leares

## fiw. T'ingel componal und detompound. Spifelets tiliform, many. flowered. Sceds three. silled.


 nity of ('aleuttis











 with.
 lesum. pr.2 ? 311

 sided.

 ance:
 ont 11.2.371.

 thiru...jikel.

## 

frown in at li, -r..f wit r.









 aly






















 ugrular.




Is of mative of muint, cultivated lauds.

## Papie








31. ('. imunderlus. IR.




Beng. and $l l i m l$. l'al r.

 teed the hanks frem the rapielit? wl the watere.









 presoral.

## I errg. Chumati Pater.

 purposico, thomy in un intion derener.











33. ('. proct rus. Tiulll. aram, 29, 1. J. .f. 3.







 thene fihnts that prevent their eriving wily so math to the rapidity of the stecam as they otherwis wotht do.
if. (. spumelos\%s. R.

 incolurefo many lewnel.

A harger stromp coarso specibs, errows in ditahes and whter conses.








 rats it.


 anthers antinger in a throm. Seeds oblong, theresided.

Beng. (iu)-muluma.
Ieling. Jakisha,
 シ15 w $1 \cdot \%$










 $\therefore \quad I \times 1 \mathrm{p}$. sitiol.


 threccoid. 1 .

Till y. P'illa sh nhil.
A lery











 1mir roel.h al in i.
















Be, y 1 relle.
























sheathing, deeply gronvel above, and keeled below, sumonth. Timbel decompoma, fom four to



 Flowers remote, seaher ohtuse. Sert threr-sided.

1u. (. teigelum. K.
 lacre us loner, mat lomerer than the umbel; involucels chatly. spilitelets linear-lanced, ulternate. Šed claviut.e threr siderl.

Mind. and Reng. Hadoor-kiti.



 ons lengths, sul)-ctect. Infolurer abont tisne leaverl, one or two of them longer than than an-
 tically triaurnlar.

 or fond pieress, which in drying contract so much as to bring the margins in cont:act, or to





Witri-pulls. Rhoed. Nnd. 12. p. 77. 1. 12.









12. (. mudus. R.
 naked. Inrolueres, and involucels chatly; spikelets subnlate, altumate. Sieel oblunge, compresed withont anterles.

Being. Guola- Ilethli.
A native ot low wat place over lbinenl. Fhowers durine the rains.






 ublonge conupresseal, withont anches.
 el, never u-tri for mats, as that is. Jo know it fion ('. Pegefun athond to the inwolucre, which in this in only mhont one-tometh the horth of the mulse, but in that as fong ou louger.

C'ulms fonm fimn tu sixteren inches high. Linbel super-lecunpommet, involncre two leave ed. Sepds globular', white.
(iramen evperoidece madasinpatammo, \&e. Pluck: alm. 10ッ. f. 2.

An clecrant small -peciers, a mative of enlfivated moist places.
Rool tibsous: Culas ereqt, tiom fome to twelve inelas ligh, therefomeths maker, obsoletely three-siderl, sumoth. Lecores sheathins, when is long as the culn, viry vioncher. Timbel


 few ehafly seales only. Stamens two or three. Seerlsub-glubukr, , wure wite, smouth.

## SCTRPES

Glumes chafiy, imbricatel on sll sictes. Corol none. Sech une.

## SECT'. 1. Withurt Lueves.

1. S. tuberosus. $\mathbb{R}^{\prime}$
















 Whicht ne". pation the ilme.











 eflict of devery in- Hu trent"










2. A. 11 ©. II.


 raric.



 there = perim.
 $-25:$
 Sentelipl d. Sdelemt wiblh hilien.






3. S. atut in mlus. $R$






 A. :ith ill the fintier tan.



Prge


A sperous reambline the last，abul orpwince in similar places．
 beristles amel pistil ：14 in the last tome sperices．
$7 . \therefore$ incerretus．$R$ ．

 silet．

Rout of mat conlomed，e＂p）








J．jelli．lihed．Mal．12．p．135．1． 71.
llind．：urd Beñ．I＇ut｜，＂ti－checelnke．
T＇，liseg．Latti－pitta－allic．
＇This is also al 11：n ive of standines swed water．





 foncoroner five species ate here wanting．soyle slightly tro－cleft．Seed theec－siderd，sumotle， white．

9．\＆．subapienlalus．R．







 Seed thres－siked，whitu，smmoth．

111．S．Aubirs．s．R．
Pont tuberons．Culms maker，conlumutur ；interecptrd with numerous partitions．
Teling．Allike．
lioole tuberons，with stolones and momerons fibee i－aning from them，oufwardy of a





11．今．copitatus．Limn．sp）．pl．id．II illt．i．291．Taht．ii．2ず）．
 Serd．blatols．Pomati－h．bri：lle－bresed．
$\therefore$ caribuers．Rotll．gram．lli．t．1\％．f． 3.
A Hative of harmen，sandy．moist plthece．





12．juncoide $x$,







 compruseal，smont h．White．



A mative of samely ground．
 striated，with romad aluchles，uhow the－niki a half romul，with a artowe on the that sible．



1t．strin gul thes．R．




Natise of（hittno hor，where like in of of then order，it dheghts in low wet ground．










 truwn chaffy 211 r＿its．Aet dirnoil al，back，Iramberstly ragose．

16．太．jhat，losur．Li an ap．H．तd．Willd．i．3th．
 thom the umblal．seeal lonse，（luyate，sinvoth．

Teliner．Billaj ${ }^{\text {a }}$ ．
A utive of $w t a n$ ly finers．






15．©．preinatie．$R$ ．

 Cour pinnate Irrislle．

















## SECOI＇．II．Ẅ̈th Timetes．

10．s．alropurpureus．Limn．sp．ph．at．W＂ilh，i．2！11．



［11．S．mininus．R．

 athere：

Find with s．atropurfurcus on poor，wet sandy lands．

Cal strizht，irom sic tw iwhlw inches loug．culnumar．Spike terminal，solitary，







2L A stratilourt．$R$
Cuims the lict hifht，thre－niderl，hase heary．Leaces triamembar，Spihes loteral，senitary．

Pace











$2: 3$ N. serther. $h$.


(omplate wilh s. pet driet viles. Rolz. (N).s. is. ر) 11.







2..s. lispientus, Kั̈̈,

 matwith.

## Tilimy. Khomshi-tuncra.


I.
$2: 1$




 comprocseth, white, with a thick callune mat silt.

 Scales pointint. seret aberndate, atymbar, dutted.

Brag. Nominoori.














 note. (ifiom cordato. Eigle villons. Stignat twored ft.
 two-clett ; yet I think they mathe be the same.




Not $1: 1$ pmlln. Rhecel ilal. 12. P. 72. 1. 38.
Bray. (inori.
A small delicate species, growing in distinct tutts on dry samdy pasture sromet.
 fonr-tithes maked, romm, smonth, filitorm. Lemeers a few onls, shemthing, shome comsider-




Culms aret, from thoce to six inches high, angular. Heme torminal, wh thete to five
 gular.













 \&ef thriensiled, sum + th.


 ri unlinlı, cumpres- l,

 tuft culbl.








 leterth, ithe alholts.
llio. limes Xerle lime





 ("|कヶ|)!







3.!. 5 . 1 r $R$.











31. $\therefore$ tre $/ 11 \mathrm{~s}$ If.

 at1-1 1. ath ir |l
( MP 1 witis mbl Ws.

 W.1: 1 :






mate, keel green, the rent rust-coloureel. Seed three-sided, whot, thick, sinnoth, with bristhes rombl the bats.

Obs, I believe Könite called it s. maritimus indicus, but the form of the secds and jointvolucies chatly ; scale.s ultust, diandrous and romdish, ecoupressed.
firows on a motenately thy, hand, harren, semdy soil.
Rivol fibpons. Ceblms straight, niakul, rigid, from twelw to cighteen inches high, round, very smooth. Lectes matical, shont, rigid, but smooll. LTatel terminal, sometimes decompoum, contracted, shdom more than fwo indles lons, and one hrowl. Incoluere from two to time,
 membranaceons berder. Stemens two. Stigma tho-eleft. Seed much compressed, obeordate, dutted with brown.

## 36. S. brevifolius.

Culms ereet, from six to vight inches high, senir-culumnar. Umbel decompound ; involucels chatly ; seales curpidate, monandrous. Śligma lifid. S'eeds obcordate, striated.

1s found generally on low s:mdy pistere ground.
Root tibrous. Culms erect, wostly maked, firom six to cight inches high, flat on one side and romaded on the other. Leates shathing, short. Cimbel terminal, lecompound. Inrulucre from two to there-leaverl, shorter than the mmbel. Spikess small, oblong ; while young strisike, but when ohd appearing peduncted, the seales mod sechs gradually dropping off and beaving the mathis makel. seales beckel and pointed. Stamen simgle. Style bromb, enimgoned at the base; above, the maryins are haty. Stigme two-clefi. Seeds obserdate, convex on the ontside, that on the inner, white, striated.

Oiss. The single stamen and striated seed are the leset specific marls, It much reseme bies liottboct's figure of $\therefore$. dichotomus, but that species is dereribert by Vibhl as having threo staminat : (see Fimbrintylis dichotomat, embn. ii. p. 227.) consempeutly they mast be different.
37. S. uesticalis. Retz. Ubs. iv. 12.

Spikes rounded, subsesquarron; ; itholuere six-leaved, longer than the coupomind unbel; scales monandrous. Fahl. enum. ii. 2ss. (under F̈̈nlriviylis.)

I receved this degnt little grass from Nepnla where it grows in low fields during the miny semon.

3s. S. diphyllus. Tinn. sp. pl. ed. Willd. i. 301.
C'ielms erect, from one to two fect hirhl, scmi-culzmat. Uimbel decompound; scales obtuse, diandruns. Seeds ronndiah, obcordate, smooth.

Fimbristylis diphylla. Tahl. cnum. ii. 219.
Delights in a rich wet soil.
Rool fibrous. Culmas crect, seven-cighthes nalkel, froun one to two fent high, sometimes a little empremsed. Lenves chitely radieal, hald the length of the culu, rigid. 'imbel tormimu,

 ed rachis of those that ure ndd, diark brown. S'cales uhlung, obtine, dark brown. Stamens two. Stigmas two eleft. Seeth obeordate, much compressed, sinowth, brown.
39. S. miluceus. Limn. sp. pl. cd. Il'illd. i. 305.. Riollt. gram. 57. t. 5. J. 2. Retz. Obs. ᄃ. 10.

Culms ereet, from one to two feed high, semi-colummar. Cinbel decompound. Involucres and inrolucels shorter than the mabels and umbellets. Seed uboordate, striated.

F'imbrivtrlis milincea. Vahl. enum, ii. 2st.
This species delichts in wet pasture ground.
Rool filhens, C'alens crect, fom one to two feet high, seven-cighthas maked, genemally romed, thongh sometimew a little compressed, and rhictly whe the apex striated, otherwise

 very concube, or pedunchel, oral, rust-coloured, many-Howred. Soceless broad, a little pented Sligmar two-cleft. Seab obeorlate. comupressed, prarl-colomed, striated, without bristles.

(ielms sub-erect, from one to two feet hiegh, edged. Gmbel trom conupond to super-decomprame. Thrulncre twolleaved, ereet; scales limecolate. Seed obcordate, dutted.
llind. Korntị̆ (z-jurani.
A mative of molst or wet places.
Root fibrous. Culus nearly cerect, but waving a little, from ono to two feet high, maked except at the hase, compresed, twoedged; odrees sharp, and turnend differnt ways, striated,





4.1. $\therefore$ I Itragemes. $R$.
 gound. Involucor and involucts bristly; scules ruuudish, diaudrous, Seal romed.

Himl. 13ияп-j!vani.

Tiling. Wurcusli ilece.















 thre e-aid Al, ril mata.


 wriuhlerl.

A native of law pa-ture gromme.





 tauル-

4L -c. steceps. $T_{2}$.



Benq. Joopi.
A natiou 1 ; ngul.
45. Mr. Kysuor. $K$.



 tharimg tur lotter part of the rist





























 with litl, in tut lritw, elsestheit.
17. Ac. Mustms \&. K.
I. 223
I.

230






 last sc: growsus.










 the: rains, ant the begiming of the eosel season. They ure in weral rejeeterl by eatte,

TRIANDRLA DLGNI.

## 

Calyx nome. Corul two-salved; ralres empal, and awned.

1. I'. Latifulia. Linn. "j) pl. ed. IVild. i. $3: 1$.

Culms piped, fronn ninu 10 eithtecn inchou high. Loraves short, waved, and ciliate. Raceme eylinlric:al.

Aithexctithum inelicum. Linn. sp. Ml. vel. Nillf. i. 157.
siscelentum spiceltum. Lims. sp. pl. Ft.




 two-valvel. both awjoml, amb ine totally dentitute of hairs romal their base, or any where elate Cord two-valved, very mitmte. रों dl..........

Obs. Cinttle are not fonl of this grita.

Inrolucer echmate, and four-hluwered. Caly, from two to three-valved, one or twoflowered.

1. (s. biflaidus. 72.

Spikes simple, cilimdrie. Involucies two-flowered; segments subulate, hooked mad hairy withiu.

I native of the interion'. ahesated, diy parts of the ('oromandel eonat.









## 






Faiguntis rylindrica, sp, pl, 120.


Beng. Uolou.

## Trateng．Kazonembies．
















ジ：K．K1，
／IMNA．Kiarirn．
Firg．lit！m－2゙nd！

















3．$s, R_{N},=1 m$ ．

 stuty．（iurultin valvel．

Jient．Klu＂wor lout Klum：






 （tys wi h dilit！ $11 . x^{\prime}$－





1．$\therefore x-y_{0}$ to tore．



Bre\％．Kh rer．










 v．llswh．viline．




 the Fint．

Tiling. Charmkon-bodi, or Cherulino-dubno.
Whero whit, I do not know: P'anides teminal. Apreating, erect, oblone, from one to three feet longe, of a gray eolume, tion the large ghantity of loner soft hair that surommbe the: flower. Remifiotions altemate, wory ranme, expandiner. Ruchis strinted. Fhoters hematphrodite, in pairs; one sessile: the ather pedieclled. C'aly.e two-kared, smonth. Coral oncvalved, sumeth, membramacions, ruseceloured. Slenmens and pistil ans in the gemms. I have not seent the seed.

Obs. It is mush cultivated in the Ratimundri Cirear, where they only make a conarse canc is coltivated on their fant lamde, which can be easily watered; fat, maless the kamer plenses, unt emsily thouded duriner violent rains.

The land is first wefl phonshed durine the month of $A$ pril and lewiminer of May. Thes ficld is then thembed from the river, if there is mot anticoent ran ; the nuper part of the cane is then cut into two lourthe of one or tive joints math, (the lower paly of the same eathe are

 solt wet surface with the foot ; in six days after the phanting, the fiche is ngan thomber, if
 after slightly hoied and wedled. A numi h ifter the plantiur some rotten elatif, or other snela
 cient min, the fied is watemed; two months from the phanting, some stroncer mamme is sterweal abment the phats; and ewery fifteen or twenty dings the field is slighty lowed, and the week rooted ont.

During the wet season, drains must be made, to eary ofld the superabundani water. By Angust or september, the emme will tre from thee to tive fere high; in equch shont, the pros duce of every conting, wheh may contain fiom three to six cmes, a straicht bimbex in wtuck into the earth, in the centre ; the this the wores are tied ly their leaver. In this comatry the

 and ten monthe from the time they wore planted, the canc, when stript of its leares, and the
 feet long; they then begin to ent the eane, wnens the juice, und boil the sngar, which is with the matives here, a very simple process; at smatl will tumeal by cattle squerzes the came, and one boiler luils it.

In bengal there are three varieties entimated, wiz. The alowe deseribed or common fel-

 is nlways of a dark colomr. The thind and last, is a very larece, light-colomed cance, called Kullona, which grows in a low swamp soil, where neither of the other two will sucereal ; its juice is still weaker than that ot the rimbw eane ; but it has these momanges, that it grows to a much larger size, mad where neither of the other two will thrive. It is ther fine mand cultivated, beremse the other sorts planted on higher situations are apt to sntier fivm dronght.
6. ㄴ. sinensis. $R$.

Culms from six to ten fret high. Leares. flat, with margins hispich, pancles ovate, with simple and emmound rerlieelled hrinders. Corol of two valves on the same side.

Stem ereet, jointed, whole height from tento fiftern feet; the grenteat part covered with the sheaths of the leaves ; joinds from four to eight inches loner, and firom two to three inches in circumference, colom prate hombish yellow: Leates suln-lifarions, tipering from the base, to a long, fine, point; phin, smonth on buth sides; marins armed with mumerons,
 and a hatforoad at the base. Sheaths smonth, with a smatl limula, or stipmary ringe romed the inside of the month. Panicle noate, areet ; banches, simple and compommes, sulrvertiocelled, reclinate, long and slemder. In S. officinamem the bmedes of the paniche are scatteren over the common rachis nud are decompomat, amd smper-decompomed ; on this I rest the most obvionss speceitic deterence, imblependent of the mblitional stmall inmer scule, or valse of the corol. Calur, and its smmomding wool, ns in the crems. Corol of the two value on the same (anterin' side, the immer one very small. Sectay of two lawe, homal, cuncate, cremulate thesly seales, whel vecmpy the two pesterior sithe of the germ, opposite to the two values of the emoul.

OLs. This new species, for such it appars to me, was introduced from China into the Botmic garden, at the clon of the sear $17: 56$, in lope of finding it in ome redects belter than the common came enltivatiol cover ludin. It promises considemble advantare; particularly from its boing so solid, aud hard, as to resist the forecpls of the white ants, and the
 it feners dronght mumberter tham the sorts in mememe enlivation. It produces a profitable eroperen to the third year ; while the common cane of India must be renewed every year. It is alson said to yiedd juite of a rielter quality.

This semms to be the sort employed over China for making their surars, as appears from the following extract of a letter from Mr. A. Dancan, surgem to the factory at Canton. to
 which mecompanied phat of this cathe from Clima ; ciplaining the mode of cultimation und mamfacturing the sugne in the provinere of canton.
"Sugar canes. A firstand second sort ure cultivated in the proviuce of Canton; the

 sative ither raw, in went y homed.











 while the ape ond rifuire tre by la oint.











 it in tit fire $1 /$ e.

















 the: ©


 month if :













7. A. ... H. $K$



lif \% Tus.



Culas promatal, waight, tmple till the acound or third! ear, that brmaty, ahout us Thick ns a slender walking cone ; joints mom ix to twelve inches hong, and filled with insipind


 Shealhe beardel romid the month, and at their insertion on the ombide. Premicles large,


 edly observed this variation in the form of the panicle at different perimpts, to rum thromerte
 Corol of the sessile Hower three, of the pedieelled wo-vaherd, wht are excectinerly delicate, and the third value of the sessile flower is rether.

Cbs. Tha secels or conlus are longe, stroner and straight, and cuployced by the natives for skreens, and varions wher ecomomical pripenses.

## 8. S. Surica. $R$.

Erect, from cirint to twolse feet hirch, Leames flat winh prickly murgins. Pancles dense, suls-vertieclled; ramfications decompunad. Flowers pired, one of the pair sessite. Corol three-valved.

Sais. Goomdra, Tyjunha, Slura.
Rerg. Slum.
suma A wiat. Res, iv. 217.
Fommel in the vicinity of Culenta, hat rather rare, whereas S. sponlanem (which Sir
 being a stronger reed, the leaves much larger, with wery hiopid margrins, the ranifications of

 Leaves, the lower ones fiom fone to eight feet hong, and narrow; the suprior ones shorter,
 margins hispul. Sheaths from twelve to cierhten inches lones, with at tht of hair alowe thoir mouths on the inside. Panicle dense, when in flower open, when in sued comble meed and of it
245 huseobate shupe, from one to theer feet loner ; branches decompmbed, or mere; the inferine

 Calyx two-vived, clothed with lomg, soft, white, silky hairs. Corol threerntred, firinged.
9. S. errallatum. I?.

Culms from ten tosinten feet hish. Iecones that with prickly maruins. Pancles lincur, crowded. Calyces wowlly. Courol two and throw-valwal.

Kequa, Mort. Mal. 12. $t$. 46 . seems to be this, rather than s. spomfanemm.
Teding Konde-Kanamoo.
A very hiph leatiful species, a mative of vallies, Compare with s. Arundinaceun.
Root "reeping. Culms many, crewt, from ten to sivtern feed liph, towards the laise perennial, ligueons, inwardly spung, (not piped,) smooth, romul, withont my frene eor hollow any where, ahont an inelh in eiremmferenee at the thickent part which is teme the middte. Lecies athernate, sheathine, remote, remarkably fone and narrow, but firm, taperine from the midde towards ench end ; matrins armed with wery sharp spines, nomith of the sheathe worlly: Panicles teminal, rewded, when the flowers are on the deney, linear, whoner,



 as their pedteels, and particutarly romud their insertion. Corol of the sewile thower threevalwed, of the pedicelled thewer two-valved, membanateroms, white. I whlid mot oberve my nechery. Slemmens, \&e as in the gentis. Seed clante, smonth, clear whitish yellow.

Olis. ('attle do not ent it.
10. S. Thunju, R.

Straight, firm eight to ten feet high, every part smonth, except the inside of the hase of
 sproatingr ; Dranches thereot verticelled, and super-decompand. Flouers all hermaphorlite. Conols twormbed.

Mind. Mmuan Sce Asiat. Rese iv. 2 t. 8.
A mative of the combries abont lhenime where the natives make ropes of it. In the
 so how down :s Bengat, otherwise I might have thenght it liönip's s. beagalemse.
11. S. eantlieplatum. IR.

Peremuial, crect, (from eight to twelve feet high.) Leares subulate, deeply chanmelled,
 thick withens lwich and fringed margins; corul mevalved.

A most benatitin stately speries, a mative of Bengal, in most thickets, de. where the avil is rich. flowering in Angust and siptember.
 leathe; fithet with pith. Leaves firm live to soven feet honge, semi-cylindric, no where hick-
 th the muth. P'anicle sub-cyliudric, nboui two feed loner, waving with its immerse quatity
 pateclled. Calycise ralues are remarkable on aconut of their latere thek sumoth callans Carey basc:

ANTIISTHRIA. Siनmb. Gen. N. 1567.




1. 2. cilin'tr. Linte sp. pl el. Halld. ir. a!?!
 exterior valve of them it How er puill st, cilint meat the aphe.







 than the 1 hweres. sme th. chapilate.


















 purne ite.

 нแツ.
is. 1. s-ialens. $R$.













 ariat 1.

1. 1 heterectita. 1 .
 maphemetite omes, and thro ritia'o malde ont -









the other clevated on a common perlmelese, cmbluacerl by the other two male ones on their proper pratient, in all of them the calys is two-valsenl, no corol, the aristat in the hemaphor dite fluwn exampterl.



2. A. prosliata. Limu. sp. plo ad. II illd. is. ! (4)1.
 florets mate, with : two-valved hairy calyx and ome-ratseet inwules corol.






 bellet seven; one larmaphroblite or tiomate, and six make; four wh the male flonets on theor
 one, und the other two male flerets; these lint two have also their proper pecticels; all their insertions and surromaded with hair.
 rot one-valued, a pretty leme twisted ann or cipping the place of the other. Nhemens. threr,
 femate flowers, each of thesu two has its proper perlieel. Calys two-valved, lanceolate, hairy. Curol one-valved. Slamens three.


3. A. rymmerice. IR.

Erect, ramons, Leceres many times longer than their sheaths. Throlucres smoth. Acces. sary florets male, with at two-valsul, cilinte calyx, and a onc-valserl, a woless corol.

Terling. Perdei (ilurlis.
Thais is a large specins, I have gememally fomed it amonest lmates on mometins.
Culms many, erect, from three to six feet ligh, very ramoms, sumbth, solich, ligneons,



 dispond cxactly in fle same mamer, only here the fom male flower that survmed the lane of the eommen perlieel are sessile.

 man. Silamens three, doc. as in the groms.

Mune l'lownens. Caly.r two-valwal, the coterior valve frimgen with many strong hairs abont the upex. C'orol one-valved. Stamens three.
7. A. armalinarea. 11.

Peremuith, stratirht, from six to twelve feet high; leares from four to cirht feet lone ; accessary flowets mate, with both calyees mend corvols two-vatverl ; the exterior valvelet of the former shusgy.

A native of Bengal. Flowerins time the be giming of the cool seaton.
Rool peremial. (culms straight, juipted, glameons, betwe the joints mudt contracterl,
 part fillol wifh white spongy pith; height of the whene plant when in thwer, fiom six to







 shont chavete pedieel, whieh supports in hermaphorlite awned flower, and two pediedted nwalems once.



 orempies the phato of the nsual second valve. Nertary and slemen as in the mate. Ciorm ublonic ; styles two, villons.

Polygmous, Flowers iu pairs, hermaphrolite, stosile. Calyn two valved, ono-llowered. Co.



## SLCCT. I. Whith lermimul sinites.





Bey. (1). Ditar. ol Dita.











 valrul. tha imuer arme alomhr foml hifiol.
(Hs.s. Cattle will it it, but now remelily.




Tiling. limhli.
(irmin in tulto an rich froturn errnumd.













 very | 11 m. |wi-tal ari to.

3 i f $\|_{11} . R$.



 $f^{\prime}(\mathrm{OH}]=9 \mathrm{c} 11$.






 Hand viry minuts.












 lixim. $431+6,11$.
5. A. conduygulus, Il.

Page
Carey
Ed.
1.

256

Straight, very ramons, filifinm. Sphites ronjugitr. both flowera limmoplarodite, and both


A mative of IGengal, and the smallest of the crems: I have yet met with. Fowers duriug the (rox)] sexarsm.

Root a fow rery slembor, brown tibres. Culims in tafts, sum very ramons, filiform, ernet,





 inner) whieh gives sippert to the aristit, bitik. Shamess three. Styles two. Shigmers longr and phmese.

## 6. A. filiformis. R.

Filionm, amman, eredt. Spifes paimed. Flowems all sessile, solitary; hermaphrorlite,






 two, ome of thw antherm larger. Gír"u nvate. Styles two.
7. 1. Givmethyen. $R$.

Spikes there, buth flowors lememplumelite, and both awned. Calyces lameeolate, and cilisto.

A delicatn, hematiful species fonnd on newly lad down pastmee gromed in the vicinity of







 Corol of twa, small, prlhmid, brownish valres, the immer of each, cinds in a long, heown, aris. ta, procereling fiom the litiol apex of the valvelet.
8. A. Tridentatas. R.

Spikes paired, hibsute, both fow, rs hommplumdite, and awned. Calyces slagrey, exterior villves commente, trimeate, trichontate. foruls tonm-valved.





 finired with long falrons hatrs. Corol in botlo thowers fonr-valsul; the exterior one on tho inside bitid, and awned.
9. A. lancealatus. $R$.
 Sessile or hermuphrodite flover atwed, with the marerin of the exterion valle of the callyx acntely pectimentes servate.

A native of Comomambel, and vory mund like Patnicum weliy sum.




 pectinate-stmate. (cow in buth two-valsed, with an arista in the hermapladite one.
10. A. seremiens. It.

Climbing ; spiles from :lmere to six, dieritate; caly.e lancernte; mate corols une-valved, and awnless; hromaphrodite mes with a ome-valved corol and an иwn.
(irows commonly in hedges, and on that account scomdeut; apperm and flawers during the mins.






 pied by a long twisted amista. In the male one it is twa-ratreed.

Obs. It is a cerrrice gratss. C'ittle are not foud of it.

Near the rowl cropins. Sulites fiom four to , irht, ditritate, pedicelled. exterior valve of
 valvel.

Hlacus perthens. Kö̈. Simn. Mant. 301.
Is fimmi on whe patare irmmi, which is generally shaded by trees.




 louth insulto.
 me himacti.
12. A. Bladhii. Tinn. sp. fl. al. Filld. iv. n2en.



Beng. lami,







 hairy.



 of the cat rime value of the bermaphondite dever.

## SEL'T. II. Wilh lur Jy, 7 irclet, weithury Spilies.

11. A. momantrens. R.




A bative of monntain m- of matries.











1. I Mre.Lita. R.

 C-1.







 1"11 : 11





2. A. prolevinchey ax. on





Pago lat the haljit of the grasse is viry diflerent.
 simphe, many ture ther on the asill of the lew wes, well cherated hish on its lonse, filiform,



 every other part of the spike is smooth; the other short-pedicetherd, math, amb awness, like the inlierior pairs.

Muse l'roweus. Calye two-vilucel. Corul two-valved. Shamina three.
 valved, with a very longs, twisted awn on the other sile. Stamema none. Styles two.

## SECTI. ILI. Panicles nalint, smul terminul.

17. A. aciculalus. Limn. sp. pl. ed. Willd. iv. ant.
('reping. Leares show ther tha ir shenths. P'enicle linempoblong, erect; ramifuea-


Buphis trivalvis. Lomr. (orkim. (1/2. 6if6.
Kulli"a-pullu. Rheed, Mal. 1\%. p. 17.1 13.

Bemy. Choure hatia.
(irows on buren, moist, pasture gromad; its seds are exe edingly trombleone to those



 nearly were : apex ammed with shot stiff hairs. flumers, one stosile; hermaphrodite, and two

 short arista, and has the keel seabrons; hate insolvel in brown shent hais. Corol two


Male Flowers. Collyx and corol in in the mals, except that the re is no arister to the corol.

Ols. It is of a vary coarse mature. I never fomm it torehed by entle.
18. A. vertidillatius. R.

Erect. Leavos loner, and vory hairy ; paniele ennical ; ramiferations vertieelled, threse flowerel; one hermaphrodite, sessile, with two awns; nul two-pedicelled, mak, with one \&wn encli.

A mitive of momatins, flowering abont the end of the wet senson.
 soiled, as thick us a small grosecopuill; from fome to six lect hirh. Leares :ppproxinated,
 and pationtarly hairy on the inside near the base. Panieles atect. conical, hax, from cipht to ten inches long, compoed of many revticelled, most simple filifurm, wayd, howing, thmeflowered inanches, as in A. ariculatus.
 awod, both hairy, having the bate smmomded with much bown hair. Corol omevalved, a

 with hrown hairs. Calyr, exterior valse a little hary, and awned, brise insulsed in short brown hair. Corol two valved. Stomens three.
19. A. sucelatorides. Limn, sp. ph. ad. Willd. is. 912.

Sub-erect. Lereres remahably loms. Peniole oblomer, emmposed of simple, alternate, filiform, short-pediedled, ered, patent branches; nenter Honeta two-valsed and paliedhed.

A linge, leafy, sul) erect -pecies ; anative of the momatanons parts of the Nonthern circars.

I am not possecsith of any othew deseription of swarta's A. saceharoiles tham the speceifie eharacter, a it stands in Wildenow's edtion of tho speces, whel ayrees with my plant ; therefore conclade they wre the same.
20). S Nellamunt. Limn. *p, pl. ed. Willd. iv. 921.





 pit on the bate of the exterion valve of the hermaphoulite flowers.
21. A. puritel dlux. R.
 momitientions. Exforior valves of the callaces of both hermaphrodite and neuter flowers pittect,

## This is 14 momtanin aracs.





 Fitherl raco
 flowr watt the imer ador ; in it. flace is a pretty loner twisted awne
22.2. 1. fasciventuris. $R$.
 pairet; homaphemlite ones awned; neuter unes mwnens and withont a corol.

T: lisy. Kunda-j.ri.
d whise of monntains.
















## Y゙

Beg. F Ma, Ihw Ham of the flat, ma I Kivat e the rowt.
That. Wisetiwnar.













 s/a the : litre.



 Crame is oft 11 rimplowal tor the ach.







I

$\ddot{2}$ 1. 1. gl (imi. $h$.












25. A. montanus. R.

 $\therefore$ eoroll at ond sa! verl.

I mative of mombinimons (remafries.

1.

2 (is)


 onte seralle: mad a mentere ome prolicerll 'l.

 other. Wrater thomers like $\{1$, hermaphroblite ones, lat withont arista.

2 2(i. A. biculur. R.





3timel. lintre-iserir.

I hatie only fonnd if in al coltivetad stat?c.





 maphrodite ind the pe. licelled one menter.




 nens nome.

Ols. 'Thris and the following speries 1 . Sorghmm sern to me fo prosess mome of the
 latter to the fimmer.
27. 1. Nor:yhem. 7R.
 awned.

Teruy. smd Miad. Jowar.
Teling. 'Tella, ar Komea (nhite) janom the name of the plant, and Tella-jinoolar tha grain.









 soliclity

シs. ג. remuzes. $R$.
Frect, froun live to fifteen feet hierle ; lower half with vertieils of roots form the joint:









 ishment to the buts, which are of two, or wore years' durution, if sullered to remsin the







 \＆the sthe：on ryther ata

2：）1．sz intils． 13
 Lormsphati：－！hare－ab，I，ne it or whe－rathel．

Howl．ant if \％Wen－thath．
 lan 1 whith is tos han for mo．







 $x$ hite．
 $m \%$ ： 11 m ．

 1－1．t－1h！：：


 batche ：and aw $1 \cdot 7$ ．

## lit \％Wivide ture hato

Tiling．Ii whlijumes．














or．1． $11 .+1$ ．



















32．．．Armilus，$R$ ．

Prgo

 awned, "hepintat".








33. A. parvillarms. R.

Asemtinge Lears linemr. Pronicle leati, thin: spibelete solitary, with proper, jumterl,





 sparias, but lure it is smoth, axeept at the insertions of the thowers. Profurdes mont alouler.




## 


 rol une-3:ilserl.

## 























 annless. Sictary as in the larmapherite. Nommens three.
 of the heaf-baring colne is often pat into curres, fo give them an agreable flavonr.

 jointel, with common spathes ; homalurolite flowros awnel ; mate one-valved amb ambess. Bong mad Hint. LDharankisher, luarankusha, Kiuranliusha.
Iw:manchasa. A wiut. Res. is. Ios.
 the river faptec and the mominius, mul 1)r. Bayd nbont Hurdwar; it is therefore probably
 the plains of Benzal, Bahan. Ouke, de. Flowering time the ming semsom.

It grows in larre tutis, ach int composed of ammber of phats adrering together by their roots.

Root pereminal, tho principal part thereof are theleer than a crow's quill, and marked with circuhr cieatriers, fiom these isne mauy suall, firm, momutie tibres. Culms ereet, geme rally simple ; from thre? to six feet high, smonth in cover part, bot. hollew, lmt fillod with a
 hispiel when the finger is drawn hackwards oser them, otherwise amoth in every part. Pranide
 ted panielc, composed of nmmerous, (miny of theon proliferous,) fiamieles of slember, pediectled,









 hermantinnlt : me pind!




 of hitterne.
33. 1. Mratiai. $A$.



 fotekhers.

 phint.








 the iorer ixty pais.
 eflect :



 aromatir tate."

## 





 De dronil, atimill.

Ster. Kinl\%.
H id. K. h.kn-l hrml.


















## Papo Cirey Ed.



Page

llimel．Kiralu．
Teling．Newe（i．e．water）hrural．
I native of the bordern of water ar，en es．








P＇a palmu lomiflorum．Ric！z．Ub．$:$ iv．p．15．
 i． 322.
 high，fointed，smesth．lactes shemthine，altomate，hifirious，short；menth，of the whers
 nate，whlongr，somewhat pairel，suouth．Cenlys and cood withont nerves．
1．I！lomqjulium．$R$ ．

 oval，hucirl，and marlise with mimute pit．．

 hable that the sends were in the emath？．


 Shoutho lomere than the jointo of the culm，ant wnoth，exerpt at the top，where there ate






 sumall pits，whinine．

$$
\text { L.IPMSGO. Sclinel. gma N. } 181 .
$$

Caly．r from two to thee－valved．Coool two－valven，rempine．
1． iiflum．$^{2}$ ．
 bristles．

 conat．





 phetely cmbacing the corol on all sides，on the hack and sid ss covered with many，stroner，lo ok－
 as in the Fethts

## P．NIN＇L．M．Schial．！frn，N．10\％．

 to the corol．

## ŞlミCT．I．S゙yilies simple。


 naked．（inlyx smonth，the insorlumpos．

 a native of C＇oramamdel．

2．P．her，balum．$R$ ．
Culus from three to five feet high；very ramuths at tong．Lecuis lanceulate．Spilice
 $\operatorname{sen} \mid \omega(1)(x) h_{1}$

 $\therefore: 5 \%$















i． 1 ．．．K．

 य ： 1 ．

##  <br>  <br> 

1＇IL liaitn
















 vilih：llece mitur．il I 11 at？！

 （ikel：atal iós）retiol．
 lutiv，it the forta．

1．I！it M ．R
















T 1 1．Xish i．गM．
 of ： 4 小r dry graili．










 Alopmeares indiens? 'The small reddish whe comes very weir it.
(i. 1). holouides. R.

 sembling a slmatl \{raill af (oommon rats.

Rery. Swati.
(irows, with tho fommer, ou conltivated lanale, hat chiffly up manorst the momatains.




 of which the aper oft thr rxterion one is ammewhet three-tootled. Newal smonth, very like conmusu ofts, but smallore.



 1HOH: ; seed sumoth.

Jong. Namlula.
Teling. Wolam.
A ver! lanter aterios, grows in derp standing watice.





 six to seven-merverd. Corol, the smatl tlower is preabit here. Serd whong, sumpth, shining, white.
8. Р. लsspatum. Rimu. sp. pl. an. Mrillt. i. 352.

(imons ubont thr bordere of lakes.






?. P. dimilialmo. Limn. sp. I'l. ril. Il'illd. i. :3:3!).
Spikes serumb, jointed: fointe exeaviled, dirorerel on altomato sieles of the apex, from


A batire of the lonilisulat ot Indis. seanere.
Culms short, whligue, sumonth; whole hoight fomm six to iwelve inclus. Temes slembler,















248


 lschecomum.
11). P. יn it tatun. li.

 मether tat






















## 


 की the (a)



IVr. W. rin

The Iritan fill.
















11. I'. "1. /i . s\% , I. , I. II Il, i. 314.

 lime wintle.

HFi. Vahdr-jald:
7: \%. Gh - ili= 11 .







 is
 1) arertr!: 1 in qhatin.



Pago
Carey
 mer ome lalt the length of the corol or midelle one ; thene last wo are three-nerved, and villons on the margin.

From Chima it wathrought to the Butanic garden, where it thrives well, and blossons the whole yenr, but chictly during the mins.
 erect, maken, eobnmed and tiliform. Leares soft mal suall, ciliate, with a few lomer hairs




 marginc are slight! bearlect. ('arol two-valval.
16. 1'. limeame. Lime. sp. ph. ett. W'illd. i. $\$ 11$.

Sul)-crert, sunoth. spil:ers tion two tosix, diatitate, filiform, Flumers all hermaplumblite, awnles', and perticelled. Calycime valves, the aecessary one minate; the inner two cegnalline the corol, mad thresenerwal.

1'. linfare. Buin. Ind. p. "iz. 1. 10.f. 3, is a tolumble represemtation of this pretty relicate gress.

A mative of China, aceidentally introduced from thance into the lintanic carde whe we it is in thower the whole gear ; but like most of hier erasses mont luxuriant during there rains.

 two imer valyes of the calyx cqual and as long a- the corol, and the accessury one very minnte, or not to le fomed.

## 17. I'. cimicimum. Limn. sp, pl. rd. Willd. i. 341.

Culmes ercet, hairy, from one to two fict hish. Ruremes pedmacled, corymbed ; flomers polymanos, in pairs ; wituror valveleds of the calyous fringed ; corol awned.

Nilimn cimicmmon, J/ant. Ift.
A mare phant, native of eromme that has heen lately in cultivation.
Cutms from one to two fiet high, sule erret, hairy: F cames show and broad, hairy, and

 first four or tive joue ; all are prodectled, bowing, secmud. Flomers in two rows and in pairs,
 is sometimes wantine, muite valves therenerved ; in mine there is a seconal, or male flored, as in many speceris of Premicems.
1.8. I. emigmhostm. $R$.

Sheathes of the leaves bristly: Spihes mmerous, eorymbed. C'alyers two-valverl. Sceds oblong, smontl.

Theing. Climepmbora-quble.
This species i lative found only in the vallice monget the Circar monnains ; it grows to a great size in stantincrencer water.

Culms of ereat extent. erepping, on flonting, with theirextremities erected above the water; on dry gromel 1 have ulee fomed it, where it i in



 but no third or inmer valve. Corol as in the family. Serd dheme, smoth. white.

## SECT. TV. Spilies altorncte nat mer wich only of "tummon ractuis.

I.
19. 1. In izoides. Limu, sp. pl. ort. Willd. i. 339.

Culos sub-erect. Leerms short. sipiliclels remotes adpersect. Flowersonal, solitary, puls-


1'. Havilurn. Jimn. sp. po. eri. Willd. i. B33. Ralz. Ohs. is. IJ. appers to the the vane plant frowing on a harren soil ; this w:l the opinion of kionig. P. flacidum of the Bankisian Hoverrium sems the shme, or a varioty only.

Telimg. Oila, or Wexulor)-andeli.
It is common in every soil amel sifuation, even in deap water; in one that is riclo and
 inches. It grows in tufts, varions parts of it are of en tinged purque.




 chis common, somewhat thre-sided, and a groove on the ontside where the pikelets rest. Fhome
 of the corol, widelle valve rather shorter ; all ure strinted with erreen nerves. Cobrel, one hermaphrodile, and one male, as in stme of the ipeceibs already deceribul, always proment, except in very minute plants, and even then the stamens of the secomd floret are only sometimes
wantins. Tonctury, in ench two olvorate steales. Seed short, ownl, puinterd, slightly ruguse. 2i1. 1?. Huituns. Liimn, sj), plo cel. Witld, i. B3s.




Sity Peti-min.

## TViney. D(x)

Detiaghts in a moist rich seil, such ay the batuk of water-cmurece, lpomlers of rive fielhs, se.


 that of 1: hrize des, only here it is ont mally hater, with often as many as twenty-tive of


 rugion
21. 1. Teuneralatum. I.imn. sp. pl. ed. Willd, i. 3.37.

 Wuiz.




























lineq. Mal.
Till 2. Pridatancmindun.
13 lights in ins. (altivated, padyly lames.

















 sumenth, rinting whito
25. P. collomene. Linn. *p. p\%. A. Willd. i. :3.3.


Pago
Carey







 a little peintard, llmeererved.

Olis. ('utfle ace very find of it, ret it is not enltivated in there parts.



L. wers ferel pacture momat.










 1"19(0)-4.
 ingly like the lant descrilual puecies.
















 srombl, slishth rerurbate, with the seromml spiktots on the comsex sikle prosing on the comm-





## 



 ructues.

Bon! lymian-jil- ramti.
P. serligernm lr. A. Ohes iv. 15.














 asbl．














11 i．．1．1．${ }^{11}$（t）．






 f ，1，



＇32．l＇औ 1 R．


 －1 141 ，1．











Ilved．D）is ！a，al





















li，li Proms．

lloti． H －

Page
Teding. Kema; V̌uralon, the craint.
'This is om off thr phant call dry or small crain. It is coltivated in many parts of India,




 the rancmelets.
'l'he seed is an artiele of diet with the natives. It delichts in a light, elevated, twherably




Culms atminht, from two to there fet hiorh. Spilies empomme, cylindric. strainht, with momewns expmaling spikelets. Gilumes of file calyx hairy, and achte. Corol threevalsed, the immernct one nw มe

Beng. (ialug-bena.
A native oi bionsal, whem it is found, thmigh rarely, on dry barmen spots.
Cutms straieht, from ome to three fed high, shender as a crow's quill, hairs, particularly





 valved, thr: inmer ind smalla one nwned.

3f. I. hispmilutu n. Relz. ()tis, v. p. 18, Linm. sp. pl. ed. Wrilld. i. 346.
 1. secmud; flamers two-fold, both sub-ansile ; enlerets of the calys bristls, the midule one datgered, the imatr one awned. Corol thecesalsed. Seal ovate, pointed, pedished.

Beng. Biturashama.
Grois's on the borders of rice lands, and rich moist places. Is mever cultivated nor mate any 11*c of.



 nerves of the erhmas. The two exterion ones with harp subulate printe ; the immer one emds
 Seed ovate, puinted, polinaced.
 state.
37. 1. frumenlareum. R.
 threc-fiold, unequally pedicelld. Trelvelets of the enlyees dargered, or awned ; seed orate, smonth.

## Ěens. Silyamaka.

Beng. Shama.
Teling. Bonta-lamis ; shamaloo, the grain.
This 1 hame only frmm in a state of cultivation, it delights in a light, tolerably dry, rich soil ; the same gromul jields two crops between the tirst of the mins in Jme, July, and the end ot tantary.

Culus erect, ramons, a little "ompresed, smouth. from two to fom fien hirrh. Leares




 Curol. With al third unater vilse. Seed orate, pointed, sinmenth,

Obs. 'There are semal sameties of it known to the Hindon famers. The sed is whotesnme and nomishing, it is an artiche of diet, promicalarly mmonet the lower classes of the untives. It yichts abbunt hifty-fuld in a good soil. Cattle are fimed of it.

## SEC"IT. IT. Puncelect.

38. P. Arigonum. Linn. sp. pl. eel. Willd. i. 352.

Culms (-mping. Prieicle halsed. Learss stipuled. Pedicels two-llowered. Inmer value of the calyes valted. Corol there-valwed. Serd, hall round, smouth.
(irow: nu patame gremal, mader the slade of trots, \&e.
Cutms crepping, tilifenm. from one to two fed has, with a few inches of the extrenifies erect. Leares lameentate, suft, a litte downy; shenths eiliate, with a stipuln-like promers.
 one side only when the plant is small; pedicels iwo-llowered. I'trital pedivels uneviual.

Colyse immer valse cneullate, obiute; all the valves striated amd hairs. Corol, with a nenter,

39. 1'. perten.s. Li,n. sp, , eed. W"illd. i. :...)
 The thro silhelet- of the calyee eqmal. Flowers prlygamous. Sied, Hat ons one side, simeoth.








10. 1'. herefolius. Lis1. sp., 1. mel. Wille. i. .35:3.

 Sieed ovato, -mosoth.
(irows, with thr two preceding -peciea oushad it patoture fromd, and is rog much like the:m.






 Fmesth, white.
H. I'. Irnellim. IR.

 sumeth. live-mernvl.





 stres!al.

## 











1:3. I'. puladusn). In.




Teling. Sinla.
It grurs gelurally in wolt water amonge the (ircar monntains.









11. P'. kligenotam. $K$.
 fiowers puly untions, whitury. Sord ublong, sthouth.

Trıi!y. limbiru.
A native of the maint lwirders of rien fielits, in wit gromel.



## Page

Page
Ciney




Ohs. To distin: nith it fom I'. pulnelosum, uttention monst be paid to the leaver, mani-

15. I'. xartime friseme. $R$.

 dite mul unc mater thate












Hi, I'. miliaro. Lomatre\%.

 hiccolvenkyd.

Ti ling. Nulla shamm. Nilla-whamalon, the main.









47. I. miliecten w. Limm. sp. M. ad. Willd. i. 314.

C"ulms enect, ransus, from twe to tour fied hish: the whele plant rery hairs. Panirle


sams. Vreehbl-hwder. linoo.
Hinel. mud Beny. ('he enae.
Trtimy. Wiorat; Womshe the grain.
'this is muther of the mbivatulementia: the sme snil snits it as is proper for the





 with smmoth, coloumed streaks leugrthars, as in the last.
15. 1'. triup. R.

 wamel.










19. P. plicalum. R.
hiret, herbactous, har:la with still hairs. Lereres lamemblate, plicate. Panicle lanceulate,

 bugiminity of the cold se tann.


 abont the lengrit of the juints of the culus, mincel with shang, rivid hairs; month cilinte.




 fwol. Seed whans, rugain of the convex side.
 slirubbery, or flawer-bunder.

50, i'. nert nimm. $R$.



Page










 in the panich.

B1. P. r statum. R.

 ors ply








Fǐ. P. mont $\because$ ts. $A$.










 brec stripes.

## PILLITEM. Sitreh. gen. N. $1 \Omega 8$.

Crly.s iwn-valvet, seskile, limar, truncatel, with a bicu-pid tip. Coral inelosenl.

1. I'. rrit if $n$.

 "uld.

A native of Nefal, and of the northern pert of latia.
 1 ir on tha lat in (ind If matrickt.








 A. 13. Jmulner:, Exy.

## MILIIM. Siched. yin. 1: 10.



1. il. filigorme. 12 .

Crepping smontly，Teares slint，with u stijuliury proness at the month of the sibuatho Racemes two or thr＂，terminal，erocet．Flowers altomato，solitary，awnles．

IVind．Ǩanka juriya．
 linearis．

Crumse creeping，（except at smatl fower－learing pertion，which is cored，rombl，smentlo；and fiom six to twelve inches high．Wcores suralt，sumbli ：months of the sheatls ctipuled．Rucemes
 singra．altornsite，imbricaterl in two rows，awnlesis．Calys，glames nowly＂qual，membranacents， a little lasiry．Corol，valserarid，murntil．

2．II．sangninale．R．
 I＇mi＇•⿴囗十m ：mpninale．Burm．Flur．Ind．t．10．f．t．
Beng．（＇hiri－clival．
A mative＇of pastmre gromad．
Culms some timbs creephing near the lase，the rest erect，sumoth，and about a foot and a


 last sjucuies．

3．W．mmoswin．Limn．sp．pl．at．W＂itht．i．3fil．
smooth ；culnies sinh－arect，fion two to fon fert hish．Panicle six or right，remute，with somewhat rmmons brancha＇s．Flowers paired on common pediecls．Calyoes pointeal，and very latiry．
lound merwing in large tults，on moist，rich pastmor gronnd．
 ront at the joints that rest on the erommel．Lemes smonth．Paniche oveth，very thin，compused

 but of mapual length；above simerc．Calyx，lal ves erpual，pointed，and very latiry．Corol， the exterior valve culs in an uwled point．

## AGROSTIS．Schiob．gen．N． 111.

Caly． ，ghame one－flowered，two－valved．Corel tworalval，lamere than the calyx．

Culms．from fonr to eight inches hish．［？aniele rerticelleal；romifieration simple．secmmat； inner valve ut the ealyx as long as the corol ；exterior valve miunte．Seed makesl，ubovate， rugrose．

Teling．Yulika－tungoo－gadi．
A native of pinsture wromad．
Culms sprealing near the base，then ascombing，from four to eight incles lngg，mondly





 rugose．

2．A．tenacissima．Iinn．sp．pt．cel．Wrilld．i．37 ！．
Sinouth，（rorping．Leaves wimute．I＇anicle filiform ；exterior valvelet of the ealyx shorter than the（envol．

Teling．＇locmar－grrika．
A small，risril species ；crowing on old，poor，stiff，panture gromm，where it forms extcu－ sive blants of temacions turf．


 hong．Calyer，＂xterior valye sumbler thm the interior．Corol as lurge and long as the imer valuelet of the culys．

3．1．Mulreila．Linn．sp．pl．ed．Willd．i． 366.
（＇reping．Leतres pungrnt．Npiles teminal，solitary，frw－flowered．

4．A．diandra．Limn．sp．pl．ed．Wrilld．i． 371 ．Relz．Ols．v．I． 37.
 expandine：flomers pmired，dinudrous．Catyx seareely hati the length of the corul．Secd maked，oloovate，murose．

Being．Bena－joni．
A mative of moist pastare gromud，in the vicinity of Calenta．
Culmse nearly crect，from one to there fert high，almost corered with the sheaths of the leares．Lerows inarow，tapering to st fine foint．sumotle；months of the shatha shiphty
 alternate，compound，secmingly smple racemes．Flowers in pairs on a common piduncle；

 hrown, chatust lumpe.
5. A. mariane. $K$.

Cublas erect, fionu four to twelve foet hing. Panicle orate, expanding. Calyces minute,


Roof lixneons, premial. Culms cret. from fome to twelve fert high, wten as thich as



 fonr times shorter than thre como. ('orol, esterior valve frinsend mond the margius, with longe, sult, white hails. samens two.

Obs. 'The traves of this phat are mast more like thoe employed by the chinese to pack up various articles with, than any wher I hase yet seen.

## 

Pulygunom. Calyx, slume 1 wo-valsel, one to threc-lowerel. Corol, qhane two-valsed, the formalmonlite a whed. Siamina three. Styles two.

1. II. nerrosua. $h$.



1 nभtive of Coroman lri.






2. II. ali las. Il.








 stamina thres. Nates two in the hernaplaredite, in the uahe hermpherntite the rudiments of two but tw micrus.


## Polysamous. CyPar twa-8




 eneh themer.





















p.ima Caroy E்u.
the rhenths crownel with a ling, two-phrted lignia. Spikes tormimal, ami from the exterime axills prired, erect. from two to threw inches lamp. Rachis jointed. Flowers in prirs: one


Srssile flower. C'aly.e two-vilvel; medelets in size nearly mull, the cxterior me
 branteons milves; the immer valve of the hermuphrodite flower has a long twisted awn issminef from the middle of its burk.
 one of' whith iv alva ammal.
3. I. semisuryiltulum. $R$.

 asimul.

A pative of newly formed pasture lat in lBengal. It is a mare grase, appearing about the cluse of the rains.

Calms ramons, resting on the ground neare the inse, and the re striking ront at the jointw,




 ses-ile, buth with their lowe bearded. ('elyces of both flawers almot alike, two-fowerevl, two-
 versely rugose, us in I. rugosum, upher pentions striand hogrthays; margine of the lower rugne portiom notehed; of the nper striated part ciliate; inner lonit ohapud in both, onc flowet, is mate, the other hermapherlitt: Corol; ghames of emeh Horet twovalvet; the exterior mulvern of the hermaphorlite foret hiftel, with it lomer arista in tho fork.
obs. It murht to he compared with I. berbertum.
4. 1. conjeqのatum. 1 .
lartly crepping. leaves short, atente, with broul cortato base. Spikes conjngate, seemingly mited. flowers paileal, with the exterion valves of loth calyees cyen, and very woully; the sessile one hermeplirodite, atwed.

A native of pasture land in the vicinity of (ialcutta, apparing in the wonl weason.
colons very ramons, reephing near the has, tilifom, smoth, leneth from six to vighteen
 point, shenthe smooth. Spihersemjugate on a shemer, chavate, purphe pedmele; unitedat the base, at all times continuiug chose as it one. Ruchiy sery hairy, and jountel. Flumers fiom finy to (ipht pairs on each -pike, one scosile, the uther suh-sessile. Calyees nearly alike, twovalyed, tweflewered; the csterior valves wem, athte, ntal unermmonly woolly on the bark; the

 sile thwer bifid nad awned. Sifamina three. Styles two.
5. 1. gniculotum. $R$.

Stems penimbite, erepping, smorth. J.eares emsifomn. Spities eonjugate, apparently only one. Calyces two-Howered, sincoth, and (resten) ; with the hermaphodite flowers awned.

A sunll speces, a native of Bengal. Rowering time the eow semsm.
Culms iwhined, from one to two teet lonce, viry ramous, ditliwe, genicmlate; joints large,

 an to sond omly une, monoth, nbont an itwh long. Rerchis jointer, flexurse; angles sharp, und
 hermaphentite and awmel, the other nule and awnles. Exterior palves of the soscile flower

 mancronato, or suh-iristate, and the exterior one crested on the hate under the apex ; all are sinewth and marked with green, longitndinal veins. Corols two-valsed; the excerior valve of the hermuphrodite flowers bifid and awned.
(i. I. trnellum. I2.
('recering nemp the base. Jeates lincar. Spizes paircd. Jixterior valve of the sessile flown trumete, the rest enspidhte, fermaphrodite flower nlone awned.

A weaks strumpling species.
Culms weak, erecpinger and ramous towards the base; fowards the henda crect; the thick-

 Frelyg of the semile flowers two-whed, two-flewered; exterior walve rituse and horderel; inarer valve andiur in an awled point. Flowers twh, one hermaplantite with a two-valved mornh the exterion of whel ends in an arista, the othere is mate with an awnless two-valved comol. Calys, of the pediedled flowere both valuos alike, and ending in an anded point ; it comtains is single flower, which is sometimes hermaphrolite, and sometimes male, with tho rudiment ouly of the seeond flower.
7. 1. repens. $R$.

Creeping. Leares short and nentu. Spizes paired. Flourers all polygamous and awuless ; glumes of the calyees suouth aud cu-jpidate. Rinchis sumoth.

I native of Palo Pinang.
Culmes crepling, thexu(2), smonch, from one to two feet long. Leares lifarions, sworlshaphent, -hert, ribid. sheaths a- hone an the juints, a litthe hairy, with a atipmlary process at





4. 1 लिलilitium. $R$.



 athont the elowe of the mille in (het iner.







 sith a flat hiopill ked. Corolo of erech it ret imo-saibult

## A LLUTA.





1. 2. aristata. lina. sp. pl. ert. Will 1. iv, 43s.

$13 \cdots$. (i,rimm.
Te try. l'onatrangali.










 Ithe nte of ont er ne ye il reta.
$\therefore 1 \quad 1=i+1$ 位。 $l$.
 ane heramphernlit., n: 1 cume male if were, all awiles.
 cool -isur.









 '1: 1. neteriur cian thin and t.rath-are nt.




## ATRA. Scherl. gen. AV. 112.

(rivar \{wo-vaivel, twothowered, with at the ratiment of a thirl.
A. jiliforiniv. Aıs, $1 / \mathrm{se}$.





eompred of niternate, simple, one-ranked, filiform, expanding racemes. Flouers in two rows. Caly.x two-flowered, large.

## MELALCA. Schreh. gon. N. 113.

Caly, two-valsend, two-flowered, with the rudiment of a third.

1. il. dimihulte. R.

Culms from funr to five feat hich. Sopites turminal, expunding, mostly five-foht. one-flowernd ; where whelets of the corol ind radiment awned.

A large buntitul species, und native of halices, thickets, fe.
Cutm.s neme the base procmabut, but when -upportal by buales erect amd often from fone
 four to tive, dizitate, semmb, sprealing, tilifom, from six to nine inchen longe, hatry at the

 Corol, valve mequal, the largest has al hag ann issuing just bulow its ipex on the ontside. Corpusele, ar nemter flonet pediectled, and awned.
2. 11. refiracta. 1 .

Pemmial, ascruding. Secures latucenlate. Paniele ovate, with the ramitications refracted. Prtels beamed, with stiff eftated briatlew.

A native of the Moluccas, and from thence intronduced amonest other plate, into the




 one. Comol, exterion chanes, whictly ot the second Hower, bearded with reftracted, sharp, still bristles which tix to every thing that tone hes them.
3. M. diandia. $R$.
smooth. Culms from two to fonr feet high. Secres lanceolate. Paricle of long, simple, expanding raecemes; flower:s awnles, diamiroms.

P'oa mulaburviea. Jimn. sp. pl. ed. Willil. i. 391.
A native of mometans on the (oromatudel coast.
Culms ascemding. fiom two to four fert high, firm, smonth, abont as thick as a fine guill. I.eaves hifarions, lameeolate, striated, smonth; margins wavel, mepmally divided by the nerves,

 nate, simple, sprendinur momes. Flumen :awhens. Calyar twoflowerd, with the charan teris-
 one has its margins and keel ciliate. Slamens two.
4. N. Iutifulize. $R$.

Peveluial; culins ared, simple, from four to cipht fect high. Leares lanceolate. Panicles large and open, with alternate, componnd droopuns- bramehes.
 Roberet hyd, where it hlosemms in Aarel, at which period :mbl indeed at ull times it is une of the most clerant plants in the whole order.

Stems rery momeon from the smme ront, erect, stomight, and always withont hanches, more or lesw inverted in the shathe of the leater wary sumeth, texture remarkahly hamb, and
 cight fiet high. Leares kessile on their she"the, laneentate, wometh; from six to twe nty inches

 smouth, both ends rathir pointed.

## CIILORIS.

Polyganous. Caly.e two-valved, fom two to six-fowered ; homaphondite flowers sessile; male, or unenter omes pedicelled. Corol of the hermaplrodite thwer two-valsed; of the mate, or nenter one-valved, nll of them awned.

1. C. tenella. In.

Spikes solitary' ; spitelels with three or four hermaphrodite awned florets, and a nenter rudiment.

A nitive of the Peninsula of India.
Culms delicate, ereet, simenth, about in foot high. Leares rather large in propertion
 Spikelets altermate, mul alternately pointing two ways. F\%omers of the spikelets, or to carla


 broad lancertate, smooth, achte, permanent. Corol of the hermiphoolite two-vahed ; eaterior valcelets obeordate, emenllate, awned; mugins smooth, hut with three lairy nervis on the batek and sides : interior ollondor, with edges ciliate and always awness.
2. C'. montana. $R$.

Spities digitate, strond, muted at the base ; hermapherodite flower ciliate, and awned; neuter of three anmlons ratrew.

Pago
This is a native of momitanons tracto ouly. It diflers from C. barbata only in the following re-pects. 1ast. The spikes ure in number from four to six, and uniterl into a common flower-haring rachiw near the lass. 2d. The nenter foret has a third awned valve and the awn are all sthatw-entomerel.

Spikes digitate, second; hermaphrodite corol ciliate, aud awned, ueuter of two awned walces.


(irows in large tufts on pature gromal. de. very common every where.
 hifarions; margins near the base and mothe of the shethe cilitte. is ifes th maimal, from
 hairy, nor jointed. Flomers pelietlect, atterwate, in twor mws on the out-it, of the ariker.


 fomm nomer ; it -tathe on a short pertied and cotsists of two obeovate, awned valvelets; ouen and marepin of the valvele to colsured.

Ohs. ('attle eat it till in thower ; atter which I never saw any manal touch it.
4. (". Mrolystuch yna. R.
 cilinte margins ; muther therets two. with -ingle shath ralues.

A native of the Crminsula of India.




 checl. onte-valued, awmed, theuthr thate. The oxterier I lvelet of the hermaphredite flower has its margins ciliate.

## POMMERELLLAL. Shreh. gen. N. ST.

Calyx, glumes two-valwid, from three t) fordeflowered; ratelets fome-chett, an med on the bark.

I' Comeropiae. Linn, sp. pl. ed. Ifilld. i. 31 t. J"tht. en. pl. ii. 393. R. Coram. pl. ii. $N .131$.







 two styles with fenthory rectured stizums. Seed as ho demerite it.

POA. S livil. ifin. N. 111.
 on diatichums spik lets.


 flewered.

Taling. Wixula-tallum.
I betive kimig allay it Por malabarien.
firexve net mountains atme othu r dry vitmations.
Cums straight, simple, from twelse to twenty-four inche- high, a lithe compressed,



2. 1'. rkimensis. Livin. sp. pl. ped. If:lld. i. 3!1.\%.

Imonth, fran two to form feot hich. Pancle of many alfermate, simple, expmaling, secuml ramifiontions. Spikelits alternate, short-palicelled, from fimer to sin-flowered.

Beng. limat initurti.
 there io timels moiveture.




Page
panding in two rows from one siche of the simple branches.
3. 1. prucera. R.

Ginonth. creat, frem three to five feet high. Ligula largn ; ramifications of the paniche simple; spikpetes peticelted, rather remote, linear, many-fluwered.

Teling. Rewa.
Delighits in a moist rich soil.
Culus nearly erect, branchy, from thres to fire fect hirh, roumh, smonth, much covered by the sheathe of the heaves. Leaves longe, slember mad smonth. Sheaths longere fhan the joints, with their months crowned with a long raged membramecons process. P'anicle large,
form, expmenting lacemes, seathomed what the eommon rachis; which is filifomens, waved, thece wided, mul hispid. spikelels altermate, pealicellech, linear. remote, many-floweret.
4. 1'. cynosuroides. Lina. sp. pl. ed. W'lltl. i. 393.

Smonth, straight, fiom one to three feef hiyh. Leares long and acute. Paniele strnight, sulbertinlricel; ; ramifuations larizontul; spikelels depending, from six to twelve-flowered.

I'niola hipinmata. Limse sp. pl. 10\%.
Sans. Kioosha, Kootlı, Iurblıa, Puvitrens.
Cusa or Cusha. Isiat. Res. iii. 255. and 490. and iv. 243.
Bent. Koorist.
Teling. Durbha, Dullıa, or Durpa.
A strong evarse species, a native of dry harren gromml.
Thoot creeping, peronuial. Culus stritirht, rigid, rouml, smonih, from one to thren fond high. Leaves numerons, very long, chactly about the base of the culus, ricisl margins hispitl. Punicle erect, linear-oblong, oftem lending to a conical ferm, conprowerl of many somewhat there-fohd, verticelled, horizontal, short, rigid, sicund manitications. spikelets many-flowered, depending, in two rows, from the mader side of the ranifications. Corol, valves pointel, the imer one rather the largest.

Obs. It is employed by the brahmuns in their relicions ceremonics. Cattle do not cat it. Can this be Gramen capillaceun? \&c. Pluck. Llm. p. 176. t. 3\%. Fig. 2. Cusa, or Cusha, the simserit nume of this much veromated grass, was givers to it at a very emrly period. by the Hindoo Ihilosophers, and bohered, by sir Willian Jones, to have been onnsecmat to the memory of Cush, one of the sons of Ran. See Asialic Researches, rol. iii. p. 4!0. If so, we have here a wery ancient preedent for the present very convenient practice of giving such arbitrary names to plants, and to their families.
5. P. ciliuris. Linn. sp. pl. ed. Willd. i. 402.

Simonth, sub-erect, from one to two feet hirh. Panicle contracted, linear, with the lower. ramifications remote. Spikelets from six to twelve-flowered; inner valvelets of the corol ciliats.

Delights in the same soil and situation with the last deseribed species.
Culms near the base procmbent, above erect for one ar two tect. Leaves as in the last. Panicle linear, from three to six inches long, the ramifications short, thone of the lower part stand at some smath distamec, their insertions are not hairy. Calyx from six to twelve-tlowered, not eiliate. Corol, only the inner valve eilinte. Seed as in the lust.
G. I. cylindrica. $R$.

Ereet, slender, fiom twelve to cighteen inehes high. Leaves slendor. Panicle eylindrie, crowided with short, adpressed, momons, altemate branches. Spikelets from six to twelve-flowered. Flomers diandrons, imer valve of the emol ciliate.

From Canton in China the seerl was reeeived into the Botanic garden, where the plants grow freely and blosson daring the rains und the cool season.
7. P. ciliata. $R$.

Smooth, sub-erect, from one to two feet high. Panicle colummar; spikelels from sir to twelve-flowered; margins of all the valvelets of the calyces and corols ciliate. Seed shobmlar.

Is gencralty fomb on a por chey soil.
Rool pereminal. Culms (reet, rigid, smoth; fiom one to three feet high. Leares smonth; mouth of the sheaths downe: Panicle colummar, from two to four inches long, branches thereof erowded, insortions lairy; spikelets from six to twelve-10werch. Calys, margins ciliate. Corol, the margins of both valses moll ciliate, the wherion one hares nerves and is pointed, the inmer one two-nerved. Seed obovate, swooth, brown, dropping fiom tho corol when ripe.
brect, smonth, from one in theen feet high; ramifeations of the linear paniele short, and eollected into remote fascieles. Spikelets from six to twelve-flowered. Seed obcordate. Tcling. Nukmmaral.
frows abont at the borders of rice fields.
Culms in merally crect, fiom one and a hinlf to three feet high, round, smonth. Lfaves narrow, houg, shanf, ancl monoth. Panicles erect, from six to twelve ineles long, linear; ramifications sessile, nembly crect, remote, partiontury thase of the lower prit, where they are often 1 wice thair lengh asmuler; me, two, or more from the same pint, which makes it appear. rerticelled. Sjpikelets minute, pediedled, from six to twelveflowerd. Corol, vulves smonth. Weed as in the last two spereies.
9. Г'. Mulans. Limn. sp, plo ell. Willd. i. 395. Retz. Obs, iv. 19.

Erect, smooth, from three to tive fect high, pariches coutracted; ramifications adpressect,
1), "rhte in a rielh, mois wil, surth is the hanks of water-courses, burder of rice flul, 6






 $82+1$.

## 1). I', /I -alra. Re.













 elame of the wral ciliate.













 that I hate yit suth.
 if not all the Poas.


 he uf the cormatalith.


















 1: 10. el y Lis $h$.




Page
Carey
Ed.



 limen, firon aight to twelve-flowered, puplish. Corul, outer valve three-nersed. Weed globular, summth, and brown.

## 16. 1'. mullifluta. It.

 the plant, modiling. Spitedels crowded, from fitty tu sceventy-ilumered. Seed ghobular.

Is fismat on dry clevated platers.
Culms nearly eroct, maked, exoplt at tho hase, trons six to twolve incher high, mumd,



 outce vilve thre-ncered. Speed romml, shmoth, hrownt.

Freet. smontl. from wne t's two fuct high. P'rnirle ovato; rinnifieations short, simple,
 fluwered. Shed oblontr.

Beñ. Kimuer.
A most elecrant species. a native of dry elevaterl sitnations.
 one to two time ligh. rommel amd smonoth. Leemes lew, sumall, mud sumoth; monflas of the

 ered, remerally of a bhish puphe eolour. Corol, outer valve three-neved, as iu f. misttiffora. Šeed nhlonse, smouth, browti.
18. P'. flestucst. R .
 cle orats, crowded; romificelions solitall!, manums, wpanding, insertion- hairy ; spifelets twenty-

 w:al, very large, gronerally more than half the denfth of the whole plant. bramehes alteroate,
 nicle. Spikerefs white, or pale grecn, lancoulate, large, nount \&wenty-lowered. Suad glubulas. Inown, and smontl.

1!). P. penisintuta. R.



 which is about the same lengrth, making the whole hoispht fiom there to tomr fiet. Lerares


 valve roumb at the apox. mul thee-nerved; inner one slighty ciliate on the buck.
20. 1'. gungrlica, $R$.

Grows in very dumse tufta. Pancle thin. Spikelefs linear, from thinty to forty-flowered.
A netive of the banks of the d:unces, but sesmee.
Culnav numerons, mad bimons, growing in crowled tufte, smonth in every part. gmeral

 minate, smooth spiknots, of fron twenty to finty flowers callo no they alsamec from the תןex the lower flonets drop, leaving the rienag rachis anked rs they ripen. Caly, buth values smouth and obtase. Seed oval, smonth, frown.

## DACIILIS. Schreb. gen. N. 117.

Caly.e tro-valved, compreased, onr vulvalet limger, lieded. Seeds ferr.

Croppiner. Lerues rigid, with shimenont points. Jferuls glubular. Calyces from six





 mung, closely crowled, sersile, rummlish sfikekts. Caly. from six to eight-fluwered; glumes
epmal, thorter than the thwers, nituse and lairy. Corot two-valvel, exterior striated, hairy, Page anl obture; ianer membratucenus, involving the stamens and pistillmu. Stameas three. Anthers blac.
2. 1). brexifulia. Lias. sp. pl. ed. Willd. i. 410.

Greppinz, ramoua. Leceres alo rt. Weals anl, clobular, composed of three, secund spikes.







 as in Pom, with it-back ciliate. Seed owal, compresed, smouth, and browa; dropging trom the wret "1hem ripe.

Th Limaan difinition of the genus does mot acent well with the only two speries 1
 not Bur ann, in his Flora India, mate them Ineth bel mer th this grnua, I honhl ecrtainly


 because they have mith of its genteral hatbit.

## ELICUSINE. Cirrt. Curp. i. p. i.*

Calyx twonalienl, amtaining many. Howera of two expal valicletw. Seed with a comple te momberalacorn-ar:l.

1. 1.. C'ramam ficert Crop i\& 1.
 tati, incorrel. C"alomer fiom thre to six-t Nord. A ed round.




l'ousw, or early solne, is the Telinas wane of the grain, fatd somece the name of the plant.

Bragg. Muruma.
Hamere of the (natsi Mak mutans.








2. E) strict $1 . B$.
 oraigl t. Cwhe ofrom three t) a doll in cretl. Seed round.
liling. Bealela, viz. creat =ules.
Mond. laserem.
This is still more cultivaterd than the last, and differs from it only in leaving the githes






 118

The second sort remeris a richer will ; it is sown later in the beacon ; its iuctense is groiter

The thirel sort, maddi rubu soloo, rapuirus a still richer suil ; land fit fors it is acaree, and

 ant wil are lavemrable.





Olos. Gilitle are ins foud of it.
5. K. ierticillula. $R$.

Erect, smenth, fixam om: to foul feet himh. Lectes lifirions. Spikelfts ummerons, pumi-


It iv at Lative of mist pathere sromme.


 the spikes. Calyx from cirlat to twelve-jlowaral. cornt-like. Conol; edfrior ralie endint
 the aril is fully ats delicaste ins iu li. agyptica, and is nearly foume whole on the full grown or rijes seed.
6. E. calycina. $R$.

Frect, foun two th thre fore hierh. Panicle linear. Spilies numerons, altemate; glames of ther eilyces equal, many times larger than tluse of the corol, dagerered, threc-anowered. Seed thmes-sided, rambled.

Ieling. Winlata-toka-mml loe.

( "hms eront,




ome sped, mach had tirentr-flye culmes and cach of thest eulms had on an arerage two latemat






In the hajammely (ircat, where these observations were mate, the soil is in general rich, and the so is mithourable.


 righare.

Gmaten va-cinum. Rumph. Anh, vi.p.10. t. 4.f. 1.

Hinil. Makura-jali.
(frenve in prather sroumd and hy road -ikks, de.







Ols. Cattle nre find at' it.
4. E. indica, Ciart. C'arp. i. p. 8. t. 1.

Fiect, snouth, from one to two inet hizh. Leares hifurions. Spizes from five to seven, digitate. Cetyess from three (t) tive-thowerd; seed cohluge, three-nded, rupuse.
('ynosarim indicns. Linn, sp. pl. ed. Willd. i. 417.
Hind. Mal-ith uri.
Teling. Kusth, viz, wild soloo.
A common conare npectes, fomml growing in large tufts on past ure gronnd, road sides, de.
Culimatateminer at the bate, ramons, a lithe compresued, sumeth, from one to two ferte





 though 1 have oiten looke. l tor it ; it anay theretore be a species of Dactylis.

## ARTMDO. Sultocl. qen. N. 121.

 hair".




Trliny. I'atnes-(4)





 the til























 (4) al with tham.

## 


 1 winlis 1 ... rull. 1 thren-mers 1.
tray. (i, th 1 ml .










 pporic liuud arowitus on tise lack of ita asarior vole.

## 






TH-1-1








## Pago

 Cureyand disagreeably cold. The hiflorence between the open air and this refredtod nir, is to the

 hy it the hot seison which used to be an much dreaded, is hosw remedeal to those who eam kerp within doors tolemble. I have newe observed any bad eflects frem this cool moist air; howerer the hat semson is the most lealluy of the whole jefre.
2. . J. Jystrix. Linn. sp. pl. ed. ウ'illot. i. 15y.

Culms dillise, abont two feet long. D'ancele oval, large, thin; ramificalions spreadine, two-forkot.

Teling. Shilpuroo-killi.
This speride is a native of the same soil with the last deseribed.




Obs. This simedos is of no nse that l kume of.
3. A. drpressa. Rel7. (Ibs. iv. 22. Linn. sp. 1\%. ed. Willd. i. 461.

Asecnding. ramons, from twoler to rirhtern inches long. Punicle linear, of six to cirlht altermate momitimtions ; nlumes of the calyees kecled.

Trelins. Nialli-pootiki.
Is fomm nunn the same kime of hand with the two last speries.
Culms lelow depres cel, ramon- ; abowe nseending, tiliform, ronnd, smonth, solid, ripid;
 fewer ramitiontions than in A. setacea. Calyx, the glanes luve a large green keel. Corol, fe. as in the ferms.

Ols. 'I'lis is also so far as 1 know, perfectly uscless.

## MANISURIS. Schrel. gen. N. 1rio.

Polvgannus. Rachis jointed. Mermaphrodite calyx two-valselt, one-flowered. Corol two-
 two-valval.

1. M. Mıиrus. Linn. sp.pl. ed. Willd. iv. ภ15. Curom. pl. 2. . . 117 .

C'ume creaping, from nine to aghtern inclus hish. Spihes solitary ; exterior valve of the hermapheodile "alyix pandiriform and enmrginate; male calyx two-flowered.

Trlimg. Nialla-pmookon.
Is a mative of dry clevatel smoty mround.
Culms servial, rammo, diffuse bein the hase, rootine at tho joints, extreunties aserneling,




 of the spike, while tho male ohes pomane two sides, the lathe is naket.





Mal: Fiowfirs. Cel!ye two-floweral, two-valverl, valviluts noarly equal, boat-shaped.


Liamona, shb-rect, hairy, thom one to two fect high; spikes tisciclad. Ulermaphradite calyx owal, and ragose ; mate or nouler onc-flowred.

Growa ammor lmshes.
 merons, vory hairy, stiff and slarp. Špiters terminal. and axillary, perlancled, sevoral tonether,


 the male, or neuter me placed on the sides, the former are grlubular, and the later lamioolate.

HERMIPIRODITE FLOWERS. Caly. onc-tlowered, two-valvad. exterior valro round or rigrid, and rery ragose ; inner valve less rigid. Corol two-vinlved, membrmateous. Stenens thee. Slyles iwo.

Male or Netter Flowers. Calyx two-ralved, nne-flowered. Corol two-valved. Stamens three or none.

## ROTTBELLIA. Schmeb. gen. N. 1572.

Rachis (comeratly) jointed, varionsly excavnted for the reepption of one, or two flowers in a two-vialved conly, in cuch excovition.

1. K. glabia. R.

Near the base crecping, with extremiticaerect, smontl. Leaves bifarivus, all hermaphro. dite. Calys one-flowered ; corul three-valved.

## Breng. Buckilia.

A uativ. of Bhamal. where it grows on pasture lands, the borders of rice fickd, and other monet places cittle are fond of it.
 a diont or mome, the ruminine part irmu one to two, or even there fet, erect. Lectes altormate, hifarions, appreximate, hort, shreating, eniform, month. Sheaths shorter than the joints of




 ewar gimite, the nther atote. Coroh, tha hrmadirexlite and male there-valveal, one valve on

2. R. crompresst. J.i n. sp. p1. A. If:ll l. Hio. ('uram. pl. ii. J. 156. Retz. Obs, iii. 12.
 terminal ; rach is juited; fluters opposite, bermaphrulite calyees one-llumered. Corol threeralvel.

## Reng. Par slieroo.

Tiling. Sh rusi, i. e. lake panorkun.


















A utive of merntain.









 membinameras.

1. H. moryabma, Jinn, sp, ph. ed. Willd, i. 113. Cormm. pl, ii. .t. 147.

Pohs anmonse erect, smonth, from there to five fort hich. Spikes fascield. terminal
 generally two-thweret.

Trling. Methlu-pmookoo.
1R. pumetata. Rita, Jhe iii. 12.
A"Wiloperaltata. R.P2. Ule ii. 27.
A rative of low rich pa-ture gremad, frows in frect thfts.









s. H. prefuratre Curnm. pl ii s. 1s2.

 ather lat rom pirmentit.

## Braly. Kurhs.


This "pecies is rather scarce, it grows an low rich panture ground.

Pasgo










 couformige th that of the (: lya, but sumbler.
(9. IR. setwert. Curom. pl, ii. N. 1is.
lient, setmenn, smoth, fiem iwn to sir inches himh. Spilies anlitary, timminal, unila-

G. $\rightarrow$ आ. on oht walls.






7. R. Thomed. Limn, sp. pl. सd. IFilld. i. .tsit. Curom. pl. ii. N. 132.
 chis met jointed. Calyees me-flowert. Corol manslved.
12. Thombin ant piloeit. Linthe sp. ph. ed. Willd. i. 46t. 5. are, I suppect this very species.

Grows, with the last species, on old malls.
Crtinm mimate, foret, compre: l, abe ur an ineh hiph, exclutive of the spike, and two



 memhrenacoun, hary. Stane ws three. Nly/us two.
U. Ii. bithura. Ii.
 for thif ree ption of the two flowerey - pikelets.
 setareas; nut were they not two-dowered in the same caly x I should no doubu have taken it for 12 . incurvala. Linn.

Culms scarecty more than may be cultent the ssmpe, of the sjikes, the whole plate beith but two or three inches high. Leerves many, tiliform; rachis rigid, and with the shathes somewhet pilose. Spikes terminal, solitary, subnhate, almut two inelos lour. Rerefis not
 two valved, two-flowered ; ralues wery megual, the exterion beine maty timestare" that the funer me, which is a minate scale in the lontom of the "xatations of the radis, and mot
 short pedicelled, each with a corol of two equal membramaceons, smouth valves.

## IIORDEUM. Seltre. gem. N. 12).

Calyz lateral, two vilved; valves narow, amminate, distant, altogether forming a six-


1. II. hreastichon. Limm. sp. ph. ed. Wrilht. i. 17.3.

All the flowers hermaplnodite and awned, placed regularly in six rows.
Sans. Yuva, Situshurka.
Beng. Inlar.
Arab, Sherem.
This specied is much cultivated in most of the temperate parts of Uindoostan during the cool searion.

Caly.r two-v:alved, solitary, wemernly fluee-floweral.

1. 'I'. restirum, Limu. sp. pl. crl. Hille. i. 176.

Calyces fum-tlowered, sutricose, smooth, imbricate, awned.
Suns. Findtooma, Šomuna.
Beng. (iom.
HIINd. Givon.
l'ers. Gindum.
Alab. Burr.
Two varetice wo very gencrally cultivated in the interior nud northern parts of Hius





## TRIANIDRIA TRIG)N゙I.

## 






Jilin Viri Alasirasi.





Peug. . l lipara.






 d!? atas on chinefly.

# CLASS IV. TETRAN1MBIS MOAOGOMI. 

## I:llll.|l.d. sidith Im N. 111







I 11 tise of Pul, Pital












 1110 al a alo - iliate.











3. 12. 4,1 lim. 12.




Papo Carey
 Auril.




1.









4. R. rolurater. RI.
 and below the lealso. smoseth. . .









 of the e ell. Sigle filitorm, Sligma liswe, cutire.

## 





 Flomess avill: $1 \%$, (xowrlat.






2. 11. If $\cdot n$ imelaler $R$.



A native of the Nalay Inlants.
3. II. scoullens. $R$.


 during the fot and liainy stanculls.

I.





 than theromol "

1. Il. lineralu. R.


(ilsesula romud, hairy.
Ninlime of ('hittarongr, where it hlossoms during the rains.
2. II. . firrionlariat. Limn.

Sulfoliclutummes, diflisse, adserndinge, villons. Secters lameenlate, sul)-spssile, smonth


Macigili. Rhed. /Iorl. Vul. x. 1/l. (ii3. l. 32..
 From the former place the plant was intruduced in 1515 iu the butumic grarlun near Calcuta, by Mr. Smith.

## Bens. . Tintiar-lit:a.

Paga
Curey









 obtons. Crysute small, romal, ti_haty finrown l.

## 


 With a periapurim.



 :xभtam.












$\because .4$. $1:$



















 $1=1.1, k r$ tind toml.
: s. serrl. $R$.




4 -a alishos. is.










Page

5. S. lariv. le.

Biemmial, stmight, romad, sumoth. Legmes sub-stesile, lanceolar. Corymbs tominal. Anthers hid in the betroded month of the intumbliblition conol.














 their borders being enlarged with a eonice knoh on the out-ide of their pents.
(i. S. limeatu. $R$.

 truded.

I native of the Mulncens. The linente, hairy, very achte, tiplering leaves, lonsy sharey
 specties from all the other Bant ludian -pecies kinown to me:
7. $\therefore$ mente. $R$.

Fivect, simple, nearly womd and mumoth; leares fuetioled, lamewhti; 'mire, smonth. Flouers axillaty amd tembinal, stexile, crowion.

8. S. strictu. Limn, se? pho cel. H"illd. i. i7s.



Trlin!!. Sisokuknlu.




 eched, opening at the apex. Aepel solitars.
Y. is. costrater. 12 .
 little axillary, proliferons mubellets. Staminar protruded.

Medyot is Auricularier. Linn.

 ripens its sed during the greathet part of the yar.








 protrmded beyond the mouth ol the corol. Gierm bemeath, brad-turbinate. styte about as


1(1). S. semierecta. $/ l$.
Stem whimaly bent, bat asteuding, squme. Branches brachiate, alternately smaller.
 turbinate, hairy.

A mutive, 1 suppose, of sumation, Rs the plant from which this deweription is takern. sprung
 nut a hald high.





 contre. Luthers within the inbe.



















 grent fert of the whr













 the 1012


## 




 $1 . \quad 1$.
















## 




1 If $1 / 1 /$, +1 in $K$.






















 sfle，romad，smuvih，with a de p phit oin wile silh．
 brathehers are used ta diered with．

## 7NOR．L．＊Ścharl．grn．N．11；7．


 courcal，and furnishel wilh a priop rom．

1．1．ramerime．Linn ep．pl．At．Willd．i，Gras．














 flat int the uther．
 tion of this species，and mueh more like u！Is mef felyons．I have therefore chonbthilly grot－ ed it for that plant．

2．1．Buthtluce I。R．
 corol orite，abtuse．Bervies crowned with the obell cirlas．

I int．R \＆ir．fo z゙す！























[^6]TETRGNRIT MOSOGYIA




3. I. finty is If.



















4. 1 viry. 1
 Leci- of it.

































f.) I. rum fiolin. li.



 Fer i in lufat aml sipt.mber.






















 in this short，twhimate and rex．＇The（onvombs also aliffer somewhat．luboth species the flowers are white，hat in this much harere．

## 7．1．brathivin．$R$ ．

Shmblss．Leares short－hetiohed，lamcontar．Penticles hrachate with remote，diverqing lranchers．


．













 girdun．

 mom toward the base than at the exterion emb．




3d．In this the anthers arm sosile，in that they have shat filaments．
8 ．I．rillusa．$R$ ．

 ohlong ：and ciliate．

## Bray．Chaonlarer．











9．1．（re＂minnlıt．$R$ ．

 （i）ril．

Arey elarming shmbly species，an ative of the formis near silhet，where it hosenns


 nive of the corol ovate．Style hairy．Brivits romme．

Traiu！．＇T＇：dder－pullı．



Flowering time Fihruary and Mareh.





 of a je:i, hiluck.
11. I. Ins bueto. R.


 carli. F ineriaf time the hos as axem.


 ditille. alo








I2. 1. v lu an. l?.



f) \% I l', h.l dh il.







 licisiones reviry 1.

## 1\%. 1. Piotlor. It.







## 

 here is a sumb =il.






 11 l l, 1 ! f .

 Beroves gholular. 13. 'f. Imei.
















Curey
Ed it mat rewembles.
16. 1. comyes/n. $R$.

 comol ohblur, and obtusi:

A native of the Mohneras, mid diflers from 1. Julgens in the firm monewhat corimeons lemves, with stronger paraltel veins.
17. I. Ianceoolurier. Coblehr:


 Authers linear, with denply hitid hase.



 comper col widened joints. like wht the ofher parth of the phe smoth. Leares s.monting,

















 ม่с:al.

## 






A native of t! 1 latem of 1 fonimua.







 size of a pata. Seeds on unts rernlaty six, sul)-(elindric.

## 

 ferior, one-sereded.

1. s. persiede. Limn. sp, pl. ed. Willd. i. 605. I. Corom. pl. i. I. 26.

Rivina pernictulala. Nussl. med. x. p. 899.
Ta liny. Pondatwaragrowenki.
 it serms to grow equally well in (xry soil. Produces thowern anl ripe fruit all the year romal.





 ferior, four-toothed, permaneut. Corol one-petalled. T'abe short, bordur four-cleft ; seyments





 - tred of icere eanvideribl perwers.

## 





1 \& ationes. K.






 it il tl fr fr \&











 15:. inwir.











 (4) 1
















 at -

1. '' , catras. $R$.



Ha-handh i. Axerl. Itere is 29.3.

## Be 7. Mrttra, Wntlumig.




Page






 nra lownow wory mearly nllied, thomgh I think sufliciontly distinct to authorize their being conkidered ats ditherout.
5. (.. macrophingla. Tald. Sumbust. iii. 1:3. t. 5.3.
 neath. Corymbs axilhmy, dichotomons, mather longer than the petioles. Berry minute white.

A native of silhet and ('hittarourg.





 tinct and :leute.
(i. (') rectminala. $R$.
 nate, remotely repmad, dentienlate. J'unicles axillary, loner-pedmoled, dichotumous, shorter thate the le:1bis.

 of the former whon fully espamed, which is then maded and retienbate; firom furn to tive



 Bervies white.

8. ('. colspinlafa. R.
 cuspidate leires ronolly. (ovigmls uxillary, their division and the calyees chothel with minnte gratins nuder the wool.


!. C' lenerolatin. I:.


11. Kerfmorncte

A prodly, shabley sperier with matower hesves than any of the other sueciea I howe yot

 purpl。

A mative of the forests of silhet, where it is in llower most put of the pest.
10. ('. pantemeliar. $R$.

Shonhl)

. Inative of the Wohnceas.
11. (' propmiced. Juss.



















 smail, purpe, at lat reth, with une or twi) frotil heath

## 

 (m)

1. 13. Girnde, Mumbunth.









 lat-1:











 mans.
1. A. 7 : ive $\therefore R$











## is, l. li in ri.











 S 11 だ

## 



themis trim: Lia. Lam, xp, p/. al. IF:lld. i. Imis.
 $7_{i}=1=1,1,1,1 \cdot 115,1,1 ; 7$.














 br:mal. membran merarinatud. Staneas puotruded. Style declined.

A Hattive of C'rylon.




 (0ヶ)
 Stale longo than the stantons, deelined. Nefigne asceudius. simple.
-). lis. sule teme. K.

 क्t hmilar.





 porterl ; divisions with an umple kerel. Filaments shont, inserted in the month of that ab,

 111111erolls.

Ols. This is at very beatutitul small plant.

## PLADELIA. Solamler's Ms.




1. ]. sessilillora. R.

Ammal, crect, funr-sided ; angles wingeal. I.eaves oppesite, vessile, orate, untire. Fluwerg scssile.

Fivarman holeroditnme. Limn, sp. pl. ed. W'illed. i. p. 639.
(fentianaluteroclita, J/anl. है(o).
 and first pint of the consl semsont.









 two-valval. Receplacles ronsist, in the incmped marrins of the valve-, (parietal, amd twolabed.) Sefds mmmerous, angralir, very small.
2. 1' rivgala. R.

Anmual, crect, fonm-sided, branches olyosite, alternatc. Leaces sessile, lanceolar, threenerved. Flowers tcrmmal, sul)-pmicled.

Lancmm dithissum. Simm. sp. pl. ed. Wills. i. 637.
Gemtianal dittisad. Firhl. Eyymbol. iii. 47.
A hembifinl erect, ramous ammail; crowing on the binks of water eourses, and on fow fallow lambs. lobwerine time the wet semsons.

Slem alhont a foos, ar sometimes two fect high, erect, four-sided, ramons, smooth; inferione




 the fouth or large stamen. Filameats tom, inserided into the montl ul the tube, the luwer-




\＆\％．L．der texeratar．IP．
 al．Fl，rers twminal，thime－fold，pedancled．

## fis ny．Wanhonio．

 a nation of the allue platev．Folowerinz time the simas．








1．1＇．$\mu$ y 1 il if f．！？
 lornetis prali－t．




 ily ut eighl 11 i，h







$\therefore 1$ I．／le ll \＆$R$ ．
 ．-11

 Writl．i．（ i









## 


























Prge




## CISSCE．Schrch．！fu．N．192．




1．（＇．alnula． h ．
 bous centre，umt semiose urngins．Cymes that，thowers drouping．

 firut in siptumbr．


 smonth abowe，but downy mumerath，particolarly the veine，firom two th six inehes hour，






 hame，whinh adheres timbly to therisperm．I＇erisperme eonform to the seat，alull white．



Leares condati－serrate．（＇ynues decompunad．Berries one or two－seeded．
lliud．and Bray．limali－lata．
I＇ring．Maratu－tigal．
This species in a native of forests，monntains，and way sides in menltivated plapes．
 site：to the leares，two－clett．Leares altermate，petioled，cordate，sermate，we dentate，prety

 superior，half immersed in the fur－sidet，fleshy nectary．Berry small，black，ome or two－seriled．

3．（＇．I＇儿1／ra．R．
Leners cordate，luistle－serrate，smonth．Stipules broad－sulcate．Cymes decompond． Berviess unt－seeded．

Sclmanmh V：alli．Rhere．Val．vii．p．21．I． 11.
This speries is atill latrou than the lat，and ：1 mative of the same or similat plates ；the shoots，the tombthils，petioles aml perbumeles are all quite suouth and sume what glaterous， which does mot almit of my considering it to be cither re pemelr，or latifulia．
 acmumate，cometimes when large simhtly labed，hristle－sermate，smonth，from four th cight


 membrame，with al spongy silver－colonred substance between．Perisperm nul embigo ats in the g（till：

4．（\％memtulte． 72.
Girmble，canment，smonth．Leaves cordate，slightly and remotely bristle－serrulate，Cymes componmi，latfopposed．

Nleriam－P＇nlli．Rhert．Mrel．vii．p．！1．／．18．

A nation ot Smby ma，from themer interluced into the botanie garden，in 1796－7．Flower－ ing time in finmet，thin miny reazent．

Sima and bounches lomer，shember，elimbing orer hashes to a com－inderable extent．Bark


 oppomed，first divisioms trichutomons．Floners small，dall purple．Taste of the leaves rery acrid，and coutimuing long．

Peremial，comblent，jointal，tour－winged．Leares reniform－corlate，sexrate．Berries spherical，mesceralerl．

Beng．Harjown．
F＇unio tuadtugularis．Rumph，Amb，r．，p，83，t，41，f．，2．
















i. i', $, \ldots, l$.




- ( et fils. l .








 "1 1 1 1 it on :








 firm- il
T.,i.V l $\quad$ Y I VI. vii. $1 \%$ ! !

〕, K. K ,



 r 111.1 . 16 ? whit. Rros? |14, fimrat l-




LaEl. It r ir, a'.
 (1) 11 .







 . 1111 : $1=$
 r 18.

I! ( $\cdot f \ldots=R$
 tantits andus
 11. 1 - 1 .


Page
Cirrey




 ing to the petals in thr © \&

1 I. ('. elonylufu. $R$.
 motely survitu, sumoth.

Fommd ammarst tho mombtims of the coist of' Coromandel, as well as in the forme ot Bomgat. l'lewrovier tione the hat semanu.













12. ('. आuriculsla. R.
 above, villons maderneatlo.




















1:3. ('. Ianceulariae. R.



A mative nt the momataine aloner the eastevn frontier of lengal. In the liotamic eramber


Trumh mandeni, stom, ligurons, in six rears old phants as thick as a man's wrict, that-









 crudate.
 cate, vellow, rommd, comvex whal wroppinis its plan".
í. (. Imdulu. limn. sj. pl. ad. If illı. i. (i.)!!.














1.5. i.. srretto. th.



## S.1M.1F.1. Solud. ge. N. I! 5.



> 1. $\therefore$ prititat $R$.
 1.



 Alet che herl.
$\because \therefore$ menimarar

 $j^{\prime \prime}=1$.

It hation of the Mhat ins.

## 

1. 




1. It Hothtr. $t$.













 -1. 14.1414
 nfor a b. 11 ? 1 of purpmes.

 is.1 ish il the. lo-1





























2. $\mathrm{r}^{3}$. IRhelwite IR.

Arhoreons, rouml. Lecfle/s from ciselit to sixtecon pair, lanceolate, talente, finooth, entire. Pravicu torminal.

Teling. Liluetal-utimn.

 dincoulr wew, dic.

 the lut :c:isum.
















 bitter.
4. F. nilila. Rorll.

 cemes : vill:ur.
'Lellemin-t






## 

 נиו11, 10 (114



 all. 11.






 $r, 1 r y, 11$.
2. 1 / $\because / \ln \operatorname{lin}^{2} \pi$


 11. अ-1 तl a in the ising a 11 .









 $\cdots 111$.


 ti 's chal en the axio.

1.
$1: 1$


 11 Ma | 111 !




 11 ! $\because 11$

it 1

$\frac{2}{1} 11,1 / i v i$


$\rho_{11} \cdot 1 \cdot \therefore 1$ Na



- it min?

th. $f$, 1,1 i 1




 $+12$






 el


4. B. cry tilli \& R.



Ben!. I'nnl:

 seasmil.









5. diff sm. 18 .



 at ('alcutt: floun li:mula.







 repens, miw Dintella.
(i. (). hiflumet. Linns. sp. n)? rel. If illd. i. RisG.

Pa/uselix sulitary, fwoflowered, shorter than the narrow haceolar sessile leaves.
Srins. Ǩslactra-purputec.

I.

421



7. (). Ta riturett. I?

Fimet, fimr-sided, dichotomons. Ireaes lincar-lanceolate. Pcelunces in mirs from alt rnate axills. (ble-flowerod.

Irelyotis he:lortere. Li,n. sp. pl. ed. Willal. i. JGf.
Trling. Verimeln-vouoo.




 leares, unco-thatiol. C'apsule smootl.
\&. (). removice. R.
 flows:





 eonical. Coral with sriblomin thbr. month beardet. Fibiaments short. Andhers within the tulse, bluc. Gearn, die. as in the grents.

 marens.

1. 2. rolumelifolin. Burh.
 biber.
 Butauic garden durine the eold seison of $17 y$ \%.
















 1. i. - thers inctmb) oti.















1. 1.1 hat iriol lime.






 2. $1 / 1 \mathrm{~h}$.






 (1, 3 1 W . . ! !




 if:



 +1 : 1



 *
 LL 1. i,
2. i ...n

ill f.

Page
 of water．
‥ T．hispinaste．R．

A．tar？！emp－shuprel，cmind．
Nheingute．Asient．If s．col．iii．p． 253.
Ne．s Mincata，Iutukur uke．






























 the former it ditioss in haviner only two hous，and from the later in the hors bebine stumght，very shatm，athl hatbed．

The mints are suld in the markets when in season，their kernels heing muele ester med ly the Ilinduon．

3．＇T＇．quadrispinosa．$R$ ．

 kernels ate also esculent．

## POTHOS．Sichich．gom．N．2lu．



 Embergo mucimate，without prisperm．

1．I＇．scrundens．Limu．sp，pl．Al．W＇illd．i．cost．
 di．x crobulis：whed．

Mat－l＇aris．Rheet．Mor\％Mret．vii．p．7e．$t$ ． 10.
Aipmentias diplo folio．Remph，Amb，v．190．R．181．f． 2 ．
 ing time in the former comatry，the nomath of April．








 four obevate scales（1）ath




2. 1 . . uffi innle. $l$.
 minal: floweis urhcul, weturtrons. lirories omesosconded.

Beng. (iruj-pripul.

































 tif1s, vul. it $\mu .23 . t$ hl.





3, J. J't $l=K$.


 A |以1 .an! Vay.





 का the लy




4. I'. grevelis. I.


 Horl. 1 wb wil. 1. |. |v1. J. :2
5) I' y'rimill.
 It |hatimbs.



ripe secol there.
Stems peremial, creeping ont the gronnd, or upon trees and plants; in a very thriving stite, of six yans growth, wot more than three mal fone fect longe, and whent four inches in



 tury, very shart. Nigle suberelimbre, wort-pminted, opening a little on one side abme the time that the anthers discharge their pollon, smonth on lxoth wides, of a dirty dull pmople con-

 with the dark linear stigmas. Filaments about seven to cach grom, short, boul, and thin.

 none. Stigma a vertical, linemr, growial, dark-colenred pergection on the midelle of the trun-
 stifl mistles, which readily enter the skin, cansing pain and itehing. Codyr and corol uome.
6. 1'. prertrant. R.
scandem, sub-parisitic, rooting on trees. Leanes cordate, perforaterl on onte side, mut piunatifid on the other. Corollels apetalons, tetrandrons. - Anthross two-lubed.
khettadi-Maravari. Rheed. Hor\%. Hat. xii. p. 11. t. 21 aml $\because 1$.
 they maty be realily taken for that mome plat. It is a mative of the mometainms parts of the const of corommalel, rmming up, and over the highest tress, to which it atheres like ley by ronts issunger from the joints.
 on one side, and on the other passine throngh the margins ats in the pimatifid leaves; their lemorth firm twelve to eighten inches lomig. Petioles nemply as lonir as the leaves, deeply
 in which partienher this phat difler, from that in the first instance. Soupe shat. Spathe
 frnctifications. Corol none. Pitamonls intermixal amonsist the germs, (the number to ench
 two to call fibment. Pistils mixed with the membmancems tilaments, foursided, lobed. Style none. Stigma, a kind on the eentre of the bebed germ.
7. 1'. pimulu. Linh, sp ph. eet. Hilld. i. bsti.

Sul-purasitic, moting on trees, the apices of the shonts elnthed with fitbres. Leaves pinnatitid. Flucers terminal.

Adpendiar luciniati. Rumph. Hort Ainb. v. 499. 1. 183. f. 2.
Fomme in firests in the Mhey combries, ronting up and ruming wer trees of great size. It is remdily distingrished trom my decursien, hy the abmance of brown tibres which are found on the yomer shoots, and the luwer part of the petioles.
8. I. arivitata. $R$.
 endate, from entire to pimatiticl ; se,fments sub-ensiform, ome-merverl.

F'rom Prince of W'ales' [sland stips were bronght to the Botanic garden at Calcutta, in
 not ni yot honsoned in the gitden. The long thagellition pendulesus extromities of ite shoots
 divided than otberwise.
9. 1'. decursica. $R$.

Pereminin, rooting on trees, smontlı. Leanes sul)-decursively pimate; segments faleate, cuspidate. Fifoners latemat, or axillary, long-peduncled.
(inj-pippl is the vernacular name of this very large, pewertinl species, in the wilhet dis. trict, where it is indigenons, and hosem-dming the hut seasom.

Slems as thick as : stont canc, rooting on, mad asemaling trees like the common Yey; roumd, smoth, mal rather emotracted between the leaves. Leaves appmoximate. alternate, petioled, pinmatitid, or completely pimate; from two to six, or seven ficet long, ind heling the petiolen; segments, or lentlets, hinemr-filcatc, cuspinate, entire, smonth, sometimes from three
 from six ineles, to three fient long, rombl, smoth, stem-clapping, and the lower portion more deeply chamelled. J'eduncle solitary, axillay or hateral, about sis inches long, substantially thick, romad. smooth, wud replete cith the sime white bristly spicula that ire fimmed in the
 of the spathe, complefely corred with the immanemble fractifications. Colys nome. Corol none, non my thing like either. Filaments abont four to cach germ, and nemly of their
437 length. Anficers cordate, appemine; beyond the germ. Germs manerons, the most greneral torm a tombesided wedpe, npex truncute. Slyle, stareely any. Stigma, au elerated vertically oblong opening.
10. pimuatifider. $R$.
l'erminin, routing on trees. Leaves pianatifil; segmen/s filleate, one-nerved.
A native of sumatrat fiom theme bromght into the leotanic garden at C'ilenta, where it grows freely ou the trumsis of crees, to which its lateral roots indhero most timls, the ori-
winal our heing still in the gromad, where first planted. Ahthomigh some of the phants are

11. 1. himerophillin. R.



 anol seatinl.














12 P. lasin. $R$.
 Berries niesenctial, murtic te.
I.1sin aruleal t. lourier. Cochin ('h. ed. Willd. i. 103.

Trling. Vxali..ari.
Bent. Katrehut lome.










## 


 sintict.

Tihen low, if the Chimas.






 1. F. riftiona. $R$.
 pratuncim?


















小:ll, intirvin:
$\because$ F. ron?frotet. $K$
 mathermath. Frumers nillary, crowdeal, short-pedumeleth.
lata!l. Cinama.








 when ripe rel.

 ronuse the pml
3. F.. rerticiras. $R$



 riper, which it is gencrully in Mareh mat April.




1. C. s'rancirns. Roctb. (losom). ii. I). 10:3.










 swooth, red, juicy, si\%e of a peit, one-cethed. Seed sitirhe, shatped like the berty.

 Simbryo invirse, and timmished with il perimperm.
2. S. allum. Limn. sp, pl. ad. Willd. i. (991.
l.enver ollons.

Siaklumm ilhnun. Rumph. Am\%. ii. 12. 1.11.
Chamhinm. Isiatic hesearches, rol. iv, p. 253.
Sintalnun vermus. Limiz. Mat. Jeat. Io'?.
Sems. Cimadlu-atu, Muluyuju, Bhudrushree, Climuduma.
Bring. Clmmilun.
lies, finndul-smtied.
Simdal-woml. Buchananis Jourmey, i. 18f, and 202. ii. 117, 132, and 5.36, iii. $1: 22$.
A native of the monntamos pata of the const of Malalatr. 'That of 'IMmen, amd the

 flowers and ripe sed nearly the whole fear ronnd.













































$\because . ~=.-m r^{d}!$ it.... $R$.
















## 







I' 'iny 'lunukus.












$\square$
pair harge，wedge－shaped，three－tonthed，permanent，inereasheg in size whth the pericarp into （Wい hage，membmaceons wings．Corol nome．Sectory consistiner of fonr clavate，sellow grands．filamends fomr，lunerer than the dalys，insurtiol abtermetely with the nectarial ghands into a perforated veceptacle．Anthers qualrangular．＂rening on tach side with an wal lid．Germ interior，ovate．style unce，sfigme small，immersed in the perforntion of the receptacle of the lilament and meatarial ghands．Cupsule gholmian，wrinkleth，omere
 lancenlate，membrannemus wingos．Sied one．
obs．The worl of this tree whiell is white med rery lirht，is employed to make Catamarans（flents），when to be had，in preference to my other．

## TETRANDRLA DIGYNTA．

## CUSCT＇L1．Schrel）．gen．N．ロ27．

Caly，four or five－henved or parted．Corol one－petallext．Germb two－celled，ome or two sembl，attadment inforior．Capsmes superior，two－celled，circomeised．Embryo spirab， rolled ronnd the perisprom，with an inferior radicle．

1．（․ reflext．Rurch．Corom．jnt．ii．I．IUk．
l＇arasitieal；fluwers rucemed，pentundrous．Scales of the nectary bearded．C＇apsules four－semided．

Reng．IIulli－alorusi－luta．
Teting．Kitama－pnorgromoolon．
This phat is parasitical，appraring on any bush in the cold season．Slems or brauches filiform，sncenkent，twining，rery ramous，laflese，smonth，vellow．Ruemes num rous．Flome
 cytindric ；mouth five－purted；dicision rethexed．Vertary of tive seales，whidh suroumt the germ，and are inserfed into the botom of the tube．Filluments five，very shom．Anfhers oval，appraring half abowe the mouth of the tube．Shyle seareely any．stigma tro，hage， flesly，exp：adiny，pointed．

2．（ ．mydreytulu．R．
Head round，sessile，composed of ten or twelve perfectly sessile，arguregate，perntandrons flowers．

Aceidentally introduced into the Botance parden monorst flax secel foom Baardad．When the ftax phants were a few inehns high，this little Nelicate，heatless，filitorm，romad，rellow parnsite begun to make its appearaner，adhering in such quantitics to their stems and lenves， as to destrey whole heds in a very short space of time．

3．C．suleata．R．
Pedunyles in fuseieles，eadh hearing at few pentandrons，sessile flowers，with a flesly furowed calyx．Capsule twosecded，surromided by the deeply growed culyx．
 dhring the eool season．Is a plant of small size，of a pate yellow colomr，throughme pur－ feetly simentli．

Pelumeles genemlly collpeted in small，remote fascicles of two，three，fomr，or more，each supporting from two to tom，small，sessile，white flowers．Bractes ovate。 C＇aly，tive－tooth－ ed，permaneut，becoming fleshy，mad decply ribled，with trom six in ten rils，lengeth of the tube of the corol．Corol：tuthe short．Burder tive－cleft；dimisiuns oval，whtuse，reflesed． Nectarial scules five，below the insertion of the filaments．divided menty to the hase，inten muny，fine，filiform secments．Filaments fire，inserted a lithe below the fiwnres of the comb． Giein ronnd．Styles two．Shigma hended．Capsules two－celled．Sceds solitary．

4．C．mpitata．R2．
lleads rond，sessile，bracted，with from ten to twenty pentandrous flowers．Calyx and corol papilluse，pollucid and white．

Himul．aud Jeny．Algnsi．
A most heatifinl，suall parasite，fonud in great alnudance growing on the lower part of the stems of Crololaria Juncea，during the months of Fehmary and Marels．

Stems numerous，filiform，smooth，exeept at the parts where it grows to the stalks of its supporter，there tuberenlate；extent from one to two feet high；colonr pate yolluw，Leares none．Flomers from ten to twenty，forming most heatifnl，romed，sisisik，white，pellucid heads．Bractes a single one under ench hoad，which is white，membramaceome，and oblong． Calyx and carol fiveeleft，swelled with pellucid cells，like the Iee－plant．Jectarial scales renitorm，cilinte．Stamens five．From two－celled，with two seeds in each，atheched the the Inotom of tha cells．Styles two．Stigma simple．

## COT，DENTA．Schereb．gen．N． 233.

Caly．fonr－lcaved．Corol infundibuliform．Germ superior，four－celled，one－sceded，at－ tachment suprour．Ňuts fons．Embryo inverse，and finnished with a perisperm．

1．C．prockmluns．Limn．sp．pl．al．Willd．i．71！．
A small ：mmal，sprembing flat on the gromud，and in fememb very eommon on dry rice－ fields during the cold seanom；but never to be seen from the beroming of the periodical rains till they are complately over．

13RL゙ごLA．Schwo gru．N： 1503.


 fratt is ulded．

1．B．sumatrama．$R$ ．


1／at．Ampale $x$－Batrowing．


 all the semr．









 ing the insertion of the germs．Fituments fors，ston－purph，ins rtad muthe th，mar cill of





 a llamg to the pri－perm，thin mm whit．Prixpern in very suall ymmtis，inded it n ory













## 

## Cly，fimr partend．Comol fonr－petalled．Neyle nome．Aligmer four．Seeds four，naked． L＇mheren inverve．

## i．M．trandrua．R．

If rermtivelled，all filifurm－pimatitid．Flumers axillari，verticelied，wetrandrus．Culyx four－le：shid．
（iompare with llottonta ouspilithas．Linn．sp，pl．ad．Willel．i．\＆13．
Tillotg．Xurla－phnarmm．



 Flomers wry shall，white，verticeltel，i．e．obe in the all of math leat．C＇ilye amow，four－


## $\therefore$ M．If herculatun．$R$ ．

Lemes verticelled，piuntifing．Flomers axillars，verticelled，tetrandrous ；fruit whaccous， tubercher．
 of the yeur，and sery muth like W1．helcendrum．



 clol furicarp．
 horkiol, withonl prisperm.

1. H . inticrem. $K$.

















 me wnhme in cath. Ntyles short, and thek. Nfigmes a dark sprok on the ame of the style
 Fented lyy (frertme in I'. nalculsis cul. ii. L. 81.
2. i'. lulorosum. R.



 fitere as to allow the litte phikes of thowers to comerne complerely.












 fans, lisem. sem. ij. 23. lab. St.

## CLASSV.

## PENTANDRLA MONOGYNTA.

## 

 with its proper la:rk.

1. 11. indicum. Hrilld. sp. i. \&o.
 targ Frull tworchelt.

Sizns. Sibrerlhatiner, Bhooromblec.
Beng. IIalti-aoore.
This is onc of the most common plants in Tulin, it is in floner at ald reasons, and heli rhtin ent-uf-thew:




 townels the base, len-cheft, smonth.
1. 11. raronam telimizun 11 illd.,$p$. i. 742 .
 sultam.

## isang. Nisenophomtar.







3. 11. persienl th at. $R$.




## 

 with ohe foulthem shan int cath.

1. 1.. nindedtorem. IS.
 thrive di linthmens, fie orved.









 the axi.s. is dis orato -e retate, sime th.

 ta the ser.















$\because \mathbb{C} \|, f \%$.










## 3 (! riful in. $f$.












 recephacte

## Bultillit). Srlich. gen. N. : IX.



1. 13. imlicer. IR. If illd. sp, i. Toli.


fiemy. ('hhotre-knlig.
 the yeme
























1. 13. "finanlos'r. li.




## 

 many, insiorted on paricetal recerpachers.

1. N. (risterle. R. Coroun, 2. X. I: i.

C'umuld. Isiet. Res. iv. 25:


Biner. Claseli.
Trimy. Tht wat Tanara.
 foots. F F


















## 














## 




## 1. $1 . j$.1. 11 .


















2. 1.1 . $\quad l$
 tho11

A:micult $=$ Vh.....

## 




-1, nht 1 .

















$\therefore \quad$ "i "lin $i$ R月, $1 / 1$ xii. i-, ! ! !







## 


 *rivicatel.

1. I. Prnticulatu. R.
 axillar?. ('ucol sub-1 l!il口. Style short, simple.




















 it al very pleasiar whicect.
2. I'. rolutitic. Burm. Fud. E1. 1. 21. f. 1. Ji تild. sp. i. 81.?.
 Corol rivererlett. Stule hitid.












 rust :s in the former specios.
3. l'. rasemmes. li.

Ammal, twininir. tiliforme. T.roves comate the cemblime omea petioled, the floral ances stemrasping. Rearemms inillay mad terminal. Coral fiveroleft.
 where it blossonms diminer the dry seasont.










 preacdins speries.

## COVTHTTTITS. Silmb. !cim. I. 287.

 two to ihrer-lolmel. Cripsule, two or three-colled; cells two-scided. Fimbryo crect, cirvel; colyleduns corrusatcul.








 in the uext gemtis, Letinamit.

## SDOT. I. Twininy with untivitud Leares.

## 1. C. g.rng tirue. R.


















$\because$ !. se virlien! $\because$.
 half twont : N, As meltal r.

 att-in: atel intall hastin 13 and $r$.






 bก!n:
3. C frsing it \& Ti.















 seds in liy.







 Muri pra. A1 1:


Puge
Ciarey







 lubes.






 ra-put, thmin lroine "hally conciad with sot hatiry down.

















 enir h.




## 






6) (. लulprimes $R$.

 Fruil irompins.














 seasolts.


 11. C. spleheromery lutus. R.


 October till January.










 -


1-1. J?




 11 ( ) $11=0$











 | 11 | 11 |
| :--- | :--- | :--- |

$19.14+n+n$























 1) $1 . \mathrm{mel}$

##  <br> 

 1 - 1. 1

## 16 (1)


 "1 $1+1+1$.

 14:4




Page


 black, we in rach rill.

Ohs. Sine writing the almose desiripeion I late often met with plants, hatimer ome, ant
 lobetus, amel bicolos.
17. C. T'urpothus, Willd. ip. pl. i. 太is?.





Teling. 'T'ulla-tatinla.
('ommon in luelces de. lownering time the rainy season.



 tos oval, ematave, falling. (
 Secels romb h, black, on, in citch $1 \cdot 6 / 1$, fire.

 they reckua it common dose: Ciatthe elo not eat the plant.

## SECTY. II. T'minimet will chivited ar compoum Leates.

18. C. rilifulius. IFilld. sp. pl. i. sfil.



A Hative of hedres and forests ; fowering in the cold satame.






 Sligmet of two rommel lolnes.
19. (. dentutes. \#7:llit. sp. pl. i. Slo.
 from twa to there flowerad. Leaflefo wf the catys whovate



A mative ol lmatres, theckuts, \&e. IMormine time the rainy sumson,




 simere, limere, whloular.









21. (. pmaicululus. If iltel. sy: pl. i. stij.
 enpulles fimrerepled. Sirals wowlly:
 1. 2f.)


Tifling. Natia-plal-tiral.
A) mitive of heqtere, thichets, die lowering time the wet senson,



 large, of a bentifial dark rabli-h purple. Capsulas fomecolled. Seets wonlly, all romul.

Ohs, Cather ent it. The frot is eathartic, mad ras such used by the nativer where if ty"

ㄹ.. pedatus. $R$.



 ing the cond wastul ; they are pretty laree, of a bright sulpher coluar an I the stigma is of two romat lotec.

23 ( ${ }^{2}$. rigitatus. $R$.

 I native of hedges, Fh. Fhas rinf tinn the cohl smon.




 Siced.x wortly un their ane er mastes.

21. hirsutus. I.













 *icels chate or four. athomblis.





 "eatri!






 lulns.

 reme on its thichemen, cuntal ithe.

> SECV. Ill. I'rostrute. ur cin ping; not tuining.

2f. 1: r mfuranis. $R$.

 rihbole. Lashes of the (e) wh bilul.










Page in the foremon, amb whitime eads in the creming. Cather the two cestemen leatiotes smather.


 Sreds hight hams. mimathly dotid.

27. (\%./luybllifiomis. $R$.

 somewhat inc-lahed.

Byt-Adanbee. Rhered. Mal, xi. p. 119. $t$. 58. muy te this plant thonerl in some respucto they will be limmed to differ al littes.

 Botanic Fibden, where the plants thrive laxuriatly, and we in blessom mont part of the year.

 as in ( $:$. Gresiliensis, havins two crlath on the muler side of the bise; hreadth fron two to



 transucrely oval, large lobe. ('upsute with genemally fime, light hrown, smoth seeds.

 lin. I'edunctes shorter thith the petinkes, firon these to six-flowered. Curul sub-inturdihuliform.

Ballel. Rheced. Mut. xi. p. 107. t, 52.
(hus-V:amul. Rumphe Amb, 1. H19. i. 155.f. 1.
('. erpeans. If illd. sp, pl. i. $87{ }^{\circ}$. is probalily this pant, of $n$ variety of it.
Brony. Ǩuhni-shat.
Tiling. Tootic-kuma.




 hell and fimmel firm. Beese of the libmuts woolly. Nigmer two-hewhed.
 exteremel.

2!). ('. Dialulus. Wrilld. sp. ph. i. sisi3.




'The red wort is in very eremtal emitivation all over the warmer part of dia and sory desurvally cestermed unc of their most palatable and mutritions ronts. I shepect. ('. celulis, Thumb. jopera. ifl. is the sallue or a variety.
30). ('. respretosus. R.








 nsillary, homere than the petioles, hairy hene the hase, hearine Fron one to foms, sumall, wey pale-villow flowes, but when one, on two, these ane actompmicel with the radiment of one or



31. C. slipulacens. Ti.

 Sored worlly.















 *irent s solity.

















## .i.s. (1. At if b. I?

 Leloevif lle-lizi rimul. को $l$ is ils.


 - N 11 .




 - IV



 Ita 1 :




34. (', fiseme



If 17. ('htreel-hhativ.
// wl |ly:atilia.

 1f !lf Imotr.








 - .nt it.

## 




Paper reat, conval cotylalums combated
 works. which more than prowe him finlly contither to this mark of wepect.
 phates; with simple latices nud uxillary inflomeremee.

## SECT. I. Corols campunulate.

1. 2. splendens. 7 .

Peremial, twining. Learese cordate-oblong. parallel, weined, sericems underneath. Cob-


2. L. a!!! eqgate. $R$.
leremial, twining. Iferes cordate, woolly mudernenth. Pedumeles axillary, suppurt ing tom sessite heads of involuced flowers. Stigma atud style muth longer that the comol. Berry fimbserded.

Trling. liom-livelha.
A native of varions parts of the coast of Coromandel. Flowering time the cond seasom ; serd ripe in Mareh and April.

S/cms lierneous, twininer to a grwat extent; young shools romm, clethert with woft,

 two to five broad. Predurles uxillity, groncrully sulitary, longer them the petioles, atmat,
 Sessile tlowers with a single sesale one in the watre; smrombled with aremat, romblixh




 envelope, abont the size of it marrow liat peat, two-ecled, with two seeds in cach, when all

 of this elegant precies when in truit. Seeds smonth, pale nsli-colomred. Eimbrgo as in the gemils.
3. L. nerrosa. R.

Shrubhy, twining to great extont. Leares hroad-cordate, seriecons maderneath, vina parallel. Peductes lomeer thin thes petioles, mmbelliterous. shigina rumed, of two bober. Cupsutes nue-ralved, mucecellet.
(Comvolvulus nerviw. Burm. Fand. 19. 1. 20.f. 1.

Berng. Wis-tarwke.
Teling. Kokayli.
A mitive of forests, hedges, \&e. it is one of the largest speeies of the Conmolvulacen if know. Floweriner time the wed and eold sumems.

Stems twining, wornly, of in very ervent lemgh, maning ower the highet treen ; ymur
 distinet, opposite nerves rimming parathel; the mper side pretty sumbth, the mader side coroperl



 pointed, cutheons. Sligma two, gholmar. Berey globular, shooth, entire, not opening in a reqular mamer, but emmbliner to pieces.

Ols. Seeds received fiom limelam, sent to me hy the late llomomatle Charles fireville, mader the name Conrolrelous speciusus, produced this identiead Ihnt. Stigna, se. de. perfectly the same as in the orginal Bengial plant.
4. L. argrutea. 12.

Yeremmial, twining. Leames eordate, parallel-veined, sericcous underneath. Peduncles, as long ats the petioles, leafy ; bracles lanceolate, sericennt.

Found in forests aboni ( Balentan. I never saly it ou tho coast of Cormuanded.
Feng. Sumoodra-shoka, chhota Biataraka.
400 Slems twining, perennial. Leares petioleel, broad-oordate, entire, with many parsllel veins, as in C. neroosa; the upper side pale green, with depreseal hairs, the maler side cosered with much brimht, silver-celoured, silky down; about fum inche- long each why. Prfioles erect, round, hairy, lengeth of the leaves; at the :prex on call side is a sreen ghat, as in C: nerrosus. Peduncles axilary, erect, romad, huiry, mabel-bearing. Biactes lancolate, silky.



Obs. The folluwing marke distimguish this "Ieceits from nercusa, to which it is mearly allied:

1st. The leaf-bearing umbel.
 mur Is waterl．



5．1．s liover．Ji．



 ．tanmar．











 hith within the haftet of the promaneut alyx．
f．L．strignen 7 ：










7．L．cementi．R．





 Grtobler．












 deticreth fultiges．
\＆L．суルパァ．R．



An exteraise，stomt，permmial，twing plato，a mative of the Molather mometains ；from Wyand the seeds were sento by（＇aptain Dickinam，to the Botance carlon at C＇alcutta，wher re


Slem and large branches wody，twiniur：young shoots rilhoms．Leares rombl，renifoms－











Fage
Cargy
Hal.


















## SECOT. II. Curol infundibiliform.

10. I. Jinna-mox. $R$.



Rrag. Ǩnlıi-lu1:
C'lose-scentem rreeper. Asial. Res. iv. 25\%.



 Noxamber, Decomber, ind dillually.






















 nanno; I rathor thank it wiss that which lnow call Iponoea grandiflora (Munda ratli of lian Rherele.)

## 11. 1. aniflora. R.

limeminl. twining, hoary. Leates reniform-cordate, reute. Peduncles one-llowered. Berry dry, spharicil.
ipomoear c:mblieans. Rolller. ILss.
Tr-ling. lanoli-tipa.
This speriey is very common in forests over the sonthern parts of the Cumatic, and Tan-








 bruwnish lirrinaceous pulp.

## 12. 1. amala. R
















 in the sitler.

## TTUMCIEA.

 ma-wil al ; call. two-c. lel.

1. 2. givedifl ma, $R$.

 (wa)-かl'al.


Dhat walli. fied. lies. iv. 2\%\%.
larel. Hewl! r-lielvi.



 IL 11 therit: $I^{+}$! Imliont 'tue.

















 mandes.








 h • 11

 ct ll. c'tu in l lis.

 an I


b. I. milliflurce. R.

Stem.s wooly, twining. Leazes brond-cordate, downy. Dechunces as fong is the leaven, nmbelliterous.

A emmonn mecies, native of hedges, forests, \&e. Fhwering time the cold senson.

 partionlaty the mader ome, from three to tome inehe eath why. Petioter rommd, dewny, from two to thee inches loner. L'mbels three or five-parted, meny-tlowered. pedencles romil, menty
 tube it bright red. Leaflets of the ealys unemul. Stigma two-lobed; whes erobular.

Uhs. This species white in flower is one of the gratest beanties of our forests. Whether this is what Kïnig catled Iponoea Burmanni or nut I caunot say
5. I. sepiaria. kün, Mss.

Pereminl, twining, hairy. Leaves cordate. Peduncles many-flowered, and with the padicels chavate; cotpsule linur-telled.

Tirn-tali. Rheet. ALal, xi, p. 1m. t. 53. is certainly thio plant, thourth quoted for Consvatrulus marimens. Cim they be the sinue? Probably they are, as Vahl's description merees wherally well with my plant.

Tiling. Metta-tnotian.
This is one of the most common species on the coast, it grows plentifuly in every hellye, thicket, de. Plowers duriner the rainy and cold seasum.

Slem twining, poremint; monely sheots romml, tilitom, hairy. Leares alternats, petioled,




ti. I. cetultserens. It.

 shles smonth, three ectllect
 sprecics.


 uxillary, lemgth of the petioles, hairy, at all time ereet, from otn to there-Hownerd. Flowers pretty hare'; their colon when they first expmat maly in the momine, is a bemtiful lively









 hederacere, white.
7. 1. crember. hion, Trss.

Amual, twininer, hairy: Ifares cordato, thrembhed, downy: Peduacks from two to three-flowered, margins of the corol sub-untire. Stigncus three-bobed. Ciapsules three-celled.

Beng. Ned-humi.
It is commen duriner the rains in ingst parta of luctia.
Stoms an il bramelies twininer, ammal, remud, hairy, from six to twelvo feet longe, as thick




 with two sterts in (arh.

1 lawe often reanel this apeces in my gaten, on aceome of the great beaty of its large flowers, amb to not find it to vary.
'Ther serelh of this plant ure seld in the native apotheentie' sheps in Calcotta, under the
 quick-operatiner, suff cathartic. The dose is from thirt! to forty arant of the sende in suls-
 conveminnt velache.
 thath : varicty of that, on that af this. In that the leanses of plants growine in the same si-



## A. 1. pherenterer. RP.

Mnge
Carey

 malmats.
















3. 1. I'axtigrider. If illl. spere i. suts.



Brag. I.alqule.1"ta.
l'ulli-a lowinti. Khaerl. M I/ xi. 121. I. E!!.











1!1. 1. 'pue onlil. II .lli syel i. 4-!.





leag. l.al hatiot tur hal turouluta, the med viricty; swita hamlutas or sweta teroaluta,


11. 1. fill.






 ext!

## 


 + It 2lu - isto

1 1. dihir $\because<$.










 lix.t 11 . 1.

A mative of the mui $t$ vallies of Chigtegntig, where it flumers in Uetuber.

Caly, semi-supertis, tive-pated. Corol rutate, insurted on the cents. Germ inferior,



1. P. Bergonifulium. litued, Hort. Beany, s.).
('rempimp, wonlly. lemers alternate, semicordate, sermate. Racemes axillary, worund. remerate. Brerfes comatate.
 and shruls, amel with flowers and ripe sects in dune and dily.

















 arceattached to the apex of the capronlen ats athendy mentioned.

## 

Caly, fire-eldeft. Corol mar-petalled, irregular. Anflarss united. Capsule inferior, two or three-rellad.

1. 2. nicotionifotia. Heyme's Mss.

 ricimity of thmatore
$\because$ 1. lrigome. $l$ i.


 the wive and cold tetatm.


 hhe. 'ono' inserted in the month of the culya.

## 3. L. radicuns. Hilld. spre. i. 918.

immal. cempling, smorith. Sereres sessile, lanceolate, remotely rimblate. Peduaches axillary, solitary, wiee the lemgeth of the kaver, whe-flow met.


 colomectl: sorments of the cond:a cqual, milateral, whel marem-lameedate, with two grean


## 

C"hlyar five-parterl. Corol onc-petallech. Capsule interior, two-cdled. Sects unmerous. 1. ※. zuntuice. Willd. spmes i. $\vdots 27$.

Pumbiti. Rhorl. Mal ii. 17. t.e2l,
Sphamorlai Iomgrtinm. Letmertch:
(iamtheral I'on!uti. Reta. Uts. vi. p. 21.
JBeng. Jedr-märech.
Tiling. Normoppiphi.
An wert ammal; in mative of watery places. Flowers during the wet seasm,





 open, afterwards conserging orer the capsule, permaneut. Curol one-petalled. Tibbe short;

Thront kiblums: mouth fivereltof, inflyed. Fiframents filu, short, isserted into the mouth of Page

 annther, two-c.lled, circumeiad. Serds minute, very numerons, obloms.

## 




























 whims. litathent at rim.

































## 3. $X$ ite roptulla $R$.





 while sumge thair growth was mot rapis.















 drantentia con?mbosm, i. 117. 1. 30. inverterl. Shyle twice the langli of the corol. Shinmen clatite, somewhint two-lolned.
4. . Culamia. Ir.

 Euns. Népa, l'riètha, and C'udmulea.

## Beng. Ќulım.

Katurl-L.julkit. Rheed. I/tet. 3. 1. 33.
Is common about calconta, where it grows to be a lame tree ame is not only hishly or namental, hat very uefinl firm the extensive elove shate it vicles. Flowering tine the hot season. Seed ripe in ()etoher and Nowember.






 ing from the apex to the base, near the top it is emmusind of foms, distinet, hard collo, mudere the eommon envelope; the lower two-thirds is two eedled only. Domeds mmerots, hery smatl, angular, hrown colour.
5. N. gintire. R.

Leners elliptic and smnoth. Slipules linear. Peduncles terminal, tern; divisions of the calyx trimgutar. Stimmang glenose; Seeds there or fonr in catch cell.

A mative of the Hoherens.
6. N. parifolia. IVilht, spee. i. 929. Roxh. Corom. i. 10. Inth. 52.

Brenches and branchlels irachate. Leares wate. sipules oval. Flowers terminal, one or three. Serds imbricated, membame-winged.

Teling. Bnfa kutumce.
This erows to be a large tree; is a mative of mhost every part of the conas of Commandel, but chicefly up amonget the monntains. Flowers durine the cold se:mom.



 bracted, each sipporting a simere, erlobular, naked head of comollets. Bractes two, opmpite,

 perianth very minnte, entive, Covol oncepetnlled, finmel-fomm. Tulse wideniner. Boder five-parted; divisions pointed, sporading. Fibments live, short, inserted jut within the



 the apex and down on the inside. Sieals soveral, very minnte ohloner tailed, insomely inlmieated round the ont vide of theip reseptacte, with insertions dewnwame.

Obs. 'lloe wool is of a light chemut colemr. firm and chase grained, is used for varions purposes where it em be kept dry, hat axpesed tu wet it somm rote.
7. N. cortifutia. HFld sprec, i. A124. Rorl. Corom. i. 10. tal. -33.
 Srgmpnts of the cally clavate; seads membathe-whaged, not imbricatent.

Beng. Kतli-kindun.
Ti, liny. Winlugst.
This like the foregning apecies, grows to be a very lange tree; it in a native of the moune
 Mril.




















Tring. lisumber.










! K. A l! li,li\&. K.


 Marel.



 serctur rifull 111 |tarl.
11. N゙. cousifut 1. K.


1兑. N. letentro.
 Hark flmalf int \& 1 m.













> lOLC.lli.1. Schithe qen. S. :Bll.






 rins. them fr in . demetor.

1. I'. Ginmbir. Il atto in Limn Lransact. is. 218. lub. 22. Fitmm!! in Assut. Res. A3. $14 \%$.

Itrge




 113:







 with the fixe-d it permatment entrx, two-celted, two-vatred. Seeds mamerons, inhricatul, winfred.

Whas. Gembier is the Malay nome of ane extact. prepmed form the lemes of this plant.

 suys:
.. This muterial is rullenl by the Malays Gentier. It is chewed by the natives mineled
 Indial.


"In revald t" han matural history of the (xambior it is procerent tom a dimber litale known to thu Butanic armelon.





 to market.





"The price at which it san be promed from the Nom hern pratson this conat, I have





 mut ant inte little signare calices and dried.



2.1 . arcelifiolio. $R$.



A mative of the EA: ond of Pule l'in: ag.
Tronk mat bratarkes wonds. dimbing to at areat externt. Burk dark-hrown. Ifaves








 base of the werptarle.
3. L. pedicellala. R

Leares ovate-modate. Peduncles axillay, nolitary, undivided. Corollels lonir-podicelleyl.
$\therefore$ native of the Mohneca Talands.
f. I. circhiplerg. R.
 ed tondrits.

A native of the Malay islamds.

万. 1. arite. ITruter.
 ggier ant to toutrila.
 the - fecitic Hil12tc.








4. 1. , ili + . li.
 Prim, \% sill $1 ?$. m in iral.



## 


 1. l: , ent /s. $/$.




















2. $1:$ 盾 $1+8$



## R. |.....| | lı























 *pecific niwe. smath, fivetoothed, hoary. Corol ; lube short, amel contractel at the womth ly five clevations



 to an elevated receptarle, which is attached to the midhlle of the partition.
t. Li. Ietrandra. IL.

Shrubly. Leaces lancen)ate, sessilu. Slipules piunatific. Florers axillary, ghomemte, tetrandrons. Copsule maṇ-weded.

A shombly specios ; a hative of Patn Piname.
Shemstraight; Wratheserect, smontle, find-sideal, with the ancles sharp nu the pomber



 int the remplacles, ans in at nidus.
5. R. strondens. $R$.

Shrubly, seambut, smonth. Leares opmsite, putiohel, oblomes, entire. Panichs axilhary: small. brachiate. Capsutes grobular: Seerls mumerons, sumall.

Fonncl indigenoms on the Fsland of Manitins ly C'olunel Hardwicke in fower and with ripe seed in June and July.

## MACLOCNEMUN. Sirherl. gen. N. vert.

Caly.x fire-tonthed. Corol eampanlate. Copsule inforior, two-celled, two-valwed. Seeds imbricated.

1. M. stipularsam. $R$.
I. Anves sind-sessile, lanceolate, smonth. Stipules oval, very larere. Comyms tomman, sipra-dex, minumad.

A mative of the Molucess. The month of the bell of the shert corel is memmonly worlly. nearly hidine the stamina.
2. M. percittormar. 7?.
 Pedunctes avilary, many-flaworel. Cornt metabulition.

A native of the Momoras.
Obs. I have sech only dried speceimens of these two species.

Cratyr four or fise-parted. Corol oncepablerl, fime or fivepartal. Gierm inferior, two



1. R. rememose IR.
 t.tisandrons:

Rrny. P'eetungra.

 mon, mud blowsons athent the chanc of the ratuy saman.

Stem straight. Borf month. Bronchese opposite, axpmang, indewalmost horizantal.






 Germ interior, tworelled, with seworal ornla in eath, at tachal to the thickened centre of the: partition. Bervy romal, smonth, shining, stran-whmmed, size of it pat, tworathed. Serds two, thre or fom in cach eell, attacherl to the mper hatf of the partition; shape were surions. Inlegument tibrous. D'erisper"m cartilaginuus. Eimbryo inversc, half the length of the peris-

## 

I. R. sitricha. R.

 the wold $=:$ acolt.











 th the sembl. I: nheryu invertul.
3. If polyap;ina. $R$.

Shrubby. Leres oblouse intire, aruninate, smoth. Slipules qubulate. Nepiles panicleal :axillary.



## 





1. A $\mathrm{P}=\mathrm{B}=1 \mathrm{l}$. I .








 fice in mes.



















 monsi babls, purtion of whiti-h altumen. Cotyl ous two, wal. Radicle inti rior, slumter them the I the.
2. S. or porvifitior. $R$.

 Kundia.




Obs. That part of the above charatur whimbukes the partition parallel dives not argee



 Ti, ling. Bumlaroo.

 Seerls ripe in iour or fio whthafter.




 on the umber side; $v$ ins simple, and ting a.ly uple -ite ; tion six it twelve inches lons, and fiom these to five broml. Floral lenes, the lown pair on two of tha bationtions of tha
 coloured, more permanent, imd lmillat.". Petioles romm, dewnes two on there inches lones.
 nal, large, frentrally with the lower ramifeations, crosical armed. foreres fascoled small,

 qurestines, not half the lemoth of the thbe. F"ilnments five, shent, inserted intor the math of the tube. Anlieprs erect, one-third within the tube. Cirem wal. s"yle twice the





 up to thas sued itcelt:
 a deep pmplish blue with a chalyhate. 'The two innere enate of the hark ( tha oncer lirlit

 to the taste on chewitur the bark, th tiat of the limmer, but is mothe more durable, and chicely : about the mper part of the finces.
 gurperses
2. C. thupsiplora. R.

Artoremis. Lecars owate, downy ; flome colonved and reticmlate. Thyrses terminal and
 urceolate. Parlilion of the calpule emituras.

A native of the interior parts of lengat, where it wat diseovered by Dr. William Carey, and by him sent to this garken, where the trees blowntn in June, and the sedels ripen in Jamiry.

T'runk st raight, eored with smooth, ash-coloured hark. Branches numerons, spreading,














 the sitnre of the partition. Seeds several in cach cell, imbricated mpands, survmeded with
 the base of the seed. Perisperm thin, white, :mal thesh. Embrgo erect, wemly as loug as the perisperm. Cotyleduns cordate. Rentiole oval, interior.

ISATHUTA. Iuss.
Caly. superion, from fimer to six-tonthed. Corol one-petalled; I whe slont, and hairy withI. in; border from four to six-parted. Germ tiverectlal; cells onc-ateded; athechame interior,
 perisperin.

1. P. Envonica. Willn. spec. ii. 229.







## 




1. 2) rep is. Witld rpe i. g-3.






 the mithlle of tha pal iti it.


 on the iuturior silke
1. P. assulatis. If illat. suere i. ent.

 ter-riked


 on the lithe or thene th:




## 


 a p $^{m i-1 m}$. 1 .

 of tite $1 \cdot$ roll

## lims. K ton -








 t, 1. the.
 L. 1 \&. h.414.4. i. int.






Shmhby, homms opmosite, horizontal. Lewees opposite and fascicled. Flowers axillary, tetratcloons.

$$
\text { Kinatenkara. Rliceil. Mal. v. 71. 1. } 36 .
$$

II" chered letrametra. Willd. spec. i. 120 t.
Teling. Jalusino kiura.
This is one of the most emmum, scragery, thorny buskes on the enast ; every soil amb


 and very shanp; in luxuriant phant- they are sometimes three-folut. Leates on thie yomber
 size varinns. Šlipules combecting, submlate. ('mbellets, wr rather recemes opposite, below the thems, small, whont the lengeth of the leaves. Perfurces and perlicels sumonth, romme.

 ed. P"laments time, in the month at the cerol, Anthers orate. (ierm inferior, ghbular,



 cylindric, a little curvel, and furnithed with a solt antertine perisperm.
 leavestremiverally waten in cmories ; on that aceomet the phat has the additional name kura which meani- crableat.
4. ('. dirlymme. Grert. chio), iii. 0.1. 1. 109.

Sub-arloreous, mamerd. I entes ohloma and ovil. Cymes nxillary, suh-sessile. Flowfos pentandrons. siyhe longer than the whindre tabe of the corol, with a mitre-shaped stigrual.

## Teling. Ňamm-papula.

Wi lifice cemmeose. II illil. spec. i. 12221.









 ripe hate and shining, wowned with the (alya. soms two.
©. C. moluceanum. IP.
P'entambons, marmed. Leapes ohlong. Style length of the short gibbous tube of the porol. Nstitme turluinate.

A natise of the Holuece Ishands.

## TANGITVRTA. Tuss.

Caly, five-tonthed. Corol our-patalled; tuthe gibhons; month shat with hairs. Germ
 inverse : and firmished with a peri-perm.

1. V. spinosco. $R$.

Shouhty, armed with deenssate spines.
Bent. Al ivina.
A sumall tree or large bish; a mative of B magh and ales of Chima, 1 presuma a tharo are some plants in the 13 ,tanic ©amben brought fheme. Flawering time the bewinumg of


Trenk inreqular, which with the Intuches it armel with strong, straight, opposite, or












 1ate. Prutide columan', superious.

Ohs. The fruft is eatell hy the natives. Its flowers come exceclingly went to those

$$
\text { L.0.11C.M.1. sibicle. !en. 1. } 319
$$

Corol onf-pet illent, imembler. Bery inferior. [wis.celled. many-eedeal.



 and thre callial Lellyg phual lif the nativer.

## 




1. T. lirmatera. $R$.



I nutive of Chithather where it fowers during the hot seasun; wed ripe in June onil July.

## CUPFE.A. scheile gen. N. 31 t .


 n griop run

1. ('. tetrgulor. R.

 wit ! , A. 1. nit 1 la all lorder.
















 flé ( 111 s collon1- 1 dith $18: 4$ | it is 14




 and the In reti rijen thatular.






 J.4 ital frulure.












Page

 here are also prowe in the axills of the nerves on thr mathe sill. Stipules within, subulate.





 1. ('. perdinemlutis. $R$.

 A niatire of the Thuluecals.

 satments of the borker tinear, longrer thun the tubr, and alout as long as the filiform, exsert authers.

A mative ot Pigeon Ishant, whe of the Halay Arehipetates.

## 








(inla-pilivia. Rhed. Nal. i. !t. l. $\overline{2} 2$. Eimd.























Ots. Its roots ince employial ley the matives like those of several other species to dye rul.
2. II. timelori $\quad R$.

Ierares obloner, shlo-se-sild, opprsite (o) catch otlur, or to the solitary one-flowered pedne tes. Slamina chrlosid. Sliynure exerol.
šans. Uehyooter.
Iliml. :1nd Ben!. |ch. See Lsial. Res. iv. 35-11.
Teling. Tagatou.
 It is in flower and frint il. Aroater prate, if not the whole of the sear.







 cilrifulia.

Uls. The berk of the ronts is urad ondered, the colone is fived with ahma, but it is

 twiled in water for atore time, the ehth or yarn in preprated in a cold infision of the powder.

 ence ! : : l ohtwhis F .
3. M. 1. تnall. $R$.





 rail! *ar lit.

















 that 1 have y: 10 + with.
4. 11 . intte $H$
 abowe the tulue. tit, it rath ow whin.


















 Here the ald at ine ell i-nereis vill'.


 styh ex-ritul.

## $\therefore$ M. mult it rice R.














Page
six inches long, and from two to three hromd. stipules intertoliacons. Peduncles wariously





 empts. the thind with a simgle reed, as acemately deseribed and tigured by Gecither in sho riada cilcifolia.

Ols. 'This plant is cultivated ahont Nompore an the other spowes are in whous other

6. M. anguslifulia. R.

Nhrubhy, wert. Leures opposite to each of her or to a pedmele, lamecolar, bullate. Meads solitar!. Flourers ummerons. Inhars comented deep within the thbe; sligma exsert. Bervies


An ereet, thinly branched shanh, was fomel at Chittaromer by Dr. Bnchanam, and from
 sreds ripen in May:

Trauk stmight, with a few erect bimehes. Baik light asherohnmed ; height of the whole




 perfuche and its respective opposite leaf, wheh marke their prepere situation to bu "phositi-





 with rery dark-coloured prip). Seed.s fomr; eath twa-edhed, with the inner eell large and еши!
ibs. The ront of this shrub is alow ased in dyeing by the matives of hadia where the phant is in plent:
7. N. verumtems. R. *

Shrubhy. semulent; leares whomg, laneolate. L'mbels terminal, simple, berries round, three or six-siceded.

A stont sambent shoub of several fanhums in extent, foumd common in the hilk which from the east siele ot Point de (rable Bay or harbour. In thewer aml frnit in Hareln, (1513.)

## LORAN'TILES. Sichreb. gin. N. Bon.

Caly.e uncertain. Corol frempally one-petall I, and often irwernlan: Germ inferior, one-celled, one-seden; allachment superior. Berry one-seeded. E'mbryo ineme, and turnished with :1 perixperm.

1. L. licolar. Roch, Corom. ii. 19 lah. 139.

Leures oppmsite; oblong, smooth. Rucrues uxilhy: Corols imprular, five-cleft. Stumens five. TBrory ohlong.

Saus. V'unda. ${ }_{+}$Vrikshadume Vrikilulhukshat, and Vrikehuroohn.
Mised. mud Beng. Bur, -manda.
Yellinga-wadinika of the ledinsas: (wadinikn means parasitical.)
Is whaty fombl growing uphe the brameles of varinu kinds of trees, and is very ramons. Flowers during the greatest part of the year, und is highly ombamat.

 veins semeely any; from there to five inches loner, and from balf an inch to an inely and at
 appearance wery mel like those of the honeysuckle. Bracles, a smath, coneave, cortate oue,

 one-perallech. Tinter long, a little curved, swelling from the bottons to within :s third ot the month, then contracting a little; border tive-parted, "pper fisweres mueh the deepest ; segments linem, retlexed towards one side. Filcments tive, from the base of the segments of the conol, short. duthers limens. Geem inferior, naked. Style lengeth of the corvo. Slifma

[^7] teatul. suds singlo.












 fonr-c it, va u 4 ír. If , i, 1 . 1






 14. (


i. 1. \& bies \&. $K$
 ronnd. (1) al.




















 Iy :

i. $1 . f+\quad+$ e. $R$.






 Where it lha whu or t part of : In : war.










## fi. I. "t aprulliverus. I:


 Berries long, oval.
 Flowers in the dry senam, pmotably the whote weme romel.


 generully how than twin in herath. Rememes anillary, solitary, or in pairs, bund shorter than


 dimisions revolutio, somewhat spatulate. Filaments si., timm the munth of the tulne of the pot




 ierse. Cotyledons shart, scmi-cylináric. Radicle cylindric, with a tmothate apes riving ahove the perisperm, inverse.

## 7. 1.c clarmus. R.

 irragular, fimer-clett; berries clavato.

8. I. Pentraptative. $R$.


 Silhet. Fhowers appering shme the herimine of the rains in dume.










 yellow, one-seeded.

## H.1MLLTONTA. Roxd.





1. 11. suareolens. $R$.



 near Pluibudelphin in North Americel, anl eminent lnominist, aud the tirst who was at the ex-

 for haviug emriching it with mathe of the chmitest phats of the New Whent.
 garts anh-coloned, with dirk purque speckis; gencral heirht from sis to ten fert. Leares opposite, short-petioled, broad-limecelate, smonth, antire, from three to six inches longe. stipules ar mather comectium membrames boval, ensiform. Flomers sesithe in terminat co-
 fragrant. Bractos ensition, cillons; several surromding cach fitacicle or ha afl of thwers as well as intermived anmenst them. Caly. suparion, fivercheft, permument ; divisions snbulate. Corol onepectalled, fimmel-shaped. Tube slouder, widening a little towards the month. Border consisting of five surending, ohtme divisions. Filfments five very -hort, inserted into the tube of the corel : liftle within its momfls. Anfleres halferpect. linear. Germ inferiors. one-erelled, :nud eontaining five distinet ellambers :uttached to the hothom of the eell, whiche now, thick and strentent, herome the ned-like aril of the ripe seen, enels chamber eontains one ovnlum attachech to its hothm. Capsules the size of a peat, whonge,


 Integunent single, dark hackish-brewn, frishle. Perieperom in wery suall quantity, indeed
 corlate, filistecons, with it doulling down the middle. Plemula minmte. Realicle obloms. interior, minting to the nublitiens. Compare with Psalhum, Geert. cunt, iii. s3. l. 191.
1. Il jitusict. $R$.




2. N. rary bowa. Rorl,


 Hathto surpaisw it in latu!.



 S.











 herb.











3. 13. isolim. R

























2 13. rasentincert $R$



Anhonorya is the romenher mane at silhet, where it is indigenous. It arows to be a
 her.













 short. :nid crowder.

 in Ify.
 the cold worly parti hrown, of the yomere anits yreta. Lerems alternath, petioled, wate-
 bate, both sildes smonth, texture firm, three or four inches loner, by two hroad. Rarmes




 attached to a free reechate, rising fiom the hottom of the cell. Style short. Stignu threelobed.

1. 13. glubica. $K$.

Arhomems. Leares ulternate, ovate-limeolate, cmires smanth. Pancles axillury, smoub. A slender tree, with straght, smouth branches, and leaves; a native of Chittagoug, whore it flowers iu Mirch.
j. H. Actrandita. $A$.

Luees altemate, whinner, cutire. Racemes axillary. Flawers tetraudrous.
A native of the Moluceas.

Cumbl mate, antewhint mepual. Ciapsules superior, two celled, two-valved.

1. V. Thatesus. W"Ild. epere. i. I(0)1.

Leares decurrent, downy on both sides. Stem simple.
Fommel hy ('intuin llariwicke anmerst the montains on his tome to Shreenugera. In
 perfectly straight, but uftell ramons: it hlusions duriner the cold setsem.

MATVRA. Schuble ger. N. 3:32.
rural infindibulifinm, plaited. Colye tubular, anralar, deciduous. Capsule fourvalved.




Bern!. Kala - 1)hontmove.

 dry root smoknd is sad th meliew spat-modic inslama.

Ammal. Lefies with the two siles uncyitally ovate, martitus repand-lubate. Frwib round. sipinous.

Reay. Dhsutword.

11 ummati. Plec if. Mhel. ii. 17. 1. 2 L .
Fery common evers where why India: produces thowers mul seed the whole vear,

riallar gibbous, tive-tuothed. Curol rutate. Beryy superior, withiu the inflated calys, two-cellod, mauy-sueded.

1. I. tlexvosiz. I'illd. sper. i. $10 \pm 0$.

Shinbly; branches th xinse. Lemes obloug. ufien pairet. Flowers arillary. frumded, sessile.

Deretti. Rheed.' Mral. is. 113. t. 55.
Benig. L-lisu-geualhirs.
Teling. I'emuetue.
This pifemial whecies is th he fomul in almont evers suil amb sitmation. Flom ore all the riat romid.


 rel, win 4 ! ! ! !











 lat dnath thrive in $\mathrm{d}, \mathrm{d}$.



 the स्ता1 - p il -
$B \because 1$ prive.









Itimed. Tumata pati.
 af cormand 1 .




 whluw.



## 

1. S. pubrese e. If ; 7re. sjere. i. Tugti.
 ablhet to me

$11 \% \%$ ir $s$









[^8]Pago

 lively blue-pmple. Berry siherical, ize of a small chary, when ripe of a dull yellews.
 this species readily knowin; in all uther resuets it aluost exacly reombles the preating ; in that phant there are no stipule, and the fowers are white
3. s. Leycoplersicun. Wrilld. sp, i. |l) $3: 3$.

Ammal. Liares pinmate, gished. Recemes lipartite, Ienfless. Fruil amoselli, vertically compresed, torulco.

Pommum amoris. Ru,n,h, Amb, v. f. 15, l. $f .1$.
Althught this is how very common in ladia, I suppect it is as little a native as the eome mon putatoe, which is now rery gencrally coltivated over ludial, well ly the matives for their own hise.
4. s. rulurum. Willd. sp. i. Ina3 t.

Anmmal, (re⿻t, mimmed. Brandless sonmewhat angular. Lecces ovate, dentate, lobate.


Being. (ionklit
Nelont tajumba. Rhmed. Mal, x. t. 73.
A common weed in gathens all ower halia, with flowers and ripe sent the whole year rommel.

 cultivated is a put hemp.
©. $\therefore$. decemidentatum. $R$.
 clas axillary, firm two to six tore ther, one-floweret. (ialys tem-twothed.




 with a branchlet, petiohed, winte- :- somewhat andte, villons. P'eluncles mallars. from
 Berries the si\% of a pen, smoota, brierlit red, when rije.
6. 犬. spiment. $R$.
 urexpanded part spimalty revolnte. Negments of the calys glambur.

Buyna is the vernacmar name in sithet, where it is indiranous, und in fower and frat
 its smonth. deop) greoll leaves; spiral racemes of pretty white flowers ; mucl manerous suall, round yellow bervies.

## SECT' II. Aimed.

## 7. S. Melongena. Trilld. sp. i. 1036.

['eremial. Leares obliqumly-nsale downy, seulloy-loberl. Fortile Aomers solitary, long pedmelenl, तrooping ; the barren oues ons small mecmes. Froit oval, smouth.

Beng. Beдскин.
Kind. Bangul.
Trtiny. W:ancrati.
Nila-Mamdenar. Rheed. Mal. x 117. R. 7.t.

(of this wey miverally usfal, weblent species, there are many varimes cultivatem in like the Copsicems mot so proxinetive after the first year. 'rhey comitme to hlowom and bear
 very few pricktco hat in a peror one many.
8. $\therefore$ longum. $R$.

Peremial. Leates irregularly ovale, scollopect. Frat cylimdrical, smonth. Corlys somectimes armerl.
sans. Kowler.
Bang. Kindi-becrom.
Neer Wangat i- the 'lidugn mance of the phant, and Neer Wangkit the fruit.

## 1. ny Bringial in limptean-

















4. insutheme. H'Ild sp, i. $143^{\circ}$.













 hle: Hmer whit anl aply or at ail - .at
11. \& / /T



I.
























13 wid. Katill thater.























 with a , 1 ons tre allow.



 herbs.




 ? tan .





 drooping.

## 1i. S. hirsutum. R.

Ammal or hiomaish, momona, prickly. and hairs. Leares dombly, one of the pire smallor,



 in Ans.rnt.

















 clavate pecluncles.

Benif. (intal becroen.
This: is an execedingly common phant in Benusal, where it srows near the habitations of men; in blossum and trat the whok your.

## CAPSICUM. Schebl. gen. N. 338.

Corol whecl-shaped. Authers converging. Berry superior, juiceless, from two to threerelled.

1. ©. ригрицгени. $R$.

Shrubly. leoures ovate-luncolate. Pedmeles solitary in the divisions of the branchlets; atter the likosom droperect. Berry erect, nate, dark purple.

In 1700 , I fombl a sincrle plant of this species in the crarden, lant from whence it came I rould never lemu; most likely from the Molucen lalands. The seedshave for these thirteen years eontimud to produce, in all situations, plants exactly the same as the origimal one;










 whle-.

 rit x




i3. 1'. rrustim. W'illi, a a i. 10.31.







 iv. (the. I. r. Hol





$\therefore$ ( $\because=1$.




© ©....

 "1) H11 arimun

## 



 (6 utrintil)



Bt \%. Kitwhtr.






















 0111 -t ोो 1 .


Tilin!. lulncil.

Fin!f. ('1. :11'iuer-1ubt.



 the la :






 dinaly! abll.







 lant tatl to the matitulion.

## 




























[^9]


 (c) 1 tripe t.al.)

## 












## 








$\%$ ノ (...) !













$\ddot{Z} 1.1$ r
















3 1.nidell. li.
















Prgo












 hle propertion, int replete with purple jnice. Secel solitary, round. l'eroxperom nul embrous ns in the wiluer suecios.
i. A. willowe. R.




1. I. monteflota. R.

with Progus rucemosa, fourier. (womm C\%. 149.
2. 1 I. lencerolerla. R.
 nxillary, enniposed in at tew simple matomos.
 July.

Leperes altarnate, short-petiohent, hromel-lanceolar, acmminate, smouth, rutire; from six to






7. A. diemyens. $R$.
 bellets terminal, sussile.

A mative ot the h olnceras.
8. A. evenalie. $R$.

From l'ulo l'inang, where it is a mative.





9. A. glamlulaser. $R$.













 toj) of the: allthers.

## (!IIIRUN/A. Sichich.!fen. N. S1.9.




1. ('. ernleniomoidex. li.


('lismuli, rasierolle. Ilrol). Brieks.
Beng. Cirmui.

# Page <br>  

 wermin







 dinal rave pitulta th in fientite．





## ERY＇lli！R \＆















## EM，ぼった．J．


 and limtil if with therip Im．

## 

 nal，hary









 1 ri．if a
i． 56

















2．V．，mi＂＂stal 16 ．















3. L. nespila. liond.
 Racmexamillar!.


 sessile, axillary racemes. They :ppent in danmary.

## 


 are tertile. Finhtign inserse, withont peri-puerm.

1. ('. Intipiotice. 1 .



## Hind. Burvelwengre.



 "olenn (")wared wi:h a whitish hexnn.
















 Plumala very small. Rudiele emnio. supurios.





 when ripe sellow, hat ittoment- tuming hak, ike.




 Pistan, are applicalbe to loth somt.





## $\therefore$ ( 1. Jry.cr. Wille. i. 117 2.

Poly zanoms. lames oval, minnul. Paniolls tominal, amd lateral.
Fida-marmm. Wileret. 1/el. 1. 1. 37.

Beny. Buhomini.
Hinct. lanaral of Lastronal.
Teling, Nelsta.

## 


















 that of firl i，以


 finh inflyg fire l：fic 1 m.




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11.1111 \＆． 110 r． 1 is．
 t1 川15：b．f ir．© inl

TH，1＇：2，\％－11。
$1 \% \cdot 1 \cdots$











－1，，dia．R．






















 *IITMior.

## 7. ( ${ }^{\circ}$, mentrererma. $R$.





 are in*irtal.
8. (. , vly! 7 amre. R.





Fronk tolombly straight, but Ahort. Bark protty smonth, of a matk olive colons. Brameless











 Nebestima !fficimilis, firerl. sem. 1. p. 3iti. 1. Tli. p. 1.



 of the male phat wre sent with my other dicpatches of the same watme, to the Wombur: hle

O. ('. relgustifulia. $R$.
 sylule twise two-chelt. Nub four-ertled.



Trouk short. Brenches mumerons. sparaling in evory direction, with their lome, shater






 gelatimons, and pellncid. Not fonm-cedled, thourh seldom inore than one seed comes tomaturity.

## RMRETT.1. Schwb. gen. N. S52.

Cally.r five-parted. Corol me-petalled, five-parted. Sligma two-cleft. Drupe superiol: "ith if fiur-pirtible mit, or with one or two from two to six-celled mut-

1. E. servila. $R$.

Leures hrail-hanceolate, serrate, five-pointed, smonth. Flowers panieled. Style halt (wn-cluft. Jompes with two two-edled ints.

This: trow hiss been introntued from bhotan, and is now growing and beariner frit in
 Flowering tibu the beriming of the leot semsom.
hamess alternate; petinled, whlous, ind hrond-lanceolate, acontely sermate, smonth on both






 wheth rine the julps.























Timy lili.jmbe.
 : 5 :









1. Fi. ic il, il



\%. 1. velo, $R$



## A Brive of the l-3 mil 111. mom.


 thmmert intu tim or wide vllat.















## 





1 1. "ciuntin Imor. $R$.






Pago
 except while yomrg, then clothed with fernacinome down; wins smath, simple and parathel;


 Filamenta five, insortel intu the tute wh the comel neire the bise. Anthers in the month



 polished, of a shininer brown columr. Perioperm comtom tor the seed, yellawinh. Embenge extended thromerh the" whole peri-perm, ereet. Cotyledons obliguely ovate, thin, thee-nerved. Runlicle curved, sub-cylitudric, infirior.

ThCTONA. Schreb. gru. N. 856.
Calys five-toothed, bremminge inflaterl ower the growing perionrp). Corol one-pretalleal. Germ tonredterl; cell one-seded; attuchment emeril. Drupe superior, dry, hid in the catys. Nul tour-seded. Seed solitary. Einbryo erect, without proisperm.

1. 'I. grandias. Willd. «p. і. 1uss. Roxb. Curome 1. Ai. 6.
'Tokka. Rheerl. Mal. iv: p. 57. 1. 27.
.latus. Rumph. Amb. iii. p. 3-1. t. 18.
Trling. Treek.
Caiz. Iunali.
TBeng. Sitgront, or Segom.
This most nsefin tree is a native of various parte of Tutha, viz. the momatanous parts of




















The wool of this tree, the moly nsefut part of it, has fiom lome caporimee be en fomed to




 in or out of the water.

Pexn produes the hrgest pantity, and their hege rivers enable the uatives to bring it down to the sem-ports from the interior momatanoms parts of the combtry. where it grows, at a cheap rate; which enables them to sell it lower tham in any other part of Indin.

## 

Calyx five-deft. Corol rotate, tive-chett. Aertary five-henved, inserted on the lisumes of the corol, alternate with the stamina. - Stigma sinple. Berry superior, five-seceled. Embryo erect.

1. S. tomentosum. Willd. i. p. 1090, R. C̄orom. pl. I. I. 23.

Tuarmed. Leaves altemate, oblong, whed, downy: Fluerers axillary, fascicled. Bervy with from one to fise seeds.

 short-petiolect, owal, a little soolloperd, when full grown sucoth; when omme covered with
 cles mxilliny, mumeroms, short, downe, bowing molivideds ome thowered. flomers small, dull white. Calys below, five-kavid; lerflets imbricated, downy, permanent. Corol mepetatlect. Tube short, inside downy, numgin simple, tive-parterd; seqments sprenting, hatf lanceoliste, acute, waved. Seclary leaflets five, nlternate, with the tihanents, waved, length
 site of ant olive. Seeds fenmerally one or twis thouch there are the rudinents of tive in the grrm.

## 


 sedial. Fintry) erect: priamorn wanty.

1. K . in "taus. K .


 fink time the efld reatem.















 a star tor ris en.










2. Li. rergat e. $R$.























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\text { 1. 1. Iuchive. } R \text {. }
$$








## 




1. $/ 4$, lrinerviar. $R$.






 lex, (








I.



## 2. \%. alleens. $R$.


 sumoth, white.










3. Z. latifolier. $R$


 to be al small irco.

Prickles sulitary, very thick, bont short, recurvech, a riond p mated thom-lihe stipule oreu-








Tlulum intlicum. Rumph. Ainl, ii. 117. t. 36 .
Bres!\%. Korol.
Jind. Biers.
Thelings. Rerserlat.
On the const of Corommale this grows tu be a smatl tree. Flowermg time the rainy seasent; the fruit riperus : alfor the rains.






 remblate ; they ure inserted on the inside of the divivions of the elys. Vefary sameer.





5. Z. ruly(aris. NFillit. sp i. 110.5.

Lames obliqualy wal, sermate; thee nerved, hoary mudurneath. Thoons stipulaty, one

##  <br> Pago


 fr it $\mathrm{r}^{\prime}$ : M, in ditury.
ti. 7. minits. R?

















 งtylर सपथा itt.

## C. J.uter. If;illd. i. Ii+3.




s. \% Vhiviz. 1 .

 111 19. $f$,







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11 K. rimy re. Il W/ a/o i linl.







 "以! 1"







 - (i) I1 lof the 11.0 bis

(i)

Pago Carey
eoloured, very hard and durable, and at the same time not very henry.
12. Z. Caracutta. Buch.

Arboreons. Thorns in mirs; the under one reeurved, the upher one straight. Leaves
 cleft. Dinger wal, with a throerentled ant.

A motive of the sonthern parts of Mrome, and there known to the natives by the name
 dncerl phats, which in four years were abont ten fo thigh, with a tukahly erect, htont thank,


 smooth, and arnte; where the flowers are, the thoms are whe rally difornt. l.enves shome




 Seds solitary, attaceled to the luttom of the cell, nemriy romul. compresserl, convex on the insile. Integumonts two ; the erterior tim, light, hrown, and polishend the imer thin nud whter. Perisperm ; when the seat is ripe, there is only on
 margins, as befiore matrivity. Fimhryo erect; cotyledoms two, membly live-nerved. Raticle iuferior, oval, jut within the umbiliens.
13. \%. microphylla. R.

Shruhby; bramehets bifarions, flexnosi. Thoras stipmlary, one straight, the other recorvel. Letaces ovate, three-merved, serrulate, wowly maderneath. IVorers fascieled. Stayme two-cleft.

Rhemnus nummularia. Burm. Ind. (i].
Common on harven uncultivated lauds on the Coromamel const. Flowering time the beginning of the puiny suman.

Shem seareely niy, lat many slender, rigid, hitarions, flexnose lumeles epreating in all




 tose on the onteide. Prefals short-cluwed, ownl. Stigmed tworleft.
11. \%. Yapera. Willd. spece i. 1111 .
 Thorms stipulary, Nuts (w)-cellect.

Sams, Sowhimuphula, Buhookntnka, Sonkshmmputruka, Duaspursha, Dlullioora, Shmvurahara, Shikhipriya, Kurkundhoo, shrigalukuli.

Beng. सhreatkool.
Telinga. Paramic.
This is the most common species of the erems; it is to be found in every ledge theronerlont India, and nhays with scarcely any thing that con le ealled of trma, but many larese, stragerling, climbing branches, which ure too weak to suphert themsolve. Burk dirk, wat-


 from one to two incles long. Corymbe inillay, manc-thwered. Shyle two-elett. Drme. the size of a pea, smoth, shiming back, marhei romed the base with a cimenar seme. Int ruperate, wherdate, two-cedled: frelerally whe of the cells is whliterated, or abortive. Seed salitary, antixer to the bot on of the cell.

The fruit is caten by the mative; the taste a wery pleatint aceid. A decoction of the bark of the fresh reot is said to promote the healing of fresth wonnds.
15. Z. glaliru. R.

Shrubby, semdent, smouth. Thoms solitary. reeurvel. Leares oratecordate, long, obtuse, pointial, serrulate, sumoth, stroncrly mirked with three nerves. Thropes onal.

A mative of ' 'lhittarong, where it flowers in the coul seasom, and the fruit, which is about the size of a proselherry, ripens in May.
16. \%. incerva. R.

1. Arlaneobs. Tharas paired, une straight and patent, the other incurved. Leaves wate-
 many-tlowered ; flowers semi-dignoms.

A native ut Nepal, from thence introduced by. Dr. Buelaman into the Botanic garden at Calentu, in 1802, where in ten years the hat \&rown to be slemler trees, of about fittern feet in height, with inmmerable will mond hanches, mal surooth branchlets spereding in every direction. Flowering time the miny satinn.

## CRANOTHIS. Limn.

1．（1．aciatiate I．innt．


 mill tiv．Burm．7．ul．｜11．t．Iv．





















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## ぶて！I！LI！．smith．






liaka indleli lilowl．3／al．1．\＆1．1．11．





























Piefy five－leaveal． ＊ollal－1pにrior geru －purall reall！

1．13．jilusi2．$R$ ．

Shruldyy, twining, hairy axillitry, pruliferous.

A must extennive, twining shluh) ; antive of Chitfarong. The flow oring fime in the
 specinters: frout silhet.






















2. 13. heitueners. Roxb. ('uromb. i. IT 2!).
B. corilata, IV illa. spec. i. $111!$
 toothierl.



 verging over the pistillum. Filumpnts five, very short, firon the fissmres at the nectars, reflexed. Authers duuble ; sincrly ovial.

## CELALTRUS. Scherb. grn. N. 3iz.

 ed ; seeds fow eowred with arolommed aril. Limbryo ereet, and tumished with u perisperm.

1. ('. emarginata. W'illel. sp. i. 112s.
 inflated ; crlls twosernderl.

Telingu. ('hennce C'linton.
Is one of the most common, rather poor hokinir shrubs in these parts of ludia it orows









 three-eolled, salved. Steds two in cach cell, sllall, shiningr, real, restint en a whitu tleshy ron ceptacle.

It makes groud fences, mud finel.
2. (․ monliema. It.

Arboreons, thoms. Leunes ohowate, serrulato, smonoth. I'enickes axillary, smatl, elichotomons. Cressules with cells two-seredel.

Telinger. P'aldal-elnintoo.
 same large, shatp leaf und thowir haring thorns as in the lisit. Laferes alternate, shart-



 nute. Capsules small, not inthater, in other resperets like the lant. Needs one or two in rabli


 Relinl wat：intorint．

The＂hend ：this tree is l．at，athe duruble
3．ㄷ．prure tha．Hif！．sp．i．112．5．


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4．1 ज्ञा！？K





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rirn i－



 rideg in the lottom of the coll, which coonace the opening of the valves thair shater varies


 ens. Colylerlons two, viny smatl. Rutlele inferior, ovial.
8. C. mičan/ha. R.
 pusito, ohlong entime, smonth, with simple parathel vains. J'sur-les anillars, filitorm, fermginoms. Jerlary sancer-shapme benrine the stamina on its marins, style hone.

A mative of thre Mohaceras, it very doubtinl sperodes.
O. ('. ablusifuliar. $R$.

Arhoreons, mummed. Leares pretioled, lanceolar, obtusely serrulate, very obtuse, hark, smoroth. Dedumiles axillary, many-flowered.

A native of the Mandins.
1). ('. monosyermar. R.

Shubhy, semment. Leares oblong, glossy, sermulate. Pamicles thin, linear, axillary and








 with the stamens maler the margin of the flat repand nectary, which combares the buse ot the

 the si\%e of a feld bean, oblonge, smooth, therevalsed, hit I never fomme more than ome cotl.

 decpermen. Cobyledons oblong. Raticle oval, inferior.
11. (C. roblessiks. RP,
 one-reelled, two-sereled.

Sherlkoil the remacnlar namm in Sillset, where it is indigenous mul grows to be one ot their largest timbur trees. It blossoms in Sngrat. and tha semberipen in Marelt.

 Shigules sumbl, caducons. Racebies axillary, siumle, or puired, simple, ceplindrice lenerth of the



 on the :

 that on the inner side, nrilked. Inleguments snux)th, lisht chesint-colomr, prety thick and may "tilcereent be diviched in two of there lamina; aril complete within half' a line of the "prex
 bigu evert. Colylalons corlate. Radicle cylindric; as lomg as the cotylectons, iuferion.

LUONTMUS. Schreb. gen. N. 373.
Curol from fum to live-petalled. Germ from two to five-celled; cells twu-serded ; aftark
 Einbrvo erect, and furnished with :l peri<perm.

1. B. atropurpurea. Willd. spec. i. 1132.
 Hoterere tetmadrons.
 wight viare the phants are tour or tive fect hiph, thin of branches; and mow bearimbing th hlosmmin in Warch.









 axis. Nyle fom-siled. Negina ubture.
2. V. givimer. R.




A amall trom, st native of ('hittatenne, where it flowers in Mng
3. 18. It ercinifuliar. $R$.



Mori the sermumbar name in silhnt, where it is indigenona; gryuing tu the sifo of a













 foduns arateromotaste. Redulte eylintric, inforios.

## 

Culyx tivepartext. Copol fiveremathet. Cierm lith in the eresulhted that nrevary.




Bन! $\%$ Kuktupita.
Telinest. Yevra chictali.









 rulihe that of ateriule f firtedto.

 gryiopery,




Page















 rior:






 tre⿻ in Nippul."

## 


 and fin"uishal with a prrinpmo.

1. P. Tuhiore. R.




## 

 herrmel wevtert a

1. (i. lilicefulim. Willo. sp, iv. Hou. Rom, Corom. 1. N. Is.

Shmbloy, climbine. Leeres "ordate, semblate, smonth. Racemes terminal, and avillary
Tetinty". Menki - Iirat.









## ITE.1. Šhmu. gen. N.: 381

 receptacke.) Capsule mie-celled, two-valsed, many-aceded. Recepictes lateral.

1. I. rembeltata. 3 ?

Shmbly. Lemes alternate. petiotch, trond-lanceolate. Panicles axillary, and termmal. (0mposel of lomernalieelled, simple umbeliets.

A mative of the Mal:1! Pamde.







 the two parictal reaptatho.




1．1）．Tirac．li．








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$h=7.1=4.1 .1$


 III $\mid 11+111-1$




























Caly. $x$ five-tonthed. Peluls tive. Vertury grobulat, apex performed, inside staminiferoms. Germ superior, onterelled, from one wo two-seeded; athedenent of the wanla superior.

1. C. chinens. Rumph. Aimh, v. 28. 1, 18, f. 1.

An clequint shinh, most prohably an native of ('hina, at lemst it has been bronght to the
 during the hot sesom, and the carly part of the rains in June and Inly, but has not wet, shown any tembency on produce froit.


 ternate and mombally pimate. Lenflets moly mere than tive, the pairs opposite, and muels Smallar than the terminal one, all whome, but taperiner most towned the bare, smeoth, dep green, cutire, olituse; from an inch and a half to four inclus longe, and from half an inch to two inches broad. Pedioless somewhat winged, and chamolled. Paniefos, smbotimen mly racemes, axillary, solitary, shorter than the leaves. Flomers minute, yellow, fuintly fragrant. Bractes ovate, one embracing the insertion of each pedient. Calyx that, tive tumbed; teeth semi-hanar. I'chals five, wal, evole:we, at all timesp presing m the mectury, smouzh, much
 f"luments rearcely any: Anlhers five, cordiate attached to the neetary near its hase on the inside. Germ suprior, oblong, hairy, one-oclled, witl one or two sedds, which are attached to the top of the cell. Slyle mone. Sligma lamere, conical.

## ILILNEA. lioxd.

Calys. five-parted. Pclals five. Neclery meeotute, with the tive authers romed its inside. Cem three-colled; cells from one to two-seded; allachment centripetal, no perisperm.

In honomr of Colin Milne, LL. D. anthor of a Botanical Dictionary, Instilutes of Botany, and other works.

1. M. edulis. $R$.

A tree of midaling size, a native of the Garrow hills and of the Sillee distriet, wheme
 muler the cortux of the bery. Flowering time dune and Jnly. The frut ripetas timo or three months afterwards.

Foung shools dansely clothed with dark brown down, when more adranced smonth. Leares altermate, mequally pimate, from six to twelece inches lons. Leteflets from three to six pait, sub-opposite, petiolate, lancedate, entire, smooth hat uot lucid, obturely acmamate, Prom three to six inches long, by ane or two bromd. stipules mone. petioles "dindric, somewht villons. Pancles one from each of the lower axills, mearly as hom th the lames, very ramons and sprading; like the young shonts rery downy, flowers numerons, minmte, caduenus. Bracles very mimute, enducons. Calys five patted, smull, downy on the ont-ide;
 petals, mouth five-toothed. Filaments five, very short, inserted ou the inside of the bottom of the bolly of the nectary: Anlhers sacrittate, and completely hid in the nectary: Germ sumi-sipperior, thre-celled; cells: with one or two ovala attuched the axis. Style stant and thick. Slignae twhimate, tmaneite, six-grooved. Berey romul-oval, rather nore than an inch in di:oneter, threecelled, contaniner seldum more than one fertite sed, most of the ovnla being in general uhortive. Cortex firm, rather dry, cowered with a romsh, hownial gray mealiness. Seed solitary, oval, insted in a complate thick, fle hhy, heich, edible mil, like that of the livhee of china, Integment single, frowne whering more firmly to the aril than the sed. Perisperm nome. Empryo transwerse. Colylealons eonform to the sed, equal with the surface, finrowed. Corculum tramserse, hary. Radicle short, pointing to the umbilicus.

## ELAEOTHENDRUMI. Schreib. gen. N. 385.

Corol five-petalled. Germ twoededted, wo-seeded; alluchment inferior. Drape superior, oval. Fult two-cellent. Embligo erect. withont perisperm.

1. E. glnuenm. Perssoun. Symops, ii. 2f1. Rorb. Corom, ii. 2.

Leares opposite, ohiong, servate. P'anieles axilhary, dichotomons. Drapes spherical.
Schrehera ulluens. Willd. spee. i. loge.
(ilisinus glaucus. Fichle symb ii. I:?.
630 Mansifinal glauera. Rollh. in. For. Acl. Harn. ii. 53.1. I. 1. f. 1.
A middlowizetl, or mather small tree, mation of sarions parto of ludia. From Ceplom it
 like thase of that phant hut mach lonerer ; their taste shighly bitter and astringent. It flower in May; the sededs ripurin insptember mul Octoln.1.

 smouth. Lecetes ofpusite, short-petioled, oblong, and cuneatcoblongs, sometimes very aculely,


 putiole. Panicles arillary. Ahorter than the leaven: :all it-division-dichermums and divari-













 to the cumlitictit.
2. 1: indiam, (icert. carp, i. 271. 1. 57.



 in May and turse, und the meats ripan in Oftelner.

## 


 priciprill.

1. V. opporiffotia. $R$.
 all fintil.


 in dmur mad duls.



















L.ares lanemate. l'anda horminal. Fluters with one fertile shamen.

Mat, In. Hath, vel. Mamsan. Khand. Y/t. iv. 1. 1. 1. 2.

Jon! dill.
Rimyleah M:antion.
Intugg Mant:ili-r litao.
Tom $110 \leq 1$ thrimm.



































 a tarre, picklen, so. are made of them hefine ripe.

 whter, and haed an an altiche of dier.








 With :s shtall thrir, ot hrown.
3. II. sylmatiert. R.


















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## I/.1 il IVl.I.I.1. Ii.





1．W．ronpis liveictex．IR．

 fruit ripurn in ．ln！



















 two lushal plumia is very comapi that：

## NI：IIIII．R．

 1． 1.

 Hillg of tle is ज च














 ant wels．$\%$－ 11 ，ible－watity．

VAlileta liml．
Palure five he wide or tivoruart il．


Fincul tiserputallent． B－⿵冂卄＂
fierm muputior，cotbecellal：wrule

















 mative of l'uln P'ilather.







 the mithlle of the fons at the colmales.
is. V. hetromeliter. R.
 ill ortoher.



 imbrimite woil!




 or finir sexdo.

## 





1. V. सffrmfiment. Il illit. sper. 1. 1171.

















 evlindric: puating te the mabitions, at the smath entl of the metel.
2. V. comensjpima. II illd. spere. i. 1171.

Nremm. part mes. Mherof. Mret. it. t. tith, ratheq a lad figurc.
3. 4. promulifoliar. If illd. spers. i. Ilie.


 aud ripens its secels more or leas the whole yeat.
1. V. apminta. TR.

 ont a cerol.
 flower und sexd the wholde fear.

## 





1. 2. Bersumin e. W'illet speree i. 117.5.


Bryig. Desmiti.
Slimi. liont-1mendec.
$\because$ 1. trepedate. Lí.




 its urizime widd atate.
























 red. Wid : , , 1



## $1 \because 11=1, \cdot 1: 1$



 (14.3 al 111 ?








1. h. -1 ititat it.

$\therefore 1$. $A 141+i+1$.
















## Puge






 Rewlide interior, pointing to the mabiliens.
 mucilaginom:.
¥. L. crispu. Wrilld. spee. i. 1177.
 scrvale. - fultros liex.

Nilurnt Wherel Mal. ii. 13. 1.26.
Beny. R1un-clattio.








 the magin, mad anting in thi ir puinte, as in Dillenins speioser. Pefintes lime or five-winerd;
 alittle hairy, five-flowered. Braftes minute, hary, matrins manime down the next pedanela


 Germ eonieal, six-relled, with one orutum in cuch, athathed to the lame of the axis. Shyte




 Aammy fissures. Embego small, hedged in the hase of the proverem near the mbilicus, a little incurvate. Colnterlons submlate. Radicles interior, whlong.
i. I. robusta. $R$.

 the rains.

Slems in phants five sears wheret, abont five or six fect hifh, stout, simple, flexums, fointot, rombl, the worly parts pretty suoth, the more temer parts rather hash, with








 fissures of the medary, abowe the middle jointed, mal there bent in and down. Anheres li-





 Coblyledons submbite. Radicle intertor: pointiner to the unbilicus.
4. L. hirle. Merl) Bankes.
 commerteth.

Beny. Kak u! antrlat.
A nutive of the lower parts of Bangal. Fhowerine time the rains seatom.


















 all






 six-mulat; whendry toruse.

1. 2. Naphinla i. $R$.





Teling. In -1 x :















 rethet. Aे: to me in molt inlt.
1. 1.1 mitd. $R$.



Titem. 16 maxlipakar.
 rev durine the wit aman.












## 








$\therefore$ Chembrabill: Fitaen M,4. vii. 11. I. ©

## Beng. Amilinuka.

A mative of varions parts of India. Fhowering time the month of April. The fimit ripens in July.











$\because . V . l$ mater. $R$.
shrubly, climbing. Ieares cordati, ectrate, woolly underneath. Racemes paniclecl, Itafopposed. Peterls mohering at top).


1. 661






2. V. Iatifolio. R.



Villii-P'in:1-1'itiea. Mhered. Nul. sii. 13. 1. 7.
Beag. (invila.
 fimmer of the ruiny sthe; an I rip rine it It is in of ll













## 1. V. puriflis. li.

 opposid. fi w-flenseral.











 lubed.

## MTS. 1. Scluel, gen, N. Lstio.




 seeded. Embryon coptral, all! mapls timaished with is perispetm.

1. M. sufuentum. Willd. sume is. \%. S!lf.

 they aro nlwavi diedidusts.

Buta. Rheed. Mal, i. 17. 1. 12, I3, mud 14.




$r_{1}$.. ivil.














时



 1



 (1)












$\div 1+\quad 1 \quad$ i

! $\quad .1$


























 8. II. or 1/. $/ 8$


Page
cyual in lmgeth.



 they bosisom mad ripent thoir sects the whon yas:



 pmple or litite, two or there-flowered, deciduons, lenath fiom four to six inelust filmeres,












 perim ind emtryo as in the fimmer specins.

A reey pretty ornamental phat, and womld no dont be much admired in Europe.
4. M. superia. IR.

Roul tilhons and perishing with the slont ronical stem. Lfeures purtioled, hat unt sheath-
 flower pumament.

A native of the vallium of the shat tern parts of the penimsula of Indis. From Windignt
 tanic earten at Caleuta, where the plants thrise, hosom, and ripen their seeds at ramions times of the yent.





























 as in the fommer = perics.
5. M. glence. $R$.

Lienf tibrons: and perishing with the colmumar stem. Spadix drooping spathes owate-
 phorolife themers withering.


























## 





1. is 1 जाना I?




## 


 no : ! ! 11 it limlimol






















## 




i. 1.,,$p$
 1+n) |


 ser.









 b：alle．ver dis sulitary．


 cmbrye．
$\because$ 1．uspera．W＇illi sper：i． 1191 ，
 showern retrofimetel．

Berm．（＇hieliria，Apmg．


 hut in moll measire all the yeal．

3．A．пquetier．R．

 （aly－


1．1．Mumronice．$h$ ．
 cylimbice

Ithecelorini Ifonsemise．Limm，Supph． 161.

 Al．neth．13．t．337．f． 1.









 the paitr．

Willis－codivali．Mhomet．Mal x．11ヶ．1． 54.

Be：u．Kıyu－luyw．Duyn－kuya．
Is fonme in mosi pats of india，genetally growing anour hatho．Flowering lime the rainy semкit．

## 6．1．allernifulat．Itrbl Banda．




Tetimy．Chathehaii kura．
Ammal，combum un most cultivantad lande，in the liotance garlen at Calcutta ；it is a most trombleseme wert．

Dem when the phat is young，tolembly ereet，but iven atterwarts prostrate，with lom－





 Nocel single，in it rugrme ntriculns．

The hemses and tember topse are used by the natives in their curries．It uught to be carchally connmaral＂ith ． 1 ．mericata．

7．A．prostrule WFilld．spee．i． 11 S1．










## Pare Carey Eid.





$\therefore 1 . \ldots$ 世1. Kinh. Mse.



Rom : :




0.1. farmy mets. $R$

 "ntire.
$B=$. Rint r-*irituluc.












ii) 1. न, -1. $f$.
















 (क) Mat

B (1):









1. I. rer. re




## 









13 A. criamidia $R$.

Prge

Ammal creaping. Leares opposite, sessile, lanceolate, sumbtla. Filowes triandrous. Cap.sules winsial.


 4. f. $\because$. (yrowil.)

Telinger. Lomatmentama.
A Cuns. Alabimuchi.
Benef. Nhamehri, nleo shalounchta.
A native of bengat where it in a common wed during the rains season.
11. A. nerlituert. R.
 antheri in oma livivions. virghan simph.

 5. f. 2.

 in this gemms to which I hasco transtimed it.

## ('EDROS/A. Schill. geve I. 4it).



 иягікрити.

## 1. ('. argentea. Willd. sipe i. 11!)T.

 lary with tive, short tomblete, altemate with the lomg matheriti roms dis inions.

Bem!. Shwat-maorce.
Hinirl Dhbleter.







2. ('. cristala. Hilla. sper. i. Ilas.




 characteri-tic in this than in argonken and it rambeties.

3. (̌. comowe. IFilde spere i. 11!s.s.

Firect, mmmal. Leaves limeenhte. spilese eytindric, inftect.
Fomm in most purts of India in gadens, and like the lat thrives be it dume the raing and cull 世"asens.
4. $(:$. certurte $R$.



 to the Botanie gatem an ('alentat, where it trews well and eomtime in gamdy blosom, lhming the whole of the ended seisom.


 ot leaves of the hranchew and bamehtets otion present, and then faleate as in ( $:$ aryenter, der
 taken into the specitie chameter; for in sman phants the are t-hirathy constant, wherens in others of the same spectes reated from the same seet no sign of themen be thacert. Reacemes
 lang. Womblons, lowely crimsun, sterite panide into which they divile, and which give eto this











 63. f' 2.











fi. (. fulesion 1. $P$.


 lonvis.

## Titililitimi. lime qi.lr. "r. hill. i. I]?




 Berrie ilires. it il.



llin. l.011/th.
























## 


 1 I'. 1 inlin. 11 ili. t - i. 12!!



Rem. (i cmoth, lowlt lev.
Il. nd. (illemali.

 rems :1s: :111 "'luctic.









 "rest. Coblyledons rombl, eordate. Readicle shont, inferon.
3. 1'. recterva. R.





Shem and branches eroed ; yomeg shoots rouml, and smoutlı. Tepres opposite, short-pre












 linelicele intinमior.

## B. I'. erteclu. R.

















 dons pounct, renditom. Raliele inferion.

## 




1. (1. speriossm) Witht. spere it, 348.



(:alamlai jas miniflora. v. Firne. dhe Sit. Thome, Somural. 1. 2. p. 228. 1. 128.





















 with.

## 








T, 参 $\mathrm{H}_{1}$. A .

1; y. K iwn

 $11 i 1_{1}^{11}=$
























$\because$ 1. A! !l $\vee 1 . R$.


$\cdots$ htom lha.
['E! 2. II.ah! ! $m$.
















Pugo celled, with two seats, in catch. Secds, perisperm nud embryous in r'. Ciarandis.
Curey bid. S. C. :illuxer. It.
Eid.

Flomars


 time the same as the other specte, viz. during tiae warmest time of the year, Alareh, lpril,




 that of the young shoots villoms. Thorns opporite, at the forlso of the hranches, ame ian all other parts at corry secmal, staipht, stomg, sery shap, and los feepurnty componml than





 colled, with two owna in carlh, at talded to the partition. Silyle -horter than the tabe. Slig-
I.





f. ( 1 . urillaris. R.
 Corymbes petunclal, anilliary, many- Ilowered.

A nutive of the Nolncens.

## CHiRBELiA. Scheb, yen, N. 4n.


 withont per riaperan.

1. $C^{\prime}$. firmliersser. $R$.

























 superius.
2. ('. Oilollem. Gorent. Car?) ji. 1!33.1.12t.

(onemmbs tominal. divinions of the ealsis limear, and revolate.
Olablam. Rhmed. Mal. i. i1. 1. 39. bint Manghas luctescens, Eurm. Zoul. 150. 1. 70.f.
















3. ('. matreletel e. II Ildd, is pe. ii. 1223.
 nomminte.

Wohn-it. Tresing. gens. lunt. 161.



## 


 firminterl with a pri wril.






Beer. ('humtra.
11. i). (h) hus chuml.

Tomit it Int. - thai.
















 wiprere hi- with.



 (:TNए

## HCNTERLA. IT.




 hut int hat ry it itant rip rel it - * nl.











Fage
Carey tid

 relled serds two ian eall lex ly




 As ther form this phant canmot be plated in thr sanme fimily, I think it better to antinur the




 first discuverer of this ver! plant.

HEBERA. Schirel.! !en. N. 17:33.
Caly.x tive-phtid. Corol fumber-shaped. Germ infurior, two-redled; cells few; or manyseader ; allachmenl intrrior. Berry bilucular ; cedls tew, or many-sweded. Eimbryu ceitriputal, and finuished with a proinprous.

 partad, and nearly h- loug is the thle of the corol. C'apsizles fers-aceded.

C'uni. Rheed. Mal. ii. 37. 1. 2is.

A pretty latere, erect, matrmed, munous slamb, common on most parts of the Coromambel coant.

Leares (1)





 [erisperm, and contripetul moliele.

The pxtremities of the yonnfin shoots ure often fonme coverol with a white resinons mat-
 the sparcies of Gardenia kiown to me.
2. W. macrophyller. $R$.

Shmbby. Lerives boad-lanceolni. Panicle terminal. Corols with a long slender tube. Berries many -seerled.


 lar, Se. as in the Ruhimen of Jussiph. Panicles terminal, rory larce, brachate, villons. Bractes smbulate, villous. Fluarers hare, white. Caly.r divided intofive, short, uentr, villons socgments. Corol ; Lube (ovlindric, long, shater and villons: sfoments of the border five, ob)-


 Style lonrer than the tule of the conon, villons. Stigma clisuate. Berory the size of in peat, two-celled. Sipeds many in each cedl, from six to twelve, angular, dee as in W. corgmbosa, Gert. carp. 3. 1. 19:.
3. W'. scanilons. 7 .
shumber, scombent, frossy. Teares obloug, cymuz axillary. Sligma of two oval plates.

Sfom and hranches limmens, scandent; youny shools polished, as is cerey temblar part of






 ceptace on the rentre of the partitim. Noyle the Jenerth ot the tulse ot the eorol. digna of two, thin, oval lanminat.

1. W. otprasilifintio. $R$.
 posid of in few rigrd, printed, sub-recmerel spikes. Corols with it short, woolly-muthed tube. Sligalla जlvale, whire.

## 

5. W'. derata. IR.


 the fingratwo of it: Jhams ins.





 an ary as lug ilue -

 alope.

## ALJNT.1. Bewls.


 frri-pr rill.

1. 2. strllatz. R.
 temuinat, aibdرl: fer lirverl.



 ite trmit in I worl ac sml.





















 lancular. Rati, all inlinlric. int:r or.






## 




! 11. M/u: II, ill. i. Mi.










Page tha atmmens. Stigina two-lobed. Capsule obverme remiorm, totally eomprosad, (two-lobrd); (on the omtside five ribs run down tron the divisions of the cal! x, intermally divided inte two
 Reerpiacle sub-cylindric, firee, ntlixed to the pretition near its bise. Serds very mumerous, ationlar.

Ohs. From my own knowledge, I can say mothing of the virture, that have heren by varions nuthors nseriberl to the soot of this plant. Inderd I an rather inelined wouk man the whole to be a tiction.
$\because$ (). rillase. 1 .
 longr-permelerl, villoms.

A mutive of shalch, moist places amonese the hills of Chittagong; where it bos-oms ina Mlyy. and the sered ripurns in thre⿻ of fome montlis.
 petioled, oblong, cutire, veins many, large, parallel, and hary; fionn three to fome ineles Gong, and ond or two brond. Shipulas ensiform, villons. Corymbs terminal, solitary, rather

 vex siele thereot. Calyar hairy, tive-tuothed. Corot timmel-shapued. Tabe the leosth of the








## GARDENLA. Schert. gen. N. 416.









 mul lomgiflura, all of which are armod.

## SFCT. I. Fructmed.

1. (i. florila. Willd. spec. i. 122̈̈.

Glumbly, mammed. Leares wial, ante at botle ends. Berries lons, turbinate, with as


## s'大иs. (imullumajre

Beng. (imethum!
('ıt:jupivi. liumph. Amb. vii. 2(i. /. 1.1. f. 2.
d latore, very manous slumb, lionnel in girmbus abont Calconta, and originally from ( ${ }^{\circ}$ hint.
 axillary for the most part, and that in the (:aly
 sereds nestle in a tima, deep orange-colomed pulp, which is a sulstance employed for dyening in some parts of Indin.





 jereting form the liming of the rell to abont ons-finuth of its riametor, when they divide into


 Realiele atronght. printimer to, very mear to the mubiliens.
2. Li. citlyeulater. R.

 the fiverelett corol.




## 3. (i. erestates. R.































1. Ii. lutyplia. If ill l. sprec. i. I2.2ら.

 sinturil.

## H1, I'pars

## Gilemia in dre Ki ifs Mere.
























-. (i. la ut 1. $A$.


 4. 11.










TUS fron half an inely to m inel boner, supportine a imple beantiful, large, pme white, fragrant

 than twie the longth of the callix. Bomer tive-parted ; divisions ohligurly whomatooblongs, abont the lengeth ot the tnbe filaments none. Iuthers fore, very lomg. slonder and alouto,









fi. (i. arblorrat. R.


$T^{\prime}(t m$. Kinvingra marum.
Teling. (iampar
A mative of the Cirear mommtains. Its lowes are deciduons during the cold soason, and if contimmes 1 mked till the hot season is pretty fin alvanerd. Flowering time the begimangr of the hot sensou while the treer is maked of lenves.

From the buts and womads made in the bark there exudes a rery beantifing yellow resin, like that trom Gardenin gummiferce.

The size, mmmbre tracramer, mutability and bennty of the thwers of this species ren-
 than 1i. jlarista.

The matives eat the ripe furbit.
7. (t. !fummifera. Linl. Suppl. 161.

Shruble, with resinons gense Lerres oblong, obthse-pointed. Divisions of the calys ovate, aldente, and very short. T'ube of the corol as loner as the divisions of its horder.

Native of (onemmalel.
In it specimen in the Banksian herbarium, the divisions of the cealyx are long, slenter, and acute.

内. (i. letresppermat. ${ }_{0}^{\text {en }} R$.
sibrubby. Sectess obovate-emente, smooth. Flowers axillary, solitary, short-peduucted, pentandrons. Calyoime seymenls snbulate. Bervy ronme, four-scorled.

Fonnd by Colonel Hardwicke on the mountains near shrenugur. See - siatic Re searches, vi. $3 \overline{\mathrm{j}}$ t.

## SECT. II. Amed.

## の. (1. monlana. $R$.

Arborenns. Lserves oblong-ventricose, downy mudermeath, temman, short-pedmuelerl. Stromens within the lelly of the tube. Berry drupsccons, sul)-rotund; shell. from five to six-ralret.

Telingra. Telln kakinlan.
A small, ramous tree ; armed with strong, slome, achte thonns; sumtive of the cirear monntains. Joares deciduens in becember. It flowers about the begrinning of the hot season, vi\%, in Minelt ame April, sornt ufter whirh the lowes appeat: Berk white, soft athl spongry

Thuris nbove the axills, opposite, sprending, short, lunt shap); sometime they ure wantohtnse, entire, with the mingims revolnte, alowe shanine nut sumeth, a little downy mulaneath, thre inchas long, by two bonal. Stipnles anmala, within the lemves, mombanmas. Flomets thres, fonr, tive, on six, tion little buds abomt the estremities of the naked branch-

 Corol: tutre short, sommwhat riblums; throat sumoth. Boraler firm five to sevem-eleft;




 phly parietal reroputaches for the sexts.
11). (i. cempamelato. $R$.

Shambby, ammed. Leczese lateontar, smonth. Flaners in terminal and lateral fasciches.

 in N(wrombre.

Trank straight, but shont, sonn dividines amd smblividiner into mumeroms, stifl, erect. and spreatimer hranches. Burk of the whl pats brownish grecu, amd prety sumoth; that













 the sect, palt. Fintrgo stminht. Culyladuns mumd. Liaticle cylinhric. pxintine to the mulitiems.
 of rtilims in silk.

## 11. (i, turginte. $R$.






 a single truit.














## 





1. $1 \cdot .1$ ginतos $h$.



firta. Penrat).
Tin. Wazath.

## Tilille. Allokahisho.



 rippoll in then (exp) antarm.
















2. L'. amotu um. Widel. i. 1:20.

Page
 the berginniner of the wet seitsim.
1)r. K̈̈ntry's dusription of this shrub, published in the supplementum Plantarum of the yommer Linntans is arool athel fitl.
 cle int cald ceell, which is vertically attuched to the midelle of the partition. IBrory ronnd, smosth, when ripe rellow, mod much like a small remb apple both in siza: and appedtonce.
 atheled ats in the perm, and nestime in in quantity of witatinons pulp. Perisperm exutions



It is moployed for fomen, and linemond. The flowers like all the rest of this grame are highly fagrant, lut in this pecele fow in number.
'Tho firnit whem ripe, looks like is small rallow upple; if lumised mal thowa into ponds where there are tish, they aro sonn intoviated, and sem thating. If this is done during the hot season, it is said, the fish grenerally die, but it charing the: wet or cold andann they rerover.

Fishermen sometines follow this monde to chable them to tak the fish with more ease.
 grow in those parts, nor is it known or hasel there tor this purpose.
3. I'. vutrins. R.
shoubhy, inmed. bramelats dronping. Tapares marrow-obovaterohlong. Flowers solitary. Bervies romud, crowned with the antire enlyx.

Cirisens muloburiens. (iome sem. i. 1.28 , is with respect to shape and size a very

 sorowing in exactly the sumte spot, and with the sume managemest. lathe Butanic:

 ace hats \&rown to be a stont, rigicl, small tree, with atrunk two inches mud a lati in ciremmbirence, at four feet nlave the eromand.




 solitary tron the ohd axills mula the spines, with or withont leares, short-pedmeled, mid-



 the bud. Fiblements, someoly muy. Anthers filifom, withont the tabe. Germ turbinate, two-edled, with many ownla in colch, attisched to two peltate rerepptacles moising fiom the

 noaly ronnd, somewhat rmase, pulpy, crowned with the entire calys, two-celled. Serds unmerons, sumh, oval, flattomed. Perisperm and embiyo as in the other species.

1. P. longispines. $R$.

Arborents, armed, spines opposite, and alteruate, lorizontal. Leares obownte-enneate, smooth. Floueros solitary, terminal, amd axillary. Calys smooth, bomber permament. Fruit oboviate, sumotli.

A nittive of the coast of Corommmel. Flowering time the hot and rainy season.
Trunk stracht. Branches mumerons, the smaller long, slender, spresuline, and droopinge a halbit which immediatoly distinguishes this sperios from honicrs dumplorum; its brimeles being whort and rigidly erect. Nopes opposite or nlternate, dequsante. lorizontal,


 jules (examine the very yonmeshoots to find them) within the leaves, submbate, juinted.




 rlle. Border of five, obinguely ovite, sprading livininns. Filaments mome. Anthers tive,
 thickened at the middle. Stigmer erect, twe-lohed. Berry obivate (in I. dumeturum




 Mir permann at.



(imdluis frotroses. hom. Mss.
ITlimpa. Vodall:.










 calo ared.




## (i. $P$. fievememethe. $R$



 in $U$ retitat 1, 1ril.











## 

















4. I' morilene her. R.

 frovel is. indi-howl.

 nlter the rails,















 di．as it the whem Mroox．

## 

Corol fumel－shaped．Follicles two，emect．Seeds naked．Enthryo inverse，and furmished ＂ith a murisperm．

1．V．roseq，Willd．i，12：33．
p＇ereminial，ratet，ratmons．Flomers in pairs，stasile．Leares ovate－obloner，hase of the petiole two－tonthed．
llimed．（ixal firring．
 grent part of the vear．I has ne never fomm it in it－mative state：

2．V．pareifiora，Irilld．i．12：31．Retz．Os．ii．\＆． 33.
Anmal．Leomes hancelate；flowers in pmirs．Mouth of the tnbe contracted，and slat with lairs．
（＇upa－vecla，Rhred．Mal．ix．／． 33.
Vink：pmkilka．Liant，suppl．Hiti．
 durine the wer seasom．


 ＂hite，shart pedmeled．－iorol，month of the tula cemtracted，and shat with hair．．Seotarial corpuseles as in tho fimily．

## ARERUM．Schroh．yen．N．420．





1．N．odlıum． $1 /$ illd．i． 1235.
Leaves linatr－lanceolate，tern．Segnents of the emly crect．Nectaries many－cheft，divi－ sions thitionm．

 Pudma kuruber（the dmble varives）．
 Padum－kinpud（the domble variet t．．）

Belntti－1ticli．Rheerl．Mal．ix．t．2．
＇Tojwamatareli．Rheed．Mal．is．t． 1.
Coummo in crardens in every part of India，and in finwer the whole year．







 reguiticel．
siem（in plants six or sevell years old）short，hat straight，and to the bate deraratad

 petioled，hifarious，ovate－oblongs，entire，lomer，taperpmintet，smooth om both eides，dark


 Bratces opposite，lancolate，whed．Coly．r diviled to the hase into five，Hemply equal，sub）－


 rounded，sonewhat cemble margins mul firmly mited the the base of the sorgments of the corol．Fitaments very shent and thisk，inserted an the month of the tube of the corul， within the nectary．Inthers sugittate，united，and forming a conie dome over the stimma，









3. $\times$. finturit $A, ~ R$.
 very line, matmo at the :10x.














 thot i lia fith rins गयitil allou-ot liul un





































 a! an 18 it lam?



 IIH:L,
$1 \therefore 88+n+u l+4 m, f$



Nollmb-balas, Rheerl. Mal. ix. 1.3 mul t.
Trientra. Lentafiedrew.











Ohs. With the yellow juice which llows fixon the womared plant, diluterl with watore,

 Inlegumenls perisperm and embryo, as in the - Lperinece.
5. N. piscidium. IR.

Lecoces oblong entire, hack. Penicles terminal hrachiste shorter than the laves. Flowers


Lelambat or lichalat the vernacolar about siblact.
 amel dme seed ripe in dammay. It hark, comatans a ynantity of timems matt.or, which the
















 wher than tha intorig internment of the secel. Fimbryo inverace culyleduns rumbl-condate, st roncrly marked with veins. Radele eslindric, sulurior.
f. N. reliculalum, $R$.
 shatred.

Kalli-1:al-valli. R7eed. Mal. !1. 1. 11.
Apreyinumireliculalum, J3. H.
Trling. Idivi palat-tiga.
Mind. Ǩarunta.
A large twinintr shmb, a native of hempers, thickets. \&e. F'lowering time the rainy M(atsish, aboumbls with milky juicer.




 makes, inserted on, or rather in the month of the mbe. Shemens within the tube below the
 abont three inches loner.
7. N. chinrmsis, Jlunter.



 in July.

1 can tind no nectarial crown on the thbe of the corol, hence 1 subpect it to be ant Fichites.
8. N. reculceluin, $R$.
 cmeling in longe fllilimen puints.
 culourel with scalnules specks.










3. N. astualifturim. $B$.

Ghrubity, twining. Eerses whong, peoli-hed. Flomers terminal. Sectaries hitid. Follicke thice-sibed lorizant:al.

















 rather whtuse brak.

## l:CIITES.







 tery tulnula. tin-twhlal. Segm nts in the rorul, |riansular.













 unts.
5. Fi. fiulcacens. R.

 eli+ limatr.

1. thrihul.acitultis. Burm. zpul. =3. t. 12. f. 1.
M.17u. - - violf. Res. is, 2til.

Tiling. Xillh-t:








15.- E. maryontry'la, $R_{1}$

Shrubly, twining. L. 13:luttia-kakn-knti. Riheot. Mal. ix. 1.5 and 6.

















7. $1 \because$ : Imiculifur $z, I R$.



A native of the lilly parts of Chillagong mad Silhel, where it hlossoms durine the dry


 rombled, "ith a short pint ; roid uf phbesconer, hard ; fom six to cight iurlues hong lyy fiom











 rabely seen so large peints th this apex ot the folliches. Pe,isperm thin, light grey. Embryo

8. E. acuminula, $R$.

 folliches filifom, abont cight inelom lomes.

Pingorese or bengere the vemandar bane ins sillet, where the plant is fomed in the
 ripen in alont nilue montha.

Fonag shools rather romgh with little, lighter coloned, wated sperks. Lemes op-


 thwnchont, emoth. Fomers many, lenge, white, and fi:agrant. Brates appsita, lomg,



 ed to the tube a little below the midelle. fithers saritate, "ompletely within the month
 ovoln, attacherl to a gromed vertical receptarle on the inside. Style half the leligth of the

 Secds many, crowned with an anple coma, which points to the ipex of the folliche. Perispern scarcely :nly. Pinbryo inverse.
a. 1:. margimatia, $R$.

Shrubhe, scandent. Lerves laneolate; an anastomosing wein nenr the mabgin. Pamicles terminal, corymbere.


 mosing aut forming a waved line within the margin: fom two th six inche lomer f'a.









 numth．

## Kive liwtat－inals．




Jinere shuets hairs．









 of the ththers．

5．ㄷ．．jamm l drı，K．




 4 4 \％time












 Afstlpider．
（1．Fir hion $t, R$ ．






 s．












13．Fi．der host mba．$R$ ．

 and is 1：




Page


 insortions of the leaves. Ruermes axillary, or a little above, solitary. gemerally two-cheft, er




 month of the tube of the "orel, very thick, with a lare remml parl coloured projaction hehime the insertion of the arrew-shaped rathers, whech are wonlly on the fore sides Germse iwn
 projection in the fisime which forme the barl) of thw imithers, follioles whomge harge, intiner thent six inches long, and alowe two in diance at the thekest pary, and what is most extra-












 bricatad berder ; dirivious obovate. Siamens in the bottom of the thbe. Fifaments shert.
 only met with then oner, sin rarely does this tree ripen its sed.

## TADERNKMONTANA.

Conforted. Corol fumel-shaped. Follioles two reanved. Şeels siveral. immersed in a puly aril, and alternately attached to the two margins of the fisllicles.

1. 'I'. dichotoma. R.
 Rucrines simple or compumat, single, or in pairs from the finks.

 year, but chicfly thring the mins.

Truate sturit.
Branches mumerons; spea ling muell in every diretion, dichotomons, the old ones with
 petioled, ohborg, and linear-oblonge, cutire, rathere obtu*e, ot' a firm texture, and pulisbed ut both sites; veins parallel, liverefig from the rib; longth from finu to cioht ind hes and from




















 (íritati)





※. 1 +





 flown-1.



 frut













 ( ) thir otuali nil.

 -it it. T iray a fis

 finr -14 .

1. I-alle lifor. II IhI, I. I2 tti .

















 sions dichotmonts. fathers inclos 1.

A native of tha. Xholuce:
T. pre rifturn. Is.












 muther.

## 7. rectura. R.













 an enturged sthtinctic what.

 mons. Follieftes matuy-seeded.
 rather small, pate yerlow.

## PESTANDRTA DHENTA.

## 





Nota-nipuler-valli. Pheer. V/el. 9. I. Iti,





 durine the hom semam.


















## 1．い1．1．11．1























## 

1．I rigनnien 11 ． $2,1.1$.
 sim！it
$\therefore, 1$ mu， 1 ，$+7,11 \cdots 1$

ト．＋1，／1． $21,1+, \ldots, 1,11$














 （1）リー。









2 －＊an mitif






3．1．a． 8 ．$\%$

## Pago <br> Curey <br> Eid.

La-ulean. Publeflets firminiad simple.





A mative of laflere, fire-te, de. lant hy ne meane commen.







 vill then.

This phant vichss a latern protion of wery pure milky inion than any other 1 knesu ; and what is rate, it is of a mikl mathe, amed acid tiste. The native tasellers oftern mek the tellwer sherts to mlay theiv thimst.
4. A. rimeemexa. R.

Twininer to a bast extant. Leaves roumd, comate. Genitalia ablate. Follicles linar oblonir, olttloce.

A mative of varions partio of India. Flowering time, in Jemaral, the manth of May:















 Segturn/s crlif(n)m.

Bray. (intc-urol),
Ti linty. Kinkin pirtlai.



















 thally.






 at the salue time.

## Notrely fli: $7^{\prime}$. livall 11.




## b．1． 1 II：r，t．$R$ ．

 Ser $8,0.1$ ．

## 

li 1 cit－1 1ti．












7．1．microphatl I，R．
 suly with lrunclt．

7 7 I．12 al＇ 6






\＆． 1 It in $\quad$ it 1－1．



Fil f．1）． 1 1a！：








$\because 1$ ，R．


＊．－
 madells．








 ml，



1．1 1月明 12



リッ！1！！！！


V．Us＂1 11 1．＇．，






 five lohes. with a pentarenal crown
11. A. sulameraver. R.

Brake ot the womly piate sulnerose. Lereres pretioled, condate, downy. Limbels simple.


C'yanulhium rioliculatum. U'illel. 1. 1aixi.









 stichlut.
12. 1. prseulesarsa, It.
 axillary, senile imhnitate F-ulliches limat:





 der tiu the brand leaved.





























 cure of ernerati complaint:
13. A. iovect, $R$.
 Follirles inllaturl.



Tr-ling. Incoler-palla.










11. 1. 1 inassi- 1. R.
 cone.

1 mation of 13 mat.






 wate, , mhlmaz. wht..
15. 1 लाभनयांब. $R$.























 the 1 m .



 1 . 1 th im रima?

















Piker
Curey
Eid.




 rexivel platht.

Amme mote experiment 1 hase made with the lemve. combiom what is athere redated, mot

 celconve coltivation there $f$ :
17. 1. achiuala. li



Pergularin. Lamurcle's illusl. 1. 176.

I'rlin!. . Intugat.










> 1s. 1. gromincila. R



## 












 ghobular.



 on the inside alde five pair we devathe hairy rideres; dicisions of the border linar. Fiedery, sfomens, and stigmm, :1-in . . grminater.
20. A. In misivizace. $R$.






 vated high ahowe the neetary. only its base where the anthers are attached, is enveloperd by the :prex of the mectary.
21. 1. inlarolissima. R

 mer sinl - fulular:



M/at. Tonki, of Tomkin.


'Jlo Thelingas have mee mare for it.

 where it contimes to be carofuly cultivated; hence its batelish mame, the West side of that

##  

























$\because 2$. 1. pllalle. $R$.

 IItciath.













 is 1, .


z?. 1. Be tilir. K













 utial amdr.









21 i. menothith i .


Page
 A hurge, pereninial, twining, delioate plant, s uative of Mindoustan, from the vivinty of
 soms during thr raths.
2.5. A kerbarea. R.
 tube, which enclose the erenitalia.
 It is a native ot the interior parts of Bancal, and was introduced intu this crarden by br. Willian C'arey.



 un inwh long, chanmelled, smonth. Crmbels between the leawes, compumnd, pednucled. Pedunctes short. ronnd, smonth. Pedicels twier ns loner ns the predumbes, one-flowererd. Braches subulan:


 (ontorted.) Necherinmas in Asclepias gigantea, hut shorter. Indeed the whole plant connes
 same, thourh very dilliorent, partienlaty in haviner petinled heaves, and a erlobular tube the


Like Isclepias gigantea, and most uther glants at the sime arier, evory part is replete with murh acrid, milky juice.
26. A. lenacissima. $R$.

Lecters long-petiold. exactly-cordate, the-pointed, villous. Panieles drooping. Genilalin obovate. Follicles ovate-oblong, obtnee, domentare.

This plant is a untive of the mountains nesir le: jemahl, und the fibres of its bark are employed by the inlabituats to make the buw strincs.


 theip serel alount ben month- ntterwards.

 a inilk juice, which thickens into mu clastic substance, very like (a) ulchouc amd rubs ont

 ed, exarty cordate, acute-pointed, entire, very soft, with much fine down on buth sides; gre

 drooping branches, of numc:ons, small umbellets, of beantitul ermind yellow howers. Bractes minnte, two or three moler the insertion of the fascicles of flowers whill compose the unhellets. Calyx dopply five-elett; divisions rather umpe than half the kougth of the tube of the eorol, and downy on the ontside. Corol salver-shaped. Dirisions of the border obliquely ovnl, with apices ronuded, grecnish toward the centre, with the exterior half yollow. Column of fructification short-clavate, about ns long as the thbe of the corol, with the white upes of the common stigma meed. Follicles orate-lanceolate, obtuse, bearly ronnel, with it gromve on the inside, clothed with much soft, velvet-like green down; nbont six intehes lomer, and firon four to five in circumference where thickest. Seeds numerous, obornte, thin, with a broad nembrannccous margin, mad long soft silky pa!pms.

The bark of the fonmg loxuriant ahoots yiehls a large pertion of beantifin fine silky fibme, Witli which the mountaneers ot Knjemulnh make their bow strings, on aceount of their grant strength, aud durability.

During the rains, they eat the shonts into lengths at the insertion of the leaves, peed an the bark, and with their mils, or a hit of stick on a bomrd, romove the pulpy part. A person aceustomed to this work, will, I am told, "lean ac much ns six poundi ot the tibres in one day.

These fibres, and those of the bark of the Minlny phat Ballang-callooce, or prootas (Crlica lenacissima. 7.) are by fin the strongest fibres whirl 1 have unct, with in the vere-
 of common hemp, for astandmed, broke with 158 poundo when dry, and 190 when wet; the a forme of several trinls. A similar lime of this substance broke with 2.18 when dry, uncl 343 when wet, while one of Batteng-callooee broke with 210 when dry, and 278 when wet.
27. A. tingens. Buch.

Leares corlate, Racemes spiral, sub-axillary. Fraclifeations cochleuri-cylindric. Sligma oval, erowning the thbe of the corol.

A lurec, twining, shoubly plant, brongle from Pegue to the Botanic Corden at Calcutta, by Dr. Burdanan. Fowering time the miny seasm; seedripe the May following.

Shem twining, woorly, with numerons, twining, sulouth homuches, extundiner fur over whatever supportars they mect with. Berk pretty smooth, when youns brownish ; when oht, ash-colonred. Leares upposite, petioled, cordate, rutire, point rl, smonth on buth sidew, from three to six inches long, and from two to four boad. Pelioles abont an inch long, chamulled,










 where thichict.






$\because 2$. 1. puld $1 t$ t. $R$.



 plant, if the fasciethe of thew were lour-pertunched.



Strans atul branches twiniug; yumir slunts protiectly sumoth aud deep greon. Leaves
 from thice tw sis brusl. Recemes vers long-paltheled, mintinues prolifirms; hy age the



 in thair rether tups, whe the pits whore the suthers arr lox gad. Germe two. Siyle short; com. monstagma tive-angled; tul the prints of the angles the five-avate, harcl, polished, chesmut-




 the: cor./ with five inemered clames.






## 



 a puri-puril: ralade mutriputal.

1 M. mone eqgitio. R.


salal kin to the vernacelar name in sillnt, where it is foum indic.onen in the forpocte,

 ell $i$ areet nom harexhly to the tiate.














Paga
Carey
Edid
II. 31





## 




II. A alis. If.






















 r"!!!!


 reckined grand.

## 





 ell. leaify.


2. ('. rivicle If illu. 1. 1:30:3.

 "onttracted, lantlos. Viry mitute:




3. $C$ llü\|inteim. $R$.
 termintal, creet. contracted.

 the matrix.
13. hentulemsis. R.



Beang. P'alaug.












## 



1. s. ne!. , $117 / 1.1$. 1:31:3.


foi, K. $\mathrm{F}+\mathrm{t} 1$.






































 havilu.

## 

 It 11 以









 an :nl ut cols. $x$.



 thonatad lives damine the late fanine of 1701,2, atul 3 : for while the plant lantert, most of


## 

 Pectar!! erlindric. five-tonthed. style halt two-clett. Cap)sules whe-nemed.

1. (r. glubera. Willd. 1. 13: 1.

Ammal, at first erect, ly age dithise. Leares ovate-lanceolate. Heads solitary. Pechun. rles two-lativerl.

Saus. Amhuna.
 flowered.

Flow globosis. Rumph. amb, 5. 1. 10 f. 2.
Wimlapu. Rheert. mal. 10. 1. 37.
In (inderns uver India where it blossoms duriug the rainy and eold season, native plate meretain.

## CFIATSS. Scherb. gen. n. 1591.

 colled, unc-seded, attachment anperion. Drupe one-seded. Embryo transversely inverne, with scanty peri-prom.

Mati. Caly.e tivosix-partel. Cural none, Female, Calyx five-six-parthd. Drupo and embryo as in the hermaphrodite.
( 1. lelrandra. 12.
Loares oblipuely ovate, lauccolate, wrmate, cuspidate, smooth. Flowers axillary, triple, tetrandrons.

A native of Neplal, from whence the sureds were sent by 1)r. Buchanan to this (tarden in 1802 ; in Harch 1809 the trees began to blowsom, and ripenal their seed in September; thoy were then fithen or twenty fiee high, with stout, short, rather cruoked tronks, and smonth ash-coloured bark. Branches spreadine murh, the ending in long, drooping, or horizontal twigs. Young shools lifarionc, and slightly villons. Leaves ulternate, bifarions, short-petiol-

 colored, longth about three inches, by one and a quater brod. Nipmes linear-hmeentate, aducms. Pednuches axillary, tem, longer than the petioles, me-flowered, gencrally one hermiphrodite, and two mule.

 theleel to the tep of the cell. Shigles two, rermente, thick. Drupe tomat, size of a pea, smooth, olive colonr. Joul ohovatr, upes obtuse; labe, atente, ribled, whe-celled. Seed soli-
 haterament, mbering into the plats ot the entyledons. Vimbsye, flae size of the seed. Cot!-



Wiole. C. orecidmatis has flowered in thi (iarlen, but the filaments are short, and not endened with that remarkable elasticity of the lrtien, in in om Nepal -pee ies.

2 (1. arientalis. Willd. t. man).

Jitpyns suruia. Kicmph. amom. 17 i. 1. 172.
Bern!, Clhieon.
It is common owe most parts of India. particularly in Bengenl, where it grows to be a small, ereet tree, covered with smooth, dark-colomed bark. It is in blossom the greater part (1t the re:t.
 abowe a little seabrons, villons and whitish underneath. flowers axillary, collected on short, common, two-cleft. diverume pedmules.
 lomger than the "alyx. J'ishil an oval, abortive body, in the erentre of the stamerns,

Female flower's gemembly om a sepmate tree, though somatimes androyynous, Caly.r as in the male. Cierm owal. Stilles two, hatiry. Dinpe small, sneevtent, when ripe black. Iul rugose, with ene well, athd whe seted.

This the is mother nefinl, nor ormamental, nor is it of long dumtion.
3. C. trinervir.

Arboreons, Leraves obliquely ovate-cordate, acmuinate, serrulate, thee-norred, smoth. Flowers pentamdrons.

A midelling sized? tron, a mutive of Chittagrong, where it blosoms: in Fobrung and Mareh, about the time the yoms fillige appars, and that of the former yar begine to fill.
 lighter colomed specks. Lectes altermate, short-petioled, wiliquly ovate-cordate, remetrly
 two as: In haslf: *tipues thifition.



 pather lar-er than the male. Caly.r und atamina is in the male. Germ superior, owateonl.


4. ( $($. fomenturit. $R$.
 downy umernenth. Thersese nxilhary short, nul dense.

Nitive of Clittargang where it How ers in April.

## THTJT'S. Schicb. yt n. 11. 443.




1. $\mathrm{I}^{\circ}$. Iancifolia. K .
 lumal. Flomers pedicelled, hexamirons. ('apswies nitey ially whemetute; pediedted.

A larye cimber tree a whe of the hilly part of the porine of chitharomp, where it











 browil. Pr rivperm nomit findero erntion the the seel, inverse.
$\therefore$ I. rirgatz. $R$.







 srabions. Hright of the whole tree ubout ten fien. lienes alternatw, bifarinus, shont petioled,







 lifind upx of the serm. C'apsuler unp rior, thin, oblif gely wat, wad at seite in the cal! x, with



Tam. Tambachi-mar"um.
Teling. Nimber.





 dite, and male mixid, and springing from litte permm wer the hafless branchetso

## Hermaphroplte.



 ncute, wislly. Crpale pelicelled, orbicular, leafy, connpressed, comrrinate, one-celled, onevalimel, wot openimg. Seal hothe. 101 rindimant of "me:

 small, and mukes lenkial tim, is seldum whepred.

The woul of this tree in rechomed of a good quatity hy the matives, nul is complayed tin. a varicty of uses.

## Moldreriti. IR.

 of ":

11. If leminvides. $R$.









 shorter than then ; mathers wordiate.




 :






 petalled corol, male on whe tree and hermaphostite on another ; completely dierons, mo eorol, polyantrons.


itudinally aldenmed the thate of the marerins of the valvelets.

1. (i. rerlicillula. Lian. supll. 171.

 filamems.

Titing. Nellat-rillic.








2. (i. chereynt 1. R. Fleming in A siml. 11. p, 167.
 teminal. Cosal potate. lum eleft. totrandrons. Coppsules wate, hifmeate.

Srans. Chimata-tilita, ('hinataka, de.

## Pridg. ('hirata.

Caigimes aromertious of the Ancients.



















 Bureh is dillimelt to be whiainerl.

## 






 mer tha w : - $1 \mathrm{n}-11$.







## 




 2.16.
ither Lan mali.


## 

 thr mill $-\ldots, 0$.







## 




1 1. torl tos. K.

 rain in $\quad$ ! : m i-r.

















## 2. F' dimilutum. $R$.





















 (h)loller. sit |r Miols.
$\therefore$ 1. firtirnax. R.
 r.Dtire, -ntwoth. I'anicles tirminal.

















1. 1'. /imelieqsicin. |1 illd. 1. 11:7.




 originally, and breth completrly hermapheronlite.










 short. two or throse ace leat-onloured. 'The julp itains palper' of atark violet coskur. sicils one in cardilube of the berver

It is madily propmgatod from cutrings and suckro's.
5. I'. runchifislimm. 7 .
*irmbles. Lenres simple, mind-enrdate, acutaly sermate, coneave.





 ed leaves.

## sThuliMl：lil 1．1 17 Mis b． 119




1 －．H1，lice．Hinlot．I．！t．，．
 fitir





 lいこ









$\because \because, ~$ ，livat．$A$ ．

 fit，it it on I，If h in me h


















## 1／111．11．11．1．1．Ii．




1． 11 ， R ．










 $A$ ，＇ras li，inanti，？l．












Pare
2. H. recemuset. $R$.
feraves, nltermate. linesm-ohlong. Fourers mamed.

















 tringed. Redicle short, tomeate lateral, directly wilhin the malsilicos.







Benq. Whol:1, Shoolatrasi, or Mela-tuki.
I:ur. Narkiner Xit.
Teling. Nolla-jecher.
Anta:ardinn of the Itaturian Tledic:a.





 (rurate a dearribere:15 the Wector was.

























 be wh are rately $1:$ the

















 v．．rith－中 th．


$\because 2+\ldots=12$






 tam，，iv，















3 ．．$=0.1$ ．i





## （1）PIJI．I．l．



$\because \quad . \quad 1 \quad i, \quad,!21,1,4$
it ！！！ 11


 1，1，！ $\therefore$ H 1 in
世，F



## İ 1 Nit．


1．13．／inforite．$R$ ．
 plarolite जllos．








 as above．l＇oslit，wot the leant Pulliment of onte．

## 




1．11．axiglied．II Filld．1．Insiz．

 leusisel．

Comlitrent．Rheil，met．10，1．I6．
Hind．＇1＂lud lintu．
It is common in moist ahan？plane oner ludin，and appears with most lus mriance during

¿．J．rulustifolic．IS．


II．

 catta duriug the rains．

## 


1．V．coldeulendivides．R．


 colil s（\％isi）h．



 the aprex．liecephoctes two，aflixal hy the ：

2．1．riseosect．$R$ ．
 fohl，very shat，anc town el．







I＇his is， 1 hink Kónix＇s（yy illa riscusa．

## 

Comollels sub－radintell，all hermbuhmalite．Finil hispid with hairs．
1）．（imonler．Wت̈llel．1．13s：！．
Sereds hicpid．I＇mioles nerved umdermeath．



Aral）．I At uflarell me（iazir．
It is salid to loe a mative of l＇ersial．In ludia it is maly limmel in a collivatcol state．

F. - ivisurlit, Holist. 1. 111:3.
1.emalternately simat, mbthe:

13 !! Hir
Perve nul limh |"upulan.
 RII! fart of Intia, or to the eat of that commer!

## 



























 in lollin
$=1 / \mu \quad R$














The wed is msed as a menticime tor atth.

## 




-1, Jemet, dratikt.



## 



I. (A) , (/, le) $R$.





Page the hemming of the het semethe








 ambleanes is sumenhat aromatio, but mot palatalhle.


( ${ }^{\circ}$. salımin. Il illal. 1. 111s,
Siens. Whay uka.
Bray, Mhri!it.
A. お:aga.

Coultisated wre ladia durines the cold matan.

 ovite. At riaterl.
$\therefore$ Sheig de owis. $R$.
 several. -ublate leatht




 nearly grobular, crowned.

## 

Tmbelliferm- with no involnere nor inwolncel. Corollets equal, all fertile, with mire involute petals. Fruil sommhat ovate, striated.

1. 1 Patuori. $R$.

Ammal, meat. ramous. Senves smpat-lecompomat. Tombel of ten or twelve mumpally


Beng. P'mmulinter:
Sers. Mmino rika.


 clase of the mins, about the mal of ()eteher. Harvest in Mareh, when the phate perivh.








 Fínimulum and with the same taste.





 of only fone or tive montho daration with the haver at all times scattered, fower and more remote.



2.1 . Sorra. $R$.
 Seeds that, with a membramous margin and thece ribo on the back.

## 

$l$ l $\quad=11.1$ नhinlermpe. - witl









 1. 3.



A l. l ifulitha. $R$.
 1 t [-1llild! ?
.1 PIITM Seli, 19, 1.19.
 ritivi. Sul ilith wal.
 l. It,
















## 

## 


 1. $R$ ع....tr, 11 i/N. 1. 114

















$\therefore 1: I f, h i, l$



11, h



Ed.













3. R. parcifloun. $R$.



A small hatiy tron, antive of Nopal from thence intronderd into the Botanic ciarden at (:alcutta where it blosmoms during the rain!s se:t-m.

## 









## 


 sprivit.

 ertumel.


<inun.. Jlatvolki.











 or sigmas recomed, fist here.

Whan it mets with a crood soil, it has a very degrant appanamee particularly when in flower.
2. T. बivecter. $R$.
 mentandrons. Fimate with tive ahortion stamelis.

Beny. lal . Hom,
Diopulit. Avial. Res. 1. po Defs.


 amed is hiochly mombental.

 peimet, she



 Filuments fise, tomar thath the petuls. Antheis purple, two-lubed, with a projecting glamal

##  








## 




 a rituled tilame 1 ：




¿ l＇f，f，im a $l^{\prime}$ ．


lie．．．11，－ 11 － 1 ．
 $11:!1+1110 \cdot|+11(1)|$

















 law b \＆ 11 i w W11 I ．

## 

 sadis

If $1^{2}+11$ ill？1．1；11．

 H1－1！wl．！wili












$11 \quad 1: 2-\quad 1=11$ ，


zै i 1，在




31 Prelala, or lanere Itat-all, of the Thelingras.


13-adiar. Plactl. Mral. 7. 1. 21.




 whilumes.

 valitulto.

## 

 alla, two-sc dirl.

1. E. ulsimuithes. HFilld. 1. 1517.
 thowern : fruit drompint.
2. I:. limell". II illd. 1. 1517.

 plant.








 in C'uncoluter.
3. 15. puilusurs. $R$.


 of thr yenl.












## PKNTANDRLA PHALA(ONCL.

## 


 finminarl with i perionerm.

1. 2. बligitatia. R.
 tominal.

Vin.1:1. Rhered. Alnel. 7. 1. 2x.
Hmd. 1):ilu.









 t











 " $1 / 6$.
$\underline{2} 1$,, m muticit. $n$










 Hithe 1,1 \& 11 ,








 $11 \ldots-4$ गle.

## 






$\therefore 16.1$ a.
11.1 .1
I) \& Hи-lin


$\geq 1.1 / \cdot+1 \mathrm{l}$.
 horivit:

1/ is ii+1 11. i.




















 sute. I hus therefine culled it finnum trigynum.

## . WEGELATTAS. Bromen.


 apex of the ovila.
A. rotumlifulir. $R$.
hermes altermate, orbienlar : petioles loner, hemthiner and winred.
 water areks which intersect the lower part of the deltal of the (ianges. Flowerne time becember.













 lonfitminally atlived to the inside of the valsion of the pericimp.

1. Mertivilleter. $R$.

Twining. Ceaters rexivelted, weder-shaphed.
Ren!. Mabacta-itangere.






113

 corve, de: an in the genus acept that here the sede are mumerous.

Culy. tive-eleft. Corol fire-petaited. Capsule superior, one-celled opening into five values at the (o). Sieds muncrons.
1). Butmenni. W"ill. 1. ist.



Native ot' (comanalel. Ceylem, de.
1). indic世, II ills. 1. Iisti.


Amalkit pulat. Rheed. Ihat, IU, 1. 20).
A native of Commandel, de. Flowering time the cold semon.

## CLASS VI.

HEXANDRLA MONOGYNTA.

## 

Caly, a rommon spathe. Corol six-petalled. Cirme thereewthed. Orulammerons ;
 Limbryo eeutripetal, and furnished with a perisperm.

## 









































 retint.


##  *up rime lay y- ! 1 . <br> 1. If ullen II-1/ 2. 7




## lif 1 . Tum .








## 

 Carey


2. 13. iriflurow. If.











## 





1. 'T. risilluris. H'illd. 2. 20).
 be:mand :mblulnd.














 swelled like the tilwurns.
('sithe are wery tomet ot this plant.

 eresterl. Corol int petalled. F̈̈lements he:arded and clubbed.

A native of movit vallies.








3. 'T. perniculata. R.

Ammal, partly erect. Leerves lancontate. Panioles termimbl. Corols there-petalled. filcments makid.

Tı lin!. Kiund:a amadikenda.

I matior of monst vallies.






1. T. inhlyicatu. (arom. p1. 2. 1. IOs.



## Vectla matu. Rhered. Marl. 7. 1. 5s.






 base of the last leaf, which may he called a common spathe, secmul, inh ricated with fwo pair






There is : wamety wit : dhath bime flowere.




 danly, mernmal.
' 'rimsal. Rhorn? Itat. 11. f. 11.



 rails.














11. Whe it state at.




















## 3. I. Nostonir 3. $R$.


 1.. ray ulis.














Page
Catey


 llial C'methere.

$12.4 \quad \therefore$ P. s.millat \% R 1 .







 crelutert.









 burder of the comble incorsw).








 pressul, chlo-flaw, rat.



3. 1. biftom, M, la.



 raily situstı.








 Stigime thisere-whatl.
8. P. trifthr:m. $R$.



73+ng. Sinda-kancur.



 the bellavine remerts.









1．$C \cdot a_{m}$ ，I．R．

















 luarti．．1，or 1．1． 1.11.



II．
 －！－． 1
lin－ $5+$.
$I:=1, \ldots+1,1,11, \ldots$







 थ品

 aो 11 i i ，














3． $1 . \operatorname{in}$ ！$l$ ．




 1，1，1：！，il 11 wer，1！！r．
i．1．1，4e i，i． $1:$




 4）

## prgo





 cumbent. (firm, style, and stigme ats in the vether merectes.
5. (C. Ionijjolimm. $R$.


 grass, nud on low inamated ground, by Br. ('arey, and hy himintroneme inte the betanic
 nemest $(\circ$ asiatienm, hut ditlixs muth in appearaner, and in the size and -hape of the hath.
 crown of that spewios, which penctrater deep inte the mud on the borders of creeks, wheres that plant is matmatly tomad.

















(8. ( 1 : lorifulient. $R$.
 Combers winh whom twinty pedimethel rerular thmers.



 by whelh it is sery readity maltiplied.
7. ( $\because$ Suncalirrmum. IR.



 different periods of the yeat.


 the Hpper smface : onowh un hoth sides, with their mamprins whiti-h, calloms and hisphid,








 or there serds nte fomml inmmerel. Nefle Ahwter that the staminal fromit the size of it




## 8. (. cranctiralalum. IR.

















1）．（＇，st cildur．R







 Iy：： 1 ！
















 fertis it al，，mel ibsollely thecelibxd．

！）（＇．turirvila．li．




dicmey．li．nisi he lickis．
Etert．I dis m ．












 alis．in th l＇own liaml 11 ．























## sECJ. 1. Ilommen declimutu.

11. C. cutyustum R.

 allat, chelintite flowere














Almatylli-latifolita. If illd. $\because .-$ it.
-juvamit-pula 1-ali. Wherol. Marl. 11. 1. 3!).







































13. (

 Leclenl, mechs wheil, dromping ; ine ingins shaveth.

| $B$ リ $5.1 h_{1}$ du－hmm． <br>  <br>  <br>  <br>  |
| :---: |
|  |  |
|  |  |
|  |  |














$11.1 \quad 1 \quad$ ．







## 

 if prerrer rin it


 （ㄴ）

11．Y\％1． 11



Page | Carey |
| :---: |
| Fat |






$$
11.1 .111 / 10.10
$$

 rim，tim．r＇

1． $1=$ i．




 is $x$ ．

















Pi．$-1+1$


## fouht Brand, (1) 13:s-inl.


з. 1. aveatomienm. IFilld. 2. 75.




N゙ans. I'mandas.












 crect, mhemately dilated at the base. Authe of wate, green.

## 

C'rly, bome. Coiol six-petalled rotlex, Germsuperion, threperelled. Cells many-scet-
 Eintryo domble, finvishad with a perioperm.

1. (i. superta. II illd. 2. $!5$.

Memlnii. Rhreel. Jat. 7. 1. в7.
Iliud. Curi:ni.
Beng. I lat-chumblat, beroha lanemla.
 the most ornamental phats any rometre ean lonat of ; the rowt is wid to he a violent poison.

## CVHTHTATIf). (int.

II.




 cellet.
 Amb. (i.). i)t.f. 1.

Trling. Nanla, 'laule.
 in my armen it thowers all the sear momb.

Roat peremital, tubernso, with many thely, vermicular, fibres apratine in all dirertions.



 within. Recemes solitary, axillary, two-makel, with their upicus jnt apmarins nhene the eath. Prduncles compressel, claciate, abont an inch longr. Brades one-Howered, below re-
 apices of the whole are mealy horizontal, (corvmhiform). Flumers pretty large. yellow, the






 with the rombents of six or cirlit seeds in "ache, hat when the spols ine ripe, the mmuther is



 recomman it to a place in the flower (satiden.
2. ('. vecurvatis. R.
 laccifintu, rentml, mat! -atethel.









 sparsu, ( ( 31 rit $1 \cdot 1$.)
3. (' sul Ifrun) 1. R
 throe-lolat

Involiteltur. Jen ith. I it f. 111. 1. J.3.














## 

## 

1. *. ulas. $R$.


 Marelt mui Ipril.







$\therefore$ ․ . ceromatedelintar. H.

 ard tetariad -t \{thp.












 "prening at top, for the sligmz.

Corol six-parted. Neclary six-valves cosumber the ermitals. 1. 1. cluralus. R.
 clavate abrew thoir nertarial cilialt. basce.
 during the cold stasom.


 lemeths, and as much :ontracted immedintels nhove their eapmake ciliate have, and swell much toward the apex. The petals :ne white; with a brown line alone the centre.

## ANTHERLUVV. Sichels. gen. 九. 570.

## Calys none. Corol beneath, six-pretalled, expanding. Capsule ovate.

## 1. 1. uniflurum. R.




A natisw of dolilklanal, firm thence intworemi intor the Butanic (ianden at Calcutta by Mr. A. (foth, where it homsmas hame the cold samson.

Butb owate, trom its base sprimg many tholy fibres, some of which smplut a pemotums



 sumoth. Anthers linma, "rect. Cierne obloner, obtuscly threc-sided. Shyte scarerly any. Stigma threerleft ; lobers recurved.
2. A. litherosum. R.

Root therrots. Leates motical, waved. Scape ending in an oblong banicle. All the stamens subulate.

Sans. Chitis, nloo Vrishma.
Teling. Kustactlere.
A mative of the moist valkes up anongest the C"irear mountains. Flowering time ther rainy seat coll.







I have had mimy of the plants in my garien fis several years; they are very beatifut when in blossons, and hase a long succession of tiowers.

## 


 verse, on the werior side of an anple prispern, opposite to the umbiliens.

1. A. offictualis. W"illd. 2. 150.
stems herlacenns, whmar, erect. Leares loristly, Slipules in pairs.
Prors. and Hind. Nak-dour.
Bemy. llily(ront.
Aral. Hulyom.
Fomul as in Emrop, in a cultivaled state only.

## 2. A. aterasks. R.

Herbacent, weel. Thorns solitary, recurved. Leares thece-fold, there-sided. actes, polisherl, permancont. Precmes lateral.

A native of the interion parts of Bongal. Flowning time the close of the raine, and the berinning of the cold season; seed ripe in lhecember.
 romd. Branches mumerons, altermate: cxpanding, when old romud, while gomer angular.







 tobes of the creme comes to matmity, and in that cass it is culimend a little on one side, wits
 to the axis, which is now on one side by the abortion of two at the bube of the germ, Ine gis-


 in in ther "t bilimets.


3. 1. is epm sus, I:t, sp. Wrilli, 2. 15:2.
 a the bach. Kermas thon-adillary wion the lignewus bramelhts.

$11 \mathrm{~m}^{2}$. Inla-|mai.
RF . $\%$ Shemmili.

 March.













1. . 1. ratilim, hath.












 Whati riju mot.

万. 1. u'senthr. $R$.



















## 


 $8 \cdot \mathrm{~mm}$
1., l, r wild 2. win. 3


H! $=$ d II, minitrinl.

Sirimb: liumph I nh, s. l. 20 $j, 1$.

Page Carey lid.

A lomfo stmorgling, s:ankent, peremind phat; it mave of forests. Flowers durime the berriminis uf the rains in olume.




 miouts of ther.

## DRAC.LNA. Schel. gen. n. ST4.

Caly.r mous. Corol six-parted, ereert. Filamonts sommblat thieker in the mikble. Germ

 on the untaide.

1. 11. angusfifulia. $R$.

Shmohs. Leares stem-chasping, lincar, ncute, droopinge, waved, smouth. Pancle terminnal, /lumers fasciclerl.

Torminalis ancu*tiolia. Rumph. Am\}, 1. $1.3 \%$








 dicisions lincar, on the dus of exprasion revoltac, Filaments six, rither shorter thint the


 romuch, hamy mect.
2. D. ferrea. Willu. 2. p. 157.
lumemial, "inhesont, ereet. Lemess prefiolert, lanceolate, cuspichate, ferruginous. Petiates stom-chaspingr, mul chammeltol. P'anicle terminat.

 deteresend.

Sten crect, often ale thick as a man's wrist, with few, crect, peremmal, rommb brumeles






 and somewhat sibhoms. Border of six, ohboms, spreatimes suments; the exterior Hure doperer

 uttacherl to the insis. seyle ats long as the stamens. Sligme thereveft.

Lole. In Braral thi- hats sut riperned its froit.



A native ot the Mulnceiso Fhowers ahout the berimang of the bot season in the Botanic (fitrole at ('ilkontti.

1. 1). spicale. R.

Cimberent. Leares hancolite, dropping. Spilies terminal, biacles many-fowered. Coral

 where it blowents in Ijple











 Whe contuining a sin_le, latrere. rouml, simeth, white, lwrny sech.
$\therefore$ 1). mrewiata. li.
('unlement, Anubly, weak. Leaces oblonig, brval-lancenlar, spotterl. Panicles, terminnl, lis ; flos or solitiory.




 Brawhs fiw, nul like the stems; areneral heipht of five bar ohl phatco. froms three to four









(i. 1). cerners. W"illd. 2. 157.


 wither.
7. 11. $n=$ hiraruligern. II ilil. - 15f.



8. 11 limajtures. Is.
 tern, peiliea ika.





















$\because 11 .=1 r+1,1+8$ I. $\therefore$.








 suld 1.15 , rom!


 sumbler. Ctut. stoman , pietiliu, naml herrier, as in the me nim.

## 


 -.4.!ell
S. zemlumion. Willd. 2. 159. (urom, ph. 2. N. 18.



Remy. Xhomba, Murahara, Mureatic.
Aletris hyme cinthendess zeytention. Simen.

Tr ling. Lstamm-conla umr.





 time the: cohl and the bermming of the hot semon, that is, fom the hegimine of Jamary till May.

Rout peremial, stonniferons. stotrones as thick as the litthe finger. ruming maler the
















 preti-perm on the ontsike:

## () pisk:rimones.








 mueh.












 fibre.




 the hed in my cranden refpires thinning.
some yans :




 a greater expence than ererg wher charge.

## TH.LTELLA. L, matre:

































Tl: (I. 1 (R)


i. r दो il ध. $l$. 1 ,
















 -lital!.

 is tre tin!



1. Cube 'owt. Wi,lld. - lit.
2. Hex liwnir. alartat thath that arotpe

flied. Irand atult tri.
Mful. liajule rembiluz.
 (.). Hy durition theratio.

Caly, woue, Cornl arect, with the month expanded; bothom nectar-beating. Filan ments insertan on ther rectiptuck.
A. perfoliata. Hilla. 2. Isi\%.

Kitulemaku, wel coturnlis. Wheod. Ilal. 11. I. 3.
'I:nmi. Asiatioh Researehes. 1. シĩ.
Suns. (ilntitr-kommare.
Benty. (iluta-kombaree.

It is common in gradens thomerfont India.
Af:IFE. Silived. then. n. .ise.
Caly.e none. Corol crect, supmor. Filaments lomate than the corol, exped.
A. Cautula. Ir.




II.
 May and June, when from ten to fitern vean old, and are then from twenty of thity feet ligh.

## THEMHMOCALLIS. Schieb. !pm. n. ES.

Caly.r none. Corol (mmpmanlate; tube cylisdric. stamina declinate.

1. II. fultre, Wilhl. : 197.

Leares bifarions: linemr, achte, kecech, smontlo. Scapr twien the length of the leaves. Stamina necendinge the hemeth of the reveluse divisions of the comb.

It is only, as fin as I know, fomm in mur cratoms ; it may not therefore be a mative of

 where if not indigenons, it may have bem carried thither fom (lhana, its native eountry through Bootan.
2. 1f. cordula. Thumb.

Leaves romul-ovaterordate, many-nervel, acmminate; petiales deeply chamucherd, with wingel margins.

Front Chinat this elegant plant has been introinecel by. Ifr. W. Kerr, into the Betanic

 the leaves. The racemes nhont two feet hifh, bearige abme twenty, altemate, laree, six inches long, pare white, fragrant Howers, which expmal about sum set, mad drop in the moruing.

Spadir cylindric, covered with tlorets. Corol six-petalled, naked. Slyle none. Capsulo three-cedled.
A. calamus. Trilld. 2. 199.

The point of the sape very long and leafy.
Viembu, Rheed. Mal. 11. 1. 48.
Sans. Vueha.
Beng. Bueh, or shwet-buch. Cora-buels.
Sweet flag, or Calamns aromatiens. Mat. Med.
It is common in girdens throngliout ludia.

> TACC,1. Schred. gen, n. ธ88.

Calyx six-partet, staminiferons. Corol none. Stamina vanted. Germ inferior, one-celled; omular numerons, attached to three equidistant parietal reeeptacles. Berry one-celled. Seeds many. Enbryo smbeentrifugnt ; and farnished with a perisperm.

1. 'T. aspera. R.

Leares whlong, entire; petioles and seapes senbrous.

 lont and rainy seasom, and the soeds ripen there or finer monlis after.

Root an ohlong, chuwe tuber, of in mildting size, with wiry filores from its sides; inward eolour pale yollow; permial. Stem mome or very trithing. Lerapes nulical, jetioled recmrvate, oblong, entire, achuinate, suouth, strongly marked with parallel wins, mud smewhat bullate;
 leaves, sheathiner the thase, and ibwe that having a grouse dwon the inside, the whole conesiderably rourl, with stmall visible slarp puints. Scopes' axillary, sulitart, about us loug us the












 f








## 2． 1 lnv． H ． <br> 


 $r$ 保



















I．
 itrlition．

1．his ith－inl it italta at 21 town if Matarat．

























N．lgo
Calouy Eid．

Pace
"itherad calyx, mul marked with sis, protnherrant, equidistant, wertical ribe sumoth, when







CASARTA.1 Schrele. (ftn. n. B03.
 seedul.
( $:$ molurentina. 7 .
 terminal, and axillary. Coll!ar suhpinmatitial.

A native of the Mohecas. The epuctmens sern are herbacons. The mumber six pevails thronghout the flowrs.

## 






1. ('. Tallimen. R.


sfrns. 'Tali.
Ben!. Tham, Tallicer. Tared.
This elegant, stat ly I'alm, is a native of Bengal, thenerle seare in the vicinity of ('al-
 months afterwards.













 tree, fom the gromal to the top of the pladix is nows anme tit? fact. Drimary brameles al-












 Zryo ladged in the apex, which ciremm-tane alone, is sullicient to distingnish it from (iaxtner's Critpha umhtuculifura.

The leaves of this tree are comployed hy the matives, to write ont with their peinted stoel
 I do not fime that the wool is applied to any mestin purpose.
2. (:. rluta. R.

Leates lumatocendate, palmate-pinmatifich, plaited; seqments from forty ta fitte pitir;


Besя. Bejoor. or Bujur-hatool.
This stately phan is a native of Bengal, where it flowers in March mud 1 prit ; the seeds require ahomt twalse monthito ripen.

Trunk strateht, but when varying in thekness. I lave two frece, which were prety well ascertained to be abont thirts yants old when in flower ; one wass seventy fied to the hase of the inflorescence, the other about sixty; circumference nemr the root eight feet, and about the




 ,

























 athl. (i.,
(1.14.1-1+1-1. $R=1 / 1.3,1.12$

## 










 prial inc. :








 Inte at arment the chem late.

## 7. I'V LL.L. Šchrol. gen. n. 1191.





1. L. pellutio. $R$.

Fion "plunte: ol lioml r, 1 litwe. Nipes armul. Dimpe turliunde: no nectary.


 if an il in llay:






Pago
Carey Ld.

Taze
































 Petiolis basi spinusis, spadice ereato striclo. Lamark. Lincychon. 2. 131.

## 

Coly, six-leavel. Corol six-chft, with sathes on the inside. Cieron superion, from citht
 sulitary. Embryo erect and furninhed with al peri-perm.

Fomers molitary. Leerres lameotar, hacid
A nutive of Clinas, from thance intowhere into the: Botmice farten at Calentta, where growing in the same phace with the West Inlian tree thes ure not in lan distinginaluel from it. 'The ethina trees have not yet blesoment, bat those frem the West Inties Huwer in the hont season, and the fiuit riperiss in the ratis.

## 


 ed. Embigu crect mat turnished with a perisperm.

1. 13. asialiers. $l$.

 scerled.

Berlmis ilicitolia. Avint. Researches. 6. p. 357.
A matise of the momatamots commertes north of Hindorsthan, where it whe tir-t
 1)r. Buchanam in Napal, from whene the lattur sint sed to the Butane (furden at Cateutha
 it resemble the common bithery lush of binope.




 spines, subsesile, whovate and obtomer matyims spinent, with ainenlat sumses betwem,


















 it tior

二 IB, "
 (14n-| | |












 1 lita. . 'in itate:
$\therefore 11 z^{2}+\tan 11$ li






## 



 Sin : Ant


## 


 xiti 1 t 1 ?

II.
18.5

$f$ if $\|:=: x=1 / 4$.

















 inglu.


 "ylindric, the lanth of the eotyledons, superion. lsints are fond af the beries.

> 4. I. firpruginusms. If.
lomure shoots, as well as the muler side of the oval leaves, lomes, skender, tetrandrons,


5. J. incolecralus. R.

Lecares opposite, ovate-cordate, smouth. Tmbellets uxiltary; innolateres fomr-lenved, folmr-


A sfout. pirasitical slumb, fomme on trees in the furests of Clittagomer, Silhet, ©e. whero it blossmus the greater part of the year.

Branches while yomms chotled with smonth, shining, dark brown hark. Terares opposite, short-periolerl, wate, and wiate-cordate, sides oftan umequal, hs in mast of the plants of this grombs, chtire, smooth on both sides; from three to fome inches loner. tmbellets axillary,

 luore. Cielyx sumerior, short, five-toothed, villons. Corol; tube widenines toward the montl, villons. Border legular, fivelpurd. segments linear, revolutr. Filaments ranalling the
 sericeons. sbyle ratho lenger than the corul. Stigina two-lobed.
(i. J. cimpulloceoows. R.

Crares opposite, ohlung, polished. Rorcemes axillmry, smple. Flowers ealyeled, regular, hexnudrons; tube of the corol giblous. Berries long-oval.




















 buhti.
s. I. pestarblalue. $R$.














 ont-acederd, ifr. a in th को tho

## 

 Hfict. $\therefore \therefore$ on $\therefore$

1 13 Billat , 1. Come. 1/.1. 1. I!.
11.



11.! Whenl. Wht1. $1 . t$ iti.

1i: 1 11m.
Till if. Vinlhus. lialtome.

 tains














 arro.




以ago ('irey




 l:an ut the
 sitre.





 Ther send i- 11 a.d fin fiond :1s rice.


 this nent.
2. 13. Nhirla. Comom. ph. 1. A. s!).



Teling. Sinlanap:a vertroe.


 1ha ir sumss, dre at it.

 ghombar, very demse entively sureminting the hameldets. spithete of the vertied, emondet,





3. 13. Tulile. R.
 meate, frimged. shyte thr e-chntt.

Berge. Tuldal Lam*.
Hind. P'eka-B.114.
'Thi- is the common bamben on lhangal, where it grows in the erpeatent almalance every where Fhowerine time the month of May.

The root comsists af many anall filnes, spreadine in erery direction, but to nu grat distance, mor duthey perm tate ver deplo.

The ronte of all the other jeerics are imilar.









 one hroad. Sheneths of the leaves honger than the joints, and conliug in two, hateral, stipulary, bearded proveroms.
 and ceren then it is sodem they ann ha fomm in this state; at that furiod the whele pilant is
 abhe, supra-texpmpound ramitications.
spilchets lameenate, scesile ome, two, three or morn at the juints of the most extreme


 Which it is inserterl. Inner patee conceave on the invide. Where it prewe on the rachis; this



 re-emble, and are of the same size.

This species is very femerally used all over Bengat, for covering the houses of the na-


 hers.








 finl: tis.








Be \%. ISIlimelats.














It mah iha - f







 17114










 for H1, I's. hind










(i) 18 sither it




Page
This beantiful, middling sized, rery elegant species. I have only found in the vicinity of Calcutta, where now and then wome of the oldent are lomed to blesson about the beriming of the rains, in Junc.

Stems stareely fistnlous, jointerl, \&ee as in the other species; in this many grow mo chas,

 task to cut down an old clmmp of then; joints froin six to twelve inches asmiler. The phants, or shouts of the chmp, whiclt come into thower, I have observerl to lae theme of the centre, and ther are taller, struinhter, uml with in muc, longur cavity, and longere joints, than the ret., which are shorter, dropp nore, atrd wave elcurantly with the netion of the wind, not withatanding they are urarly solin, for it is only the larger -tems that luve a small eavity, the branches being gencrally solid; whole height Prom thirty to fifty feet. Njeines at the juints, and
II. guently incomplete; the midalle one is the limgent, ame often compuand; all are more or leas recoured, very strone, and sharp. By the mmber and atemeth of these spinm, and of tho branches of this species, it may be sain to fimm the mont inpenctrable jumale in ludia.



Inftorescence. 'the plants of' the clump, when in thower, form ime inmmente, makert pancle; tor at this time there is not aleat tw be iomed on them. speifetels crowded on the
 de. exactly as in loa. Florets the inferior two :mbleminal me mate hermapheodife, or




 and three alternate with them. (ferian clarate. Styles there, cutircly chothed with pato purple wool.

Like the other species, this is employed for varions nseful pmrposos; and as it grows to a pretty large size, and with a smabler eavity than any of the others, it is strong ame well adapted lior a varicty of uscs.

## 7. B. nana. $R$.

Shrobly, umamed.
Sons, Kentil, of the Chinese; u native of their mon'ry, nud mow plentifnl in the Botamie Garden at Chenta, but has not !et bloswomed in boingal. It makes most beatifnl elose herlores.

The popmber belief, that Bumbons often tuke fire be the violence of thoin friction, during those hot, dry montha, when, what. is callerl, the land wind prevaik, is shppenteel hy tho Sanserit stanza, quoted by sir William Jomes, (see As. Res. vol. 1. p. 2j) , of which the following is a cops.
"Delight of the word, beloved ('lamdana, stay no longer in this forest which is overapread with rigid pernicions Vimsas, whon hempts are unsomm; who being themselves confounded in the seorehing strean of d:ance, linderd ly their matnal attrition, will cousmo not their own families merely, mat this whole work."

## HEXANDRLA DIGYNLA.

## ORYZ. Schreb. gen. n. Gü.

Culy, glume two-valved, one-flowered. Corol two-vilved, growing to the seed. Nectary two-leaved.

Of this gems I have fomb only two species, lint of the tirst, sativa, there are het ween forty and tilly varicfies known to, ind coltivated ly the ludim farmers; they som all to hase spromg fom the with sort ealled Newaree by the Teling:s, and from it the following deseription is taken.
O. sativa, Hilld. 2, 217. S.c. Soc.

Prancle riflinse.
$C^{\top}$ noo, Dhimy:i, Vrihi, the Simserit names of the cultivated sont, and Nieara the wide variety, ealled ly the 'relingas Newaree, Arm\% of the Arubians.

Dhan the Bengalee name of the plant, and the minaked riee, and Chanl the chen rice.
Uri the feneric Teliugal ume of the cultivated sorts. ( reow the grain in the husk; and limen the grain, or rice. Neware of the Telinmat is the plant in its wild stute.

This original stoek is alw:ay fomm wild in :med alome the borders of lakes throughont the Circars. is never cultivated so fin a 1 ean leam, beemse the protuce, they say, is small, compared to that of the varieties in cultivation.

Root tibrons, amual. Culms. numerons, nemr the base foating, or crecping, with the extremitics erect, they me jointer, rommd and smonth, from two to eight or tell feet lone, according to the depth of the water. Iectues sheathing, lmor, and slemer. backwardy sca-

[^10]lrous; math of the sheaths crownexl with a lurge, con inal. membmancems, lacerated proces. This process, ligula, or tipule, is common to atl the tarictie, 1 have examined. Panicle terminal, thin. howimy when the seal is weli=hty, Rerhis comm m, and partial, angular, and hisphit. Florrers sinthe, pratie llent. Calyx and rorol us he-crilnal in the Genera plantarum, "wept that here the lirge whe of the ealy math in a very long hispid. coloured awn. Fectary, twa taleate bention embracing the posterion half of the germ which are common to all the varietime Aramens sia.

The rice of the widd aort ald we deseribed, is remarkahly white, palatable, and recknod sery whoternue; su that it is caretully, gathe.ed, nud vellselear. The richectem it a danty ; mil to m.ane it still mone delicate, they beit it myly in steam. A corre kind of confection, ember be thee, is madn of it, and and in most hazars.

Ahepo in arriontare in finpond and senthan sy there is no such thing in nature as
 nted as to rar ine m help whatere from unture, except what tha nir and rathe fieht ; however

 the greate et pirt of the rice lands in the "irears, ate of the former som? there they depend











 saty hat up; "hishew it receiven any lathetit from heing sn, is a print on wheh 1 manut pretant an give sut tpinion.








 menas the late on grent crops.

## 

## 











 oif rice upun it, for sume oura require very litile water, while others rempine a great deal.
 is dune with the sickle, it in most prota of limenge. The prositnee is then carrical to some
 grain in thon winnowi, frimb, and dipnsited in pits dug in high ground, and lined with the dine utraw. The struw is stached by the marrful firmer, and reservel to feed his eattle with, during the hen menths whem ath vergetatimn is hame nip).
 am lust ucyuninted with, viz.


 raultixh.

Thiv nurt hav alse a ling awnt there aro many make, wentar amil fomale fowers mixed with the hermphroslite omme. It requires less water than most other varieties, of course the






 (enltivaturl.









 White. It dones not require a proat deal of 11 - ter:

 and white.



## 



 water.



 little witer, atul is litthe coltivatiol.
 talabe riee is tiner ; a lanse propertion of this is cultivaterl.

 cultirnted.
 aul:






 fine, but the primeipal ari thee almere- nentinned.
$\ddot{2}$. 1 . courelertu. Is.

 Teftr. Flowerine time the rainy seatom.






 one luat slatped, atml darierered.
 Asiatic name fir it.

## TEERSSLA. Fotant.

[^11]









2. 1. mili,t 1 . 2 .










## HEN:NDRIA TMR(i)N1.

## 

## 

1. ה at | e. It , h. 上. 2.:3

















## (1) , . Itime.






 Leme motivilat.

liemi \{lmekilal1=

Pros forr-hemmin.



## 



11.

210

Vise
 $x=1+i+\operatorname{tac}$.

stm. hah:aili
ll, 1 (ils il x).




Prge

 brond. Seapes ay lone as the leares, it lithe striated, proforated by maty pores bugth-ways. Shities clegatly beat this way and that, clowly smmonded with ilower. Corlese, or corot, whicls



 fone to erght seded. Sereds ohloug, inwerted into the base of the eapoule.


 with three gromes

$$
\text { 2. .1. echiualum. } \mathrm{k} \text {. }
$$

Syike single, and simple. Somes linear, with corlate base. Cupsules ectrinate. Steds alont six.

Found, with the former sperins s: wing in shallow firsh water all aver the Cirears.
3. A. umdulatum, $R$.

Stoloniterous. Nipikes simple. Leares lanceolate, "averl.
A native of Bengal. and like A. monost chyon, grows in standing sweet water. It thowers duriner the rains.





 stancms; in ull the flowers I cxamined, they are iurarially six. (apsules smonth. Seed gemerally one or two, oblomer.








 shaped, expanding. Stamens mitimmly six. Cirims thece. Copsules with one, we two romad secels in catels.

## ANDERSOATA. K.




 from Cupanim in having ather-petalled comon, and ghombar antheriferons medary ; and fom


1. A. cuculluta. R.

Polygmous. Leares unequally pimate: lenflels npposite, fiom two to finm par, obthee. Hermaphodite pelmucles axillary, fow thwered, imale panicled.

A wee of com-idemble -ize, lmt of whe slew growth, a hative of the Delta of the Canges.








 moter eath division of the pathiele, ame two presing the caly latemally. Calya sumbl, oneleared, theretoothed. The two bactes, while they reman, malke it appear five-parted. Peo thls three, oval, concave, pressed to the nectary. icetary romud. furlinate, with a contracted triangnar opening on the apex. Filement.s nome. Anflers from six to cight, sessile, round

 longer than the male, in other verpects the same. Colys, corol, and metroy is in the male.
 three-celled, with two verticully placed ocula in ceshe attacherl to the middle of the axic. style gone. Stigma large, three-lubed; lubes sumewhat twolobed. Copsule nearly rombl, as large
ona midhliwe sited apple, three lobed, three-celled, three valved. Cortex thiek, firm, and of
 with athohy brimht orampormbed aril. Integment numer the aril smenth, and of a ches-nim- condur. Perisperien ine. Eimbryo inserse. Cutgleduns contern to the seed. I'lumula twolowe 1. Ratich a milnuar, sulperion.

1. 2. Kotituta. IP.

 sify. IS he:nhix.
licm, Tohiverat.
JI d. Warris hara, or khama.
































 ant - H" tion rall 1 , are eonsindmably what



## 

## 






Hitelambel. Whred. Nat. 11. $t$. 11 i.
Bry. V'alme-kell\%.












 long, cruwnel with the withrial perianth, xis-gumbenl; me-cellowl, six-salved. Seeds numer-

Wago
 the nix values.

# CLASS VII. <br> HEPTANDRLA MOTOGINTA. 






 1:ry.

Beng. 1:ach:achum.
Tram. Riarin-imlu.
Tragularia horridu, ot Koniy. M. S. S.
Ti liag. Kunki-peotri.











 deseribel by (iartuer.







## 









Brong 15 sok.

 Paitli:。
 gat, where it is imligews.

























 - Bite. N.ny on the thowers hase enly the radiment of a piotilime.

Wheat thi trere is in fill blossum, i do nut thish the whute vergetable kingilom, ationds a anule haratiful oloject.

## 2. d. sizulens. $K$.

-hubhy amantent, ar twining. Sevflels two ur three puirs.
A natho of sumatra, ame hav heon receover into the botanic emolen at Caleuta, but has



3. $J$ licibuliox. $k$.

is Butbic of the Malyy Archipelagro.

## CLASS VIII.

## OCTMNDHL MONO(i)NLA.

## 





## 1. X. eirens. $\boldsymbol{R}$.

## 

Beng foctuler.

 thw matives.




















 ixnmeditely within the malilicns ot the sect, ant printme to it.
2. X. jler scons. If
 lack of the laves nestre the baso.
l马evar. Ajew-ak.










Page
Caroy
lud.
11. 200

Prge



 leaf, to shew the two flamels.

## USliFCKTA. Schowt, gen, n. 6i85.





A mative of cerlom.






‥ (). chimensis. II , Ild 2. 300.
 terminal, subsessile, fume sumber divi-itho of the enlys frinted.

3. 1). telranitra. R.

Shrubly, semment. Lemera opposite, theernerved. I'anictes termimal. Fromers tefrandrons.

A large, climbing shrub, a mative of Pulo limang. Temeriks few, statured, solitary, undivided.








 erl with the emtire thbe of the calyx, fund-etled; wells operuing at tops. seeds sery mantrons. Receplacle semilnmate.

## Obsercation.

This plant appors to me to be neally allied to osbection, howewn the want of the inter-


N.w लenns (Blank.)

Calure entive. Corol fromr-petulled, inserted on the calyx. Capsule inferior, fonr-celled; receplarices pasictal. Seeds momerons.
 both sides. Cortyms terminal, and axillary, much shorter than the learce, ceoweded, decom-




 fonm-valied, erowned with the momange celly. Seeds mmerous, aflixed to fomr, callous, rertical parictal receptacles, as in Pallisneria, ice.

## COMBIRETVM. Schicb. !en, u. 64.



 withont peri-perm.

## 1. ( ${ }^{( }$. oralifolian. $R$.

seament. Leaces opposite, oval, smonth, nbtuse, spikes axillary and temminat, the latter eomprumal. Caty.. subrotate. Pelals.s elliptice.
 April. The seeds riper during the rainy semson.



 lary; the former compound, haviug two, or three pairs of opposite, expmoting brouches, and


















 (14) it t, 11 .
if ( ) wist M. In.








 I



i. 1 ,









 ari

















 AV.






Seed ulways simgle, and with (farther, I consider the exterion integnment thupot all them is




 cord, wheh at taches the inner intenment to the ouser, maler the stale.
(i. C. rhinensis, $R$.

Subarbmemas, seandent, Leares opposits, and tom, olbong, smonth. Spikes axillary, shorter than the leaver. T'ube of the calyx chasate, month shat with hains.

A rery hage, spreadine, ranmis, semulent phant, in the Botanice Carden at Calcutat originulty froun China.

Fiblowerge time in bengal the begiming of the cold semont.





 vite, umminate, wive longer than the sernmente of the colys. Stamens eight, a litthe hager

 lacum, recuibes that attention to he paid to the threrefoll heaser ; the form and lometh of the
 p. 103 . 10 .
7. ©. macroply!llum. Il.

Semblent, smooth. Lenres opposits, owatr. Tinecmes axillbry, subeylindric, dense and


 conical, ako within is a hairy rim iomul its month, below the cight stamina, The barger leaves are about in foot hap, and from six to eight inche bront.
8. C. squmas.sm. $h$.
samdent, all the temeler parts conered with minate seales. Teares npposite short-petioled, oblones. entire, aconte. I'onicles terminal, and nxillary. Pefals lanceolar.

A mative of the Malay Archinulago.
!. (1. (armm. Wiltd. 2. 81:).
seandent. Leares oval. Racemes lenigthened, thin of flowers and withont bracter. Calys wonlls within.

Teling. Bandilinta
A native of the Northern Cirears, but I doubt whether it be the same as the Ameriean species with the same specifir uathe.
10. C. pilusum. R.
scoudent. Lerres opposite, owate-lanceolate. Panicles unemmonly dense and lairy. Flowem hairs, demulnoms. I'etelis lanceolar.

Beny. Jooni-h(r)r.
A mative of the Silhet distriet, and like the nther Indian speries, an patemise wery pre

ons purts pretty whoth, diak brown ; that of the gomager shouts clothed with much firngimons, soft pmbescense.





 with mad fermzinons hair. Flomers tawny, with fermginons ham, shom-pedicelled. Brartes linear-hnecolar. "pposito, one-flowerel. Calya' superior. campamblate, five-tnothed, both sides hairy. Pelals fire, lameeolar, much lomger than the segracents of the enlyx, ont side clothed with uppresed finkons hairs. Pilaments ton, much longer than the eorol, five inserted immediately muder the petals, and fise deep in the tube of the ealy. Ferm five andert, hairy, one-celled, contaming two orula, attached to the top of the cell. Styce lempth of the stamina. Sligma simple. Sped fise-winged, villons. Intryuments two. The raterior is the solt, villons winged tumic; the inner athin dak brown membatime, adherine to the rolyle-
 11. (: decondronn. If ithi. 巳. 319), ('urom. pl. 1. S. is!.
 Spites termimul, and asillary; fomers derandrons. C'apsules tive-winged.

Trlines. Arikuta.
It is a larere, climbing shmb, a mative of forests and momutnins, fe. Flowers during the cohl sentum.
 smonth, nhmit six inches longe, and thre hroad. Floral haves smull, colmured, downs. Suites








## 




Giruhtu. Lenper oplynsik', stom-cta-piné. Racentes axithars. I'clats minnte; stamana eleveri. it itwelve.

blawrye fxill Res. t. p. ie.
Atite, I mijwala, and bhatree.
T limy. Metinyit.

## Bany. What-phiont.

A wiry hatitnt, thwering shmit, or small tree, a mation of the hiths and vallies throngh
日nt the - ent ripens in the mints.










 gives $t$, this dhath a very gandy 口ppearance:

## 



 sittine en a forgy reveptach

































 cessor, has mate me more than ushall! minnte in deseribing amb drawine it.


 ed with :1 peri-puma


Bacmla. Lsial. Res. 1. p. 27:3.
Ehangi. Whead. Uat. 1. t. 20.

Mind. Hulsari.
Ticling. l'agatos.
Tiem. IMrinture.
The kimiki of the native Portughese.


 India. It thowers chiefly daring the hot seman.





















 dons harere, oval. Phmata minnte. Hetticte intivion, limamobloms.

## 

 undomenth. Frmit aril, drowping.



Dulay. Bowis sow:

 is etible: and hare.
3. M. hextudita. Wille. 2. 326. R. Corom. N. 1. N. 15.

Tamul. l'allies.
Treling. Pallat.
 have 1 seen it near contivated places. It thawers durin? the hot. . mad haremme of the wet se:lsun.






 like Elengi, comsisting of two rows of stramenti, the exterior twelve, the interior ain, all spment.





## 



$\because$ Mer:phatu. $R$.







## 


 or.!(m) mentrifimal.


(iran oturn lituman. Renph. Anhl. col. 3. t. 61
Tem. hanul hatica.


 in Jthe :and Jnt.




## 





1. (i lianstrifift. R.




























 cotyll lum.


 lucides.

## Pago <br> Carey

Ed
2. (i. pundicoldalu. If.
 site, wat -lancoulate. F'ancicles axillary.
 Fhowering tinur May and Junw; the serd ripuls the tollowing April.


 nomely smooth; fom five to tem inches lomge and two or fonr brad. Common pelioles rombd gul vithons. slipules none. I'anicles axillary. solitary, nearty ns long as the learés, rperad-
 low, exp:ading in the evaning, and dropping the next moming. Briceles filifom, vilhons. Culys cup-shaperl, obicurely fonr-touthed, a littl villons. Jefals four, spatulate, ohtase,

 the insiche of the month of the wereary. (from suration, ovate four-celled, with one, rarely two orula in cach, uttached to the top of the anis. Syle the lentrth ot the nectary, hairy.


 rombl or ornl, consilerably Hattemal ; inceror half yollow, in the midhle ot wheh is a hare


 a minnte, remmel spot in the cernt re of the eotyledons, the former pointing to the mbilicus, and the latter to the ciremmference, (cenl/ $\dot{f}$ fughl.)

## MOLINZAS. Juss,

Caly, tive-parted. Corol five-petalled, mequ:al. Filamenls woolly, asecneling over the


Leares abruply-pinmate; leaflels two pair, obtuse. Kacemes on the leafless bramelilets. Slyle siusle ; sligma theretestherl.

Teling. Korivere.
siupimins teliaphyilus. Jraht. א̌mbl. 3. Ef.
A native of the ("irenr momutains, mud flowers abont the time the Supindns does.
Trunk not straight, but thick. Bark ush-colomed, a little sconlurons. Branches mumorons, spreanling in crory direction. Seares alteruate, abruptly-pinuate, sombetimm tornate,
 shining, tirm, five or six inches lonis, wne two or threr bond. Petioles ronnd, fonn or five inchos long. Racemes many, simple, or componme, froms tha extremities of the late on I wo hat Sans' leafless brumehtets rombl the bisis of tho present yeur's shonts. Flowers small, white, finscicled. Calyx interior, five-parted. Petals five, fom larire, aut stamdine un the upper citle,
 single. Slimma threc-twothed. Capsule single, thee-sided, three-celled, there-valred. Seals onte in ruth erell.
'Ihe wonl of this tree is white and not so serviceable as that of Sotrimbus rubiginesins.
2. N1. leris. Willul. 2. 329.

Jenrex abimptly-pimate; leaflets one or two pairs, ('mante-obovate, ubtuie, entive, suouth Panicles uxillary. Prelals rumal, with a woolly realo in meh side near the hase.
 and the secels ripern in Octoher.

## A.MYRIS. Schreh. gen. n. 650.

Calyx: fom-tonthed. Corol of four expandine pelals. Germ superior, four-celled ; cells from two to threeseeded; attachuent interior. Berry one-seded. Limbryo iuverse, withuut yerispron.

1. A. simplicifolia. R.
I.nves simple, ohlong, and brond lauccolate. Racemes axillary, short, few-flowered. Germ two-erllad.

Asmall tree, a native of Pnlo Pinang. Tu this species, the leaf is jomed to the apex of the petiole lyy an articulation, atud there the leaf falls off, leaving the petiole, which is much uore pcrunament.

The racemes sure abont twiee the tength of the petioles; the tlower suall and white. Tho ripe finit has not beren fomml.
2. A. commiphora. R.

Arboreons, hranchlets uften ending in spines. Tences petioleth. simple, elliptic, sermate, achte, with 1 pair of minute hathets, or ears at the base. Flumeds axillag.
('ommiplinin Maingrsearensis. Jacq. Schoenlr. 2. p.66. I.-19.
Sans. and Bengy. Groorrule.
The tree is a native of silhot, Assim, fre ki. :und N. F. from Bengral, in the Botanic Gimelon at C'alentit it hlossonms about the begimang of'the hot stasun, iu lebruary und March, but seldon ripeus its seed.










 - I. will , 大立









 Liom al liv J.arquil.





$\because 1$ I 11 whtro. $R$























 thet if th citin- tomf



 *proit.

## \%. 1. pent thaylif. $I$.















Fage


 shlesth.
(i. A. heplephyller. R.


 1 hibve vet fonnd it.

Tronk, in nll the planis I have seen, thare is soarcoly ans, but many, suberect branches,
II.




 glandular dots ; whes ripe pale rellow. Nopel sulitary.

The leaves, when bratisel, give out in urery string dogree the frayrance of the fizast and fresherst anisu.
7. A. waner. R.

Shmblin. Leaflofs from five to clewn, oppomite. aud alteruate, ovate, cremblate, sumonth.

 in April ant Jay. Soml ripx in Jume and July.











Bute. 'Tl is desiription is taken tion a small plant of two years' erompth when it first

S. A. suffinticosa. IR.
 Panicles axillary. Berry linear, ohlong.

A native of ('hittagomg, aud from thene sent hy Dr. Buchanan to the butamie mateder
 Mny:

Shem simple, ahont two feet high. Bark of the lower wools part ash-colonemb. of the Fonng shours green and villoms. Leares altermate, pimmes, expanding from six to sixtern inches in length. Leaflols gonerally from eleven to fittern, (ipposite, amd altemate, short jetiolloterl, the lower pairs sustl, eordato-ovate, the superior obloner ; all are entiro. ram dewny
 halt the length of the lawos, villons. Fhoufers mumprons, sumall. errenniah white.




 dimmoter. Seral solitary, shiperd like the herry, erven.
!). \. sumaliomal. R.
Arborwons, tember parte villons. Teaflels from cicelat to twelve pais, opposite or alteruate, unequally wrate-linceolato, 'utire. I'anisles tarminal. Brories owal.

 covered with sumoth hewnish olive-colowed latek. 'The learem wholl tresh and honist emit a pleasant anomartie orlomm like that of the lemon leat. 'The fitaments sprome ont at the base, as in A. prenctala; the receplacle of the giom is alse the sanme hat the slyle' and sligmes are here

?. A. pearlater. R.
Arboreons: laftets from twelve to fifteren pair. ovate-lameenlate, eremalite dot ted. I'ani-







Leaves alteruate, pinmute, with an vid vie, from twelve weighteen inches long. Letplets














## YL!! VIT.I.

 Irempe *ige $\therefore r$; (91 - sinl al.


















 1ulizi A1- coremonita.

## 



## 11 11. 11 ir rin.

















 t. 1, d, ott se matial.




## 7/l:R17MI.R.R.


 th " imirre, at! \{

1'. . . int $R$
 11 |




 in Jithr.



 late, inserted on the common perlande, theredtowered, cach fower hamerne on its proper







 threc-nerved. Radide oval, shipror.


 Butanic graden, chams for him this mark of disf inetion.

## 

 or two in cacla cell.

1. 1). angnatifutiar. IFillt. 2. :311.

J'olyatmon-shmbly. Leates lincmr-lancentate, Ravemess avilary and tominal.
 del. It Howers dmemer the sains.





11:
 cells, :and two wing:


2. 1). (fiorca. is.






 nelle.

 Theripue seed voersel has not becon funad.

## MELJ'()IRA.



11. tetrundica. $R$.



















1．itrimbis．If illal \＃． 311 ．


Il：i！：1n－chii．Rheat．Hul．1．t．10．
Beme IIrluder．
$P$ ： 11 Plltal．

## －fichb．Vitkan．

Trelines．Iimunta．



























Th




## H：Нにけリ．







T＊ 1 ，Alie．


 （1）





 iti

14． 1 年

－1， $11, \pi$







## M.llidel. A.


 fumishal with: provisurm.
11. Wegonifisliu. If.





 of Marlea.













 rior, wal.

## SYMIMOREMA.



$\therefore$ infolucrate. Corom. pl. 2. .1. Isti.
Trelin!g. Survoldou.











 Lulatr, sumoth, the siza wl a peat.


## 




 Iy dixpmed, and woolly on the whenle of the inside.

A nativo of l'nlo l'inung, Sillet, de. It towers in May. Arboreont; ; yomer branchlets romud, :llld ammeth.

 smonth, shont latt the lenarth of the leatlets. Renemos axillary, in pais. arsulitary, twice


 Sliymat twopmatiod. Pericerp unt seen.




1. 11. aporttica. R.
 by ar rate. Rincer nes simphe. Nedary finmelabeyl.

Beny litheo-lía live.
 it hlewoms int Jtme?





 the invile alme the midiltr. I fry within the law if eati: in tal, a smat, oblomge -moxth,







 Ia lithe mirsel, infiorior.
※. is ritura. $k$

 1 11. iand wex ty

Atrative it thetherme.













 enmeate, wewlly in the centre. Bu, rios at wate

Himel. Rahtal phul.
Yi: hang. Fillat hir.




















4 () ifatrice $K$.





II.
$\because 6$









11.









5. (). Cobtur. 11 'illat. 2. : :2.2.2.
 terminul oni broul lamoman: Racemes axillary, simuls.
thms (vubloe, spe. pt. BSe.





6. 1). integrifoliar 11 Fillit. 2. $3: 22$
 as the loaves. fretals renifurm. lone-chawed.

A mative at the Nloltere:tio.
7. (). requader. $R$.



A native oft tho Mohlocoas.

## 



 sperim.

1. \&. Lichi. R.

Iulyanmons. Leaflets fimr paib, lameolate, sente. Crely, four-purted. Corol none. Fertile germ two-lobed; firuit wal, murexel.

Eipluria. Juss. Gen. pl. p. 2 ? !

simpindus celulis, IIont. Kev. 2. $j$ o. 30.
Chin. Lichi. wr lere chere.


 ash-tree; they aro ulso somewhat like is in appearance, with nimerons, phating branches,



Lenpes altarmite, petioled, abruply-pinmate. Saffets from two to six puir, opprisite, shurt


 hrumb that supports them. Brectes minnte. Flouers small. gresuish white, smetl mather oflimsive. On sombe teres thes aro mostly hermapheodite; while on others mosily mate, but :1s fial is I lawe uhserved nevor eompletaly so.













 the men prematint wer are me we haw in Indiz.
2. - !m, 1 II. $R$.
 fruit if mind, al shty talments.
$B=1 / 7$. -h-lhint.
( hit. द.mmerli.





 pittoulite, mive 1 or aly anle 1 miche.











3. A. $\mathrm{Krm}^{\prime}$, ln, R.



1:



1. A. riman s. if.



 112F!14t.

- S. Melize R.

















 $1=1$.
(i. S. parre fiona. $R$.
f. (flels alumt wrin, lameenlate, Eevrate, eremate. Panicles tormiual. Coly, and Cirrol of ar l. ifle e, and ly tal:

A Batir of the Moherens.


1. सकाth. Pont tav tomind?

1 Hituce uf the Malay I-lamers.
$4 \therefore$ restiollutre. $R$.


Page fuls five, with a womlly scate mear the base. (ferme twolobed, elevated on a receptache.
Carey
 fyice phants in 170s, where it bhseoms and ripens its seed at diflerent periorls through the ye:r.
 of the phants, abme wevell tect, and ure - till growing tist. Learnes sulsertirelled, short-petiol. wi. lancenlate. smonth on hoth sides, and entire ; abont six inclues lons and abont two hroad.

 pedicelled, small, pale sellow, wilh a ling of wal. Caly.x of tive, mequal, romatish, concerve

 also chevates the pistil. Anthers ereet. Cerm :nperior, on a hort flesly receptache 1 wo-marely
 mat two printed. Bervies gencrally twin, oval, the - i\%e of a smill cotlie ham, pulpy, when ripe,


## (1). Si. Danmirt. I?

SInubly, Leapes simple, hroad-lameoolate, with a corlate lase. Pamirles teminal, petals five, with two woolly seales nt their hase. Germ two-lohed. Style seareely any.

Reng. Danuorsi.
This thee is anative of the I) elta of the (ranges and of the parts to the enot of it. Flomering time the heriming of the lest sement.




 mons are insertell. Filaments fiom six to eight, half the hengeth of the pretats. Authers crect, ohlong. Gerom two-holech. Flyle rathere sherter than the stamens, sfigma two-parted. In some flowers, (and the are 1 suspect alway barren, the Germ is small, and the style ouly a comieal print between its lobes. Beries une or twoecelled, the size of a fied bean, aud jubeless. Seed solitiluy.

It was inmerly ohserverl, that. I thonght it necessary to keep the first decerped two speeies of scytalia divinet firm the gemns simpindus, on aceonnt of the recgular corol, or its colstire abence; thesame reason previls here. To the former, seytalia, I anign a rewner corol with the stanmens cyually disposed on all sides; whereas to the latter I give un irregular corol, witl asecudiner filaments.

## SCHLEICHERA. Willd.

Polymimous. Calyx five-twothet. Corol five-petalled, or none. Germ superior, three-cellel, rells nue-seded; attachnent inferior. Cupsule borwed, entire, or thre-valsed. Seeds from one to three, arilled. Ěmbryo naked, withont perisperm, curved, erect.

1. S. pentaptiula. $R$.

Coaflets from there to four pair, subalternate, lanceolate Flowers fire-petalled. Capsule onesse ded.

A prefty large tree, a native of the forests of silled, where it bloseoms in Hareh and April, and the fruit ripens durine the rains. The mate tree is there called forpoure and the hermaphrodite, or fertile tree Poura-hoi. This som is not eatern, the aril, the only cdible part, being yery thin, and insipid.


 des axillary, mather shorter than the lemes, crowded with mumeros momifations, mat whe ed with soft down. Flumers amall, amd very munerous. of a dull yollowish green. Mabe. CaI! a ${ }^{2}$ tive-partect ; segments hroad-eordate, a little luiry. Drluls tive, lamecolate, with two sumbl, smowh, ineured seales at the hase, nis in the sapindi. Nectary a torulnae hary rine between the insertions of the petals mel filanments. Filaments seven or eight, the lenath of the petalo, or loner l. Anthers two-twed. Cierm an whomeg grand.
 hemapherolite, like thom of the male. Filcments shorter, hat the cunthers as in the male. (ferm
 aly: Ntigma of there reurved lobes. Capsule the swo of ablack curmut; tuperiser into as peribel at the base, marked with three sutmex on the ontside, grenerally one-ondled, threceratr-
 the size of 11 small pea, romud, envelopeal in a thin, sucenlent aril. Integumats single, smouth, Lrown. Perisperm none. Embryo curved, erect, grecuish, Cotyledons mequal, one-curved, the other, vi\%. the inferior one, donbled. Radicle condeal, emred, interion, its apex tonding one side of the mobiticus.

 a thick, sucenlent, subacid, whble inil. The proper integument is there also single; nor is there
tan！perivperin，lunt be the the colylerluns are doubl ul，und expually bong．

E fetr threw pir；lancenhate．Flourew upetakins．
Kimen．Girrt．sem．2．p．4sti．t．IsU．f： 11.
（inty．C＇thahtas．
Tan。 Zatim－buniki．
Teling．May，or Resutaurha．


 （ra－id tril，is extibh．ant printable．
















＇The berk is antringet，rehbed up，with mil，the nativer of thene ports u e it we cure the


## Sルハハリー





## 

 ave，buteolat：opn lly wh ly all over the insile．
 Whe eved ripen－in Ipril





















 the la＇ter．

13．If．Merx－revtha．








gularly disposed, ohloner, or hanceolate, outside hairy, with two infleted worlly tufts on their
 haisy ring between the insertion of the pretals and stamina. Filaments ejerht, shout, woully.
 ber, slightly eonjoined, singry, sumewhat of an ohlinge-ovate shape, with an cheqationi ran-
 on the iuside with nsmooth, tongh membrame, racert round the insertion of the seded, and there
 black ; size of a later maroow-lat pos, mitocular thiok and excerdinery hard.
 stanco, turetler with al callox, mul ronel of five parts, induces me to think Gerflner's situinches rigile, p. 31.1. 70. f. B, must he another speries.
3. s. chetergens. 1 R .
 Pelioles simple. Flowers puncled. Calyees, mud corols of tive, equal, merularly disposed leatlets, and perats.

Mind. mud Beng. Recetla.

## Sans. Vrista.

I have fomm this tree mily in Bengral, though a native of most parts of India. Filowering time the legriminer of the hot season.


 from eight to twelve in manher, or fom fond to six pait, contire, obligucly lameonlate, whleng,







 cells, where a considerable quantity of woolly hbres intervene.





 and in the petals being without the two woolly salles, so conaphenoths in delergpas. I theretore conelude they are distinct speries, aud doubt if the smmerien tree is to be fomm indigenous in India, probably not in Asiat.

1. S. stuctamos\%s. R.

 woully scales. Filaments and Croms woully.

I uative of the Malay Arehipehyo ; my specinems were grathered on the Ishad of Nasinulunt.



 and tominal, the longth ot the haves. Flamers mamemons, small. Faty, fiverdult hativ.

 the petals. Gremom woolly.


 A mative of the Moluecas.
(i s. rendiginosms. Hilld. 2. 1.69. R. Conom pl. 1. N. (i2.

 singhe. Berories diatillet. ubhnm.

Trling. J-hereraishere.
A larer timber tree : native of the momatainons parts of the Circars. It flowers alsont the berimuiner of the hot seasoll.



























 orul at?



4. ㅅ. strute. $R$.



- bative of tha गlohetas.


## 


















## 




1. 1 : $n=1 . a=R$












$\therefore$ P. Fin hlo.t. $R$.






Page

 Pefonles two inchest lons. insorted into the st ipules. Slipules, shathing, hatirg, striatiol, trun-


 compressed, sumoth, hown.

Dole. 'The ents of the sucembent branches, after being wetter becane coverech with a cloar thick glat, 11.
4. I'. lomenlosum. IV 'ille. 2. 4.17.

Ammal, sulerert. Learess lanceolar, silky; sheaths and bractes bearded. Stamens seven or eirght. Ěigmatwo-cleft. Set Lound.

Teling. Veatmemallio.r.
Persicaria mathraspatanta. Pluk. 1. 210.f. 7. good.

Stems several. below proxumbent, and there rontine ut the joints, alowe erect, juinted, Fith but fow bremseles; from two to fonr feet high. Leaces broad-hnceobar, short-petioled, silky, vontire; fiom form to six inches long, and tron one to two broad. Sifules lomer, sheathing the stem, with the petioles issuing from it a little abore its lmse, loberl, having the mouth beartlel. Racemes (eren rally from there to tive, termimal, or from the exterime axille, viret,


 proper bracte, these are mot bandel, Floures mumerons, smill, white, form six to oight at each joint, of set of broves, hat always expanding in succession. stamens soven we eight.


Conttle cont it greodily.
5. 1. !labrum. W゙illd. 2. 4t7.

Amual, suburect, smooth, rerlish. Leates narrow-lanceolar. Slipules a little jmgred. Stamens seren. Style three-cleft. Need romid.

## II. Selovinmin mulela mucen. Rherd. Mal. 12.l. 77.

Ammal, a mation of the samu phues as the other speeies are, but less common. It is a much moro elepant, delioato lookiner plant.

Stems is in the last specios, hat deeply tinged with red. Lereres short-petioled, linear-
 inches long. shipules sheathing, loberl, short, smooth, adhoring tirmly fo the stem; montlo a littheraced, but uot ciliated. Reremes ats in I'. fomentosmm, but lomern, shember and sumoth. Bractes as in the formor, but withont a beard. Flowers mumerons, rose-colourel. thee or four in each set of buctos, apperming in suceesson, heptandrons. Slyle three-cleft, twice as long as the stamens. Seed ownte, compressed, not in the least mgylar.
(i. 1. perfolialum. W「ill.. 2. 45-1.

Mrickly, seandent, perennial. Leaves trimmolar. Stipules ample, round-oval, spreading, perfoliate. Slyle threerclett. Seed round.

A native of varions parts of India. From Sepml the seeds were sent by Dr. Buchanan to the Botance garden at Conlentar, where the plants lhrive well, and blosionimost part of the yeur.

Stem.s and Dramches slemder, se:oulcut to a eonsiderable extent, armed with mumerous,

 of the nerve and reins; size varions, from one to thee inebos eath way. Petiotes as lomg as the leares, arumed. Stipules large, ronud, oval, survomading the brumeh, or banchler inmuediatuly within the inartion of the laves; smontl :mal manomod. špikes ferminal, sulitary.
 smooth, shining lack, hid in thembarged, livid, theshy ealyx, and in that state appear ubery.

It is probably a corrolubas.
7. 1'. Chimense. Hilld. $\because .153$.

Scambat, thexuse. Leares obloner, with trmancite hase. Bracles var-shaped. Peduncles terminal, sulpmaided: flowers in globular predicelled homds.

A natice of the enstern parts of Benerbl. Flowers in Febrnary, March, and April.
8. 1'. rymosum. R.

Shrubby, scantent, ramons, Leares orate-laucolate, entire, acnte, sumoth. Cymes terminal ; flowers in small letuls, orimulrons.

A native of C'hittacente, where it thowers in April.
Seed. 2. Slyle three-cleft. Seed threc-sided.
9. ${ }^{\text {1. }}$ Iencllum. R.

Ammal, Hacoid, rannons. Leares lancolar, with beurded sheaths, Racemes filiomu, fascirles of thowers lemote. T'ube of the vorol internally ribhed. Stamens tionn seven to eight. Styles threce Sied thresesidnol.

Fonnd in ditches, de. low wet places all orer Bengal. Foworing time tha rainy samon.


 terminul, ofteu subpanicled, tiliform. breceles rather remote, obliquely truncatel, ciliate,
ont ~ihe लlandular: Florers -mall. whits. Crool, the muth of its tube contracted with rideres, altern ate: with the incrions at the fi anamts. Stamens eight. Styles three. Seed three-sided. 11. I'. Barloatum. Willd. … 47 .

Bramihes erect, ram ms, sumeth. Leares lancentar, smentli. Stipules beardm, and hairy. Racenev twiz-!, with tiactided of flowtrs rather remote, stameas eight. Style three-cleft. seenl thremonded.

Tolang. Kumba-mallier.
It is a native of muist, or whet pheres anourst the im mutains.
Sh mo mavial, erect, rammus, sho uder, -m mith, from three to four feet hish, joints a little WHCll t . Lermer wher-petioted, lanceolar, -woth, froms thre. to, five inchers limer. Stipules as hair an in 1 '. fonenhosu $n$, mouth much cilicte, the whole outside bairy. Racemes terminat, lon - iwigery short-peduncled: fascieles of thwer- rather remote. Bractes as in the former



Cothe are fom of all the four spetest
11. 1'. rimlizre. Kon. Mss.

Amut 1; hrarehesert. Seums uarrow-lanceolate, pretty smooth. Stamens eight. Style three-cheft. Seed thromiled.

Anum, at ative ot simil rplace u it the lat two species, has nearly the samm appearance




 as the नthmerns sied theromidnd.

12. 1. Mavidu I P.
 cilinte. Sta mom tight. Style threrechefe. Neal three-vided.

Bt.1. Pronc m 1 in h.






13. P. H.gens. R.
 mod thretedett. Dis d threr-aided.






 ancin.

## 11. 1'. homid n. Buch.




15. $1^{\prime} f$ egur:
 atwer of the mint carmit


> COC(1)l.1)li.1. s.fir.l. afen. H. (i;-

C. Aippata. Buetl.

 pedrank le.

A mative of No pal. In the Bonanic emanem at Calenta is. blowoms during the cold season.

## 

Ca d.e from four to tive lowival. Corol for-putallemb. Aectary four-leaved, unequal. Cap-

C. haliontannon. Wild.
sran hith, tivenemed Le ters compound, gashed, smonth. Temelrils umbelliferous.
Sung. Jiotinhm ucer. rection. In at cultivated state it is qemerally promed very elose once in two or there years, which makes the branches shoot more arect, bat takes aw:y from the native bosinty we the tree, and rembers the shade when in foliage much less extensive, than in its uatural statu. forares altere



 ing. Flowers suall, purple, inotorons.
 are on the same tree, and exen mixed on the same raceme; the male are by far the most m-

 spreading. Filaments eight, spreading, rather shorter than the prtals. Authers watio (ifome superior, oblons, one-celled, comtaming ome ocula atachol to the top of the cell. Sfules time,
 when ripe wed, onesecelted. Sut the shate of the berry, one-cethed. Seed contorm to the mint 10 perisperul. Émbryo invorsce, curvod.

M wie. Coly.", Corol, and Stamens as in the hermaphrodite. Pistil the mudiments of $s$ germ, with a short, fiour-fontherl style.
 enontre. This colomed pant is serviceable for matny teses, and looks well. The white wool is fit for mo the that I kuow of.
lron wounds in the bark there issnes a grm, which, when dry, is matel like piesees of dry ghos but I know of mon her it is Int tu.

This is the tree Dr. Anderson calls Wrodur in his miscelhnies.
II.

CLASS IX.
ENNEANDRLA MONOGYNLA.

HACRUS. Schreb. gen. n. 688.

Calyx one-leaver, six-eleft. Corol none. Anther:s fomr-walled. Germ superior, mocelled; attachment superion: Berry superior, nue-sected. Findrys inverse, without perispram.

## SECT. 1. Leaves opposite.

1. L. Cimuamomum. Will. 2. 477.

Leares npusite, ovat(-oblong, theremervel. Pauicles terminal, with the extume ramithcations three-flowmed. Vectariol glands sagertate.

C'innmomum foliis latis, se. Isurm. zeyl. fie. t. 2\%.

Lia se Furome of the some.




















## 



















## 

 terminal.

A mative! the. Whlatar metumins.



























## Paga $\underset{\text { Parey }}{\text { Care }}$ Ed.

Page wa is peltate, hire threr: lubet.
Caroy i. L. multittora $l$.

 gittate. sfighat peltat.
 the only tirme known (o) methet 1 (am will retir 10.
II
 ("imamen; vet! math drem them diatinet sperese ior ile reason mentioned throughent tha








 ma lierse, peltinte.

ј. 1. culilluhan. IFillत. 2. 178.





















(i. L. nilider. li.
 low the leares, with simple, thee-dowered, ramifications. (flambs ol the fumer thanents pedicelled.

Cissin Coolit manees Menestron's sumatra, p. 12.).



Trunk straisht, in ome yomr trees the bark is yet quit smath, anl of a tromish ast-









 guishes it from all the other species of this srems which I hate set met wilh, for in whe the rest ther are se sile.



 green. I'lumula comice, there-loled. Radicle rommdish, superior.
7. 1. rectirctit. K.

Shmbly. Lemes subopposite, orate, loner-ponintm, with the two lateral nerres eraneseent

[^12]
## Leturus.

ErWEAMDRY MOXOGPMTA.


 time thio hot stavor.




 Dut is.
 er than the ore of do lox. and the brik still mo me wo.
4. I. abturityliz. $R$.






 protqume.















 है?


 ther rupos.





















## MLCM -1 ins ullomite.

## 








the apearmee of a fine who oak. I saw about twenty of then, bevides which many have been




 every refise pisee, and sublime, or distil it with water in an iron retort, covered with an carsthen, or wooken hem, in the envity whereof hay or straw shonld be put to which the canphor ats it rites wonh adhere. See fiamp. Amuen. p. 772. Thunbery, de. anthers who have writtell out the sulyjeet.

The Leenes are nhtemate, petioled, orate, and oblones-lanceolate, smooth, entire, printed,
 ine about the middle of the leat; they are form these to four inche lons including the petiote, which is from a thind to a fimeth of thr whole.
 small, altermate, corrmbition ramitications. Flowers humerons, all hermaphoudit. that [
 glandes, stamina, pistit amd berry exactly al in L . Cinnamamum. Sien the deseriptiom therent.
this speries firm all the others I have yet mot with.
This is fir removed from the famens compher tree of sumatra, which is a Shoren.

 axils Rom mes axillary, noctarial glants contolonte.

This shew frowing, handsme trep, is a mative of the Malaty I-hanls, and was intromed
 only eisht or ten feet hisch, cluthed with simending batmehes down to the remmet. They muw begin to blosisom in April.

Trank in our yomer trees slont, varinuly bent, dividing into many, fitr apmadine, ramons. banches. Bark of the ohlest wouly parts mather scmbrou-; of the young shooks sumeth,





 eal bads are formed. The haves, bark, and suceutent parts shetl strongly of camphor



 immer thre filaments, sessile, conglolate, and yellow. 'The other thre pairs mre samble and attached haterally to the very base ol the inuer there filanents. silcmina :1s in the uthere spectes. Gerin superior, owite, one-celled, containing one seed, uttached to the top of the cell. Style abont as long as the stamina. Stigma three-lobed. Berry sub-globular, si\%, mad colonr of a black currant. Seed solitary. Embryo iuverse, withont perispern, de. as in the gemms.
11. 1. glaucescens. $R$.

Leares altemate, hamow lancenlate, triple-merved. Frouers in latemal finscicles.
A native of the northern Circan monutains, belisel hajantantrec.
Laurus sylvestris. B. $I$.
 tomentose (with is tomentuse sealy bud in the centre.) Decharial glands, broad-cordatesagittate. Berries splurieal.

Orook, the vernacular hamm in Silhet, Where it is indigenms, growing to the size of the mange twe. It flowers in Febrasar, and the seed ripens in April imi Niay. The timber of this tree is mute ne of ly the matives for marions ectomomicul purposes.

 tri or triple-nerve labit,) from thee to six inches lomar, and two hroad. stipules nome.

 nate, dirdrotomous branches; cancla division tluen-flowered, and one in the fork. Braches suall,

 viz. sis forming the exterior scries, with the sicle of the antleres contaminge the finur permi-



 sulitury, romme se ns in the gronns.
$1 \because$ L. portrela. $R$.

supituate. Nigan three-tonthed. Berries romat.
















 nime ; sis in the it rion ries, iusertal on the lase it the disi-ian of the alsa, and these









is 1. Stimeltra. It.
















## 11. 1.. wil \& $/ 2$.













1.). 1. belace heris. 1:.













[^13]










 abment two inches lomer, and one in diametore smonth, when ripe a derp dork pmphe, cowerd

 nome. Fimbryo inversic. Cofyledons conform the sed. Plumule of two minute lobes. Radicle romatish, superior.

## ANAClithll M. Schrel. genc. n. 158!.

 ment lateral. Nul renilorm, resting on a Heshy receptacle. Eimbryo crect, without perisperm.

1. A. oecitentule, Willit. 2. 148 F .

Kiapa masis. Mheed. Mul. 3. t. it.
('nswnvinn Rutuph. .1m), 1. 1. (69.
Hind. mad Bray. H! !ulee butam.


11.

313 of the seat only, where the soil is almost pertiot simd. Floweriner time Marelh and Aprit.




 eal, small, and of the same size :and "xtmal appemance. 'There may be trew which inentuce



 the lengeth of the whers. - Inthers, they appar th la all furthe, that of the maje filanent

 beconinge comolute, as if to brine the simple stignm inte comt et with the large anther of the long filament. Pruit is deseribed and figurel, by ceret. col. 1. 192. t. to.

## 2. A. Autrierm. 7 .

A mative of sumatra, and sait to be a lare and bematitul tree.

 ty harer, and composed of a tew, alternate, compomad, and simple combiterons manil at ins.


 six, eorreponding with the muber of prials, inamted on the reveptacle below the ge rin, father

 sertion of the long enrved style. Stigma simple.

## 

Callys threc-lared. Corol three-petathed. Fitanments petaliform; the inner there with glands at the base. Secfarial glends thres, alternate with the appendaged tilauents. Diepo inferior, mer-sechath.
(. filiformis. IVille. 2. 157.
trititom. hax. leathers.
Acatsiai valli. Rherel. Mfal. 7. t. 4.f.
Suns. Akasharuli.
Teling. J'amuch tiga.
A thrent-like leathess pamatic phant, fomm groming onf, and twitting rourd the lyanches


Spikts lateral, ascerding. Flowers small, white, nuther moto. Bractos throo-fold, em=
















## ENNEINDRTA HEXAGYNIA.

## 


13. harenlitws. ls.




## CLASSX.

DECMNDRIS MONOGYNLA.

## 

 nechlie -athes.














 seel iu tat $h$.

 I'. Irizteits. R'.

















Parg
Carey
Hid.
11.

318






 ofler Leguminosas.

## B.ITTITYTL.

Crely, a spatlaceous horiler or tubular basa. Cural irregular, five-petalled, expanding. Anthers incmmbunt, bursting longitulinally on their sickes.

## SECT. I. Trees or Shirubs.

1. By crmdida. Willd. 2. 510.

Arborems. Leaces fommdish, rlowny unlerneath. Lubes obtuse. Panicles teminal. Segmonds fitm, all fertile. Legume limura

Hind K゙:1111-r:a ja.
A shatl hambanme free. I have only fomm it in gardens, where it flowers abont the hegimbiut of the let satisth.
 norved, the midelle one amlate in a villons bristle between the lobe- below downy; foles onal,





 Legume linemp, contpresich insuth, miany-icerled.
2. B. ariequtre. I'illd. 2.

Arborems. Leaces swawh, shbrotmat with ohtuse lobes. Racemes tormimal and axillary. Petals bumbloumitiom, with wated uarrins. Ntemens five, all fertile, Legune linear.


Beng. Ructa-k:un-lını.
It is one nt the mont stately of the exems, growing to be a tree of momsilemble size ; I have only fomel it ingrdems; where it is indigemons I camot say. lifurering time the monts of Fobmary and March, the somb rimens in April ame Mas.






 stramer five, all tirtile, smetimes there sure the mimeterntiments of from one to five abor-
 from six to twelve, mproximate, or otten with the anterior edge of one resting weer the porturior edtere of its mefithtrom:.
'This tree ean omly he said to dibler from 13. candida, in the colone of the flowers; hatd I met with this tirst, I shomb certainly hare consibered the other as a variety only.
3. H. purpmert. Wंतlld. 2. .:11.

Arhorennw. I cares nimoth; lobes ohtuse. Fïlements ten, of which three or four are large and fertile: Premedes tomnimb. I.ognmes lincar.
(Thovamia-minularu. Rheed. Mal. 1. t. 33.
Iliun. Sona.
Beny. De: $\begin{gathered}\text { ( } \sigma \text {-kanclon. }\end{gathered}$
'This I hate not only fomd in gardens, but also wild on the monntains, where it grows to be al lare tree.

Lerrors altarnate petioled, nearly hifarioms, smontly on both sides, from nime to eleven-





 there of: fomr. lanee with firtite anthers and six or sewen small sterile filmments.

1. 2. (riamdren. R.
 Petals cun ifinm, obtuse, longecliwed, margins nawed, sul curled. fortile stamina three.

## Y.f.g me hiarat, many-semated.

 roulure, the ... 1 riph in in Mare h.












 frin titiov! ! M.
5. B. mitabursicn. R.








(1. B) , M1 7 . $R$.

 stritul.

 Sulpmbr: हl - and rip an in Nath.















 pratles.





T li.at trmo.













vitipules set.tecolls.



C'anschena-pous Hheed. Mal. 1. ८. 35.

A native of Malabar: Coromamlel mountains, sce. In the Butanio gateden Crdente, it is in blonsmat most part of the year.






 ascemding. the lompth of the pistillum. Authers ten, all fertile. Legume lamerolate, villous, from tive to six -serded.
9. 13. acuminula. Willd 2. 511 .

Sbrubby. Leares swith holes somewhat pointed. Racemes laterifolitas and terminal. Shamens ten, altermate by shomter. Legumes luncolate.

Vehnta-mandirn. ITheed. Mul. 1. p. 61. /. 31.
Beng. C'anchun.
Hind. C'uchemar.
It is a small, ramons tree, or large shrub; whole height from eight to ten feet. It is in fower most part of the year.

Trunk sancely an!, bit many large banchue epend in every direction; hark greyish
 in a short bristle betwem the lobes; smonth above, downy maderumath; iobess chbong. someWhat pointed ; fiom two to fon incher loner Pedioles chamellod, swelled, and jointel at the




 five shomer mos. Anthers mpal. Legume oblighey linemr-lameenate; upper mampin threekeeted. Seed. from eight to twotve.

Sote. The pistillum is oftom minate aml abortive. This species ditiors fom comdida in
 Flomers with ten firtike stamens. It is a very specious phan, well deserving a place in the gardens of the euriuns.

## SEC'T. II. Scamdent.


Seanlent. and of inmense watent. 'lombrils opposite. Leroes cubrotund: lohes ohtnae, downy. Revemes corymhiform, termanal. Staminu five, thres of then fertile. Legume linear, lignems, very towny:

Ifind. Slahwal.
Vap. Boila.
Telimg. Mdda.
The largest and most extemsive erefper I have sefu. It is a mative of the mountainous parts all ower ludia. where it rums orer the highest trees.

Trumb ottell as thick as a child's waist when ouly tem rears old. Bark bonm and rongh.
 with remarkably solt down. Lemes remarkably larere, abrmate, periolerl, Aw-Ethed; lokes rommed at hoth cmels, downy with a midhe nerve, euding in a soft bivite between the home; size often a foxt cach way. Petioles round, doway. Tendrile opposite holow the latrea, whely,


 below each pedicel. Flowers proty large. when they inetopen white, bint gradually heroming


 withont anthers. Germ whomes. sessile. downe. sylye shbulate, rather shorter than the tila.
 two and a hatf to there broad, ecmpresed, wody, covered with mmelh, dark hrown, woft welwe like down. Seeds from eight to twhe, orhicular, flat, smoth, brown, about an inch in diamoter, and onesixth of an inch thiek. They are eaten raw, wholl rije, the taste is like that of Cushell-omuls.

The leaves are employed to line haskets, and varions other sorts of packages by the hilt people, where the plant grows for which they are well atapted not only on aceonnt of their great size, but nlso on acenme of their being remarkably firm, tongh, and dumble.
11. 13. scantens. Willd. 2. 58.

Geandent. Tendrils upposite. Leates romud cordates apex two-tobed. Raceme terminal, simple, of ranoms. foner's triambous. Laqumes linenr, from four to five-seded.

Folimm lingur. Rumph, Amb, 万. p. 1. I. 1.
Gimdr-gilla the remarular name in Silhet. Where it is indigenons in the forests of that province, rmming up, nud over trees of the firt magnitude. F'lowering in April and tho soed

## rigeninz in Oct iner.
















12. 13. piperifulis. $f$.


 Fonts a! fut the in filaturg of the cold acaroun.
13. 13. anfluitt. If.

 from whe to twor celorl.


 dellt apeciem 11 (w k kimb





















 Limb yo colvell, ile as in the whete.

## 


 recedral.
















the lower edpe of the month of the tuhe of the calyx, onnecelled; ornta many, attached tef the unper marerin. Nytute short. Shigmathrese. Latyme thin, from tom to tibe in lhes longe, and

15. B. semilifita. $R$.

 sumoth, fow-arcl.rl.







 Forers whit", chancing to pand pellos when the tamina drop, proty lates openime in she









 Hait, and smonth.
16. B. Jerruyinea. 7 .

Acambent. Leentess submennd, two lohecl. Ruermes tomimal, solitury. Tendrils sollitary,
 sterile.

A very larse, wooly, seandent species, a uative of the Malay lslands, \&c. alout the strats of Malarecu.
17. 13. intertrifulia. R.
 Filaments five, there with mothers, and two strile.






 pale ? ollowish colour, Brectess solitury, one-Howered, ohboner, conc:ase: conlucons. (ontux with at thblar hase. Border often divieled into five parts. P'thls oval, uhequal, wave expanding-

 Germ pedienlled, wery hairy, from three te fom-seded, inserted on the lower murgin of the mouth of the tube of the calys. stigma peltate.
15. 13. cardifolia. R.
 Flowers triandmon, lons-predicelled. stigina pelate.

A native of the Moluceas.

## C.SESTA. Tourn. Gart.

 slits on the front.

 muler the old enemerio name (tassice amd the latter Aemm.





 and a rentrinusal ra liche.

1. (. fislutn. H7̈ld. थ. p. 518.
 partitions limed with soft swect pulp.

Siens. Si(m) vimulist.
burng soondali.

## llisad. Iumituan.

Pago
Caroy
Caroy
kid.
7 ling. I'ela.
(mant. Rheed. Mal. 1. f. 20
A matise of varioll garta of the Bast Indies, as well, 1 precume. as of the west ; as yomber

 anonth- antravard.

Trunk short. But smenth, of "lizht a-h-fol hor. Branches wnomeron-, spmeabine in















 ner. rol. 2 f. 313 / 114.

 young, linely zrantidiane.

## 

 part'tion-limel wit fithe lu!


 ร1มi?, Var-h, is 1 Ifrl.























 of the trees.

## is (i. nitsen. lirme.


 ther midll.










Page
 three quarters of an inch in diancter, coneme with recry dark hrown, rathor anouth, wose
 is the only distingnishing mank. In this section the cell- betwern the serenty or cirlty par-

 simple, when tresh rather soft :and tomerh. P'erisperm of atomelh, oft, horuy testure, and brownish colomr. Einbr!yo staitrht, vellowish. Colyleduns two, oral, cordato, therenerved. I'mmala two-lobed, one large, and pimatitid, the ofler a minnte point. Radicle oval, lorlged immediately within the umbilicus.
b. ('. marvinata. $R$.

Lerflets fiftern pair, oblong, marcined. Stipmles semisaritate. Rascmes axillury.
 all in 1802, where it bosoms during the rans, whe ripens its setel in Marth and April. The tres is at ull times monmmonly heantiful and [mrticularly so when in flower.

 branelase, and branchlets hifiriuns and horizontal. Bark of the larger beanches aremith, :ath-

 from ten to twenty paits, lineaneohburr, often emarestate, a lithle rilloms mokernath, baving the masgins coloured, and somewhat thiekemed, abomt one inch lomg amd half an ineh broad. Petioles clammelted, villous, with erlands upon thom. Slipules semisarittate, hoth burbs and
 Bractes tern, lancolate, the imere two on the base of the pedied, and math suather. filumers
 there on the upper side and twon on the muler. Stanina all semifertile; the there lower mes


 inches loner, und us thick as a man's lithle finser, comerol with a dark hrown, torone somewhe ligneons laik; divided by transiopse purtitions, into thirty or Forty cells, in which is loderel, a suft, white, spougy subitance which involves the seds. Seeds solitury, ubovitu, size of a amall pea. Jutequments sinule, shoreth, light brown. Perisperm. contorm to the sect, soft, ant tomgh, divided to the base into two lobes by the lage conjledons. Eimbryo struight, green.
 ver rimerqual lobes, the largest pimatifid; the smalkest a mere point. IRchliclo romndish, immodiately within the umbilicus.

2．：ulsus．$R$ ．
liemind．channy．Leaflets two pair，olonate．Flowers pentandrous．Stamens five，cyaal． Legurgex atmingt．hairs：via－seeded．

A small hion triemial，ramous species，every part of which，the leares excepted，is cover－ ed with alatinens foni－





 luiry，it mherl．is is blak．

## 3．$\therefore$ Ture Fi ．






Brong．Clakzulia．
T•位y．Tin rin．
Ihtile nurn romet than the last，und a mative of the same country．In flower and seed great part of the year．

4．\＆tornile．$h$ ．
Amaul．Lestlets there pir．cun ate．Ax vate，an anhulate gland lutween the lowir prir
 xear，fyur－aid． 1.



















is ATHiala．i？

 tust，prmbulus．




1i．$\therefore$ hi rupsuluris．$R$ ．




1 g－vin licmp ul wis．W゙ill l．I．Elts．

 aut（belober．

7．A．purpuren． R ．
Anumb，areat，sumeth．Ieafete from finur to sis pair，lanembar，on hemispheric glands
 тивиу－svederl．

Page
Carey
Ed.

Ben\%. K:ala-Katkaminda.
Tr.ling. ('mulis knshimel.s.
d lares. exdel, moms, mmal speries, a native of the mountamons parts of the Ceast.









 inferion one is sumb, and sterile. Shigma incurved, pertural ed. Legunes sub-cylindric. Seeds very nmuserons.

九. s., occidentalis. $R$.
 dark hrown, polished, hamisplacrie shat ou the tamid base of the petiole. Leymane line:ar, sulx. .lindric:
(Gussim orecidentulis. Willd. ㄹ. 518.
A moter of Benzal. Fiowimery tine the rainy season. The smell of every part heavy and otlemive in the exthent.






 Foncers tominaland axillary. when ferminal they form an unintermpted raceme ; whon and-




 rattan and hearly eylindric. Seds mumerols.
!. s. obtust. il.
 lamerolates. Reacemes axillary. Lerfome lmate.
('assia semm, Burim. iI. Ind. 1. 333. f. 9.
A native of the hight drye menttivated hats of Mysore, where the leaves are meth as a
 nic garden ut Concutta, where the phat thrive well, llowering and ripening its seed most part of the rear.








 sict spumes.
(1). A. a-forescens. $R$.

Arboreots. Leathes tive or six pairs, whong, with a perlicelled eland between rach of the lown two or thim pairso stipules faleate. Racemes nxillary. Lagumes linear, thin, penduluni, many-seded.

Cissia intronesedns. Willd. 2. 520.
( $\because$. Glamara. Lamatreh's Eimothl, 1.61\%.
Widlin tarem. Rheed. Mril. (i. 1. !3. and 10.
It is a mative of varions parts of India, mad in hoseom in the Botancerarden at Calenta most pact of the vear.






 of latlets. Nipules faleate, incmever. Racemes axillary. senlitary. ubent half the lemoth ot the




 starter - of ut inch liroad.
11. A. mblicimalis. Grumy.
linmint, ramums. Leqilete six-pairet, lanecolar, uo glauds. Stipules acute, expandinr.
Racpones axillary. Ifolu ues uhlong, incorved, thin.

Aruh. Sinns. or suma.
A hative of the inturior of India, ts well of Irabia, \&e.
$12 . \therefore$ esoulent 7.
Ammul, cruct. Jempipts seven or eight pair, lancoolate, aente, Racemes teminal, panicled.


Tiley. Nutere-havimilie-hura.
A large, erect, ammal, much like easwia sophora, but mot so very ofiensive in ita smelt. It muw - Bhont loalges, rubbinh, de. with that plaut, but is mut so comann. Flowers duriug the coll - x का:










utives
1.6. ड re phoura. $R$.
II.

 stamiut sterile. Legu ip limatr, eurgil, many-serdind.

 call li ila hal kathmala.


I מative wf 13 natal, de. Flow ring in the rity and entd seawn.
II. S. speceiont. R.

 leati, !imar.
 most phrt ot the: some.






1.s. S. sumatrantr. $R$.



















 a dark shinisy brown coluwr.

Pruse



$16 . \&$ umion ulala. $I_{1}$.




 flostr demter the wholo of the ye:all.











1\%. A. alater. I?.





Sums. Winlucurrlatio.
Hind, :minl liener. Diad-mutclunt.
T'ルл. Wiantu liolli.
Treling. Mittal tallletas.
























$18 . \operatorname{sig}$ glatucre. $l$.


 oms in the :remit.









 corymbe.








$1: 1-\mu, 1!R$










 h.ets.

| 1 | 11 |
| :--- | :--- |

-1! - Ahri int Buch.




 yir li i il: i, oi












 W: 4 : 111.










 bry difter vit The| $1 \mathrm{hy}=\mathrm{m}$

## 














 f. $11,1,1$, 1


 or even mutce secels.

## POINCTANA. Sclureb. gen. n. 501.

Calyx five-leaved. Pelul.s five, mequal, the highest honger clawed, inore beantitilly eoloumed, and frimged. Stamina lung, asecending, nakirl, ull fertile.

1. P'. pulcherrima. Limn.

Shumhly, armed. Leates bipinnatr. Leaflels oblong, cmarginate. Ruremes terminal, corsmbitimu. ('law of the uper petal tubular. shemina much longer than the petals.
('resilpiniu pulchervina Ld. sp. H゙illd. 2. 531.
Trutti-mundarmm. Rheed. Mul. 6. I. 1.
Sions, Kirishan choom:a.
Beng. Krishata-choora.
Tan. Kоин'́.
Common in gatens ull over Indis, und in flower and seed the whole yemr. Fhants rearmd from seed from tho West Indies do mot in any respeot differ firm those of latia.
'The truak of this little tree or large shrib, when old, I ham foum eomstant? hothon, and oceunced by a large red dark brown ant. From these, whan distmbed, they isuce forth in mumhers, met hy their hite intliet a severe and paintin puni-hment on their disturhers.
2. 1'. elalk. Lin. Npece is it.

Arbrients, manmed. Leares bipinatc. Leaflets linear.
Cres:1! innia elata. Willd. 2. p. 5:32.
A native of Coromandel, where it boseoma during the dry semson.

 twonty to thinty fect. Leares alteruate, bipimate, nbout sia inches lonf. P'unce trom six to seven puir, opposite. Leallels from ten to twenty pair, smeshe, opmoite. Jincar, sumeth; abont
 withont glands. S'lipules minute, subulater Raqumey derminal, con yonhiform, simple, few-fower-
 Iy $x$ divided to its fleshy hase, into tive, "atul, lanecolate segments, which are villons on the inside. Petals five, inserted on the the sly hate of the waly, of whith the mpere ome is sumbler,

 inserted on the calyx, within the petals. Autherw incmubut. Germ sesile, linear, vilhons,

 which have then a difernt direction, ufterwards ascending, when the filaments beconte derlinate. Slighac small, turbiuate.

## C.LESALPINT.A. Schreb. gen. n. 703.

Calys, h:ise permanent ; border five-parted, and decidnons. Corol irregnlar, five-penalleil, the upper one smuller. Filaments womly. Anthers all the ten fertile, and unem an their sides.

1. C. Suppan. Willd. 2. 533. R. Čorom. pl. 1. p.17.1.16.

Arboreons, armerl. Leares biphmate; pinnce from tell to twelve pir ; leufless from tan to twele pair, somewhat dolabriform. Panicles terminal. Legumes ligneons sub-trapuziforn, from three to firur-seeded.

Ligmum suppan. Rumph. Amb. 4, t. 21.
Sams. l'atanga.
Trling. Beng. anm Mine. Bukkum. This is also said to be the Arabie nul Persian name.

Foumed in most parts of India, and its islands. It flawers in the lont season.
2. C. Ronduccrllar. R. Fleming in -tsial. Res. 11. Lis!).
scandent, amed. Leaces bipinate : pinno seven pair ; lectfeds nofht pars, ovateoblong. stipules large, and pimmtiticl. Bractes lancenlate, retlected. Rucemes simple, above the axils. Legtumes mimed, twowedul.

Puticaman. Asial. Ress 2. p. 351; also 1. p. 2 © 6 . and 11. 159.
Guilnulina bonduccella. Linn. Lamare\%, de.
( Alobuli mujores. Rumph. Amb. ت. 1. 49. f. 1.
(metti. Rherd. Mul. ㄹ. t. 29.
Rerag. Nata.
Hind. Katkampua, Katkulija.
The plants reared from seed from the West Indies, proved to be exaetly the same. The seed is a powerfinl tonic.
3. C. oleospuerma. $R$.
sambut, prickly: Leares bipinnate; pimme mud leaflets cicht pared. Slipules subulate. Legumes unimmol, from two to three-secdecl, and welled at the seeds.

Beng. Emel-hoochi.
Teling. Noouce glika. Nooner menns nil, oily.
 flowers during the wet selwonl. The steds ripen in Alareh und April.

Sten aml beanches climbing. woody, armed with matus small, sharp, recurved friekles.

 linearoblonig. amonth, entire, abont one-thire of an inch lonse and one-fith broal. Pefiole common, are trephently armed with sime, amall, cattored prickles, mal there is gemeatly a


 Filuments iomlly, altmately shorter. Lagume smoth, whomge whigucly juinted, wry pro-
 owal, shameth, shining, hard. about the size of it lirge pea.

From the seade, an oit is expresed, in sume part of the commery, whely is used to burn in l:mpe
7. (. smeullata. R.

Wrambut, momet. Leurps hipinmati; pimme from four to six pair; leaflets from fom to


















 whon- the wh le lemagth of the harek. An ds on or two, sth moth, light brown.
3. ( $\because$. si ora. Riwh.



















 the umbili 1 .
(i. (' npliarict. $R$.

 sceelerl.

 ing time in licugal ther cild :asin.







 leaf or two beluw tho flowers. Boactes solitary, ovate lauceolatr, eatheons, one flowered.

Pare tatyre with, the divisions wefexed, colonemblike the comol, amd about half the size therenf.









7. C. ekinensis. it.


 these fire or six yens and las not yot blossommed.
8. C. bomalic. R.
 to seven pair, owal, lucil, mucromate.

 Calemta withant han ing hossoned, thongh in perfect health, and of areat extent.
4. ('. Astypincter. R

















 Gomer divison of the border mod laper than the rest fla base only permanent. Cord the




11. ('. annerpheyllic. $R$.




















11. ('. pmamialuta. R.


kitku-nmllu. R/ue d. I/ul. (i, ). 1!!.


































13. ('. '" rict s. $k$.

 Let 11 i $=1+11^{\circ}$ 1, +h




















 and -1 $n^{4}$.




7: 1- - K
 Erite et in 1. .1 $\because$ 1. 11 is ?.










## Puge Carey

 da.Care
! !.
360
DFCANDRIA MONOGYSIA. [TIyperanthera, Gertnera,
Anfoncentlerice.
gives them the appearanee of a hurge terminal leatly panicle. Flowers midhe sized, numerous, white, beantifully tingex with red. Caly.r colonred, us large as the corol.

## H5PERANTHERA. Vahl.

Caly. five-cleft. Corol irregular, fixe-petalled. Stamina nuequil. Capsule superior, ouceelled, three-valsed. Seed.s wiugred.
H. moringu. H'illd. 2. Eint. Asiut. Res. 11. 1fix.

Arborents. Leares smpuleromponmed. Half the stamina sterile.
Guilomlina Moringa. Liun. Ilamy. de:
Anmm: Mominga, Louries. Cinchin C'h. 313-1.
Momringen. Rheed. Mal. (i.f. 11.
Stwhanijanm. Asiat. Res. 4. p. 277.
Beng. 今̌«jana.
Tram. und Teling. Momuga.
C'ommon in an cultivated state all over Indias. The leaves, flowers, and tender seed-resselt, are caten ly the matives in than emrice.

A red thowered species, or variety is found in the vicinity of Malda, its Sanscrit mame Dludhoo-shigroo.

## GKRTNTRL, $\Omega$.

 spaled, int arhmont subsuperior: Capsules three, superion, "ach three-winged, and une-seded. Embrya inwerse, without perisprem.

1. (3. racemosa. Willd. 2. 5i1. R. Comom. pl. 1. p. 19. $t$. 18.

Leares owate-oblones, arute. Two exteriur petals oblong.
Antimuctat Asint. Res. 1. p. 282.
Banisketia Bengrtemsis. Limu. ap. pl. 611.
11. Madul lota. Sonneral. F. 2. p. 23s. 1. 135.

369 Molina memosa. Lamarct. Encyctop. 1. 227. and Cavan. Diss. 9. t. 263.
Sida-pou. Rheed. J/al. 6. t. 59.
Teling. Veedal-tshittu.
Beng. Muthura-luta, or Madhuthulutir, also Mal tee.
Fonud in carions parts of ladia. It fluwere during the miny and cold season. The bloge *oms: are nucommonly beantiful, and exceedingly frogrinut.
2. (1. obtusifolim. $R$.

Leares ablang, obuse. All the petals romat, the lower two expanded, the mper three reflex.

A mative of China, and from thence brought to the Butanie garden at Culenta, prior to
 of comsiderablu size. Flowerius time the month of lanch. Sts blowems are sinaller. hest bematifil, and not so fingrant, ns these of (ry. racemose.

Flowers of tive petals, the lower two, more "xpanded, the upper three eompletely reflexal,
 base where two earved horntets projed in toward thestamina, the other form are white. Fita-
 sipurior, three-hbed, cach lolice erowned with ome larger, and two smallor, st milumar, hairy proceses, which in the fertile lobers become wing: cach lohe contains an siugle seed attarded to the imer and mper angle of the cell. Style ascendine, yearly at long as the lume filament.
 shobrise, willons, and of atoft chaffy textme, thee-winged; wings lamerolate. scariose, ont of them larger betweon it and the base is a small scar, the mark of the attachment of the stye. Sieml single, rombl. Intergement single, tomede, lirown, nttached to the samara mader the remains of the style. DPrivperm none. Embryo inverse, vellowish. Cofyledons. conturn to the sed, mequal, and sometimes divided. Plumbla two-lobed. Radicles oval, curved up, and pointing to the rertex of the seed.

## ADENANTIFERA. SChel.gen.n. 707.

Caly. five-tonthed. Corot five-petalled; a glubular gland erowns the aper of each anther. 1. A. pavonina. Willd. 2. 550.

Cummed. Leares bipinnate; leaflets smonth. Racemes axillary.
Sians. Koochunduna.
Bray. lineta-chundan, Kunjuna, which means red smalal, whereas we consider Pterocar. pus Sanlatimus tu be the twe which yicded that weol.

Mandsjadi. Rheed. Mal. 6. l. 1 i.
Comollaria purvifolia. Rumph. Amb. 3. f. 109.
Fouml in rarions forests over ume pants of linda, It grows to be a very large tree with nu ereet trunk, and when old, dark-colonmed scubrons bank; while young, smonth. The interion wod of lare trees is of aderp red colour, wery hard and dinnble:
fecres ulternate, abmptly bipinmate, from one to three feed lung. Piance opposite, generally from fur to sis pair, weh from four to twelva inches lour. Lechlets alternate, short-








 linge tha thont ont at ite it stome.
$\because$ 1. woteat 1 R.
Ir. Mon-, prickly. Iemere hij inmate, shath. legumes celindric, replete with a fario





I'rumpic arolleatro. Asiat. Res. i. po wo.
Prowitin armintro. Kom, Mss.

## Teting (limen.




















## 








## 






forl kiy.



















## Page




 A：ai）．Sulal．

／heal．Sitnai，il－o Irounla．



## 





 terminal．erlobulat：arowded．



Telin！／．Naseri crulmusi．





 ＂lが：







 ：j）（r．til．

2．11．N＂matialur．IR．
 Frinallo．Flunrow terminal．



 ye：tr．

## 




1．13．Fölligii．If illd．2．万l 14.
Lomeflode olitiphely lameenlate，sermate．
Beity Bursillert．










 of it．





ב．13．intrijerisind．Bmi\％．
Arboreous．Leafels entire，with long tiper points．


 Ihxan.ill.

 ":1w





 taly, warly in litre ga the luay

## 


 wre. with it fu: ipmorm.




I FII 1:




















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 actuminet. F

 the l1 10 at... $1 \%$.








Page

## Cirrey

 jid.
Carey
11.

 the sden :

f. L. secumtens. I?.
shrubby, semblent, urmad. Leates temate; legflefs lanceolar, entire, smonth. Berves three-semeted.

Sicus. l.uvinura-luta.
Lankrphon of the natives abont Silhet.

















 ovate. superiox.

Previousth having seen the pericmenimn of thi phat, an inermphete dracription and drane





Unarmed. shmbly. Leares pimate; letfeds ahomi five, stibatiternate, ohlonge, entire. Emooth. Bervies with one or two, rately there, perfect seets.

Toling. (illhus:

A vir? ecmmon shrnb ever? where, and in flower and riper seed all the year". The small White thowerate sweetly frationt.
6. L. arborea. R. Corm: pl. 1 GO. 1. 85.
 ries with orie or two pertert sopets. Ticting. Kiondat (inlmisa,

A native of the Cirem momatans.
7. I. ゥomelala. R. (imom. pl. 1. p. (in. t. sis.
 petioles winged. ('orols tinn-petather. Burcies with from one to four cells, amd one sede in entich.

Limonia acillissima. Mant. 380. Willd. 2. 57ะ.
'T-jerou-knton umigam, Rheet. Mel. 1. t. 11.
Tcling. Toretery.
An elegant small tree, a mative of Coromandel, Malabar, \&e. Flowering time the lint season.
S. I. pentag!nna. R.
 tary shont, cremulnt Berry with from one to five lubes, and as many aceds.

Triay. "hitreka.
A large timber trec, 4 native of thin Cimars, Bengenl, \&e and in flower during the hot season.

COOKLA. Ret:.
 twn-secelad ; attachment intriur. Berry superion, fise-seded. Eimbryo inserse we perisperm.
 1. $(775)$
(Lunaria lensizm. Lom?. Corleia) Ch. 331.
(thin. Whuntr-pi.
A 'himese finit tree, now whmon in Buagal, and varime other parts of hadial. Flowering time the legiming of the hot semsin ; the fruit ripe in there or fum months after.


















## J：（バ川V：L．L．1．（1）




 1：1uhur－h

 ine netar！．
（＇in－trin：u h remenen Willil．\＆iti）



11 1 1，th＋1！
A 1 皆





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rlim．lise p．．．hits：

 dumine the dry \＆（－a）a．





1．B．Ítifuli）．R．
Artwremis．Latery aval．
Nexs．ant Romg．Pigat，the name of the tres．



Tifing．＂hrir ormambe．



 Fibrnar：








Page
Cires
Cirey
11.

386









 stitutr fire almomels. :thomer-t the matives.


I native ut the math cud of the Feninsulat ot Inclia. Flowers in June, and the fionit tukes nealy atwe vaile to rome to maturity.

## 3. 1: Iancifulia, R.


 untives in their emruico.

## W.ILSTCRA. (R.)





1. IV. reletala. R.





















 trimeate。 \&uperion.
2. IV. juxcedtis. $R$.

Leares subl rante; leaffols subteruate oblonir, (s)tuse.
Telimy. Wallmai.








 ("m)








 the bark in quantity is thrown into tish pomes, it som hills the lish, whels I belicie is orne,




 मetiow ot:
3. W. termala. R.



## Tan. K.kat walonta.

## Telnt! (hitmathathm-











 gine it whl be a onemedal horrs.

## HL\Nl:1. (R)





1. 11 trit!tar $R$.


## К1!!̣!th mater
























 साग


 Imbliथ.


$\because$ II. भौvin fl ï ? I. R.




 1etion lit.
 Carey lanicles asillans．

Thling．Dinmorclona．

 ronnd．

Serares altermato，mumanlly pimato，from sis to mine inclues long．Faftele from fonte to six



 onas orula in ench，attached to the uppe end of the axis．Briry，the size of a pras，ronnd，


 abloner，silperior．

I hare not found that this specers is amployed in any shape except for fixel．

## 


 Embryc inverat，wherispron．

1．S．indicum．N＂illd．2．．上sf．



 fere almse the ©



















## MELLA．Schorb．gen．ル．TンL．






1．II．azatiracla．Hillıl．：．万．j？
Lafoes pinuate；leaflels filkat：－Drupe one secded．
Nichas．Nimbra．
Teling．Vepa．
B＋ing．N（लי1m，on Nimb）．
T＇am．V＇rpalli．


A midhlimer siad，fay common，heantiful，and very wafol tree．Flownemer time the lant
 nut，thomathe therm lats miformly fire－cells，with one or two orel，in ench．
g．Il．（omentoser．R．
 simplo．

Jdal．Laarance bahme．
A mative of P＇ulo linang，where it gaws to be a lurpe tree．

 very duwny maderneath；exteriou pairs largent，othen n loot in huirth．Deleules sumad，very

 ity ar rolomiar.


 siale hut but -hinimer.

If lin tolii- duplic.aso- pinnatis. fitor. Zeyl. 1 tie.

If, Iut. IS harjug.
finh. 13.1:1.
Filing. Turh:1-vpl.













$\therefore$. I. sulprt ? R.






















 ใी

fi. U. rolturatr. $l$ R.






















 sıuูerior.

Caly, fire-tsothed. Corol tive-petalled. Nertary subustimetre, bearine the anthere in







Teli,u\%. suymida.
Rant. Sirhicurs.
Trens. Womd-1uisulm.
I native wit the monntains of Tmhas. It flowerg during the hot seasem. The lank is os


2. S. Chichu"rser. $R$.
 uinul, ditlise. C'upsults thriev-rolled.
tipng. Chikiossepe.



 bittermoss.










 a threcowinged recepticle. Seeds muncoons, winged and imbricatedl in a dominle series acruas the cells.

The wond of this tree is freatly admired for its leanty, being of a light colour, amt most, clegantly veined; at the same time very cloce in the grabin. It is rouployed to make furniture of virrions kinds.

 with the stamim inserted rommd its base. I'amicles terminal. Crapsules there-cellud.

Tering. Billun.
CViu!. Bomentrh mata.
Tesm. Mocoludid-maurum.
This is our beatitnl liast Indian, satin wool tree, which grows in momatanous distriets ehiefly, and blossoms during the hot spason.

## GiARTCH.1. (R.)

Calyx campanulate, fise-tonthed. Corol tive-petalled inaerted into the month of the callir.

 sceded muts. Fimbryo iuserse, uo purisperat.
(土. pinnata. R. Iml. pl. 3. .F. oos.
Trimg. (iamoga, กf (ialrugron.
Katan-Kialuejiant. Thwerl. Mal. 4. 1. 33.
Ben!\%. Jooni.
A troe of ereat size, n mative of varions parls of thulin. It flawers durimg the hot season. The fratit is eaten ly the matives, both niw mud pichiod.

TRIBLTLSS. Schrrob. (IPm. .1. -3.2.
Calyx five-leaved, of five-parted. C'orol five-petulled. style none, Germ tivo-cellerl;





$\therefore$ ar. tichalimeryat.

 part of the ye.tr.

## 




$$
\text { 1. J. regens Withd } 2.5-1
$$


Flutrers axillaty, fivernetalleq, hemadrous.


Teling. Noer butalla.
Hiad. Kanchana.

## Beng. Kesariatam.

It is found in mest paris of Imdia, finating un lakes, and pools of fresh water; in flower during the miny atsone
2. J. caltitu $n$.





 arine lint the wet ratem.





## 









1. y frray to I?




$\because$ M. colis. $R$.






2. .1. pml, pte It. $R$.




1 II it un. lith. li .










3. II. rernut. I. $R$.


 Fohmary, mut larch.




 sizend, hrisht retl thewnes.
(i. Mi. rageens. R.
 otes and newves hair!. Pancles terminal, lame mud dectesated, flowers ortandrons.

Beng. Lus-phnikw.



 are lange, ahont aix incturs loner, ond there horont.
7. II. impulber. R.



 sumbll, with the over perals shorter than the fihments, which are ull simphe, and shorter than their aththers.
8. 11. cardifulia. If.
scandent, every purt sumoth. T.eares short-periondel, cordate, antire. Praniches termimb.


A mative of chitaroner and I'ulo Pinans.


 ovate-corthte bractes, divisions of the embex cordate, acme.
hatholi. Dilumed. Mal. I. 1. II.
 ers in Mareh.

Leares upposite, short-petiobel, broad hamenher, from theer to fivernervel, antire meat


 wit ; fire others are alternate with those five, double their hugt!, have a bomb with ab em-

 vertionly to the ixis, ns represented iu owbetkinhirla. Gert. sem. 2. 1. 126 .
10. M. deremfila. $R$.

 hume still hairs.

A native of hiths on P'ulo linange, in flower and seed in July and In rist.
11. 11. ल लtuter $R$.

 camdrons. Pelals condute, ciliate.

A mative of ' 'littagong.
12. N. Sumetta. $R$.

Shrubly, temeler parts a lithe hristly: Leares short-petinled, ohbong, therenervel, en-
 segments of its barder sumbate, mod decidums.

A mative of the Mohneas, a slender, delicate species.
13. 31. dodecindida. R.

All the tomber parts mure entered with bristles than tha lancolate, entime there-norsed
 calys decidnoms. Filaments altornately domblal.

A mative of the Mohneras, mad hy far the hared-flawed sperins I have yet met with; when fill blown they expand from four to five indes. The eapsale has only five cells.

 with a perioperm．

1．（i．ped witic．$R$ ．


 Miarı，and the sumb ripw in May at d Jme．






























2．（i．vevaruides．If．
limental．ofeimpl．




## 

 1． i ，iser． k ．



 2lı！

































" those at the riey smmat of' the momatain. 'To ne, parehed with thitst, and exhamsted with

 "sects, of a faint green colone, and so minnte ns to be barely distinguishble by the mend "eve, at time l supposed that the honied subatance must have bern a formation of these ine
 "nud branches, which were homy with lichens, were likewise cowered with it, thonerh no traces "of the insects conld be oberved. The nectaries of the flowerss were plentifully supplied "with honey; but in them it was Huid, and tmariment as water."

## IFRRONJ.

Correa in Trans. of Linn. Sone. 5. 2e2.
(caty, from four to tive-toothed. Corol from four to five-petalled. Germ superior, onecelled; verturnmerons, attached to five parietal receptaches. Berry spherical, covered with a hard cortex, onn-celled. Seeds mmerons, immersed in pmip. Einbrigo raya without perisperm.

1. V. elcphentum. W'illd. 1. 978. R. Corom. pl. $\because$. N. 1.11.

Cimatevalangal Kön. Mss, by sume writteu balanga, or bahagras.
Gapith hes A.sint. Ries, 1. p. eso.
Anisitulins. Rumplu, ilmb. 2. t. 43.
Brag. Kuth-bel.
Teling. Vellanga.
Tram. Vinlanyat, or Fola-marmm.
Eing. Vilephatut, or wood npple.
A larere tree vielding very had, dmable timber, found in most parts of India. Flowering time the heriming of the hot scasom. The from in one-celled, contaning mumerob- ochle attached to five parictal mecephates. The fimit edible, athed mueh entermed by many.

## ARJU'IUS. Sichrob. gen. n. 750 .

Calyx five-pated. Corol ovate, diaphanoms at the base. Beary superior, five-celled.
A. herpretica. (:

Arboreons. Leuces orate, entire, pointed. Iruemes terminal, droppins. Berices manyscedel.

Fommbly Colonct lardwicke, amongst the momatans on his tom to Sirinagres, see Asiat. Res. vol. 6. p. 360.

## CERATO,STEMA. Juss.

Calyx five-parted. Corot thbum, subeylindric; mouth five-cleft. Anthers hong-homed. Germ in:finor, fise-cebled ; cells mans-acended; attachment central. Bervy five-celled, manysecded. Eimbryo centriperal, and fombined with a perisperm.

1. C. vaceinaticu. $h$.
 of the leares.

An elerant, very ramous shub, a native of then Girrow hills, where it is callel hereapronm, the flowers have an acid tante, and are caten by the natises in the ir curves. Fhowtine time April ; the seed tipens in July.

Brandex ant banchlets mumerous, and were urect; the young twira rongh with the withered permanent sipule, like ensiform scales ; remeat height if the simat) abont six fert. Leares



 the enlarged ape of the perdech by a contractra artioulation. Corel mbular. Tube consider-




 when ripe, tive-celled, Seeds many in ench cell, oblongr, rutgose, pertsperm sutt, and iwhite.


$\because$ ( $\because$, virimuta. PR.


## 83 mg. Intatumb.



























## 


 with "10 rifom.

## 1. $\therefore$ everni-1a. $R$.


Beng. K'um jutle cat.
A small tree, in utive of chittagens. where it hossoms in Mariols. and the sped ripens in Olewher.









 aret. (ferm -











 pamel, mot vill T. . 'm. - - deyl.


 of the whetints.



Page
thlo. Cierne superior; one-celled; une-seeded; attachment smerior. Drape oneseceded. Vim-


1. ellutis. न.inn s"pul. 239




















 loxded inmbediately whith the umbilions, mater the stimma.


 palatible. As yet I c:an sily nothiner of the guality of the timber.

## 



 petal, in others contrifugal, and between those duections, with a perisplerm.

1. ('. rareca. l .








 colonr. Cratur onc-lenved, bowl-shaped, the toroter alivided into tive orbienher arment-. Nice tariot seales broad, shont, and haty, inserted altormately with the tilaments, inte the midelle of


 the eller of the values wevated. Serfs erememally six, whlong, attacherl the the milhe of tha
 ments two; the erterion ome thin and white; the interior one timer ant brownish. Peris. perm conform to the sed, nity. Fonbryo ereeth, shorter thath the perisperm, straight. (oblylednons condate. Piadicte celindrie, centritugal.

## $\therefore$ C. glomerata. R.

shoulby. Temes hifurions, owate-lanecolatr, acutely semplate, smonth. Florers axillary; pedumeled, rowded, optandroms. C'rpwhes berred, two-valsed, tivesweded.

Looboor the vernacular name in Silhet where it is fomed indigenoms in the forents. Flowering in Desember, and the seed ripeniner in Jareh.

 steles, trom two to time inches longe and one and a half broad, stipules, a hrown downy soald. on cuch site of the insertion of the leares, flomers anillary, very manems, sumbll, of aren-


 six, ombla attached oppositely to the inside of the cell near the midhle, Nyle rather shomer
 cose, the size of u very samll olive, oue-celled, two-vatverl. Needs getmernlly from three to six
























The watme fruit his unt heth weth.
4. I., gitul ive. li.

 from ext bether:




















 tarke 19- ital t th. 1. 1. .



 reptet : thet . $\because$ thers.
 ly thitit plo.


## 





1. 1112







Page
ill abtame
 April: the - wed ripur in Almell:










 the sathur grallts.

## II.IRDIVICNT.1. R



1. II. bindle. 1 .

$9:$ an. Achan. alti manmm.



















Some leantiful thring ?

 from :1 tric winch secms tu he very in :ally allich to it.
2. II. pinitalu. $\operatorname{lR}$.
J.eares altematel! pimate.

A free a mative of Tramane ; the leatlete are alont five in mumber, alternate, oblicplely orateoblewe, untire, tirm :1mblacid.

## NHCT.INTRA. Iuse , gen.




S. actantra. R.

Homenda is the remarcul ne:me in sillat, where it hats 1 , 11 fomme on omly one hill, in

 in damany Fi, homry and Narela.




















1. If r lime li.



















 showl a lors itanix








 durat il -Lizi a.

17.TM N\% 1




$1+\ldots, 1$


















 She tinump.

## 




## Page Curey

1. 'T. jisaceritr. R.



















 rally round cotch otler itul the suptriar ratlicle.
2. 'I. C'alapera. W'illıl. 1. ©®ī.

Branches hwrizoutal, icrticcllecl. Leaves obovate. Rucemes axillary. Drupe and aut com. pressel.

Cntappa. Rumplo. Am7. 1. t. GS.

## Beany. Jumlan!.

Ailamarimm. Rherd. Mal. 1. t. 3. 4.
Biallani:1. Commersomi (resit. srm.2. 1. 1. n7.


 almost the wholre yeat.






 minnts, fillin!.
 the hermaplurotite. Coly, © \& as in the eremus.



 reason to think th y are equally wholesame, and mutritive. The tree is highly ormamental, fews surpasing it in elegance and beanty. 'l'he word is aloo nectinl.
3. 'T'. Lelerica. Corom. pl. 2. N'. 198.

Ipaues erownded about the extremities of the bramelatet- loner-petinherl, oval, with smonth glamb- on the petioles. Spikes axillay, simple. Caly.i campanalate. Doupe aval, downy.
sias. Viblituka.
Beng. Iии!ira.
Arab. IB lev-lin.
leas. Be-ley-leh.
Tam. 'Tantlea martum,
'l'ini. Rheed. Mal. 1. t. 10.
Trling. T'onnlece.
Myrobalana. Beleriea. Gert. sen. 2. DO. t. 97. 1K. IJ. de.
 trees, with an crect trunk, and a very large sporading herd. Flowerime time the herimming of the hot satsonn.
S.ectes erowiled abont the extremities of the brame hes. pet inled, owal, entire, firm, anowh ;




 ed wifle if eroy silky down. Jimbiyo invers', de.
 oncl intoxicating, wheu ciater in ayy ginntity. Hereabouts they do not use any part of tho
fruit in mon it ine, so fior as 1 c:at leano.













 $13-1421$.








 to :










$\therefore=11-r \pi=6$.






 saral ubive gloneal.

























 Enfl-


 ris M1.010:1.
(i. I'. , it : int. Rorich.




 sced riperns in . .wnmblar.







 "turch it."















 base.

Tram. N1oreatelare.



 posetws the sumberentible plailities.
8. 'T. gengretiom. li.




 to have the sp citio natme (Ve-belue at at tud to it.

## 


 and the two colyluthme pirally wolled ul.

1. 1'. matus) fulia. $R$.


 panichol.




 when lomkine at the upp: 1 sarbace of the leat.

Sirng. (ryoona, :alit) Fukownliat.
Ilind. Citimit.
Beni. ¿vioon.
 and atily, and the seed ripens nimat the clase of the sam. The margins of the leaver me ofter










$\because$ LIनती normin.




 vetre
























$\therefore 1^{\prime}, i, \quad l i=$



$11+1.12$




( $\because 1_{1} \quad=m^{2} n$. $R$.



 it the © .nl -atom.

## 




















4. 1'. annirululu, R'.




TH, 1 . Prokarakni.
7cling. Nometri.





## 


 tive on tem. diends maken, inferior.

1. (: lerlifulies. Pork).

Toling. Sheriman.

 the cold scasom, Jamary and Fohnory.












 row ring. Fiempherte gletmiar, a tittle sealy.
$\therefore$. ('. "chmisula. lis.

Tilag. 1':mullin:an.
This sece mi sprica is also at latre timber trees, a mative of the same phaces. It flowers durins the cmid जatall.












 seldom the cane.

## DEC'ANDRLA DLGYNTA.

## 

 sule intirine circumai*al.

1. 'T. ‘r"ustallime. H"illı. 2. 63.j.
 7.


Tilim!. Konka ! ! l homa.


 A！．．

I／Il．$\left.(4,)^{\prime}\right)$ ． $1 /$ ．

 ther I． 1 ．
i r．$\quad \therefore \quad 1=R$













 sik．．． $1=$ ln $41+1$ ，$\ldots$ ．



，，in i＝
 446

 $y+y=$

$$
\text { H.1 I/TTV ミln7. !., } n=-0 \text {. }
$$




```
\(11, \pm 11^{-1} \cong 1-7\)
```









## 以゙（は，


 live 1 l ．
$\therefore$ ser． l ．




A．＂．．．ite li











1 [1. आuf/r"N. $R$.



















 perior.
2. II. indicon. R.
 mara liman:

Jrlin!!. Rexrak tipra.
A Hative uf th. (ivc:u motmatains.
8. If. rulurdifulia. $I$.


 Aruil.

## 



 sip) erm.

 Slyle inerle. vigumes three. Joupe oblong.

Trling. Alisi mrorinta.






 platis.


# DECANDRLA PENTAGLNLA. 

## 





 late, ervoscly -rrastl。
 son. The worl is white and suft, conseruently of litte use.




1．1．1，1，1．｜1，lll．2．$\because$ ！


$\therefore$ N．NM－t：2t．




$\because$ A．hi mli．H1 $111 . \geq 7!$ ．








## 








人M日： 1 ｜Ii ．1．p－1

分 ．．W．A．．．





 italis 5 il oh ．



















亿．





is： 1, i，ar．


 lat．luit i if ．it



- A. Iongifoliar. R.


 den at ('iblentias, whate it - ?
 ly divided ly the nerve
$5 . \therefore$ railluris. $R$.







('. muncrla'l la.. $R$.



 ripe sereds. Flowering time: the ratioy swant ; the secal ripells in (hetuber.


















> Politiputa. Sihreb gen. n. Ts7.
 Embryo insersa, and fimmished with il prixperm.
K. hissulth. R..



A mative of ("hitfaroncr, whare it lilosombur in Minell.
 frigrant, clatmay, luvenish latsimt.



456

1. (. Incimenta. II illi. 2. Ti.s.





2. (: r/hizot) /hyllel. $R$.



 crensturis
3. C'. krlforphụtha. II.

 Flouers vetambrons.



4. 13 errticillal: Willd. -713
 P'allanas. lithel. I/al. ! I. It.
Trle, K. Xumb-pataiti.


5. b. am a mavitry. Roxts.
 hor with the partan the moly ant lanol.

 हलाभण,

## 







At. luit ththa, thethrik.
13.1. . lin . I.
 mont fatt , tl y. -1 .


Jim 1. laik It



 $\because . \leadsto$ (mil $K$.


 ing the Ux l least,s.

$$
\begin{aligned}
& \text { 1)E('A.NJREA 1)E(CI(i)NIA. }
\end{aligned}
$$

 sonl in the hotir
II. $11=i$



 their diit.

## CLASS XI.

## DODECANHII. MONO(I)NT. <br> 





 subulate-cia $1 t$.



libu of the inhabitatio of the lofta of the dimges, where it siows to be a tree of con siflerahi. sike.








11.


 (aly athar.




























 from its alues the rusteltum, or rone i. alles.

The womi is of it rotomish eolomr, hamd mml dmrable; its chet use is for hmonns, and for pusts with which to eonstruet tle lounces of the natives. for prosis with whicle to












 three-tosthed.





1. '1'. Asilormlaris. Rosh.





















 ers ax lay
l；；llate hra．

Atat we if varimepdot fods．

## 









 Ar．11：11：

$p=1,14.1$











 At川！：！： 11 ．

 1．P．$r^{\prime} r$ I．R．



## 




F．तो $\because$ ．．． 11 ／$\because=$ vil．





## エ゙ンリ！クリバ，「が，


 1）．engivefulies．$f$ ：


 muth : conmuma Myrtle bualt.

# D()DECANDREL TRTGYNLA. 

## 

 cacrons.

1. E. Li,ynltioia. R.



Jon! Mancil-hï.




 ahmads with aderid milly juice, which is employed to remone watis, cure catament erup1im1s, di.






















2. F. nereifulier. Withl. -. !! !
 dancte: there-downed.


Beng. sij.
 eriag time the heot sentan)
3. Lं. (entiqumpen. Hilld. 2. Sul.
 thlurtumes of the mates. Pechanches sulitary or in pairs ; three-Howered.
sions.

Tiling. LBman chmmadoo.
selnemith calli. Rheed. Mat. 2. 1. 12.
 the cold w:
4. Fi, erthoreswens. $R$.



[^14]tu be a pretts lave tree. with a round distinct trunk, and numerous branches forming a lage dense, suh_ liblular heral.

## 5. Ki. larterr. R.

Binubh, ment. Bramches erect, mpresed, trianmular, armed, leatesa.
A uative nt the Abhucess, diflerine trom antiguarem in hoing mare slender, in having

 ant wel hassomber.

## fi. E. Irigomz. $R$.






 temethed tabertes; the extremity of earh is armerl with two short, sharp apises, and like tho















7. 1:. Firworlle. Willd. 2. A.w
 Seures limar, semale. Four res torminal, and in the fortis of the branchets.

Tintemlif lihited. Mal. ב̈ 1. :1.
thaitramit etom. Huwh. Amb. 7. t. 29.
JBrag. Lanka -1 j .
Tram. 'Tan" taili.


















-. E: dicheromer. R.




Fombl hy Wr. Hhater at Oufiecin ; it blowsme in Octoler.
6. F. criariflin. $R$.



14. H. smiliatorn. $R$.
 Furem willury, vasite.








 of the theshy biac oft the ermmon caly



11. V. croutlix. $P^{\circ}$.

 crown of the (now hoth sa) thter, there, tive, or seven-thmered.






Ammal, hairy, oblif(n) with the apires recmered. Leoves oppensite, obli(puely oblong, serrulate. Cunlallols axillary, pedunchal, irlubular.

Bener. Jurat keru.

A conmon werel every where, and in thower and sed the whole pean:
13. F. parcillocte. \#illel. ニ. s!ly.

 lengel. Culy.r und corol minateral, and rathl of tome patts.

I mative of rarions prats of lmini, and in tower menrly nll the bear.
14. Li. glaucor. Willd. 2. Sllf.
 longe illvolacell-wate-onderte. Insid of the calys woolly.

A mbeve of Himblectath.


 Beny. Swot-kゅย:

16. k . "niflose. H .

 on the inside. Cop)sules smouth.
 17. F. chemmesture. Il illi. 2. ©9!!.

Rool prevmiai. Branches apreading that on the eromnd, smooth, and sub-dichotomous.


Beng. Chuta-licru:s.
A native of' (omontmicl and lemaral, on neglected gravel walks, de.




Bous. ('haser-petputi.




1!1. 1: pellala. R.



 prodncing plant- "rery cold sidsenn withont anme.




 yellum. L'elals peltate. C'apsules rumbl. searcely any angle to be seron, sumoth in every furt.

## 1. (!. indiens, $R$.


 olvortate.

Tha. Nisathater.
Beap. N.ur-uhturer.





















 abomantly.






## f.1Blilr'lal.

 1. Mirwtratr. $R$.
 two That tex fulan the e lys.





## 




1. M. rpl. $h$.
 the hatres, crius mime-t thed

M+tradharis vera. Rimh the. 3. 1.7


















[^15]Page four-ertled, four-valved. Seeds numervus, angular.

## $\begin{array}{cc}\text { Carey } & \text { 2. M. comesal. R. }\end{array}$

Leuney alternate, sessile, marrow-lanceolate, attemated to both enim, mucronate, sumenth, rigid, with the magins entire aml thekenol. Floners lateral, crowled into a celindrical trifid spike. Cirlyneine semments semicireular and suouth, as are also the rond subecssile petals. Stigmer concitre:

A native of the Moluects.
3. M. suberusa. R.

Bark of even the young shoots eracked and conky. Leaves opposite, enssile; lanemlite, smooth. Wimbellets lateral.

A mative of the llolnceas.
 lancewate, entire, taper, obtherepointed, firm and polished on lxoth sites, from six foreven


 or five. romm, sulall, sessile. Filaments numerous, much lirwer than the petals. (ierm thre crelled. I have not fonmel the ripe nor even finl grown sued vessel. Style rather shorter than the filaments. Stigme atente.
4. 11. linturi\%, smith. in Zrans. Linn. Noe. 3. p. 271 .

Shrobly: Lectress seattered, linear, chamelled, mente, rinid. Flowers crowhed romud the bramehlets, ia little below their tritid apices, some of them ixillary.

This bantifinl plant was reared in the butanic gameden at Cakenta, from sext sent by Colonel lattersm from Naw Sonth Wakes in 1 sou. In sewen viars the plants were six or
 abuve a yen to ripen.

Stem mearly crect, ahout as thick as a man's wrist. Bark darl-coloured, ami mother scat

 and an eighth of :m inch in breadth. Flurers crowded romad the banchlets bedow the haves of the sume year, ses-ile, some of them are arillary, med in that cate solitury. Caly, urcentate;

 lomerer than the petals, of a luricht crimsun, and fiom their mumber, size, ani lemoth, giving that colour th the whole flower, though the petals and calsa we erven. (ieran mene than semisupera, being attached to the lostom of the caly: only, rombl, hairy, fomenlly thme:celled, thongh I lave fomut some with fonr, cath contathing momerons, very minute seals uttached to a large comves receptacle in the inner angho the eell, which is attached to the axis. Style as long as the staminal. Stigma simple. C'apsule crowled rmant the hanehlet, seminiferm, inserted in the ofloblar: tirm, thick cealyx, romud, of the size of at grain of hatack pepper, hairy, particularty the vertex, thin, thrececelled, threc-valved. Receptacles us in thas germ. Seels numerons, filitorm, brown.

Garther's firme of Metrosideross armillaris zol. 1. 6. 31. $f .5$. is so exactly like this, that it may well serve to be çroted firs it.

## PSIDIUM. Schreb. gen. n. 8.11.

Calyx five-cleft. Corol five-petioled. Germ inferiur, four-celled. Berry one-celled, manyseeded.

1. P. pyrifermm. Willd. © 957.

Fruit timbinate.
Eng. White (hnisu; howerer the colour of the inside of the fruit varies much.
Pilis. Rhect. Mal. 3. t. 33.
Find. soopritian, pronounced Suftinm.
Beng. Peyara.
2. V'pomifertum. Willd. 2. 958.

Fruit inherical.
Eug. licel (inava, but like the other, the eolour of the inside varies muel.
Mulack:-peta. Rheed. Mal. 3. t. 35.
Ilind. Lal-sufriam.
'These two kinds of (fuava are very genemally cultivated in the warmuer parts of America.

## C-Llilidhthat. IL.

II.

Culyz six or seven cleft. Corol six or seven-petioled, unsuienlate. Stigma plate-lobate. Germ inferior, one-celled, mu-secded, attachment superior: Berry one on two-seded.

1. ('. lucider. R. Ant. pl. 3. n. $\because 11$.

Leerres opposite, ohbong, sermbute. Peduncles many-flowered.
Teling. Karalli.
This is a small hamdsome tree, a mative of the lower rearion of the Cirear monntains, and of Chittageng. Filowering time Marelh. Lemses not weciduma.

Leares opposite. short-petiolded, nval-puinted, delicately surate. smofly and shininer on both sides; four or five inches long and from two to two and a half broad. stipules interfolia-




 stghe the lempth of the tilaments. stigne three lelket. Berry shbular, smeoth, pulpy, of the


## 2. ('. lamerefulia. R.























## 


 1. L. mela repsis. Hivld. … :13t.
 Berries turlinite.

Dambera denmentica. Remph. A $1 m^{\prime}$, 1. 1. 37.
Nationhomhus. Mherl. Msl. 1. t. 14.
Benty. Mutavea dammol
 periost of the ver.
 nigra. 1. p. 12\%. 1. st.f. 1.


 oval.

 culour a siry dark prarple.

## 3. 1: inple, xu"ulie, $A$.

 spherimal.

 fruit it diflireme periouls thrumerh the sear.














 the tree is one of the tawst hatulsolut of the getus.

Page
Carey
4. F., Jambolana. Lamarck. Eucoycl. 3. 150.

Leares ohlong, cutirc, sul
('alyptmatles. Jraboblant. Limn. sp. pl. ed. WVilld. 2. 97õ.
I'erin-1! jatio. Rherd. 5. /. 2!
. 1 umboo. flumbou, Sinnerit 1 ant es.
Beng. Kiallal:j世11,
I'eling. Nisedou.
'lhis errows to be a large tree, is common every where, both in its wild and cultivated


 oplpositc, short-petioled, ohlomer, pointed, waved, smonth, shining, firm, liom tome to fire inches




 enlent, smouth, when tipe blatck. Seed ane, ronudish, sunsoth.

The wood of this tree is hard, clost gralined, and durable; it is of coume 1 sed for varions jurposics.

Thu bink is strongly ustringront, and dyes excellent dmouble lurowns of various shates necordiner to the "otrosive emploged. or the stremerth of the deroetions.

The firits are universally "aten when ripe, by man and bibls; they are of a subacid, astringent tiste.

Thare is uraricty of the fonit in the northern and momblninous parts of the coant of a superior patality, mad as lare as a pigrones rexg.
b. (. obtusifutia. R.
ferares chliptic, whtnse, pulished; panicles below the leaves. Corol calyptrate. Berry oblong, orte-scerled.

Jambolifern pedunculata, Cicert. sem. 1. 178. t. 36.
Janmbolani:1. Rumph. Amb. 1. 1. 12
 eutta, where it has been about twelve yents, it bossonns in Mareh, and the frat riperns in



Jamhosr Ceramiora. Rumph. Amb. 1. t. 41. stems : spoecies still mulescriberl, exerent by Iumphins, which I have not yot net with.
6. L:. opereulate. 1 ?.

Trunk short, thin of branches. Lestes short-petioled, whong, smonth, conaracly veined. Paniclas lateral, buchiate, collecting the thowers in sesile, terminal hands. Cirlife cutire; corol operenlate. Berries splemienl.

From Amboviar this tree wat brousht to the botanic garden at Cabentat, where it blossonns in Nureh and April, and the seeds ripen in Nay and June.
7. F. caryophyfifolia. Lamarck.
 toothed. Corol fonr-petiosed, deendurns withont expauding. Bero! rlobulau.

C'alyptranthes C'aryophyllifulia, Limu. sp. pl. ed. Willa, 2. У7J.
Hyrus Cuminum. Lium. sp. pl. 67.
Janubosa C'eramica. Rumph. Amb. 1. t. 41.
Being. (low (fimmb).
A native of vinions parts of lndin, growins lnxurianty in nlmost every soil, and situstion. L'lowering bince the lint season.

Trunk seldom stritimt, nor lome, hut thick, mud covered, ats well its the munnerous spreading bratches, with stuouth ash-coloumed berk, the smaller brameles, and twign ane
 smooth, and shining on both sides, with numbous, most, shemer, paralleled peins: from













 catable, whereas many reckon that of Jembulana goonl, panticularly if suaked in a little sall
 \& Lb. fretl c we. $l$ l.

 decithatu, in tirme in a lil.

I/ \%. ant lif y. Ban-lamb.


1). 1.. bruchite. $k$.







10. 1\% chamotome. $R$.



 Mweft, and the frmit whint in caten hy the uative, ripens in Muy.
11. 1:. cirmotes. $k$.



 fruit, whi h in wr! erth rall! eaton, rijear in J:l!.

1:. V. pita. li.




1.3. 1. $12,{ }^{\circ}$ i. $F$
 in lithe leat. RImex mal.
hity. I'miate-jatuh).





11. L: Ine:f, I. If.






11. I. Hermpiota. R.








 litthl. 1.
 poltw in olune umb dily.
 by ita thatidnl faves.



 of a miduling - iza, therraf in April.
17. F. mu / fulia. R.
 มи

It leatatitul small the or lare shrule, a matice of sumatra, from wheme it wat seat by

Prge Carey Ed. three, one thwered. Jamolumere twoleamel. Bervies spherical, sumoth.

Myrths (ivomandeliana. Kön. Mos.
Myrins bractenta. Willd. 2. 509.
Thling. (romar-mondere.
Mimil. and IS ng. Hijulse Mendec.
It grows in great abmance on the sand hills near to the sea on the const of Commandel. 19. L. polytiama. R.

Polyrimum- Leanes shompetiolerl, elliptie, enipidate. Pamieles axillary on some frees, and mot on whters, vilhuss, Stigma capitate.

A native of the Malay Arehip lario. I have not seen the pericarp, its gems is therefore whectain, paricolarly as it lats a capitate sfigma.
20. F., Mentisth. 1 ?.
 mate. Pancles axilary and terminal, brachiate, shorter than the leaves, bltmate divisions threr-flowerexl

Irom Tippley, where this elenat tree is indigenoms, the seeds were weeneal into this
 with inmmomble slender, (hroping hranehes down to the gromad. Bark of the womly parts


 inches longe and one and a halt homd. Panches andary, more rame temman, horter than the leaves, compusal of brachate pairs of batuelus with their nltimate divisions three-flowered,

 celled, with many oreln in cach, ife.

Leares broad lameedar, acmmimate, priliohed, finely veined. Peduncles asillary, terminal, many-flowered. Corol operenlate. Bervies romud.

A small, but tall, bandame trece, a mative of the Moluceas; in the Botanie graten at Calconta it thow in Mareh, and the froit ripens in June.
22. R. ся,

Aphoremis. Lethes whbure polished, hapl. Cumes tomimul and asilluy, crowded.
 great sike, and the worl is nsed for varions conomical purpocs. Flowering time lecember,
23. F. तqued, $R$.
 Pedumets teminal, und from the exterior axills, many-flowered. Fruit thitened at bothe ends, ( (urnip-shitymel.)

Jimblosil aquert. Rumph. Amb. 1. p. 126. 1. 38. f. 2. the rose-colomred variety, and Jmano-nver. Pumph. Amh. 1. P. 12f. the white.
 at Culenta, whem they thive luxurimity, and hosson during the monthof Mach, the finit ripechs in Mat whe dme.


 terminal, and from there to tive or acem lime white thesers, on pelicels of varions lentho







 perferetly white, there is mothor diflimenes.

The trex which bears the rose, or pink endomed varietw, is compicuonsly beatiful, when the dropping braches of the full grown, brilliant coloned fruit, appear through the dark deep green leares.
21. E'. allore. R.

Trunh ravely straicht, and soondivided. Teares snbsessile, nhbong. Perlumeles lateral and terminal, imalint: Many Howered. Flumers peelieelled. Berries depressed, turbinate.

Beng. Jamuren.

 hot und rainy siasoms, lont they are very insipich, ind q̧ite watery.
25. L. oulala, IR.

 ub, $\}$.




## 2li. I. Rence tf lif. $R$.

Cone. shan :
 (ellare m)






- $\because: 1 / 1$, 1/ 1

I atis.







 हु才। 1

Jiti :

I) $7.1 .11+2112$.





クr 11, '1nk.
I.yith. ( is ir

 Berly.

f. I. .


ill I: , , He $h^{3}$



31. 1: r "



32 I जो $\therefore$ l.









 (1) $\mathrm{C}=1$ !

 आनारी Hum: 111 है :
\&1. 1. $\cdot r \boldsymbol{1}+\mathrm{I}$.



 of lh $8: 18 \mathrm{~s}$.
35. F. glambulifera. $R$.

 Hlatululir.

A native of Sumutra.
:36. E. macrocerple. R.

 nell c:ilys.

 of the (lhalta, (billenta indiea nuw called speceiser,) which is caten by the matives, riperas in Angnst mill soptember.
37. F. curthahask. R2.

Letters ovate-lanceohnte, entire, smooth. Corymbs termiual, decoupumud. Ciely.e with large romul divisionts. Bervies sholmat:

A native of the Juhuceats.

## Mritu's. Schereb. qen. n. S11.

Crity. fire-cleft; petels fire. Berry inferior, from two to five-celled, with a few gibluons sceds in cench.

1. II. communis. Filld. I. กG\%.

Ilomers sub-sulitary. Incolucre two-lenved.
Arab. Isbor.
JFind. Belitse member.
Common in gardens, it flowers during the cold season. I am not certain that this species is fomd indigenoms in any part of latia.
2. 31. lmmentosa. Wं̈lla. 2. 9f(1).

Shrubly, Leares short-potioled, whong, Horec-nerved, lonary muderneath. Pedunctes axilhary, one-thwered. Bractes two at the lottom of the germ. Berdy oval, cells uncertain; sects very mumerons.
3. 11. canescens. Louli. Cochin Ch. 381.

Arbor sinemsis, de. Pluk. am. p. 21. l. ifte. $f$. 1 . is cent.
A uative of the Staud of Puh Pemmur, as well ats of ('hina, Cochin China, de.

## EUCALJLTCS. JInיmil.

Celly, permanent trumeaterl, before thowering eovered with an entire ileciluous lid. Corol none. Ciapsule inferior, four-celled, opening at top, many-sceted.
5. moluterana. $k$.

Litl conieal, shorter than the calys. Panicles laterat. composed of pedmeled heads, of


 of heatls of six or seren sessile flowers.

## Fa:TIDI.1. Juss.

Calyx superior, four-parted. Corul. Drupe turbinate. Tut lignenus, four-cellent. Scels one or two.
F. manritiana. Ḧ̈ll. 2. Isso. Lamarelo. Juss. dec.

Fouml hy Cobmel Hartwiche indigenons on the Namritius, in seed in the month of July. He salys it is a tall, stont frers.
 very temations, thick, entive ; surface whitish, wel wirhin, hitare abl antrinemt. The wome
 bratuches on all sides, crowder, lamecolin?, cutire, suouth, with mid-ril) wed, sessile.

## PGNTCA. Schieb. gen. n2. St7.

ralyx fire-cleft. Patals five. Pome inferiur, many-culled, many-seded.
I. granatum. Willrl. 2. 9sl. Asial. Res. ai. $17 \overline{0}$.

Arimenus. Ieares lancelate.
Arab. Lima, or Rmman.
Pers. Amar.
Hind. Darim, also Anar.
S゙ung. D:пriuba.
Bene. Dalim, or Darim.
(ioni-nmm is the Hindec name of the donble flowered raricty; both are common in cara dens thronglent hadia.
 or Tape-evorm. Fur the knowledge of this valuable discovery, we ine imblebtel to Mr, shex-




II.

500


I'... - 1 \& a )




$\ddot{O}$. ( $)$, $1114, \dot{1}, 2, \rightarrow$.











II.

Aㅡ․ Wera labin Jont ja.
form. A , is-lislike.
A mail it l'en in, Nr.

IV eis it mallo $l$, $\mid 1$ aniki ilt =


Irr. II Intl.

i. 1'. A romar $R$



 *ilural h -i, on ti: vwnutano if rth if llumlwar.
I. I'. Ir' $I t$


(1) 11.12 , 11 l . l .







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 bit varic tix of the same rixerics.

Be:\%. Nhar-kintil.




## 






1. I. giambliftina. R.

 Seed. titionmor





























 ont-ude Cutsutes six-cellent.

Arpunt. Lvint. lice. 1. p. 301.
Be ing. J:armb.

L. Lilus. Reyiund Rerla. ()lis. 5. p. 2.5. and 1. p. 20.

A mative of Hemal. Hathan, di. II. ('. Whe sed ripens in Anernat. It is a laree timber





Tidin!. (hintracer.
 Angriv.

1. L. inderer. Hilld. :2. 117.4.



IF:at. Pelling: + chin:1.

An eantic frum Chinat it tlomers in the mans renson, but ramely ripens its seed here.

#  






A Hution of the Molnews．










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与．tul
（1）1 Kit
 hmt＝a $u$ ．

## 1．1／1／．1． $1=$


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t．I．






 $11 \therefore$






















ㅂ．． $1 . \operatorname{lin}_{1}$ ．


 Ib the



 the tree wixem ar ar it fut rululy if tul．



Culy，tivereft．Corol five－petalled．Berry inferion，tworated．
1．$i^{\circ}$ ．eremulatu．$l$ is．



 in 1 Insuた．

2．（＇．integrajulin．I？


 Res．6． 1.363.

## SESSTILM．Sched gen．an B：





A uative of the same hills near the－hores of India．In flowne and seed the whole ye us：

I1．
510

## TCOSANDRIA PENTACENIA．

## 




 minal，tom ntome Jimito obosate，villons．
（Thin．Latimat．

 tame sarden at Calcutta it blessoms twice in the sear，but beary fruit only once，ví．in libh－ ruary and Mareh．
․ N1．berguth sis．R．



A harge timber tree，anatire of Clithomarg．Fowering time December and Jamary，the fruit，which is not eaten，ripents in June and duly．

PIMIES．Schieb．gen．in．85＠．
Calnx five－eldeft．Prtals fire．Pome inferior，five－celled，may－seded．
1．1＇．communis，Hilld．乌．IO1f．
feemex mate，semate．I＇eluneles corsmbent．

Pers．Nisli－patere．
I have not beon able to discorer thin tro in it ：mation state in Tudia，the following is the


2．1’．malus．＇I＇ill．1．．．． 1017.
Leferes ovaturnhong，sepme，smonth，on villons．Cimbels simple，sessile．（＇laws of the pea tals shorter than the erlyx．Silyle smowth．
suag．Sierlag．
－tratu．Tultit．
 by culture，comed grontly the aridies are te in．

3．1＇．cemdomire．Wrilld．2．1020．

lutrodned from ：Bmones and from the（＇ape of（ivod 1fope：
1．1＇．rhimensis．$R$ ．

 vertically（onmpresicul．
（hin．Chali，
Salli is the name les whel the people abont Calentta know this tree．It blossoms at maris


5．1＇．indiera．$R$ ．
Leaces cordate and orate，most acutcly aul fiucly scrulate，s．mporh，stipules filiform，

 litt a \&




 makr the natue Botheche berj.

## 



- cury. 0 osz $/$. .


 sun, bat hewr ripus it - atel.


## ICOSANDRTA POUTGENLA.

## 



f. Ri. , mi, rate. If.













Lia. Wurd.


3. 11.1 -rtis. 11 , .1. .3. 1154.






\& R., 'r, चlytion $R$.
















$\underline{1}$ variar it $!$ m mataias mirth of liohiletum.
ㄷ. IS. momery li .




 ＂here it blus－ums ine

8 R．diffiosa．R．






9．1．microplighla．$R$ ．



Chin．11，i－tomserin mes．
Introdmond fiom（＇inton into the Butanie grinden at C＇illenttat．
111．II．hipithylta．Ii．





11．I：．ine rmes．$P_{1}$ ．
 smonth．





1．It．If cret！！！，me．s．


 about the oud of the raits．and the ac ha ripen in the conl wamo．

















 foumth，shomem thime the mety．

2．R．gompere phil．R．
 of the calys．linhoms．A．vint．Res．fi．p． 36 ．








 the germ，and of narly the same humitht．


 the Sowalik mometams．

3．R．mohucenams．Hilld．ᄅ．10se．
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7. $1:$ t... s. F .




4. 1i, . 1 , I , =1, If.





- 1.al.... $A$.






+1 1: $y_{1}, \cdots$. li .
 1. 1.81 т...




> IVAd;|R|I. skirl. de. .t wr...
 Kal lih. .a larl\%.

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1 \quad 1 .
$$









 かい11. fivit.





1: Analin. Buch.


 den int ('.l. itt:1.

## CLASS XIII.


 - culel.

1. T. servata. $R$.
 and deemmpromet. Berrios fivenalleal.

 11 duly imm Shafint.













 E:ch cell, intermixel with a littl-pulp, wat, bross.

## $\because$ T. liblornhavis. $R$.

 teral ficimeles brlow theltare. Berries threerelled.

A mative of the Mrinterens.







 on harge receplacker, risily firm the asis.

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 (1) perisplerm.

1. 13. lompifalia. Wrilld. 2. xil2. Gerit. sem. 2. 101, t. 101.
 from sixtern to twenty, within the sibhons tule of the eoret.

T'em. Illupi.

 and Soptomber.















 to the sesel. Rudiele romudish, inferions.

 of lis Hur. Lath perife 173 anc iii. 18 s .

 camont afford to bny cocoanut vil. It is thicker, harns longer hut dimacr, sumbic a lithe, aud

 s:ath price isth the cone sut nil.











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i. tulu if ita. (...




| 4 |
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 (1). M
 ".rrl - -





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Ein.





528








 Stipules monce.



















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 stagme tion-clett.




 ivt proxneed fruit.





















3. 1). meluno.rylon. II illi. 1. 1119. (iorom. pl. 1. A. 16.




$7^{\prime}, \ldots$ it ill Hin！．．．
（はい ，／／ドル，ise．



















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I：／K！ 1 ！
I 1.6



 ：11．















$\because \|, \quad$ ！．h？

 N1，il ：




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I＇il ih Hatil Rlure 1．Mer）3．t． 11 ．


Pago

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 grenl).




 strensth.
(i. 1). samoter. Rorb.


 with a liow invegulatr-shoped seres.






7. 1). remifloral Rexd.







 turle mentlotoryern.


















s. 1): ruemonst. liondo.







(1. I). ternerergislies. IR.

























 ightt $1 \%$










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im lin: in - 11 ri melue.





1:. I atimel?


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1.     - ru \& , il


(ii, 1 uill.


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The bark of thi small tree is in reymet amongst the dyers of red in Corlenta, amb is met. with in the m whets in that rity tor in trithine prive.








 forty minntex.

Ahome the red powaler med by the matives churing the IVolee holiditys is mate abont Thenerguep. of the harls of this tree.

ㄹ. S. spiculat. Roxt.
I-ares from lameeth to oblong-serrate, aente, Spikes asillary, compomid. Drepes, cur-











 slighty mited at the lase into one rime with the insertion of the titame nt: Filumenke ahme





 much lomer than the cot yledons.

## 3. ৯. firmginea. Hurh.

Teares lameonlar, semmitu, acmuinate, paaded-veined, downy undernenth. Spikes axillary, solitary, compound, dumsy.

 of the rains.






 uplere end of the asis. Shyle the betyeth of the stamima. Shegme three-lobed.

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\text { MLIOSA. Sclumb.gen. n. } 1 \text { sons. }
$$




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 atat the inte．
is M．Herins P．

 11－20
 time the lot - －

1．II．，imin．R．



$\therefore$ ． $1 . \quad$ ，. .1 ．






 W1；t．f－













i1．11． $1.1,1,1,18$






















 umbellets.




Th limg. Nhinlucra.
T'In. Sishontalim.
 the timble particulaly had and strong. 1 Foumes with a gland comsiderah! above the lane of the protiole.

## a. II. Hetce. Roxils.





 rifthe during the diy selath.













 thin (hafy) six indres lenf and seanecty once hoad. needs fimm six to cipht.
11. il. Kulhwa. I?.

 and ome it the lant pair of pimas.

Beng. Killlorat.
A lanere timete tree: a mative of the hills: in the vicinit: of (iwalpatal, and from thenee bromerht ta the lantanie fatelen ly Mi. Ki. Kive.
11. N. moeran. R. 'orom. M. 2. No, 21.

 peinterd.

A-scia procers. Trilld. 1. p. 100:3.
Teling. P'edden $\mathrm{I}^{2}$ atcirek).
A mative of Cormmadel, where it erows ter be one of their largest trest.
12. If. pulchellir. R.

 petiole. sipipules sinlmbitu.

 gery colom of its mamemas larer laves.

It is a mative of Mababre and firm thenee was sent to the lomanic ganden at C'alenta loy Ju. A Hintr.
13. N. cimetia. R. Cornm. pl. 2. TO. 1:2.2.

Tectes hipimate; pinnce ten-pair; leaflsts fwaty-pair ; stipules lumerolate; spites axillary, arowderl. pedumbed. mond: rerollels monadelphums. Legumes thin, linear and broad.

Actecial amare. II illd. 12. 107.
Tertiny. Nella menga.
Toma. Sitsels:mm.
A middling sizad tree, an mive of Coromandel.
11. M. firecticona. $R$.
 twenty pair. sul-taleate, minute, al slame toward the las of of the common petiole. shipules mimute, sulnilate.

From ('hina it lios lees introlneed intu the Botanic garden at cinlenta, mader the Chincere name Thrim-yenomiton.
15. 11. stipulacea. IR.

 monoshelphons. Legunc linear, leaty, from sis to twelve seeded.

Rrat. .In! , hi





















17. V. Aminit , Ii.

 twe w. - , 1.1.
















I+ U. J.











 1. 11 -

## If del. - +it .



















Page

## male-henter







## SEEC"I. II. I'mamed. Surikes cylimblric.

21. M. natams. Corom. nl. 2. . .. 119.




Nitti-timlda-vahhli. Rheed. T/ul. 9. 1. 201.

Peuty. P'ance-layak.





 proishes.






 IWtals.


 intender lior this plath.
$\because 2$. M. ademmiltera. R.






 clude they are the same.
22. Il. scandens. $l$.

 ed, with :un cmite mern.


Jerim-hath-1alli. Rthered. 1/at. 5. 1. 32. 33. amd 31 1.
Fintala. Rlued. Mal. Y. t. 7 -
Beng. (iill..






















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I.ege d-lixis 11,11 . . . . | 1015.

 Fruit. It timbrr is aime of it mexal 1 triti!.




 seaberms.






















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 $1114 \%$












Le the lin r. © it intid? I nt


… $1 /$,, in $, \because, 1,2,1 ; 1$


I. $1.211 \quad 11$.


I native of Commandel. Li Hewers during Lle many sobant.
30. A1. Iomernesesm. R?




Aremeial tomentust. Willd. I. Lons)
Reny.g. ant: harbul.
Ticm. Kıli-v.lo.
'Thi- I ham ane with in bangel, in the state of a smoll trec, but it appars as if it







 six to cipht-secterl.

## SECDI. IV. Thminy. spilies cylinetric.

## 31. M. demosa. R.



 immerliately wes of belhi ; it heaves are minute, and of a grevish collonf.
32. 11. lefromem. Limm. Suppl. 1. 3s.




Acacia: latrommm. IFitht. 4. 1077.
II.

A mative of the conat of Coromatulel, where it. blossoms abont the he eimmen of the hot
 banches, eovered with a dark lown bark, dotherl will white.
















 bent.
(theditwia homidtu. W"illed. 1. 10 ?as.









Treling. or Vi.llow.
Tan. W:urtataro.
A mative of Coromandel. The spikes of this plant are latre, drow Iarly elemant.

> SECTM. V. Priblity. Squilis sultindtic.
3.), M. oborala. R.

 leaty.

Page
Sti. N1. IV, rmi z. R.




Th inty. II , H1,











$37.11 . e$ \& $1 /$ \&. l?





Tiliat l'onlowl Matur.





$i$ i (i, $11,11,11$ i.
T ! . $\quad \therefore 1=$ ! 1 .

fll Il 大 A .


 froll $1 \cdot{ }^{2}$ ?

##  <br> Asm. St $=116$.

II $1 . \operatorname{sil}_{1}$.1tr.






 tue, lin r, lhin, fiom-i $1,1, i+h t-9$ ! 1 .


IB M. Mlia.






## 

13. II puolect. N'il'. 1. In. :31.
 ropistl! I 1 It lictrils.

Sill 1, it $\%$.

11. 11. "Mlathit. R.









Page




Be w\% Nhai-halut:a.

 trom calch other to make diarimet fure iex.






7i! in\%. Kminta.
Ju'sim. Rherd. Jfuit, Iral. (i. t. t.
Ateteit Intsint. Nith. 1. pe Wom.






timet. Bum-rettha.

 ual.
18. .11. emsiac. sp. ph. $151 \%$.



TVİ!! Komula Kurima.
A mative of (ontomather.




lliad. Bi worel.
Ic:ari:i pement t. Willı. 1. pr 1090.
A


in. M. linta. R.








## 








Bener. Kalkroknm.
Iclimet !alikee.


jompa shots of a bluish pmple colom, athl comect with a little white dust. Therns sti-



















f. . 又. Allo ula.




1. (!. Ahbriin ore. It




 sion lat.


 wll . 1 p.11月.




 8 1. It, lr h, , ren t ।




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ti. $1 \therefore=n+\pi$



## \%14 1. iner.


























Prge
 longe, singly they are ahout llo size of a cherry, convere with a than, dry batc. Sceds only ono in cach single berve, or lobe of the compenand font.
 the shott turbinate receptucle is exartly like that of diremer
'Ilic umripe firnits are boiled, med cinten ly the matises.
8. C. Arifoliata. R.

Arborentis, manmed. Leares tepminall. Curul interniar. Berry splerical.
Cratera reliniosa. With. 2. s.3.3.
Nurala. Riked. Mal. 3. t. 12.

RРм!. 13 иrom,
Teling. Tella worlle.e mer:a.
Common every where thronghont Ludia. it Bowers almont the bagiming of the lut


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I^{\prime} A T^{3} \| E R
$$

 permancon, deliscent tixma.

1'. sommiferum. Hille. 2. 1117.

Beyng. Post; ; and dinu, the opimu.
Pers. Kowhiar.
Arub. Khlun kask,
The laree simple, whitu Howered rariety, with white secd, is extensively cultivater in many purts of Ludia.

## ARGEMONE.

Calyx threc-leared. Cornl six-petalletl. Capsute milocular, opening at tho apex; receplacle parictal. Seads many.
A. mexicant. W"illd. 2. 1148.

Ammal. Leates stem-chasping, spinons. Capsule five-v:alred.
Beng. Lhera sheal hanta.
A eommon weed by rond sides, \&e. thronghont ludia; it blossoms and ripens its feed during the dry season.

## GORDONTA. Schreb. gen. n. 1114.

 mited filaments. Germe superior, fise-celled; cells tion two to throcoserded; whachment interior. Capsules snperior, five-celled. Seeds winged. Eimbryo iufirior, centripetal, with seatuty perisperm.

Fote, Notwithstanding the mions of the ring formad ly fle filamento, fand the matvaceous strueture of the sect vessel and secel, $I$ an for the prenent iuducel to plate this gems in the class Polyandria.

1. (i. inlegrifutite. Ir.

Arhorenns. Leanes hoad-laneenlar, entire, acuminate. Peduncles axillary, solitary, oue, two, we three-flowered. Capsules spherienl.

Hind. Makirisal.
A lange timber free a matire of the hilly fracts on the castern frontier of Behgal, where it flowers in April and the seed ripens in December.
2. G. oblala. R.

Arbormas, Leaves brond-lameolar, sermate, acute, emiacenns. Peduncles axillary, soli-


A tree, a mative of Pulu Penmer, where it was lixeoverd by. Wr. Willian llanter.
3. (i. decamirn. R.
 drons. I mative of P'ulo Penang, where it hlossoms in Miy.

Leares aitermate, pefioled, wal, sumoth, cutire. emamrinate, of a firm textme, aldust
 Corgmbs mallary, as long as the leates, these or form time dichotemons. fomers nmmerons,








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 vitellus. dive eti in various.

1. s!iment. li.




















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 germ ahm: one murth is dimmstr, ens l p lin its proprr thin white inturument, which
 lath of the vitellas, aml attached toitacerior, chevital puint, "I dome; oval, with the inner











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1. A. $r_{\text {m }}^{1 / 2 m}$. $R$.





Pare

Berng．I：is：ct he ulomite





2．… I．f14． $11 ; \|_{1} \cong 11 .: 3$
 White．Brovis alhat themt？cedted

Teling Tellia－kuhn，
Ambel．Riked．Jíal．11．1．－26．
Hinct．Kine
sicme．Liommomtr．
bienes．Shallowh．




3．A．rasitular： 1 ．





1．$\lambda$ ．cillernea． 1 R．

 t．1n on tweheroviled．
sums．Kithtiter．

Teling．Nomi．killwa．
It is a natior of similar place＊with the litu two．







 twdserather．
 thane of the lintur

ন．N．cscentonta．$R$ ．
 1． 11 －c．lld．

Bent．：（hotal surandi．
I ihe flue wher sheris－it erows in sweot，standing waters．It flowers dming the wet and







 tren－retled．
 of the firmer thite．

6．N．strllata ll illt？730t hrpos．I．：33u．

 Ben！．（＂hlotus it alk
Cit－andul．JPheal．Ilal．11．1． 27.
I mative of bencal，and the smatlest hadian species of this spenu－which I have vet met with．

## 」になにお，Cいと







lit ney l！1：




Tha，Will ：－u $11 \times 111$.


























IIJ \& N.RTI.! I , NAT.


1：1．
II ．サi ii ．Ith．．



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## 




1． $1 ., 12$ ： $16,1,1 \geq 1: 11$ ．

S．l 叉．I＇R 1 ，
l＇ver 1＇si．






$\mathrm{Jin}_{6} \therefore$ thinlt 11.



3．（ $f=\cdots, l$ ．

 li． $1,+$ ：







A untive of lengal, appeuringe and flowering during the rains; the seed ripens in the cool sullsin.
5. (1. rilocreluris. Wrilld. 2. 1215.

Anmal, (rect. Lecrees lanmen)ate, sermate, the lower serratures with or withent a bristle. Siputes msition. Fimerts pated, petunctel, and pedicelled. Capsules tiliform, three-celled,


A natice of Bollonh. It thowers about the end of the rains; the seed ripens in the cull Sealioll.
(i. (1. decemangularis. $R$.

Ammal. arect. Lectues ellipticully whong, obtusely serate, lower serratures with or with-
slipules ansiform. Flowers paird, subsessile. Capsules cylindric, teu-ribbed, five-edled; seeds inpertertly sipurated.

A matio of Bugsal. Flowering time the end of the rains; the seed riperts in the eold seasull.

## GRETTLA. Schreb. gen. n. 896.

Caly. $x$ five-leaved. Corol fircopetalled. Sectary a scale, or friugred gland on the inside

 more-seded nuts. Eimbryo inferior, centripetal, and turnished with a parisperm.
8. (i. oppusilifolia. Burh.



Inative of Nepal, from thence 1)r. Buelonim sent siods to the Butanie garlen at Calcutta in lso? and in Mard April, May, and dane 1s0s, the yomg trees were in flower, and ripened their secd in Oefoher and Nowemher.

Z'ruhk di-tinct, erect, stont ats a mon's arm. Bark pretty smooth, light ash colour. Branches iprending much, und envered with bark like the trimk. Branchets or young shoots bifarions, romul. hansh with stellate pubscence, mod very short hairs. Leanes hifarions, alternate, short-petiohed, from ovate, to rhomb-shapd, threc-mered, sermate, with the serratures obluse and equmblar, of an obscure green, and mather harsh on both sides, from two to there inches lomer, and one aud a half broad. Nipules ensiform, hairy. Peduncles npporte to the leaver, solitury, mueh longer than the petioles, romb, himsh, from three to five-llowered. Pediefs chavate, shorter than the peluncles. Flomers pretty hage, gellowish. Bractes, or
 hathets linear, therer-bibed on the back. Pelals laneedlat, with apices achte, but often somewhat serratedentate. Nectarial crlands romad, and ciliate. Germ ovate, hairy, two-celled, with two ornla in each, attached to the purtitions. Style the longth of the manerour stamina. Stignare of two, spreading green lobes with ragged calyes. Drupe from one to four-loherl, ono is most common, and the abortive ones apparatached to its bise on one side, suooth, of an glive colour, thesly'; fleath a dull purple. Juts one in each lobe of the drupe, obovate, thick, :and very hard, one-eedled. Perisperin conform to the mint. Wimbryo straight, nearly as long ats the perisperm, green. Cotyledons cordate. Radicle ovite, inferior.

1t is allied to (i. orientalis, but the ditference is sufficiently marken by the shape of the leaves, and their gramdan seratures in this, inderemdent of its being a tree, mod the other always a shrul, and seandent when protected and smpported; add also the smooth drupe with me.celled nuts.
2. (1. scabrophylla, $R$.

Shmbly: Leaces roumbeordate, scrrate, rugose, abore seabrons, noderneath downy. Peduncles axilary, two or thee-flowered. Drupes romad; wuts fonr, one-celled, one-serded.

A native of the upper parts of ladin, and reared in the Botanic garden at Condeuta frinu sed received from Cuptain Hardwicke, in 1803. Flowering time the hot season in April, the seed ripens in Octobrer.

Slem or primury bameloe several, erect, round. Bork of a dark brownish green, and someWhat scabrons. Branchets tew, and erect. Joumg shook hirsute. The whole phatit about theeso or four feet high. Leafes nltewhate, short-petiolet, of a rommb, or roundish-ovate form, and somuWhat obliguce. having the anterion murgins often slightly lobed, sermete, from the to fire:-
 inches long, and four or fise hroad. Sfipultss subulate, hairy, cadiseons. Pedue I s:avilary,








 Qd, attarhed thitwe base of a shomler filmome axis. Sied comform to the mat. cowerd with a
 Cotyledors oval, its laret ats the peri-peran, which they divide in two. Redicle oval, lorged in
the base of the perisperm，donse the thembilions of tive nut．
3．1i．pedicelliti，R．
Ledops ablong．printad，there－berseth，arrate．sut whath．Sipules m－iform．Predrencles



A mative ot hutry 1 मa．






 asillarg，hiree－houmex．

A＇athe of chittarn：1，where it lohosens in 1 pril．
6．（t．arient ztis．IFild．ㄹ． 11 lis．
 tary，tirerefowered；wh pos withl fonly，iwo or threecelled muts．

Pili paroe．libefd．J／al．J．t．Hi．
Jiling．l＇tyar．
A largh．somewhat scandeut，or leaning shruk，common in forests over ludia．Fluwering time the rainy meatson．

7．（3．usinticu．Willd．2． 111 fif．



## Beng．Phislar．

A bative of vorions parts of India，and often centivated in frardens．It it wors abont the


8．G．salcifolice．A．
Shrubly．Leates lancenlatu，serrate，tiree－inerved，hour！wid，meath．Stiputes lanemelate． Pedunctrs sxillary，long，nud slenter，nae，two，or three－llowered．Drapes round，with two one－celled nuts．

Teling．I＇notikee．
A mative of＇Curomamolel．It blosenms duriser the rainy seasons．
！．（i．hirsutr．「̈̈hl．stinb．1 34．Willi．こ． 1166.
 cles onte，two，or three，axillary，thre ur four－floweriv］；drw e form－sided，with four，out－celled nuts．

Teling．Jownllikee．
A large shruh，a mative of Coromandel；it blowame during the hot and rainy seasnu，and


10．（i．Filicefolin．Tiahl．syimh 1．3．）．If nlld．2． 11 fi ．

 tu six－cellerl．
 aloes eiten liv the matives．

11．（1．cuarpirgíliot．Jues．




## Tell ！a．Sultr．

A uative of the（＇irears．It flowers duriter the raimy seasent．
12．（：pilusr．$R$ ．

















$1:$ i futurgomy．$R$ ．


Pare
Cinrey
Led H1, -acerched int in coach
















 species.
11. (i. sppiterin. R .
 II. twin, singly two-lohe ! with the arod in encls.


 se:colli.

 short-petiolel, obor,



 enchl lab:
15. (i. supuila. R.




1i. (i. ubliq".a. l?.

 nuta.

A native of Himbostam. This har by far the larrest finit of any frewiot lave yut mut wilh.
17. 18. halemolila. $R$.



A untive of the Moluecal-lambs.
1s. (1. didyma. R.



Teline!. All-peyas.

1?. (i. axpera. R.

 cedled innt.

A m:ative at' the ('ipeor montmtains.
20). (t. nembellalar. K.
 entire. Reoeplerle cylindric. with pentagomat hate.

A nativa of smmatra. It thowors in tha Botance samen at calentta in April and May.
2l. Ir.pemiculali. $R$.

 fuls c-ntires.

I mative of 1'uln Pithotw, where it woro linnd by Dr: Hunter.
르․ (s. nlinifisior. If.

 thove-celled Inut.



298. 1+ higomat $A R$.


 rinnera, 1 int zin it is at tre.

## 






1. L. 7 , itir: $l$ :





J 1 1 18,




 の: r-a
































## 















## II.

Prge Letress silhemesila
 to (wo-ctlerl.


 fimm textmes, smonth on both sidne, exipt when very somuer, thin. and chothd with a litthe









 ed. magene, having the whes shapp, thick, hard, and tongh, ome, ruld two-celled. seat wht -
 Enirgo inverse. Cotyledons very thin, oblomg, three-mered, nearly as brad and long as the purisperm. D'mata two-lobed. Recelicle ovate, superior.
5. K. rubustus. $R$.

 hage tree. Flentriang time the begiming of thr rains ins. Junce







 each attacheal to the axis. Shyle soorter than the petals, shigmu sumll, tri-dentate. Diupe


 in ther other -pars.




















7 E: Al•ititu, R.
























\&. I: If $1=1$.
 thate.



 1, mixid.



## 





## 1. V. Lemerofiti. R.





























 egrasl than in the rembs sherere italf.



Patenoc. Rheed. Mal. 1. 1. 15.


 riperls in Ausust.



 other knewn t" 1 .











 ot the capmis.



















## 

 Limbryo erect, witholl piai-perm.

## 




 ＊：11，
















## 








## 7．1．．$\because=14$



















$\because \quad \hat{B} \quad$ i












$$
31 \text { inginy }{ }^{2}
$$





[^16]Page



Lemess shat-perioled, orate, hateoblate, very fincly servalate. L'mbels axillary. Cosol funt petallonl.

I Hitive of the Molnceas.
5. ('. Sur゙ign. Ruch.

 are linge. beantifinl and trisiriant.
(i. 1'. lameolariom. R.


 mad toliane are prety strong proofi of its bedonering to this erenus.

## HOPF.1. R.








 Willd. 1. 636 .

## 1. II. orloriata. R.






Trank ot the :
















 mament calys, two of the leathets of which are now anlarger into two linear ubloug, obtise,


 only two of the five lathets of the celly inereasius into wings, in havine a mome petalons edlol, and frome whorere int the stimnins.


 substitute for pitch.

## 2. 11. cglumlulesors. $R$.

Lefles ovato, nlolonge obtuscly acmuinate. no crlamds in the asills of the veins.
A very benmtionl labe tree, a untive of the hills ot 'lippromb, frou theuce plants havo



 sullicient to dintinguisis them.

## 3. II. sorapluilte. R.

 expanded receptitele in whieh the germ is inserved.

 Janlary

## 

(ify. Cume. Cofyr une leavel, pemament, two of the fire divi-i inm of its lumdor large,

 ed. Lint rom inver-s in prinporm.



 afree in the rest if the the rates ant hathit.

1. 1). turbe nter. tide (3) 3. t. 145




 June:







































 rifurn in Ityil and M is
2. 1). inc-1,us. $N$.

 иilyl.


 rij-iv in lymil.

1 I). chlulues. R.


 Sc. It is the wemt rit twe of the latere combtry.
5. 1). tuberentatus. R.

Borly of the ally shacrical, with fire kuohe muder it-five li-suras on the nutside.
A mative of 'hittaronir where it thuwers nbont the begimine of the hot mation, and the seed riperts int , hate.
6. D. pilasus. $R$.
 neath: stiputes re mark:thly lomer, alad very hairy.

A lame tree, a native of Dascerl Island.

## STIOREL. R.






 Stamiant from twentr-five bethites.

Thaty. mutl 11 inel. Stal.
 xipen in Jme:








## 616 2. s. 'renuphoritione I:


Cimphor-tre of sumatra, of that trom which buth the native camphor, and camphor-oil are ohtanined om that istatul.


 classed amome the hatent trees that grow on this erate several within daty view, meanimg

 ceed two or two amd a half fert in dimmeter. The satme tew which vichls the wil, womblhave





 ing and proxurine is greate then that of the commonali, of these whe gro in semeth of the


 and canhlon ane fimad in the hemt at the tren, oremplar $n$ vanmm, which in others is fre-







 gromad as in the formo instame till the camphor is sem: hamdens may be matilated indine

 comberence of the thicknes of a man's amm. The prothece ot at midelling sizat tree is abont




 rounls it."
2. S. Tumbugaia. R.

Leares orate cordate, lon- pretiohal. Prenu-fes terminal. Stemina about oue hmatrel, with beardal :ntheres.

Tit a. 'hmmlon_rai.






3. - Tminara li'.
 fifter:

Tam. Tahma.


 zup l. 3ti, 31\% 8.

## 

I/ arber imbic.
I nutio bf J'riace of Walde' inlat.

## 










 or litile tre












 ना





















 allal linuthochymes.





 2. (i. Cumboriar. Willil. 2. हIヶ.



Mangostana ('inhlorigit. Gíretl. srem. 2. 106. 1. 103.





This crrows to be at tre of consid rable size in the forests of Trusameone, where it is

 Jume and July.

## 3. (i. Zeulemiern. R.









 lailt an inch lons. Fli:ame lled, sumenth.




 centre Anthers twin.











3. (i. Cowte. li.

 six to cight-lobed. Berry tornlose, fonn fom turight-secked.
fliml. Cinsa.
'The tree is of a midele size and hand-ome; it sields an inforior sort of fanmbore, and the tront adihle, thomsh not the most pulatable. It is umative of ("hittafonge, mut tlumers in Febrmary ; the finit ripens in June.
4. (i. Iaterofoliar. R.
 lobed. Berry turbinate, with as lin :ts right sembls.
 and by thom caltivated for the fint, whicla they are fond of. Flaweriner time in Febrany ; its finit ripmens in luly.
\%. (土. Kylia. $R$.
Hioceons Lemes brond-lanceoolar.


 with llee sticsutat.

A matice of the Andaman lalamls, where it wat discoverod hy Col. Alexamber Ifyed, ambl









II If：：F＊me is in li＊

















 $21.110 \%$
fis i．）＂rome \＆$H$ ．







7 （i． $1, ~ \stackrel{I}{1}$ ，$R$



I 1 r 11 ん

 h．
























 （1） $1 \cdot 1, \mathrm{dc}$

R．Ir．，menlat t．$R$ ．
 Berry in ：．1，amemersect．










Pare
Carey
上a.






(1). (i. piefurin. R.
 with :18 tar at lime setuls,

This tree is a mative of the hifhent parts of Whand, whe re the seil ix a stiff whitish chay ;
 the wet. Flowering time, on their mative stil, Febrany ; the fruit ripers in May and Jume











 specia's of . Nonthochymes.

















 thers pritate. Pistill $m$ no vestire of one.


 trict, but not so permanelt ast that from Clima.
10. 18. curnew. Willd. 2. sis.

1) ionems. Lernes opmaite, whons. Florers terminal; male many-fold; femate solitary, Stigmarl finm-lubed. Bury fomr-suaded.















F':




 that of the real. Itengosteot. Perisyetur, ice us in the other species abrealy desmeribed.



 what liumphins says, if thi ha hic $t$ ere.

## エーMHVCJIMMS.R.






1 ( alcis. Is.








































$$
\because \text { it "flive R. }
$$












(x.m lintal:horh 1.






 lewgetlo of the :unpte p: rispervin.

1. 13. racemosra. Is.
fenmes hrmblamedat, semmhate. Racemes pemhloms. Calyces from two to three-parted. Frait ovate, fons-sidhd, with round and :arler.

Simb-travadi. Rherto. Mal. 4. f. 6.






















 Baringtonia ceutanguta hare exasty the sam conformation. In no ither have I obereved anythiner that com be calted a eotytedon exerpt the eopions perisprom which perfonms the satime





 to the wther.
1. 13. acutrangula. $R$.

Leares chucateonbrat se serulate. Racemes pendulons. Catys. four-parted. Fruit oblongs, fonr-siderl, with the angles sharp.

T:siovi: salustravadi. Rherd. Mal. \&. $t$. 7.
Ehgeniar acutan,pla. Limn. sp. pl. ed. Willd. 2. 9cib.
Sthavidium. Juss. gert. pt. 361.
ljul, the simserit mame.
Beng. Hiijul.
Wetrons: recimens. Lourier Cochin Ch. 109.

T'eliay. ('adanic.
This apecics is common in most part of Intia: it arows to be a largu handsome free, in
 arer met with. It thower about the burimine of the wet semson. Its lone pendulons racemes,
 ed, scabroms, tongh and thick.

## 3. 18. speciousn. IF illd. 3. 815.

I.eaces entire. Flomenson it terminal therse. Freit puramidally four-sided.


I harge, and beatifin tree, a mative of the Malay Arehipelago and the South-Sea lolands.

## CHTELS. II.

(ikN. Cunt. Culy. four-parted. Corol tour-farted. Stamina iconandron-, exterior and

 ample perispern.

1. (! sphtheriete. $R$.



 flected thatemal or cment of the ed.

































2. (. Wr . . R. 1 +r.n. is. A. -14.



ITli, K. Kunti.






If a. Bho i delin.



 June anil July.

## IVlilila li.





## 1i. fimem illh. R.*

Cong. Lum milla.










[^17]

 ed in two vertical row to the nxis．sighe shent．Nigmathre－el ot


 central receptacle near its apex．The hair wory readily enters the win and preduce is much



 twu－lubed．Iiculicle obloner，mperior，with its pnint immediately within the umbillicus．

## HCMEA．$R$ ．



 withont ：1 perisprom．

1．H．elatu，R．

 May；the sud ripens in（i）：thor，Nowomber and ！）ecember．

Sole．This traly majestic tre，apmens thenwithte a new gemas in the eliss Polume




 genus to the memony of that mont amiable haly，by whose death botany has lust one of its greatel admirers ami bust hemetatenc．

Truak struight and of a grent vize；that of foll grown trees in their antive suil nhmat fiftern feet in circumterence four tict ahme the mat．Branches manerons，spending，formang










 na，standins betwern them and the cerme opposite to itse five freove．：Filaments numernus， shemer，shortere than the peials，very shighty，or rather，searedy mited at the base，and in－
 turbinute receptame considembly alwe the insertion of the caly．e and combl，and wey hairy，




 conform to the capsile．Integments two，the exterior whe lirht－hrown and friable；the inte．



## OBごにVFはTTON゙S．

An incomplate drawing und deseription of this very stately tree，were sent to Fuglund
 latam；they were taken fron oxedent specimens in thewer received from Chitturongr but



 stages，firom Chitturong und sillet．





Tiline liramint.





## 





 + .
f' varol ir. R.













 1 ! 1






 the 5131 hms .

## 


 $f 1$

## $17+\ldots,+1, y=1-11$






; $\because$ i,











 if1 $=1$.



Page
 lets and petals. dipemes ropry hatiry.

A wative of the Molucerns.

## POHYANDRLA PENTAGYNLA.



 conmuctal
N. indierr. R.



 ('mupare with Ň. arvensis.

## POLYANDRLA POLYGIYNTA.

## NELITMIITM.* Jus.



 N. speciossm, irille 2. 1254.
 F'lowers many-petnilld.

T:unara. Rherel. ITel. 11, t. 30,
l'ulmar. isiat. Res. 4. Exf.
Sungs. I'uluas. 11 uhotpula.
The red raricty. linktotppla, Koknuuda.
Beng. linkta ludnur.

Brag. Shwot pudna.
Pers. Nilufu.






 with red, perforated imternally with many proses 'The joints in ohe phants are ofteni salded




 mate with a point ; the nerve that temmanas in this p sut is cimple and atemight, a! the oth or


 specifically lighter than nater; the hreadth of the lewes from fwolve to twaty-fom inches,

 ciently hone to almit of the leat floatiner ; pomm, rixul, at lhick as a ratan, ow thecher, armed with many small inoflefsive prickles, and perforatod with fom hereer and many anallor pores.





 petalfed (from fiftem to silly.) the extr rion nesesmall, amb coldmed, irvern on the ontside,

 two to there handred) inserted in several series within the preals, remmel the base of the werpl-



 it is sade to be in native of imeth Kiblimeer and l'orsia.












 thes mite with the pris. 1 .












## 



 peral.





## J., ('li, llat.



































filmay. liowatlon
 Aluil.

Pame


A untive if Ilinderostalu.

1. U. ne? Qusta. $R$.














(i. I), secthirller. $I$.
 latis's.


## 





























 testure. dividil


z. 1. Lilifera. H"illd. 2. 1こ....

I eवves lovad-lancon)late, entire, smonth.

A preity lure trex, a mative of the lilly conntries in the vicinty of sillu.t.
MACNOLLA. Schrob. apm. n. !+2.
 smemb, attarbumt interior. Capsules two-valved. Sred berritd, pendulous.

1. N. pumile. Bul. Repos. I. 220.
slumbly, crect, smootli. Apares broal-hancenlar, entire. Peduncles terminal, solitary, oriea


A native of Clama. Flower pure white, and inquisitely fingrant. Compare with louricom






$\because 1 . t, 131 . j \cdot 1 \div 2$






 fili－ 1 i 8 ． 1 j．

1． 1.1 r． 11 ：4． 12 int

i 1．．．． K ！H．1．1．1．

lir．I hat lis r，e 1.
$\therefore$ ：！h1 trati $\cdot .1 \quad / 1.1 .: \%$








 1 1 1 1



 elfar．




 the umbitionv（fit ：｜．1．）

 $1^{n}$ ris）rum．



$t \cdot 1 / 4$
A！ 1 ：19111．Rt \％．WIV．is l．．＇l





Jfo ，Nu

 $12, \ldots$





1．Ir rejt，ザき，If．

Page
Curey
Eu.
























 small, :t raizhit. Cotyledons ovate-oblonis. Radkele oblung, immediately within the mubiliens and pointing to it.
2. I. disera. R.

Shoblhy. Leares from lameobate to ohbng, acmumate, smontlo. Preturles lateral, two

 April and Nas, and the sect ripure in september. Trenh shont. som dividine into many















3. L. Tircuicmatra. Re.

 Bervies oxal. of the sive of a t pulthtstre.













 colonr. and :1pparance. Porisperm and emtryo ns in the froms.

 authe: very lons.











 al at the l Lac．！ll k ．Fity









 0x＋1 1 ！-mlis s．

Be．\％．1． 1 ．

（i．1＂．b collic．li


 lons，fremn $i, 0$ on（itit whl．
 durin！ 11 erall

7．1．melif fioles．R．





A．1．7 rey il．K


$3+131 \cdot \mathrm{Im} \mathrm{m}^{-1}$



 ！ 1 ．Lie if． 16 ．

























## 







Page
the rains; the tree is large bad elegant, bat of slow frowth. Int the wood is soft and white, and de.'rneal of litthe nese.
11. L. rillusar. R.
 contar. Braries owat, two - defl.



121 pilower \%.



A mative of th Mhhme:
1:3. L'. gicentifforte. R.














 riscid. crested.






11. IV. vetomotinitur. R.


15. 1. uncala. Lonvi. Cuch in (h. 1. :if.
 It is powerfully fragrant, the odour not malie that of ory riple apples, when laid to ripen in a garret.
16. U. hufeu. II ild. 2. 12G:。
 oral, abont six-swerted.

Teling. Muoi.
A native of the Cibear montains. Flowe cing time the hot w w ons.




Tiling. Doorlonara.
 int Inly.




Trvirg. ('lithei tloudausen.
Brand. lisura-ctal e.





20. 1. Lipmetran. R.

 and sipptember.
21. 1. Mrillaris. $R$.

 wickor in flower in Inne and Joly.

## 2!. I. nilidn. $R$.

 nnte. L'etats unequal, the inner thre' cunciform. B'errites sub-sissilc, one-sceded.

## A mative uf the Mulnects.


 amply fintui-hatl wi=! : preling rim.
i. I. tongrliosa. I'
 Juinte of the lextite tiens lat lina ar al late.















 2 153. 1.111




Telnel \& i ka almal $=$ ?















II.

668


3. (: de Ites f. $P_{1}$.



 Uetulat:

ATH.1\%EJI. Nobill.gen. \%. J!!.














Gex. Cran. Caly.r none. Corol of four or five petals; styles, persistent. Secels withont a tail.

1. T. braclealam. R.

Pereminl, scandent. Leaves opposite and thre-fold, hi-mal tri-ternate; Inaflets longe enrdate, owate, "utire; peduncles axilhary, solitary, one-flowerel, with two mposite cordate bractes above the base.

I received this very elecmim, small, seandent, phant from Dr. Carey, who fomm it indigenons in the northern pats of bougat. Filowering time the end of the cold samsom. horit pe-

 of an ohlipue, ornte, ohlong, cortate =hape, entive and smowth on boih sides, size wioms, the
 two uposite cordate brates above the base. Petals four or sis lane oblate, expmating very
 tweuty. Styles seareely any. Soeels with a sharp still bact.

> HANUNCULLS: Silfich gen n. a.s.).

Gen. Curar. Caly.r five-loavel. P'elals tive, with a houey-baring pore within the elaw. Seeds naked.
R. indicus, $R$.

Heect, :mmal; ealyees spreading ; fowers many, tmoninal, lower leaves petioled, three-
 twenty ; seeds smooth.

A native of Bengal, where it apperse in shady placere during the enh weath, Reot fibrons, ammal. Stem erect, above rery ramoms, smonth, pipmab, abme one and at batf or two feet
 nate mud simple, with hathes lincar-lamerolate; all are sumoth on both sidec. Sifipules ammbrameous. Flowers terminal, and fom the divisions of the hanchats forming manly an mombel, small and yrdow. Cuty $x$ spmatins, a litthe wobily ontwardly. Stedtriex, athot tiwenty. Seeds sessile ou a cylindric receptacle, oval, hateally compresed, with a pointed top.

$$
\text { GAI,YCANTHUS. S.htel. gerr. n. } 8 \text {.0. }
$$

Ges. Chanr. Caty. imbricat(ul, squamons; corol many-ptalled. Germs several, onecelled, oue-sededed; attachuents interior:
C. precox. Hilld. 2. 1120. 73ut. Mreq. 4i6.

Leares opposite, from lamecolate to oriate, oblong ; fowers axillary, solitary, sulb-ses-ile; inner petals simaller.

Oluai. Krampf. amopn. Sts. t. 899.
From China this sweet smmelline, rixid shrub has been reecived into the Butanie garden at Calenta, where it hosisms durine the monh of Decomber, hamary and Finmary at which time it is nearly destitute of leares, for they are decidnons iu Bengial chane the cold season.

# CLASS XIV. <br> DIDYXATUTA GYMLOSPERMIA. 



Calyx fise-tontlied. Zepper lip of the corol small, hidentate, and shorter than the stamins. 1. i. finticosa. Roxh.

Shrubly, owet, ramms, downy. Leares brond-lamceolate, serate; the smperior pair of anthers simple, the lower pair twin.

Nepela maluburica. Linn, sp. pl. ed. Willd. 357.
Tam. Ratti pemerati.
A native of the const of Coromandel, where it is esteemed a medicine of ensiderable virtue by the inhabitants.

Stein erect, shrubby. Bark ash-enlomred. Branches with four rounded angles, and furrowed sides, all the yomg tember parts coveref with mand, very soft, white down ; haight of
 or broat-lanceolate, sermate, and clothed like the yomes banches with meh soft, white down, fiom one to six inehes long, and abont on - fointh of that in bradth. Flomers numerous, large, purple, sessile, altermate, on opposite, de eqsisate, dichotomons, downy, ramons spikelets, which terminate the brmehes. Bractes tiliform, and like ace other part of the phant, downy. Caly. $x$ umewhat gihbons, month tive-cleft, downy; corol, "pper lip cect, (al-
 emarginate, of a lively purple colour, and much larger than the paler colomed, posterior, or
lateral tobec．Fomments manly eymat，and dethering th cach other．Anthers on the short，or Pago exteri ir pair of tiluncut：，win，on ilic bny or inne：pair，single．
$\because$ B．Nist lia．Roxth．
Ammal．ramoms．Teaves comlats，strate，downy．Spikes axillary，twoocleft，recurvate， seemul．fiotertes－ubuhate．Latrer anth is twin．

Billata disticha，Lima，sp．pl．ed．Wrilki，iii．los．and probably Sepeta indica of the عаиес，iii． 57.
lis afy．（iohura．
T－jala，n．Rhert．Mat．x．t． $8 \$$ ．








 be y．anl which it ay




3．1．Tpis．R．

 the－flower l，or tht the vertied．
 ruar！：mil sharet．



## 

 mint ate

T．stulanif ：m．R rb．
 Pandol s t rrminal．








## ELこごいけT\％JA．TVild．？



l．rilis2．li．

 the bowity ly the nation．Flowering time the rains setwor．

## MENTHLA．Selucle．If．I2．N． 967.

Calux tive－tomthed．Coral menrly equal，lour－ebat．Stamine erect，dintant．
1．il．promeshlle．$R$ ．




$\therefore$ 11．un－irularite，Wrilld．iii． 7 I．






this secms an undeseribul speceies，it is peremnal，a native of the tops of hitls，and the

Pase
 ainy 4est 11.



 hompth of the ralyx. scuments refleacel. Filuments much lomper tham the cornh, sub-equal, resy hairs.
 den avil is ton moint and tore rich for it, for there it has ulwilys soon perished with me.
4. 11. rertlimellentie. $R$.

Ammal, ercet. Leates verticelled, sessile, linar-lanceulatu, servate Spihes termimb, cylindric.

Benu. Piance-kulin.

Nems ammal, erect. Brandos at then the top, and rertioeded. Leaves verteelled, arsiln, limear, sermite. Spikes solitary, terminal, (eylimurical. Filuments woolls, twice the length wi' the corol

The plant has an conviderathe share of aromutic smell, atul titste.
©. .1. shellutu. Buch.
Npihes termimal, evlitadrice Leerers filiform, minnte. rieticelled.
ti. Mr. frutimana. Riorrt.
 ments and ety! mund lonere than the corol, mud virionsly hent.

A native of the 'ir"ar momatains.
 Sy (tum ns lairy, domble the lempth of the concol.

## 

Bisholtain. Bunksian lierberitum.
This phat is common, and indigenons all over Wengal ; Howering time the end of the cold (exi-()II.











7. 11. suliva. H"ilht. .iii. 7!).

Fhomers verticelled. Lentes elliptic, sumate. Namima honger than the eorol.
fires!, Drood ma. l'ulun, de.
Fomme conmom in sardenc themernomt Indi.t.
8. M. perilloides. I,imm, sp. |h. ed. II illd. iii. S.3.
 fonr-ided. Flomers in opmosite mproxinate pairs, sulb-semmd. Bractes as hos as the flowers. जtamens shome then the comrol.




 (1)




 Andiers of two diantinet loles.

## GLECTIOM.1. Schrel.g(2n. N. STl).


(i. piectu. Burh.

1 native of the skirts of the momatain of Xepal where it is called Viaske hy the natives,

 wom amel rijx theirs seral all the yome romml.






 tuste.

## 

## - Ah! res \& rinh al will tr! suy d ts.

1. I hat ats. Will l. isi. Ili.




 they at rotimi.

## 



1. J'. ry/if'ㄴ. II'l'l. iii. I 2li.



11i d. 11.115 i..










$\therefore$. 1 . $=$ itr 16 ili. $1 \because$.






 in rullib.
4..









i. L'. I da. li,




 * 614 : 11 .




 metlurh i! : if 18 tive




Homed. and If fr. |hert linl hitusad.
Iilidy. liu : 1 at tumi.

Pate
Curey
EA.
111.

11








5. $l$. ralucina. lione.



A unt ive of the in ex hever parts of llindua-tim.
6. L'. wrlicifulis. Willet. iii. I:l.

 liqnely tern-114 (rontatr-toutherl.

7. P. mollecerana. Riarlo.
 eis in asillary fiscicles. Incolure minute. Caly.e eren, tem-ribbed, ten-toothed, alternately stather.

I native of the Moluceas.
8. 1. mentume. hion. 1/ ss.


('ompure with 1'. chinmasis. I'ild. iii, 125.'.




 striated, ten towherl. (iniol; "pher liperect, vaulted, hairy; mader lip, horizontal, broad, therelobed ; middle lobe slishtly four-p:atcol.
9. 1: biffor". I'illd. iii. 1:1.
(reppingr, tomr-sided. K.emes protiod, ovate-oblonge, simate, smonth. Florers in axillary pairs: ; cerly.e tonthed, alternate ly : mat $111 \cdot \mathrm{~F}$.
 well with this phat.


 smonth. Flowers generally solitary, thomeh sometimes in pairs, axillary, primuched. white. In-
 nately amaller. Corol, of two lipic nearly (4plal in harth; the "ppere one erect, vaulted, and very hairy; the endre one very brom, and there-parted.
11). 1'. pilmsa. Ro.d.
 litary, sessile, nakeel. Caly.e with :nn even. tem-tonthed month.

I native of Be real, whe re it fower during the rains.


 ton-striaterl; moth even, hairy; "pper lip vathed, and very hairy; the under vite of three, broal, villuus scegments.

## CLINOPODIUM. Scheb. gen. N. 980.

Involucre inany-leared under the verticel. Catyx bilabiate. Corol, withe upper lip plain, obeorlate, :tul straicrlit.
( $\therefore$ repens. $R$.
Root inmual. Stems and branches fonr-sided, ereppine, clothed with reenvel hairs. Ieares


A mation of Nepal, from thened ine. Buchanam sent the seeds to the botanie gaten at






 merouts, loug distiuct hairs. Coly. striatel, hairy.

## 

Colyg whit the npper lip circulat, lower on four-parterf. Corol reaninate, with the superiur lip fonrele it the uther mulividet. Exferior filaments (in onme of the species) crested ne:ar the lase.

1. (). rillosum. $R$

Page Caroy Ed.

Shiruhls. Bramches mumh, villuns. Leares ovate, ohlong, obtuse, sermate, downy. Bractes prtioled, mbition. contate, armanate.

IJ halo it- Sancerit name. Seq Asitt. Res. is. 28S. 9.
Minat. and Beng. Tumlati. or Torlai.
-hbli-firtavis. lihed. Mal. s. / si.
 mery art of halian : it is in blussom in -t part of the yoar.






2. 1). stmmem. II: ld. iii. $16 i=$.



N, lla-Tirtara. Wheel. Mal. x. t. 85.
Jomina the staserit meme. sie Asint. Res. is. p. 188.
Beang. and H, m. Kalia. or Kirithal Leola-i or Toolai.
Trliarg. Kri-bur terlami.
Is lway finm coltivatal in the fardena behonerine to the Hin lion temple in flower all the reatr remid.




 and \'isinn.
3. O. altam. $\mid$ Ihtr iii 1 ch .









 corvl, aml (ex - lil.













f. () crempheyllatum. liw.rth.
 limutolate.






 lanceulates s.

 calsx, hager pir jumbent, and ermed a me the hase.
7. O. pilosum lash
tioht, sulb-orbicular, hairy; "rper lip of the colyx whiculat and hat $\%$, with comen infe it denertl.

Bente. Baburni forblai.








 natives.
8. O. gratissimun. If illd iii. 110
 short-petinded, cordat lamerolate.
llimel. Kam-tulıi.









 patir near the bave.
9. O. Hasilicum. II Illd, iii. 1fil.






10. (1). pertlyiturleymen. Il "ill I. i. is is.

 Telin!! Noert. i. e. wh T hatan.







 no fracrance.
11. O. Inberasin.m. Ridall.
 oral. P゙iluments winiluss.









 it is cmtirely uleti 11 ant -1.111 .







 Ah:thes inctumbent, oval.



1:3 1). , $九$. . For.
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 ath $1,11 \ldots \ldots$







## 

 Fin y is '.

1. 1 . $\quad$. $!$
li=411. 1 \&




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 th= N1E:












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$11 .+1$













3 1', $, \quad l, \quad a!$




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## Page

 Curey



I. I'. , mommitions. Rord














 ing an exerllont sulstitnta for lBornge.
5. P. strabilif(mens. Posh,
 terminal, compact, strobiliform. Lower lif of the calys shot, and trumeated. Sectory, searee ly anty.

Kiatu-Kinkis. Rheed. Mal. r. t. 90.
lalvembla carnowe. WFilld. iii. 63.
It is amman, a mative of the most shaty clifts of the rocks, mann the Cirear momintins, It flowersedaring the wot and cold ecteons.









 der side.

## SCUTEL, IRIA. Schreb. gen. N. ne!).

## Calys with the month sub) ntire, after infloresecmee closed with it lisl.

1. 太. indica. Willd. iii. 175.
 expand imbricated with opposite, one-flowered, lamenolite, bratetes of the lencth oft the peduncles onl!.

 spasoll.
2. S. pereqjina. H'illd. iii. 171.


 hot reasolis.

## COLEBROOKLI, Smilk.

Agracate. Common perianth imbriented; proper bumath, five-cleft. Coioltets one-
 four, naked. Rereptacle naked.

1. C. ternifoliu.

Shrmbly, crect. Leares three-fold, lancoolate, semulite.
A native of Mysore, from thence the seds were semf hy Dr. Buchanm to the Botamic garden at cialenta, where the whmbs blossom in Fibuany and Mareln,


















## 己. (: i) Mo ittit (li).















 समा Hithl. Hht.


1 .
 Alt



 a l lur. wesh, +











## 

## 




1 (1. 1,,$~ f$ ! $i$.

















Pago
\# 1). re'rules. Ro.rth.



















3. (1). Jeater revlule. P'rall.





 or two :1














## ATHEENTHIS. Timet.



















## 




1. 13. ascutiors. II illil. 337.


lialn pulapuen. Wlemed. Med. ix. 1. (fi.

















## 






i, $\quad=1 i=1.1$
II , , 1, r \& , it 1 ا
l, I! , him.











 lat. 1 1 1] lo






## 







$r a 11+11+1$










 1!! !


 il in, l1, ${ }^{2} 1$






Page






 a conspieumse plate in the shrubhery.

## 7R.IRLEKIA, Schich. !ome N゙ 1 (is.


 partition.

1. 13. prioniles. NFilll. iii. 376 .

Shrublyy : thoms axillary, fom-cleft. Leares broad-lancenlate, spinous, puinteal, sumooth, enfire.

Fonroonlutiz. the Sinnerit hante.
Ben!. Kinuta-jater.
Colett:1 veotlit. Piked. Melt. ix. t. 1.1.


Trling. Jooleo guvinda.








 eakll roll
2. 13. hurifolier. Hं illd. iii. 377






## 








 sill uls movis ill ath w！














i3．li．silial 1 li ui）
















$B=1-\quad i \cdot 1$




 Noli，！diche





$\because \quad \therefore$ I 14.

Tharte rial ulic a．Il ill t．iii．37：1











 two is द：＂．vilu．





7？（180
（intry
Ell．













 app arance; I hitw had it in m! carten llan! years.

## 


#### Abstract

  1. Ii infull.. llyiul is in. ib     










 with mhtly, ton'm - cilluc.






















## 3. li. ratermasa. lionel).




 fower in dume.

1. 2. nomosk. Towath.
















... R. Alera. Roxd).
Slarublay. sia wth. petioled, nhburg, reatrio se, taperiug mode at the base, sub-entire


A very pretty, small shonb wban in ther, fi und ly the li.s. Hr. F. (iarey in the vici-









f. W. risegens.


 fom shary for my plant.











7. 13. crowe ? I' asts



## 

 nlare the






















Hie phont has a nowh, but ples-ant, fisigrant anmell.
is. R. hurla. rele! sumb. iii. p. nl. 1. lis
 surmometel with tamembte hrates. ('afoseles limenr.
 the 1-1/d seanall





Ed. Thim is a variety of this spectes, with white therers.
10. R. Lelebrosa. Ro.ch.

 seneded.






11. 1. playelliformis.

Herlmeeons. Shoots diflises. Redieal leaves petionded, ohlong, and whtuse ; cornline remste.
 near, many-steded.

A hititic of the Xednewns.
12. R. P'arelfo. Pioreh.

Sulforex, bory ramons, difhise. Leares owate, pointed, sermate. Spikelets axillary, and terminal, -ubsescile. Corol with at regular, fise-partell horder.

Telinet. Pavala.
 except that on the flowers, matsere for hath.



 hurder epmal; in the last it is grimanes.

13. R. Lractenta. Piostb.

Shrubly, stmight. Leares osme, pointet, servate. Flomers axiltary, solitary or racemed. Bractes cordate, chatiy. Corul (anmpmatate. Cupsules townsteded.





 hons; border sulborpat. Inthers twin, the lower point of coch ads in an interved \&pur. Capsule oral, two-secold.
14. 1. fasciculata. Hilld iii. p. 1. 3369.


 the enold $($ ensisit.

Rool pereminial. Stems ant breneches manerous and are so intermixem that the re is ne







 alouve the other.
15. 12. imbricala. Willd. iii. 36ff.
 renitorm, cilinte, many-ftowered; "pher seqments of the calyx very hat lancendate.

Found wide in shatly places in the vicinity of the Botanic saden man c'alentar. It blussoms during the cold wotson, and is soed ripen in March.

Slem searecly any, but mameroms, sub-opposite, jointed, weak, straceling branches, often resting on the cromed, and in that cosc rootsisine from the inints. Leaves opposite. Gons-petion-







 like the lmates. (rucol hilabiate; the upper lip bitid, the under onc-tritid. Cupsule fomberedhel.
16. In. depurters. Ruaib.

#  


























If of ivita, fritm.














 side

1, R. A , t R R






















$\because \because \cdot+1+r$.






Page lous. Flowers williry, hlarefold, one at common shurt pechuche, pretty furge and of a plens-



 нииетоия
23. R. smffimicasa. R.
 Floners terlung, few-sended.

A small, wet, ranoms muker thrul, of wibnt one form in height, with large, temminal
 morning.

A native of the district of binugeprex de.

## LHP1H.IGATHIS. Willd.

 one three-parted. Anthers twin. Ciapsule twocelled, two-vined, busting with elanticily rontrary to the partition.
L. mesislatu. Ẅilld iii. p. Lur).

Peremial, ditlime: Lecuess opposite, sessile, lanceolate. Inflorescense, a slemse head chmo to the erown of the rent.

The semerice chanacter is but litthe remowe trom Barleria, but the hatit of the plant is very difternt. It is a native of elowited, ily, barmaground, all over the cont of Coroman del. Flowering time, the rainy and eold semeon.
 ramuns, sumoth branches, spreadiner cone on the ground, and ofters striking root. Leanes ope
 Three inches long wal half an inch or leon broad. Inflorescense in large, varionsly shamed, chace-
 joints of the lave branches, Bractes mumoms, inbricated, lanceolate, ciliate, puinterl. Flowers aumerons, small, of a rose colour. Caly.e of two pains of merpal leatlets, the exterior pais much larger, with the lower leathets thelentate, all are hairy and ciliate. Curol one-pertallet,
 (marginate; the under lip haren, therepartanl; midde division bread, cmarginate, a litte comed. and more clenply coloured. Filcments within the throat of the corul. Anthers twin. (ierm
 "wen with the anthers. t'apsule wate, acnte, sessile, two-eclled, iwo-lubed, bursting with elatsticity, as in Juslidia, Burleriu, dic.

## ROSCOEA. R.

(ibx. C'mik. Involurve few-flowered. Culyx tubulan Corol irrarular. stamina very long, and distinct. Germ fon-ecelled; cells one-seeded; wllarhnemt superior. lierry one-seceded. Embryo erect, withont perisperm.

1. li. penlandra. R.

Ineolucre six-leaved, six-flowered. Flowers pentmadrous. Stigmu Litid. Leaves upposite, from ovate-oblong to lancerolute, - 11 ontli.

K゙ungea, the Bengalee name.
A large, climbing, permanent shrmb, it mive of the forests near silleet, where it flowers in February, Narel, and April, und the sed ripens during the rains.

Trumb ligneons, som dividing into many lomg, scandent, woody bumehes, covered with
 seabrons, very sinalt, med vilhms. Slipules nothins more than ut villons ridge. D'ancle axillary, amd terininal, the terminal ome lapre, and composed of se wat pairs of opporite, spreading, four-wided, vilhons bunches. Cimbellets opposite, solitary, houg-peduncled. Brarless like tho leaves, but much smuller and vithons, one maler cach of the opposite pedumela, when support the mandellets. Involnere six-latved, and abont six-flowered; lemfle/s spending. linear,
 Perianth proper, campanulate, contion, rithed, villons, permament. Corol omerpetnlled: Inhe
 l'iluments tive, er sumetimes six, correspomding with the serments of the horder of the corol. mergat, inserted within the month of the thbe, mull longer than the corol und varionsly bent. Anthers two-lutud, condate. Germ superior, hairy, tworedlad, the cells more than half divided by incomplete partitions which profect fiom the ventere of the complete one. Orula four, one in and rell, atached trom the upes to the top of the axis. siyle the lengetly of the staminas.


 chous contorm to the sed, nearly equal, the line of sepmation serpentine. Redicle wath, inferion:
2. Li. rillost. $R$.


partible, cath prati chanserdent.
 fonemtation by the nation.










 Han the Howers; thon on the insite of the hame next to the flowes hairy tike the caly. Se-







 tions. alate an lumg un the stamina. Stigina bidentate:

## 3. li. toment warl. Il.


 it hlosemme is Mariols.














I native of tombandel, where it thwers in the ohl women.

## 





 turbin:1t, dy?
libhameria multitlura. Burn. Ind. 137. t. 15. f. 1.
Tithen of the Thinms.
Of this small tree, there are two baritice, one, the common one, with white flumers ; tha.
 anmelel, sud dithers from the white atiot in the colour of the thowers only, conserpenty, the sithe dexerip tion arver lion indth.







 aurbinti, fintorgatible.



Jivaty ISM jun al
 Howertite time, thr eht - awo dhitly






## 



 out prerisinem.

1. V. Iufiorlunata. Rock.



Perngu. Rhe d. 1/at. ii. t. 23.
Bhati, of bhantane ins sinsert.
It ined. Blant.
I red proty shoub whon in thwer, and linit. It is generally found mater the shade of
 semp rijeres in A Arril.











2. V. Buchaneni. Rox\%



 the sered ripen ins in dathatry.




 six times hager than the caly x, (this monk atome distingrivishes it trom Folformerig infortu-

 lome.


 succulent.




 ed with sum




 the upher sile. Stamens ascernding. N/igma hifid; seqments arente.

## f. V. dentata. $R$.

 overlat eamb of her. Panicless terminat, hachiate, coloured.





 and wh me, viz. at vers bright demp newret.
d. I. MWh fillit. Ruche.
 minal, colotrex.

 athl (Vetoler.


















(i. I uonect i. Pu?



A hitive in ten Whll ${ }^{\text {an }}$

 minat, whin - it $u=$ atis.















 tom, rola the fur ln utif ulit rome. ;







- V. $f^{\prime}$ Vime © $R$. $R$.






11. V. mere idia i












${ }^{\text {Page }}$
Caroy
Ed.

Hage



 -apsinle, whlang, taperime towards the have fulfor nents twe, hoth soft, thin and white.



## HASTLNGLA. Kümin's Mis.


 sul, inturion. Copsute finmr-lubet, four-partible; lobes one-Eteded. Eimbryo ereet, withon? perisperill.

1. II. rorcinea. Köm. Mss. Smilh's Erotic Bolany, 100.

Lecures cordate, surate. Panicles terminal.
Hohmskiohlia senguinea. Widld. iii. 3,00 .
'lhis most elemat phant was bromerht origimally from China, thomgh a mative of the
 with single stems but if left nlone, the branclas sprend fire every wis tron the buse of the

 It grows rearlily fom cuttinre.

Breanches vely munarous, hathate, while youmg somewhat fomr-sided, and a little downy. Tomes opposite, petioled, cordate, sermate, long, pointial, a little lowny, from there to fonir
 componud racemes, termimal, hrathiate. Predmedes and pedicels al litale lativ. Broctes, the


 ing with as sight comvature downsaral, compressed latemally, whening equalmally to the montle; om the in-ide a litthe downy. Boreter small, five-parted, the moter division larger. Stamens from the midalle of the thlse, mad projereting a little leyomd it, clecliniag a little, sumewhat
 partition a littlo ahove its middle. Stule doclimate with the stamens, and of the sime lemgrth.




 semilman. Ratime w:il. inferios.
2. 11. sectulens. $K$.
slambby, seambent. Fenres corclate, scrate, acmuinte. Flomers axillary.

 be muthiner more than II. conceiner in its wild state.

## STPHONANTIIUS. Schrm. gen. N. 165.

Calys five-parted. Coral one-petallod, with a rery long slander tube Germ suphior, spems fimrecelled; celis one-serded; allurhment sub-interior. Berry fomr-lobed; loles oneeveded. Binh ryge ered, withont perisperm.

1. \&. hastatio. R.

Lerares opposite, hatiate, downy.
A large shmb or smull tree, a mative of Silhet, where it is called IFatfee-kana (Filephunt's (atr) from the shape of the deaves. Flowers in April aned hay, and the secel ripens in Junce and Jul!.


 Beacies like the leares. but small, ambliminishing fast towarl the top), or exteme divisions of
 ing colonred. Conol with a long, sleuder, reenwod tube. Border of fire, nearly comal, spending, oblong segments. Filaments; two pais: inserved intes the tule of the exiol a liftle within its month, long, coloned, smowth, rarions in their diree ient acerdine to the leneth of time


 Shyle the lengeth of the comol. Stigma hitid; lobes arnte, spreading. Bervies shorter than the calys, four-hbal, one, two or there of the bobes abontive, the fretile owes whotate, smoth,
 ovate, thesly. Radicle rommetish, inferior.




-iphontumthar ind.4. It..
111.

(is









 pedmeled, itt













## 





1. V. tr!tub. II : $\therefore$ : iii. 3!!2.



## 








 mathly








2. 1. Impr the. II, let iii. +ntes.


lienn-umi. Nhe d. Mal ii. I 1.2.



Is u! all II, d. Nivinta.









the botfon of the herry. Corul: lumer lip large, eatire; "pped lip shorter, fonr-parted
 are put muter the heme to remove : cotaryh, and the head-arhe nt hending it.
3. V. paniculata. Lamarek Encurl. ii. (iof.

Arborevis. Leares dipritate, cuinate; leraftets ownte-lanceolate, entire; the exterior one petioht.e, the two intierior ones smath, und sessite ; smooth above, homry undernenth. Puxieles termimus.

A native of the Molnecas. I doubt whether it be any thing more than a broat-leavertluxurinat varinty of Negunda. Rumphius, $13 t h$ plate of the 4 th rol. af his Jerburium Ambuinetnse, is it hat reprethtution of this plant, though wo toubt intended tor it.
4. V. altissima. Limn. Šuppl. 2! t.

Arloneous. Learest tornate; lecflets lanceolate, entire, acuminate. Punicles terminal, composed of "plusite, verticelled, simple ramitications.

This, the most stately tree of the genns wheh 1 lave yet met with, is a mutive of the
 and August. The same has since been fome in the eastern parts of Bengal, where it fowers iu June.

Trunk crect, of rery considerable magnitude, and cowered with sumoth greanish gray
 somewhat down, with the upper surface of a deepleren, and the luwer une pale. from three to six inches fonig, and tron one to two broad. f'tioles common. somewhat chanellod, and thonsh long, they ure shorter than the keathets. Panicles temmata, composed of a few loner, simpte, opposite, pains of sub-verticetted, downy -pikes. At a more advaneed uge, what appeared verticels while yomg, berome two opposite, shom, bitich, or triticl mend spikes. Flomers mancrons, small, collected, into short-peduncled, opposite tasciches, which appear like verticels. Bractes linceolatn, concmee, fowns: Culys downy, the swments rather mequal. Corol, tion. Slyle finly ns long us the corol. Stigma lificl. Drupe romul, ot the size of a peat, sumoth, succulent, black. Fiut ruund, hard, four-colled. Seeds solitary. P'erisperm none. J'mbryo ereet. 5. V. alata. $R$.

Arborenns, Leaves ternate; leaflets lanceolate. Petioles winged. P'anicles axithry-
Mail eloa. Rheed. Mat. v. $t$, 1.
A mative of ' 'hittagong, where it grows to be a lage tree. From thence it was intron duced by Dr. Buchunan into the Botanie grurlen at Cubnta, where it blossoms in the month of $\lambda$ ipril.

Truank straight, decornted with mumerons, sproading and aseending branches, whole height of trees ton years ohd, about thirty fect. Berksmonth, of a dark, brownish, asheobomr. Leares opposite, ternate. Leaflets lanceubte, smooth, entire, about six inches lomg. Petioles winged. partientary while the trees are young, about three or fom inche long. Pancles axillary, solitury, erect, brachate, with ramifientions diehotomons, sml: sweile flower in arh division. Flowers mumerons, pabe yellow, tinted with vow little bhuc. Caly. campannate. Border uncumally five-toothed. Corol, the middle lobe of the upper lip large, in prourtion to its hateral whes; the ander lip two-phited, and smahl. Antherstwin, mul of a bhinh colour. Berry round, smonth, pulpy, when ripe pmrple, and the size of a ruarrow-fint peas. Fint turbinate, furrowed, four-celled, with a siugle seed in cach.
6. V. incisa. Willd. iii. 392.

Shrubby. leates tewhate and quinate; leaffets liroad-lanecolate, grashed, of a soft fine texture, all ine more or less petinted. Panicles termimal.
V. Jegundo. (wut. Jrag. 364.
$I^{\text {. Chimensis of the Bonlisiun Merbarium, seems to be the same. }}$ A untive of China, firm thence Mr. Wilthan Fers sent seed to the Botanic garden at Calentta, where the phants thrive luxuriantly, and blessom what mader one seme ald, and when less than a foot high. In six yeme they seenin to haventained their finl size, and are therefore large, ramons shrmbs, of from six to eight fect in height.

Stea short. ligneons. Branches mumerons, forming a large, ever-green bush. Leaves opposite, long-petioled, temate, and quinate. Leaflets whlomge. grabled, acute, sumoth on buth sides. Paticles temminal, fiom two to fire inches long. Flomers ummerous, suall, whitu. Loreer seyment of the border of the enrol much larer than either of the other four. Drupe the size of a grain of hack pepprev, with in four-celled nut.
8. V. urborea. $R$.

Leaves trom termate to quinate; leaflets sessile, oval. Panirles contrmetel.
Teliang. Bousi.
A mative of the monntanons parts of the Cirears, Chitagong, fle. wheme it mows to be a very large tree. F'nwering time, the hat semson; the sects ripenduring the rains.

Trunt straight, high, and of a harge size. Batr nsh-coloured. crackerl. Heads sproading. and shaty, but amall in propertion to the si\% of the tromk. Leares opposite, petioled, ternate.

 there are five. cestrion one from one to three inehes broal. and from three to six inches long, the lower pair considerably smabler. Pelioles the length of the iaforior lentlets, chamelled, downy. Pramicles terminal, contrneted, hamehy ; branches opposite. dechssated. Pedeneles and pedicels four-sided, villuus. F'luwers numeroms, small, blue. Bractes vial, retlexed, downy, one
helow wall ramitiontion. Caly, campanulate, ife-touthed, promment. Corol; tube somewhat
 Gurd $r$ two-lippend; tho uppee lip "roet. tw eleft; the under lip reflexed, three-clett, laviug





'The woxt of thi- tre when whl is of at choolate coluar, exceedingly hard and durable. whielt remters it at tinl for varions purqumes.

 suowh. Practex axillary. dichotompls:

Kariil. Whed. 1tal. il. t. 3ti,
A mative of Ci! lun, Cormmatel, aud the montans of' Chittagong, \&c. Elowering time the month of April.











 large ymantity, of a dirts black cobour. IW ohdong, cenmprosel, sonew hat furrowed, fonr-



(1). V. $h$ teropituling $h$.
 entif, atcumin (t. समाल It.


11. V. Allig-a $R$
 dich tommon*.

 and May.

## 

Crlux from thre (i) tive-t-uthenl. (oorelirre-shar, fine tiverclett, womlly. Anthers



1. P'. laty filla. Ruxh.

Arlowermi* Lo zow romad-comblate, entire smouth. Corymbsaxillary, and terminal. Throat of the town waxaly.

Ïrleng. I'th la-nellu-Kitra.











 2 I'. Ianclore. Ifilld. iii. p. 311.
Arlorewth, Le erf ovath-chulate, 1 ninted, antire, wry downy. Panicles trminal, corynBifurt.

## Tiling. Ханинон.







Page Carey


 But as in the where sperem, in this seldom umper than sue of the semp ripen, whel makes the most apear to live mily oune edt.
3. 1'. sertulif diu. I'illu. iii. 311.
 min:al.

## Beng. Bhout-bhiruvi.

 the miny monthe of July und Aurn-t. I'le whole plant hats a heary muphanme smell, nembly








 mal thereprited. Inllos twin.

## 1. 1'. spinow Roxh。

Irbore ms, armed. feames oppontu, there or fun-fokl, oval, atire, smooth on buth sides, Conymber termital.

Guminalitoret. Rumpla, stmb.iii. t. 131 .
Hind. Ciatinlumedi.

## Benty. Limistri.













 rongh, four-wellend.
B. P. cordifulia. Roxs.
 late al ishimin. Corymhes terminal, derensente, with ramitications dichoment.
 with anty other I have yot fome in lmbia.















6. I'. lamyif.3ia. lionh,

A native of Bompal, who it biensoms durine the miny shom.






 touthed. Calyx lilabiate. Corol; tube short; lorder finur-pa)terl; "pper dieision longer, mota




-1. hertice e. la.

líny. li кi linll.









 sill is. (u's ihes hel dill.





'1. l'. r $=$ le I R. $K$.
 terninl, \{11 .












 wic perisat "11p linc it


In l't, rifith Hi lit iai in!.




11. 1'. \& At. R. R.

 a $t$ ilnemt 1.


 in hut tron atmin of






 sum ©



## 





 and dpril: the seed ripuns in Angust and Soptember,











 With ome ovalum in eath, attacherl tionn a little mober the apes, to the npper part of the axis.


 entre. Seed solitary, linceolate. Perisperm nome. Limbiyo crect. Colyledons crinturn to the seedl. Radicle sunall, infirion.
2. (i. arborpa. Rorb. ('oiom. pl.

Arboreons, mmamed. Leares opposite, cordate, entire, hoary muderneath. Paricles ter minal.

C'umbulu. Rheed. Mat. i. 1. H.
Glembharee, the sanscrit mame of the tree.
7Brne\%. (immir, (icumblatr.
llind.. Ioogani-ehoxoku.
Teling. T'igr(x)moodn.
Tom. Fbomanlee.
A large timber tree, a native of the monntanons parts of India. Flowering time the Fegimuing of the hot saratint.

Trunk stanimht. Brat ash-enlomred, in young trees, smooth. Branches mumerons, sprading in every direction, so as to form :thrge shady hode Leates opposite, petioled, cordnte, pointed, entire, with the nprer smeface smouth, ind themularome horry, firm fom to tem ineles lonne, and from two to six or seven breme ; at the base where it joins the peotiole there are two,
 cles torminal, wsite, composed of expandiner derobsated, downy racemes. Brables lamoenlate,


 two pairs; the longest consielembly ineurved. Anthes:s bitid. Germ romul, fomr-celled, with nue ovnlum in each, attoched to the top of the axis. Notye as long as the stancur Nigma bifid, one of the lobes much longer and reemed. Drupe oval, smonth. when rip." sellow, of the si\% of a damson. Nret tomerolled, thongh it mely happens that the fom are fertile. rions eonntries where it grows. That of such trees as will square into logs from eighteren to twonty-four inches resembles Teak more than my other sorte I hare yet anet with. The colour is almost exactly the same, the gran mother eloser, at the same time it is filly as light, if not lishiter, and as easily worlicel.

Sonne vears ago I received from Mr. M'('leish, a Timber. Merehant, then residing at Pat-
 nearly thirty feet in length, and at the thickest emol was fall twenty-fome inchess sume.

This prece afforlerl ample supplies for virions experiments. One of them, mod the most interesting, was made by placing part of an nutsicle phank in the river, a little above fow water mark, exatly where the wom is thonglit to exort its grentest powers. After remaining three yems in this sitnation, thongh examined from time to time, the piece was ant, with the view of carying a speremen of it to Enerland, and to my great juy. I fomm it as somml and every way a perfect thonghont, as it was when tirst pui into the river.

Amomgst other things, a valuable tlood cloon was mate of it, to krep the tides ont of the Botanie maten. It is now seven ycars and a half sinee the dome (wheh is fome feet sfare) was made, and thomgh much exposed to the smm amd water, yof it lomains goxd; while simuilar donrs, thongh much smaller, mule of Teak, were so much deeayed, a year ago, as to render it necessaly t.o replace them.

In addition to my own experiments, I have lately learmed that the decks of pinmuees to the eastwarl, abont ('hittowomg. 1)ace:, \&ie are marle ot this timber. becouse it bears the weather better than my other they know, withont flankiner, warping.

These fivomable eiremmstmeses indmee me to lope that expriments will be mude to aseertain its valne when used for the bottoms, and njper works, of vesisels, as well as for kuces, ('mrvel timbers, \&ic.
3. (i. villosere. Rorb.

Arboreons, spinons. Lecores opposite, petioled, trapreiform, rather sinl)-lobate, dow uy auderneath. Racemes terminal. Boacles lanceolate, enspidate. Drupes splerical.

Radix (lippara, Ramph. Amh, ii. p. 124. 1, 34.

 trees, and ane in thower mod int all the yome romil.



 the af per side, pale and downy on the moder une. from one fo fome inches lonas, and trom one to














 twoblual. Redorle minmes. interior.
t 18. at ath क. Wht di ii. P. is13.
Elirulil y, ginems. Learta ankon ate on l, atd anmewhat lobed, sumoth. Racemes tormimh. and tim the firk of the hran hitis. Bracter anall. mall rons. Firmit oval.

Ti, lient li mentorl es.
 del, and in th wer fald fruit all the so ar rent 1.







 genemal's two or three of than abartive.

i. (i firrat ra. Ciornh. N'. 2. - I liz.



(imeline ruru cadriat. Br rm. Firr. In p. 32.
 and Xisemplar.

It dill ro from aviati a in the fullowing reptets.






 state. The hase of this plant, it. purrifolis, mum be cently brnised with the hand in the


## 

(vink five-katorl, or tive-karient. Corol bilatistu: "pmer lip enarginate: the under ane


## 1. biomalova. Hivlld, ini. 33:.



Beag. IBimn.
Oquits. Rheed. ARal. is. l. 1.





Page
Earey
 mameromes smatl, of a dank dull yellow, when dow almost black. Bractes of the divisions of



 of the stancus. Dtigmer of two, inente peint.

## 

 lower une sterile.
h. inticte. R.
 cles molitary, axillary, shorter than the leaves. 11. whes wate. Bractes math-laneenlate. Dut two-c. lled.









 binate, two-celled, with a suct in calch; 1me empty inll in thin spectes.

## STHEPTHTK

Caly.x five-toothed. Corol fimmel-shapeel; (whe twisteal; burder five-parterl, ergual. Cierm
 fermanent ralyx. Steed solitars: Éntryo erect, no perispernu.
$\therefore$ aspertum. (torum. yt. ii. -1. 1 11).

Vorthen:a Forskamki. Vithl. Nymbul. iii.
Teling. Obecrat.



















1 have nut foume that this plint is put to any nse.

## LIMOSEI,LA. Schich. !en. N. 1039.

Caly. from thre to five-cleft. Corol from four to five-clett. Ntamina approximated by pairs. Capsule one or twu-cellenl, two-valred, many-secded.

1. diandra. II iltd. iii. 342.

Crepping. Leaves paired, lincar. Scapes solitiry, as loner at the leaves, one-flowered. Capsules tworedled.

An exeredingly small plant, fomm growine at the boftom of cleme, stamliner, fireh water.
 men is not casily sepmated.

Reares sessile, two at each joint, erect, linear, wedge-formed, oltuse; abmat three guarters of an inela longe, and the sixteenth of an ind hemad. Pedancles solitary, crect, hetween the pair of leares, and of the sume lenerth, one-flowered. Culder thereoleft ; seyments memal.
 upper dicision largest, wedge-furmed, three-touthed; lateral seyments smaller and wail, the





 srumil, 1. (we I !haiale.












## 



 axill $\because, \rightarrow+!11$ alf.








 routde it lat | |.1111.

2. 1'. Afins.










 81! \& \& \&






## 

 al. Cappule tw B-10 Bleq.

1. N. riseres \% Corom pl. ii. N. 163.
 ers anillars, sulitar?.






 atan ios willitu th tule.

Pォォ
Carey lid．

The plant has a plossamt armatic suedl．
2．ล．vulcoctes．If illel．iii．i3 1．5．dc．












## 

Craly．bibahiate．Coral inmenhan，ane paip of the lilammats with a barem bramchlet．Cap－ sule tworablat．In：ll！

 visions two nmd threx－tenthol．

Sul cordato，s（arate．Caly，two－cleft，with divisions twa amel threctonthed．
（＇orosimmol．Rheal．Jeal．ix．l．bis．

2．＇l．rliffueq．



Vandellia dittit－a．Willut．iii．：3t3．

3．＇I＇．hiune．



 mental．

1．T．mullillora．

 sules wyatc．

A nalive of langenl，mpenring in the raing nud conl seaton．
5．＇T＇．rescime．



（i．＇T．reatans． f ．





## 

Cralyr fire－parted．Coral ringent．Anthers twin，commeted hy pairs in a coronet．Copp－ sule two－codind．

## 1．（ $:$ belwermica．$R$ ．

Anmal，erent，stoloniferons．Leares suh－virticulled，fimmatifi．Peduncles anillary，solfo tury，one－tloweral．


Hottonia．Jiurm．Z̈eyl．l．ड̄．f． 1.
（imtiola liffida．Lium．sp．pl．ed．Ilillal．i． 101.
Beug．limquer．
Inttonia Indied．T．inu．sp．pl．ed．Wrilld． 1813.
Rucllia balsamica．K゙önt！s．M．ss．
This is a small anmatl ：the froberal I iepht abont six inches，n mative of mamy places






 Lead，with thounder divisiun rery long，and incending．Cugsede long，twa celled，fur－valved；





f. C. गli. यt e.




 bill al.



 Hemr o di ithr f 1 rit st | (6) - 1.






 In r. lhe 81




## 



1) af: 1 e


 mity m.















JBet. Koh ohlims.
 weyl int melens or onc eltivata il lad.



- Hmol=tir 11 in, in :iva

(1) 'l"!
f., lit $=1,11$

A! Ch |hati.

Page

Taling. Nown.
Gintreli, is the mane hy wheld if i- gimemally known amongit knopeans on the Coromandel const.

This spectes or variety, is hy fin the urat sencerally cultivatiol in the warme parts of
 neter formo it in st with state.
 1 call at most make mily a rariety ol this spectes; it is larger, more ramots, the stem and
 strathere the same. The flowers are deeper tinged with red, and the meed diaker eabomet
 Fig. 1. $\ell$. Fti. of the same volume is a toleruble timinished figure of this varidy. 'Their great. est ditlewnee, however, "ppeats in dhe weed, and harvent time.
'Ihe former, s. orienale, is sown in Bengal in Febpury, and the erop got in three monthe nlterwirds, on that the dews, and the little remaining mostme of the earth, are thas only sonrees of humidity ly which it can lomefit, as this is in general a proved of drought. S. intlicum is sown on bigh places, about the begriming of the raius Junt ; and the eropert down in september.

## BICNONLI. Schell. gen. N. 1018.

Caly.r varions. Corol, with the thuat cmupmalate, amd a five-cleft borler, Germ sarprior, two-cellal ; cells mang seeded; allachanent interin. Silique bilocnlar (partition coutrury), contuining many thin wingred meds. S'mbryo centripetal, wo prinpurn.

1. 13. undulata. IR.

Arhoreons. Lewersolpoite, simple, limear-lancenlate, much whed. Racemes latemal. Calyx campmulate, with the nomfla cut ints five, short cuarginate stynents, Silique linestr, a little compressed, smonth, partition contrury:

A mation of Hindontan, from thence sent to the Batmic girden by Cohnel IIardwirke, where it flow ors in Marels, and riperns ite seed in llay. Whein in full flower it is one of the nowt beatiful smoll iftel hew seth.


















 of the radie? immediately within the mbilicts:
2. 13. rothoses.



A uative of ilae Molmoris.
3. 13. spathatert. Cirom. pl. 2. N: 111.

 much cherod.
B. frelerter. Kion. I/ss, in. B. II.

Tefing. Weme!.
A small thin tree, a mative of most of the forests on the const, flowems during the hot sensom.







 pendulous, twisted in rarious lerrus.
4. 13. (rivpl. Ruh

 near ; porthlion conlt:al?

 in Jlas and J.me; somf ripe in Wer uller

















 Kesti le ornl, imwaliatsit willin the umbisets.
6. 11. st aetulene. $\boldsymbol{\Omega}$.



\$0. I l'urul.
IIt id l'mill.








 1-1"







ti. If : . .1 I 1 .ान. i

















U.uri $l_{1}+$, is +1, ?

1.1 r. 1 .. i.

 Jatuary.

Pago Curey在l，






 lishlitime of the hills，whern it is plentifnl．


 foltr－c．lleal．
 Siblalll．











 takell 115 －

4．13．stipalula．If．

 ench isill．





 siliques．arut fixatl legue were ryliztric．

11）．13．ryl emerim．R．

 erooked，liznerons，and taberekel．
























 $\mathrm{p}^{2 \mathrm{rem}}+1$ ．





T．．f 11？Tタ．






















ti －ail i H H，Hi－






















## 






1． 1 H．i．P P i




























2. 1. whlonefifulia. l?.
 Cymes asillatis.

 VCry tomertose iminds :









## TETMLIIM. Schwll gen. N. logit.



j. murer. HFilld iii. 101.

('nem-1mullu. Rheed. Mal. x. 1.72.

A protty large, sucenlent, immons, annual plant, growing every where, but chielly near the seat on the emat of ('oromamdel, where there is a tolerably moist, stady suil, wheh it delights in. Flowering fimes, the ratiny and rohl seasima.


 smonth; from two to thee inelas lomer, by one and a half on two inches bromd. Pefioles elan-

 the above-muntioned miands.





 gonorvhasas lyy the uatives on tho conct of Comomindid.

Butter-milk is oftern sold in the marlicts in ludi:s, mod in order to mako a ereater profit on their mevehindi\%. they dilute it with water, and then thasen the whale by farning it round a few times with in few froln leaf lamelses of this plomt, which makes the adulternted butter-milk serm ricli, and of the leest sort.

## CIRILTAL L. Merit.

Calyer fiveleaved, or five-parted. Coroldeched, fmenel-tormed; border five-parted, nearly equat. Cupsule fwo-relled. minu-acedred.

Ammal. Lande verticelled, lameorlate, threc or more nervenl, sermate. Racemes terminal, recurvati.

Thling. Bargir-p:altec.
 standing water, "pporing ind luwering in the wet and sukl oxtions.









## CLASS XV．

## 


1 1．リサI 1 ，$K$ ．

 －．．11 \＆，wht o or alllis I at？

$\therefore$ I． $5 \% 11 \%$ i 137


／sin） $11=1 / \mathrm{n}=$
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1 I：\＆，\｜11，ii j心

$p \times \pi$ hill
1．1 $\therefore$ Iloj 1 m





． 1 if 11 ． $111 \%$ ．

$j^{\prime} \quad 111117$ al Kinin．
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 ज11．，JI．




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JF．．．f．\＆itri＝11．






Page (4)
 (1n luth shles, ant





 which is mand nsed in the diet of the Hindoges

Ammal, ereot, rammsi. Siligates expmolinim linenr, vertionlly compressed, smooth. Leares petioled. the lamer ontes lybate; the supervior ones sub-lancoulate.

## Beng. Kisym.

A mitive of Bengral. Where it is cultivated duriner the cold seaden. 'The secelotime lueiner in
 ingredients in tha diet of the llinskers.

Root anmanl. SLem erect, very ramons; branches expandinge a little, all perfertly sumonth,


 what lobate, towards the top of the plant- they ate lose componumt, till at las they are -im-





 the siligne, taperius to a ponint. Seed in each cell, one ruw, ind rather remote, romad, lark bewn, beantifully rigrose.
4. S. brassicrala. If illd. iii. 55.

Anumul. Radimel leares lontropotiolent, obovate, almost entire ; the superior ances stom-


Chior, Pak-tali.
Is a native oft hina, from thence the secris were procended, sent to the Butanice garden by Mr. . Wolm Millor.

Rowt in Bongnl ammal. Slem soareoly any, till in blosson, and then the whole phant is mommmonly ramous, and from foum to six feet high in our riche soil of bangal, Leares, the

 lyate tow:


 nearly hid within the thbe formed by the chaws of the petats, with the apioes of thein anthers



5. ふ. trilucularis. $R$.

 heakerl; sucrla white.

 sceds dmriner the cold seasonl.

Stem ammal, erect, smorath, with smouth, erect bramches; whole height ahour thece or







6. S. लutifliz. R.




 aml rit '11 their at al in etpeil












## 7. A. ruction t. $K$.






















K. S. Ary injil s. Toust















## 9 - dir \& ' $R$




## 








Page Cnrey Hid






I do not limi :men hat matde of this plant or il- sied.
10. is palons. R:



Beng. Kirlayee.

 in the coll +atsen).





 smoeth. brewtl.


 *urvate, with lubra almost contire.

 of couse, I emmble it is from theme.







 nhloner, compreswerl.

## R.IPII.AN/S. Schwe gen N. 10:9n.



R. satirnes. Willd, iii. होto.

Srans. Morlukiz.
Beng. Mooka, or Monle.
Ar rub. Fiuil.
 a man's kers, or more, and is ouly hatf innuersed in the soil. It thrive best during the dry лсяиッи.

## 



 heximdrons, \&ee, with their corols :ts mumh diversitied is the stamina.

 temate atul sosisile.

('ari-vella. Asint. Ress. iv. ayt.

Teling. Wiominta.
 ed latuls.

















́.1' 1 \& 2616 . 16 . 11.
 tilf 11 . $1: 11$, $1 /$ -










 $1 x$.







f) $110 \cdot 11$ :.

Iinn : \& Nhan ... +
 renle . - ! a i lin i ! l















1. (: If थ. J. eth.
 velepre il.






 (mikis. * a l 1.11.

## 

 ' 111 wh $/$ h \& l $1 /$ il is. f. ist.











# CLASS X VI. MONADELJULI PENなINDRIA. 



 withomt proviven.

1. majns. (iarl. Šm. i. I. Hi. 1. Limn. sp. pl. rd. Ifilld. i Juse.

Benn. Hul:ser.

 be ylatical.










 celled, one-valverl. Seed solitary, filling the (apsinfe.

## PISTII. Schrelb. gen. N. 111ㄹ.



 the alpes of the maph peringerm.

I'stratiotes: II it al iii. (im).
T:: la indina lometrr. (inchin Ch, 192.
Sirns. Kiomblrikn.
Konkla-plail. Rhered. I/el. xi. I. 32.

Ti ling. Xearoos boadonlace.
Himid. and Beny. Taka pimma.
Found swimming on pols of stagmant water in most parts. of India. having imeh the
 the rains.
















 todged in the apex of an ample prifisperm.

## MOTHCCA. R.




 hi hat it．
1．\＃1 tiluEata．R．


 lar゙ーズに，























2．Il．therest 3．$A$ ．






 then rainy -1 istm．




















## 3．H．destor．R．
















 is all thet prements itsolf:

## HONADELPHLA HEXANDRLA.

## 


 Firse, whthout jrivisheria.

1. ('. bentule thes. $R$.





























 snperior, bhlontr.

 permanent. Ponirles torminal.






 below them chmmelled.








f. (!. nigrom. ft.
 on axillily, ( (ontlumul racemes.




## 5. (1. stivethar.






## 

## 





Br, g. lihi k 1.



 enld e |a1,




1. 1 rlath. 11 .

 H1.tro,













## $2, \quad 1 \quad$ If






## 

## 

 G






$1, A_{1}$ !













Page


 fact it is a Malracere，but with a real premperm．

## 



 periopurin．

1．II．minor．$R$ ．
Lerers broid－lineeoliate，cincrenns madernenth．Drupes obowate，flattened，inside furow－ ed，out－ide kerd－winged．

Balrinopteris minor：Citio sem，ii．1． $04 . f$ ． 2.


Hind．and Beng．Slummirw，in Smalm．
Smandar：ı，Limn，Flor．Zenl．L：33．
 Fhwering time the hot sersom．


 Flovects mmaroms，small，wf i dull manere culum：

2．11．lilluralis．IVIlld．vi．9たン．
Ietares ablong．Dimper oral，insid kederl，outside wingot．

Nagenm．Rhect Hol yi．1． 21 ．
A bative of Mablanr，Manritins，ise．
HELTHERES．Schioh．gru．N． 734.
 vate．Capsulcs five，lormmanin，oftem twinted，oncoredled，onnevalved．Sireds many．

1．11．Isoru．Willd iii 721.
 twinterl，fine－puintel．

Kii－wallu－1urat of the Matahurs of＂suand．
This small thinly lomeled fere is rim？common in most forests over India，where it blownes duriner the ram－and cold hemom．







 apiees rethse．The upper three are obly abom one thind the breath of the fowe twa When，




 concal，five－lobed．style single，twice the lengeth of the stamina，it the bitce tive irpooved．
 one－vilved．Seeds numerons，in one row，angular．

## STERCL LIL．Schrob．gmen．N．8．ES．


 C＇apsules legrminmes，from one to tive，distinet．Nifeds few．Embingo varims，with or without perispertir．

1．太．Balraylers．Wille．ii． 87 ．
Learese whoner，witire，sinooth．Paricles pembulons．Follicles oval，villous．
Chin．Pim－jlio．

Cavatum．Rhend．Whal．ii．1．I！ 1 ．
 ramon－hemb．


 11日
















 manted．

## 




Ilial．Bul－e．

## 7．li $/$ Kavale

I liry ilece ：



























 as 10 dinty．




Treing．Luraku





 the hasm 1，



Pige

llind. linm julparie.

5. A. सn!lustifiolue. $R$.
 mited int the top, wifi:!



ti. $\therefore$ pupulaifiolier. $l$.
 ExCDR-11, re ed.

7. S. İllutu. $\mathbb{R}$.
 Manches, simple.



























 tunl ilic แs.
8. $\therefore$ Itmen fotiar. A .







[^18]



 （O．





 もいだげ


















 qu！t il ज1才 （ p ）it 11 L in $\quad$ ．
$1+!+11$ t






















 （ 11 c















Page and seems composed of the prats; the exterior and interior thin, brown and frable, amb the middle part hiekel: tourh ind lurd: the inderior iuternment :
 dicle patellitorm, herfed immadiately withon the mubilicus, relative, centripetal.
11. S. rillosa. $R$.

Leaves from tive to swen-lobed; lobes repmal. on lolsate, tirmly acuminate. Penicles pen-


A native of the momainoms countrices to the castward of lengel. Flowering time, the begiming of thi hot remath.

 pointed, lobate lobes; when roune very downy. partwanly umbernath, from twelve to cirhteras


 phrolite mixed; the former by far the most momerons; all are petty large; border of a pala
 eampambate, ontside downy:



 five, of fewer, de. as in the germs, and enverel with soti, rat-columend down.

 of ten small twin ant hers round its margin, in their centre, cou-isting of five gland;, the reo presentation of a pistil.
12. S. fietild. Willd. ii. 874.

Leates digitate.
Clompanms inajor. Rumphl. Amb. iii. $t$. 107. Dut Kuril, Rheed. Ifal. iv. l. 36. is at Iofe.e and I presume, leucoxylon.
S. fulida. Sonnerat. Chin. ii. p. 23 t. t. 132.

Tum. Kimlra-phukku.
Jmorli-budam, (wili nlmond) is the name it is known ly amongrst the Musselmant on the Peninsula.

A tall stont tree, a native of the interion parts of flur ['minsulat of India. In the Burtanic garden it bossoms in Marelh, and the seed ripens abont six months athewards.
 pretty smooth. Leanes 'rowded abont the ends of the branchlete, lomerpetionded, dixitate. Leafles from six to twelve, lanceolar, mitie, smonth. They are perferty decidnopse durines the eool season in bengral. Stipuler ensifiom, cadneons at an carly perionl. Liformes immediately mader the young leaves of the present year, hori\%ontal, compmod, about as four as the petioles, smooth. Flowers large, of a dull crimann and ormize, varimety blemded, most of them male-hemaphodite. Bracles very mall. Caly hypomateriform, hemply fivechef. decidhous. Segments lanceolate, villons on the inside. C'olom of the fructitication honer, and muele
 ceptacle for the germ, on the margin of which twelve or tifternanthers cit, and in ite bottom the five-lobed abortive germ without style or stigmas. In the ferlite luermaploredife it is more robust, with an acetabuliform apex, round its margin are abont the same nmmber of anthers. Germs romm, very villons, tive-lobed. tivecelld, in each abont tiom twelve to twenty seeds, atturhed in two wertieal tows to the immer ansle of the cell. Style curverl. Slinnmes five-lobed. Capsules, from one to tive come to matmrity, singry alout the size of a mam's tiot, broad-reniform, pretty smooth, ligneons and tibrons, lined on the inside with a thick parch-
 fifteen, of the size of tilherts, oblong, attached athernately to the lignems margins of the folticle, hard and smooth. Perisperim nome. Embryo invirse. Colyledons contionn to the seed, five-nervel, thick and theshy. Plamula two-lobel; lobess diritate, haity. Racdicle os:ate, pointing to the end of the ceed most remote from the manbilions.

On the Peninsulin, where the tree is indigenons, the seds are ronsted, and caten like chesuuts, though not much estermed.

ABROMA. Schreb. gen. N. 1217.
Calyx five-leared. Petals five, with eucmlate base. Staminifrous tube fire-ckeft, the bottom of ench fissure learing three nuthers. Styles tive. Copsules five-winged, tive. collech, gaping at top. Seeds mamy.
A. augusta, Wille. iii. 1131.

Abroma fastuosa. Ger\% 307, $t$. 64.
Beng. Ullat kumul.
Theobomm uugnsta. Mill. Illustr, iii. p, 583.
Aboma Wheeleri. Relz. r. 27. Willd, iii. $11: 25$. is no dombt the same.
(russipium demommm. Rump/h. Lmb, is. \& $1 \cdot \frac{1}{}$
A native of varions parts of India, growing to lxa samall tree. Flowery ment pofualy

## 


 yieht two, thres. or exal four crops of cottings anumally fit for pueling, it may be advintageinaly cultivatel for its tilon w, which thongh not sin strong as hemp, make good common cordage di.

## DOMBEYA. (Caran.)

Calur fixe-partel, arteriar bimetiturn. Petals tive. Stamina twenty, of which five are barren. Styto tive eldef. Cousules five, cotoural, one-celled, one or more seated.

1. If orulu. Cor th phss. iii. p. 1127. f. 41. $f$. $\because$.




2. 11. tilimpmike. II illd. iii. 725
 subulate, (ion, manhs axillar!, olltars, hititl.



 comus simply cortat:.

## PENTAPLTES Netweb ven. N. 1122.


 sedel 1 ; partation on ntral!!
P. phrmicer. H゙illd iii. 727 .


fiom. Kat latar Werphatio
 HM, wors nimulus.

















## 





1. I. werefintit \#. \|illf. iii. 724 . Ne.

Lerereplitath, as:at, rilal.













 of the five cells is therly dividel inte the, hy: membrate, when is not visible what rape.

Pago:






 diater! (0)





T'en. 1 I: /llos-11!:11"1111.

 -(:if) 111 .










 'The wors. is white, 'miltor, wit be ut math us •
3. I'. se, mi-stlulluftub. /iuch.

























 bilicise of the sixul.




l. I'. renesserus. $R$.


























 of th..n咅






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## 





















## 




 ratire / ormerdicitoth.

## Trien (:nk-ni.



## Page Carey














 interior be tar the smithest, being trom whe to two inchos hage, while the wteri or are two er
















2. 13. heplaymllite trille. iii. 7in2.
 two servise of tiscercles. Stimber five.eleti.

Sahmuli, the simeerit name ; sin Asial. Res. iv, 296.
Brong. simul.
Telin! Bownght.
This is one of the laresest of our ludian trees and in fommed almost owery where ; ofer the northern ('ircars, man the momatains, they grow to a

 of very large, bripht red themers with whin it is then coverod, mathes it remarkibly conspicoms int a very freat distance.

Trunk strainht, covered with immmemble, crowded, short, sharp, conic :arnlei, thes burk



 longer thim the leathers, round, smonth. Pefolets short, chamelled on the upper side sif-








 embatims from tifty to sixty, mited into tive, distinct pla lamese, all these are mited at the





 rather semes to arow from the inside of the valien of the cappule.


 ponteralius is alsu much too thick at tho apex for und ludian troo.












## 

 bular: fisc-ald hat.

T: line Kinus.





















## 
































-ulim: ㅇ.. i, :
 harmai

Tarijured $K$ " "I Mu A. uú

## Prae Cirey Hid



1. A. lumulis. If il IV. iii. TII.



Nidla pilnan. Relz. (bs.. i. p. 23 .
Tilling Nilla bewda.
Bonf Jmokn.



i. S. puriplue folite. If illd. iii. 7 tl.






ti. S. ylution*. R.










7. S. polymulorn. Prarb.



















 renifinm, at tached to the commom axi a above the midhle.
s. ㄷ. rllus. IVilld. iii. 7.5.


'Tefiner. ' 'hin:
 tivation. It How radurine the wet and cold witalio.








3. S. aliifuliar. Willd. iii. 711 .

 shortar thin the catys, two-hwrict.



















 (1) 11 ).









III.

 at 1 , 1


 11 + 11 ,, 11 .

 111.

 ! 16: 1 i f







lis 今, fl, i, i, il!

 wit!m:rarl infl! l..1. 1 .






 $=11^{1}, \ldots$




K, 1 tren l.h. I. Wel. \&. I. il.
13 18 in at it it 113 .

 - (mol - a 111.

## 

17 जि a 11, il, $\overline{\mathrm{Ti}}$.



Page
 secelter.

18. S. vemtibue. Willd. iii. 750.







19. S. Pourntoser. Roarto
 one-thwerel : aits nwent!, ronitom, very downy.
 Flowers during the cold watim.








 it inmediately froms indica, and asiatiea. Seerls crenemily three, a little seabrous, white, beardert.

```
20. ミ. usintiea. Filld. iii. F50.
```


 twenty, minalline the caly : trmante, with a conie hornlet. Eye of the seed bemedet.

Teling. Touten-bentio.
Kind. and Bent. l'atares, aloo. Jhampi.





Bellom? Hithert. Mat. vi. t. 15.
A mative of sanions mit- of Indis, mad like asiatice in thower and seed all the year.
2?. S. intion. Willd. iii. 7ö.




 the uflicinal Alther amd Malves.
23. S. gitatatens. 12 .














 fruit almost romal, nearly the lenath of the ealys, compused of athont twenty, thres-aceded,
 swell.

## ATTHAEA. Siluch. yew, N. 1132.

Caly. itomble : the exterion one from six to nine-eleft. Capsules many, one-seded.
A. rosper. II illel. iii. 77:3.

Inerfaceous, ereet, manes. Leares from tive to semblubed, nuryar.

| Wh. Miller's Ithustrations. | Prige |
| :---: | :---: |
|  | Fid. |
| Ifid. (twal-k.tyrn. | 111. |
|  | 151 |


 enteliom C'hina.

## 












 bilic:at.




$$
\text { एRlU , Now. } 1 \% \text { V. } 11:: 7
$$

 one....1.4.


1; ... /f H!


$\because 1$ vi ' 11 ' ${ }^{1 i}$ vte


lrat. $K^{\prime \prime}$, W.al. 1 \&. 2.

TM. 1' lis umhtı.

 and whemb! f10 shathon for tlax.
3. E. pilsila.




1. I. rej at
 sules: 1,6

 clotlent withent in wowl.
2. İ, ulates: 1 lum $R$.


 of at l-w|mmet $x=x)$.










Parse
a round pericarpima. speat pist af than bear.

3. (i. herturerem. II Fillr, iii. sur:].



(
Notus. Kinru: sure.
IIFInd. liewere


Arah Kıatn.
Ti.ling. Pati-ehituon the plant, and I'ati thementom itedf.


 commum *n.t.




 puintul.


 of the p-t? tincil with x. 1 .









 haviur smanth amb strai hht branches.
 tine equalite, that in the tivet watery:

 It differs from the former sime.










18 i





 lose them the first, and the colome and ghatity of the weol is meth the same.
5. (i. milifuliem. Willd. iii. sol.

 down, muder the lontr. fine. White wol.


 not promise adrantare 10 the cultisatur, on areomme of the sembine of the erop).
(i. (i. areuminatum. $K$.
 acute. Caly, deeply laciniate. silipules liucia-lanceolate. Copsules long-orite, much pointed.
























 tit $\uparrow$, htit.





## 
























 of thiv the.

## $\because K$ farron lísl, <br> I: fi,i, dl $r$ ir hatiol. sharter than the mamb. <br> Tifing. Prem

Thin is evidently a comal xpment of the last dearribsel ; it in alon a mative of the Cirrar


Trunk straight : bark ru-t-colommed. Lapres as in calucina, wen whe the ghmts, amat all





 tube. Stigmas three-lobed, evern with the montlo ot the tube, there-chett, amd spreatior us in the lisit.
 the same prats ans that ot the formar -perotos.
 pistilhum.






 grool ot munkind in grencral.

IIDBISCl.S. Schireh. gru. N. 11:39.
 few in each ecoll.

SECT. I. Lurames motion, oi slightly Tobrd, wi ungular.
1 H. populneus. WFilld. iii. sing.
 Fior one almost chtire. Capsults oblate-splervidal, and bristly. Siecels downy. Teling. (r:mbintaya.
T'an. l'oris.
Beng. Poresh.
Bmpiriti. Rherd. Mrel. i. I. 99).


2. 11. populneaiels. is.

Arboremis, Ledres comate, bongromint wiaved, smooth. ghands in the divishas of the
 Gorva-chamda. the sumerit name.
Iliml. and Ben!!. I'oris-pipplal.
Teing. Homere- finncentialy.
 near' sammleotn ; it fumers dmoing the wot and cend seasems.

Trank straight, from dittern to twentr-fion fent to the branches. thicker than a man's









 not opening withont consisherable force. Seeds tron one to three in carch cell, kidncy-fosmed, envered with brown tarina.
'This species is immediately to be disimenished fiom populneus by the prlmbe in the axills
 of the eapsinle; the inmermont of which reanires force and as sharp hnife tor opren it ; wheras

'lhis tree will antwer better for aremues, parka, de. ilan pomblueus, becanse it is much highore to the bunaches, consennently arives a free cirmlation to the ant.

When wombled there discharesp the some yedlow juiee is in populnews.
As both these trees wimt the bost exsential character, the domble caly, of Mibiseus, I shonld inatrime they would, with more propriety, torm al new genns.
3. 11. liliacers. JFille. iii. S10.

 reuform.

Nowelln, Rumpho. Amb, ii. t. 73, is too bad at time to be quoted; Yet l dombt mot bint it way intemed for thi- tree, and althongh our plants are uncommonly luxiriant, I never sitw any of the leaves with the least tenderey to a lateral lobs.

A nativen the Moltectas．Flowers in the hot seatm in the Botanic garden，though more or less the whole war round．

4．II．turtuestus．R．

 nal：ateriar caly．r eirlti or nine－cleft．Cupsules tetn－celled，five－valsed；the lemerth of the inmer maty．

I：ala．the simacrit mant．
B 月．
1．anti．Rhead．If H．i \＆ 30 ．
Xinell：1 mputs．Renphe A Ah，ii．p． 222.























 Enbetion firl 1 1p．
$\therefore$－H． $\operatorname{wl}(\mathrm{m}=\mathrm{r}, R$ ．

 aunt．Axale tury laily．

6．11．Rose viven $\mathrm{H}=\mathrm{M}$ ．ii．412
 Fixterion ratex it fie 1 it to lipht line il all is．









7．11．mwies s．I1，d．of p．d＂



 al ans．

Sjarulit．Pitheal．Il I．r．p．1．t．I．
 lomes the whelu saar．

万． 11. finigithes．$\pi$







 ealye of from is to melyt mintulate h lits．

Page Stem erest, short, as thick as the wrist, woody. Branches mumerous, aseendius; young
 six to twole fict. Io eries altornate, horizoutal, petioled, emodate, from there to tive-angled,
 Pelioles the lenerth of the laves. stipules subulate. Flumers simple from the exterior axills,






1:3. I1, whetradra. I' Ilrrit. Ntirp i. \&. I!1.

 very long. Erfocor calux minuts, or wanting.
lamameal lobata. If illd. iii. p. 733.

A matie of My sore. l'lowers during the rainy season in the Botauic gaten at Calentlat 14. H. Lampris. Willd, iii. sI1.

Suls-urboreons. Zeares from cordate and entire to there-lobed. Stipules subulate. Flumers sub-terminal, forming harge, leafy paniches. Exferiur caly, of trom four to cipht small, sulnlate, cmberons leathets. Cirposule ovato.
 Nempl. Flowering time the elone of the minns an ed ripens in damary.












 particulaly briwht.
15. 11. tetratmednris. $R$.


 sules four-celled.

Teling. Condranti.

Found on the hilla of Coromandi, atul is allie. to H . Lempas which srows on the hills pingo



Iti 11 adtius. I .

 11ヶ!

## 










 Wit.









 a $1=1$ 小is.





In I In $+4+11 . R^{\prime}$ If vi.1. 4i.

 * |था।

It H. He , + v. H .









1:1. H. s , / + 1 / .







चH 11 Utinliv. 7 ioll iii. A1

 hury.


Th, If 'lhal-| minal

 21. H. etwh Hethes. $R$ *






[^19]
## Prge

 Ed.


e2. 1I. Ahelmoschus. Hilld, iii. selt.

 ten-leared.

## Hind. Kustoreree, or Killar-hnstormeed.

## Contha-g:athri. Rheed. Mal, ii. 1. 3s.

A mative of tarioms pats of' hatim. Fowering time the rainy and cold wasons.
23. I1. licerspis. If illel Bii. xiou.
 nerved, with a lome ghand on the midde one, ne:m the lase. Stipules and brenehess large. semi-cordate Racemes termimal, fer-flowered, both eatyers temparted. Copsete with tive (donl) rells.

 pertectly straight trmik to the very top, amply decorated with bomg opreading bramehes down


 specetes is strongly marked hy havine tem somments they are altermatry smater, und the eap-

 and we very ornamental; the seed ripens tarly in the hot seasom.
24. H. hishus. biwed

Ammal, ervet, very hairy. Leates from cordate-folate to hatat -palmate, and finally
 Capsule owatr, hairs.

 garden where it horame ahont the clowe of the rains.






 hottom. Bractes like stipules. Cular': the reveror one abont ten-l wed. promant ; the
 ииметоия
'This sperim- eomes nearer H. Abelmosches, pathenharly in the pmbencence, flower and pericurp, tham any with I I kinw.

## 25. I1, pmeitus. $R r^{\prime} c^{3}$.


 than the immer calys.

 land; appearine ame thowerner in the wei and cold waters.
 himh. Branches lew, near the gremal aserndin:s, stem-like. I eares altomate, petioket, the










 the gemms. Seeds many, two rows in carch edl.

2ti). II. fitimatus. $R$.


 Cher in hias math, whe.






















 lentu:

2-. If. Sralten is Frill iiii m?









 motanie -arken.
24. II. a-siestar. Mos3.

 dian- tul.








 shoup torist :
23. H. st reters. $R$.

 form. P'opucte linemronhtors.
 af 品



 Ur. I. dilan fomm it with on the liginathl hillt.








Page Curoy Ed.



 Serds mumerons, rombl, hairy, and of al dark blackish hown womer.

 othervise 1 misht have ti:kon it for that phant.



 real worth of the material is tainly anderiminet.

From sereral yars expriance, I timl the best seasun tor sowing the serd in bengal, is just when the tirst rains berin; which is gemeally in May, in hern; and when the phants are abont six inche high, transpme them nat. in rews, abme nine ine ha asmuder, and abont as
 which yidiled thinty-there pomed weinht of the matmally viry chean tibres.
30. 11. prostrahus. R.


 the inner whe spathitum. (iepsult wal, villoms.
A mative of the ('inats, where it blembuns during the eotd seman. ('ompare with hat

31. 11. dim mifislirs. Hiनlld. iii. S20.
 from eight to ninc-lavith, beth are wer heively.





 seven sulmbito hanoes; the inner one bristly and glatulatar.

Beng. Mrata plat.
Hind. P'nloo.
Terling. (inner-l)ra.
 pot herb, and the hark fir hrin!).
33. II. radiates. Willd. iii. \&2t.

Iercmial, prictly. Leares palmote; lobes lamecolate, servate. Stipules enciform. Floners

 during the cold semson.

Stem short, scarecty lignencs, thonch exitine two or threw yoars. Branches mumons,











It is an charant plant whon in blowom, the flower's being anmeng the larese of the genns and the colomrs bright.

3 1. H. Iongifolius. Willt. iii. 857.
Anmal, lnistly: Leares palmate: sermate: lolies lamowhte. Floreps avilury, solitury. Exterior erty, of fiom wisht to ten tinear leatlets; the interior one spathiforms. "'upsules subeylindric. Aicerls numerons.

Beny. Dharuos.
Tring. Bender.
Hind. Ram torai.
I have not. fomul this plant widd. It is mand maltivated throughout India, in the gardens of both natives and Europeans.

Root ramons, ammal. Stem ereet, ramons, from thee to six fict hich, mombl. towards,
 with shap bristles mud often spotted with purplish specks. Leares alternate. petiolow the infierior ones mily angular, abont the middle of the plat pabmate, while the superior onss are sub-digitate, with the divisions lamemolate-oblong, all ure serrate, and sonuewhat bristly; the







 sizht, with : - inste row of ronol. sme th sed in ewh erth.










 Imw. mariling pit of th ait.





35. 11. Tr mbill s. 11 .











## 3; 11. तो tक tix. 18






 s"t thin - d- ar - mithro, anel wid of the mushs ateolt.
:\% 11 Mr th hevilte. $R$.



 hear is hatesome darinz the later part of tha rain-











 than the walis.










Page
Carey
Eに.
I11.
214
 atal math longer thats the calyoces.
39. 11. heterophyllus. I'ut. 1Fuh. p. 103. t. 103.

Arlmusoms. Tronh straight, armed. Leares from palmate on pommg phats, to simple rum



A native of New sumth Wiak. lolowers during the lat scason in the Botanie garden.

## PAFONCL. Schral gen. N. 1140

 one-seederd.

1. 1’: Zeylaniers. HFilld. iii. 838.

 (4) twelve submiate, hairy leaflets. Shamina tiftern.

Libiscus Zeylamicus. Limn. Flor. Zeyl. 2̈ti. Burm. Plor. Ind. 153. t. 48. f. 3.

A native of Coromamel. Plusers during the rainy and conl seasons.
2. I'. welorate. IV illd. iii. 8:37.



Tr ling. C'little-buncla.
A native of Coromandel. In the Botanie farden at Cislentas, it is fluwer all the yeur.
III.

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CLASS XVII. DIADELPIITA TRIANDRTA.

TAMARTNDU'S. Schide gen. N. 1100.

Caly $x$ four-leaved. Corol thre-petalled, milateral. Legume pulpy.
T. indica. Willd. iii. 577.

Balmm-palli. Rheot. Mal. i. t. 23.
Anlien. Asiat. Res iv. 217.
Thatri, or 'lintires, are also s:aservit names.
Beag. 'Tintires, or' Tintil, or 'l'eutuol.
Hind. Culi, Amli.
('hinta-chitton of the Tolingas.
This most masuiferent tree is summom and so generally known, as to require little or no deserpion. I howew snspect our Eant Indi: tree ditlem, prohably specitically, firm that of the Weat ladies; besides 1 have in vien, the reducing of it to its proper plaer in the Sexual siystem. which I eonceive to be in the (lass Dimietphion, and not. Monadelpher. as
 in ast eminent degres, and sencerey my part of the lattor: should the siaghe eiremustance of the filaments being mited ian one body fowards the bottom, constitute the essential mark, it wouk undonbterly be a monadmpous plant, but we know that ahost one laiff of the getnera of this, (the 17 the Clas-) have the stamme commected into one hody fowards their hase: yel I do not know of any one who has attempted to remove such, or even to eonsider them as monal el phoms.

Flowering time the hotenst part of the rear. which is generally in May. Firnit ripens during the cold spacon, or from Decemher till beranary.

The tree is ont of the largest in Indin, with a most extensive, latere, Andy head. or coma, the bark dark-eolumed, and seabroms, the wood hard, very dmable. and host heantituly veined.

Ifares pinnate. Leaflets from ten to fiftern pair, opposite, sub-sessile, tapering a little,



 morgins involute and curled. Wimgs oval, mancias curled, all thre are la antifully variogated






 under the bark rum thee nerons filnes, one down the bpper coneave margin, and the ofleer two at cound distanees from the infirior, or comver alge. Sepls from six to twelse, somewhat traperiform, compressed, eovered with in smouth, hard, brown burk, mad inserted into the in-

Fixtale of a lifter fixun ('aptain (now Colowel) Prinale at latoknow.
Ed.


 pratchanz (t) a patple."





 thy then are lrileal in =\{eam, athd nand ns unt atticle of dict.

## DIADELPHIA HENANDRIA.

## 

Calys twol averl. Coral ringent. Filsments two, weh bernilg thric uuthers.
F.jur llom, HZlld. iii. $p$ Alis.



Brn!!. |h1m : ! |a.




> DIADELIPHIA O("IANDRIA.



1. I'. atronsis. W'/le'. iii. 3ोti.


flend. Nartil In .










 It 11?
¿. 1'. tolm havelex. If ita. iii 3it.
 a ed rim? lo iry.


 ate rery lolis!



SİCTHM1.1.1. Schiel. !f:n N. 11.st;



- par iruthl. R.
 it muny I! iho. Pentergels.

 HE in . pail.




Page
and from she to two broud. Petioles vers short, und inserted on a hrown glamatur reeplas-




 ont, "mblasemding ; the interion theee, two of them the wings. flatultue, and inverted wh





 (1) the top of the eell, and rumbl the insertion pantinlly arillal. Integument single, thin, ami

 loles. Ricricte minute, superior.

## DLADELPIITA DECANDRIA.

## 

Lequme pediectled, membranaceous, not opening spontancously. Gut crmulbing in piecess by atre. See las one or more.

Fole. The stanima dismgree so much in the ditherent apecies of this resp natural family as to romder their tormines any part of the essentiol generie chareder inemseniont. "the front alone: aplars to he sutlicient, to which may be aded the altermatily pinate leaves.

1. D. (ojeineusis. liorl.
 folel; stemens ont und nine. Pergume linesis.

From seals received in 1795 into the Botance garden at ('alcuta from Dr. William

 Oetuber.
 height of the tress in fourtern yeur, thirts-tive teet. Berke of tha trunk dark brown, :und deeply aracked, of the yommer parts smonther. Leares altermate, perthod, ternate, the whole lenglis often extends to twelve inches. Leaflets, the exterior une manly reand, with ant obthse point, length about seven incloc, Hnd abont six broad; lower pair oblipnely ovatecordate,
 wavel, of a firm texture, smoth above, and a litte: villons maderneath. Rircemes axillary, and terminal, rurely compomad. Pedicels thee-fold, slemler, colonral, villows, me tlowered. Bratles: common of the pedicels, sulitary, suh-reniform, slmill, villous, cadncons; proper ot the pedicels, solitary on the ontaide of the base of each; of the callyx, still smaller hut obfong, and pressing mon it laterally. Flumers mumems, mother smali, of a very pale rase-colnar, indeed almost white, somewhat fragrant. Caly, subl.hilabiate; the upper division whong,




'The wood of this very large tree, Dr. Hunter informs me, is lighly valued for various purposes.

The pillan* of Nadaje Scindia's palare at (Oypin, Mre made of it.
2. 1). latifolier. IVilld. iii. !ti!. I?. (orome, pl. ii. Nu. 113.

Leaflets from three to sucen, subs-alternate, roundish, cmarginate. Ponicle axilaury. Filaments tent. comberced into one borly. Leymme one-receded.

I'eling. Vireougrooln-charva.
Eny. Bhacknoud wece.
Beng. Sit-ral.
This is one of our largest monntuin trees. Flowers during the wet seasm. The sweds ripen in February amel March.

Tromats erect, though ramely statight, often very thick and riviner to a very grat height.





















$\therefore$ 1). Niy ow learb.



fiend. und 8\% g. Niman).























1. I1. r 7at! i= atz. R.

 semediat.































III.
$2 \div 1$

Puge Carey Ed.
ther irmit, than that of sissum of the sume siza, nut its growth mmeh slower.
5. 1). ulula, li.



6. 1). piratherict. $l$.

 twor-sederl.

A native of the Mohncers, and by fin the smallest therered specias 1 have yet foumd.
7. 1). er ififurmis. R.

 11:1"rits.












 inche lones, and there (ptarters of an inch broach. When the legume hats th second joint, it is like the mother. sied sulitin'y, reuitom, dce as in the order.

## 8. D. firmilosrr. Roxh.

Boric smonth. L,mitets abouf five Imir, ulternate, oval, comargimate. Stipules filcate. Panimes nxillary. Nifamin in twon equal hodin's. Legume from two to theremeeded.

A mative of ('eylom, and the Peminsilat of India. In the lentanic garden the trees blossom in May aml Jum, the the sect ripens in september and Cotuber.

Trunk wede mul in in ire only swen reans old, thre fee in circmmference; the bark is partionlurly smooth, and light abli-colonmed. Branches spreading, nearly horizomat, with mu-
 tree thinty fect to the top. Lecres alternate, hitimions, pimate, from six to twelse inches hong.
 ant inch or an inch and a half lons, and me broad, decidnous duriner the cold seasom, and
 axillarys solitars, shorter tham the feaves, composed of a few alfemate bifarions, ascending,


 the calya laterally. C'aly, bilabiate'; the upper lip bide ontate: the under we tridentute, the
 serded. Siple alorter than the gem, rising at a right angle from it, smonth. Stigma mimen,
 frequant. Steds whlignely renifunn, compresed, smonth. Perixperme nome, de, sts in other Legitmintase.


 one or tivi-serded.

Patance is the Thelingat mane.
This is alat a larere twee and a mative of the same monntains as the preectiug speries. Filowers abont the beriming of the lat spitan.











Vole. 'the woud of this tree is white, and tirm to apperatace, but less nsefind than some of the whementios.
10. 1). zeqtanicg. R.
 long. I'uniches axillary. Inagume lanceoblur, from one to three-secterl.

Cing. IK.lext-lahba.



11. 1). ferm.jinfact Roxb.













12. 1). Ki che




















 (Tils.


















11 1). rul ighnusor. Willd. iif. (1, 12. Ruxts. Corom. pl. ii lin. 11.).
 axillars sicte.
liliat. Tillitiga.
 sस्थक्या.









Page
Carey

## Page <br> Caros Eirl 1II. 232

15. I). rohurilis Rorb. Cormm. pl. ii. In. 1!11.



 where it rins up und over the hiphest trous.

Brenches, thair extromities alten twinn romel whitever they meet with in the form of










Climbiner. Leaflels opposite, whong-humeolate. Racenes axillary, us long as the leaves. Leyumes linear-laneeolute, two or threseseded.

Benly. Nux-lut:1.
 tion of Mill re's Distiontery. this firrure is quoted tior D. lamevlaria, which I think it canmot be fer very ohsions reasoms.

Cherintater buthero of the Tr limgas.





 ceons, ise Seeds two, or three, kiduty-furm.
17. I). Iamasindifuliar. $R$.

Lefeffels from twehe to sixtemp pairs, linearohioner. Racemes lateral, short, waic. dense Filaments nine in one hody; ththers two-lobed. Legremesswellel, scalsons, where the single seed is lorlged.
 as formup, and ower (twes. Flowering time March and April ; seerl ripe the , hamary following.
18. II. rimnste. $R$.
 minnte, paniclex. Fituments ten, in one borly. Lequmes one, mady two-ceeded, rimose at the secils.

Kangrom, the vernatuln name in Silhet, where it is indigenons in the forests; flowering in March :and April, and the seed ripens in November :nd Decenther.
19. D. stipulacea. $k$.


 April, and the med ripens in November.
20. 1). spinoša. $R$.
 mate, cmmationblong. Rucemes axillary, fiw-flowered. Filaments in two equal hodies. Lergume ural. (mlanembed.

A n:aliw of Chittagong.

## PTEROVATPCS. Schrel gen. N'. 1159.

faly, rampambate, five-t mothed. Lecynme* wenty round, leaty mareined, varicusc, one or mernerdted: crells mar-acthel.

1. P. sumeslinus. II illd. iii. 90fi.
l.entes temate with sub) rothmul, retuse, smooth leatlets. Racemes axillarg.
sims. (hamdata.
Beng. ('lumulana, or Kuktro- (lumdun.



Leares pinnate: lefflets from tive to seran, alternate, elliptic, emarginate. l'enceles tero mimal. Shemens ten in tion bedice, contescen near the mase.

Beng. Pert-inl.
 by any write that I have met with. It is a mative of the (itcen monmatas. Flowering time, the heriminer of the rains, and the sedel ripens about the elose of the sear.

[^20] spungy, fallin= ofl in ilakeq; inwarlly red, thbrons, und astringent. Bramehes sprendins, bori-















 one, thought who thmes twit edhet. sied swhitury, hidhey-ahaperl.




 as :íat of the bum of the Butea, which it reximbles muth. It theen the rpitule lat little; lurat flome nut anman it.

It ©s realily, ant ahmet totally w'uble in either water or spirit; the nohtions are a







 thett ret?
bote. It to hizhly ne war! then ry that the abowe athety sis wa- mate with the grm



 nj iritunt.


d. P. daleegto istav. $R$.

































1. J' imelicus. $f^{\circ}$ illd. ad. sp. iii. S(11.

 from whe to threw-smeded.



















 rather shorter than the stamina. Nfigma aroute. Legume nearl! whiceular, wrinkled, ot a viry

 narrow, oblique kidney stape, smooth, lucid, and of a brown colour.

## GALEDTVA. Lamarck: and Tuss.

Calux eyathform. Stamina one and ninc. Legume allipticalls-faleate, plain, one or tiro-seeded.

1. (i. indica. Jamaret. Eneucl. ii. 5nt.

Arboreons. Leafles.s theerpaired, orate, pointed. Racemes nxillary, with many flowers in pairs. Iegumes elliptic, mu-sierdecl.

Dallmerctia arborta. II illel. iii. SUl.

Souss. K alvujuka.
IFind. and Brue!. Kurunja, or K゙लnịa.
Iobinia mitis. Limm. sp. Tol4.
Pumamia, lamanrek, and P'onsamin glatora, of Ventenat semme to le this very tree.
Fonhinit mitis. Joureir. Cockin (\%, mmst. I think, le a dithorent. sperius: and I also snspect Caju-gatedupa. Rumph. Amb, ii. I3. to be amother, which I lizve nut set met with. Teling. (ianuga.


 close of the: Vetil.

Thunk ravoly straicht, lagight very virions, siy from ten to twenty fict. Bark smonth,







 large is in Dolichos, pointerd, and projecting almost discelly down. Filer ments of "anal length. Sfigmer sumoth. Legume ovate, compleserel, smonth, with the apea thick and bent
 almost remme smout lo, licrht artay.

 and almos every thing chse grows well under its shade. The seeds yiehl an msetinl oil, and cattle are foud wit the leares.
2. (i. pescidiar. $l$.

Arloneuns, smooth, Leaflels threo or fire, the pairs opposite, laucenlato. Racomos axil-
lirs nul timmal，simple，or raments．Fil ments siust athel nime－rlaft．



















3 （i．＂t yintint．II．



 Muy．


































Breyt l＇an lith．










｜il尼！ト バル

branaceous，witlo one seed at the aplex．
1．13．liundusa．Corom．pl．i．So．21．Hilld．iii．p． 817.
Arberemats．
S゙aぃs．l＇ulasar．
Bens．V＇иlas．
Erythrinu monosperma．Lamanck．Encyel．ii．』． 388.
Teling．Mardnga．
Plisit．Rheml．Mal．vi．t．I（i mud 17.


 seed ripe in oune amd duly．

Fronk acuerally eroshed，cowered with ash－coloured，spousy，thick，scabroms bark ；the













 gimate ；the under one three－tonthed，covered with the same blatk green down that the ra－ cemus and pediechare covered with．Corol；bunner reflected，ovatr，pointed，rey lithe lung－ or than the wings．Wiags ascending，lanecolate，the lengtla of the keel．Fire two－parted， nseending，large，semilniste，the lemgth of the wings mad lanner．Fillaments one and mine， ascemding in a reguhar semi－cirele，about as hong as the corol．Anthers equal，hinenr，ereet． Germ shont，thick，perlicelled，lanceolate，downy，sifyle ascending，at little honger than the
 six inelates long．Sied one，loderd near the pinat of the hemme，oven，mell eompressed，

 there issues a most beatiful red jnice，which sown hadens into a ruberohmed，britte，as－ tringent gam ；but it som loses its beantifnl colour，if exposied to the air．To preserve the

＇Ihis grm held in the flame of a comelle swells，and hams away slowly withont smell or the lemst flame into in eosal，and then inte fine light white ashes．Hede in the mouth it som dissolves；its tusta is strongly，but simply astringent．Heat does not softer it，but mother remters it more brittle．Phre water dissolves it perfectly；the selmtiom isobincteep，elar red colour．It is in a grout mensme solnhe in spirits，bat this sulation is paler，and a little tar－ bill；the watery solution also beomes thrbid when spirit is addel，mad the spinitaous more clear by the addition of water ；diluted vitublie acid rembers both solutions tarbid，mul rems－ tie；wegretable alknli danges the ewtom of the watury solution to a chan，deep，fiory bloon red．＊The spintnous，it abo decpens，but in a less degree．Sal matis changes the watery so－ lution into a good darahbe ink．
these are I think，propfis that a very small propotion of resin is present in this sub－ stmere．In thix it diflese essentially from the grmarevin called kino or Cummi rulrumz as－ trimgens Cambiense，which the bidishburgh（＇olloge has taken into their ．Materia Mredicet $t$ bat as this can be mot perfectly hisenlucd in watery menstrom it may prove of ase，where a spirituons solntion of the former，be ing the most complete，camot be supporly abmins－ tered；eonsequently it may prove a valmble aequisition also．I have used the recoit gan in making my experiments，which may make sme ditline uce．
lntasions of the flowers，cithe tresh or dride dyed enton eloth，previonsly imprexunted with a solution of alum，or alom and tartar，of a mont heautifnl bright yellew，which was more or less deep，aeconding to the strength of the infision．A lithe alkaliadded to the in－ tusion，changes it to a deep reddish ommge．It then dyed mumeremed entom celeth of the sume eulomr，which the lemat neid clamges to a yellow，or lemon．These beantiful coloms I hate not hees able to remder perfeetly permanent．

Amongst numberless experimente，I expressed a qumaty of the juce of the fresh thew－ ers，which was dihted with ahlun water，：unl remdered perfectly chenr by depuration．It was then evaporated by the heat of the ani，into a sott catract ；this proves a brighter wher colonr tham my gamberg I have met with．It is now one year since I hrst nsed it，and it re－

[^21]lutu－ions of the dried fluwera yelled me an extane very little if any thing，inferion to








 dyisury．

3．13．superta．If itl $1 i i$ ．p．917．R．Curame pl．1．Iin．52．
shrubhy，to inilur．















 and figument．

3．13．parrel？art．Ro b．
shatiby，twinina．Purlel e axilhary，and trminal；flowers small，und white．Bannos emrarinate．




 it blear mokl．

 of mas＇s fithomas．












 none．Simbryes as in the ether Lefeminoser．

## 

Calyx lihhisto．Corul with the stambard much larger than the swall wings aud keol．


I．E iuliorf．If il il iii．213
Arla nern，a！minl with hluck prickles．Teaces ternate，marmal．Racemes terminal．hori－

\＄1 Hfient．Rhept．．Ifal．vi．$t$ ．

［3 in［＇i＂it 1 －mandar．




ning of the hoot seawon, in March mul April. Aint rip ens in Jome and July.
















 Seeds from six to cight, whemer sumetin, harlii h-purphe:













 interruption, they wimblam sompe at rery great luight, which would lo very mutavourable fur conleretiner the proper.

 so that when the vines have ol me learins, the land must he in an much better comblition than when first planted. Daily experience proves the trath of this.
2. E. stricke.

 lancendir, from two in threcesmedel.

Bin-momrienn, the whacmlar name at Anjenga, and Pen-mouricou that of E. indica, which this resembles much.



 of $A_{p}$ mil.
 from the griduld ; branches finw, and enverell with sumeth olive-whimed bath, all :lre well

















 swooth, light hrown, of the size of a Promely heall.

Nobe. Notwithstanding the great similarity of this tree, th E. indica, Jouricum of Tan













 aןts jerta-tis rallmbal.












 lifht apr u-? $=11$ tllit?

1 l: ur 1 il be $/$ rb.
 rontal. Ji= $r$ फो, लiai.
B. al. llari k, hat.
















 the: 1

## 5. I. sullatar Tiverl。




Tel \% 13 l d $1!n$.



















Page

Y H. Resmpinala. Rorls.
Herbaceons, Laces lematn, apmaning after the fowers decas: Racemes valical, leafor less; corot pishimmin. Filoments ome and nine.

A mative of Hindos-tan. ln the Jotanice garden they blosson in Mareh, ut which time no part of the plant is visible lut the racound
 prickly, slishtle villons shont, which with the leaver, chenys abont the rlane ot the mins. Leares ternatis rather lons petioted. Teaftets memty rotuth, entire, smonth, liom two to thee





 alternately shorter than the bsumer, but dumble the length of the keel.

## ABRL'S. Schureh. yen. N. $116 \mathrm{E}^{2}$.

Caly. obsconely four-lubed; thr uppej lobe brombit. Fibuments nine, muited into a sheath at lrottom, \&rping it the bick. Stigna blunt. Seeds sub-globose.
A. precalurius. N゙illd.

llind. Rntti.
Beug. Koumeh or (ioontch.
Kommi. Kheed. Mal viii. t. 39.
Abins. liumph. Imb。v. t. S2:

Gnnju. Asiat. Res. ii. Fis. and the).
This is one ot the mont emmmon phato in every part of Imliat. Flow ring time the closo of the riais.

Root anmons. Stem lignmons, twining ; bark smonth; young shoots with a few, white,
 opposite, sub-seasile, frosu cisht to filt cen piair, limearoblong, sumoth, entire, both ends obthse,
 Stipules of the leavea hameentate, of the fontlef mimate. Rememes axillary, ditary, lung-



 camp:andate, month obscumely fiverantleal. Coion: banner ovate, sides detlected, apex
 the length of the othor pretals. Filaments nine, empenned into a cylinder, with a fissme un the upper side, the dintinct portions ereet, and whematity fhomer. Anthers ovate, small. jistil mimen, hid in the hase of the thhe of the shane ni. Germ hairg. Slyle very short. Sligma Lendud. Legune of a longr-momboidal shispe, protuberant at the suods, divided by

 varely hack with a whitue e:








## 


 turgid.

## SE("T'. J. Leri=a simple.


Ammal, -trairht. Leores -n\}s-...ih, hme r-hamethate, lairs, rather ubtuso. Racemes


l, ang. : im.






 seasen, in thersharing the dry.
 sertie in ot the hewe, it rithe dewan, towarila the thep branelyy, and, when the p'unt -tands






























[^22]Pake is very nourishing, turd enusps them to pive mare milk than most ot her feod: it only bears two ar there cht thare, atter that the phata perivis.











 Weight to the asere, is -uwn when the tion shower, fall, abont the herinnine of the periubleal


 fine quality. it is pulled in this stare of it - rymuth; it -theneth is the ohjoret, it must stand tilf
 pulled up ly, thw wot.


 Buok.
'flwe lengeth of time required fore sterping depends on tha spason of the rear, the heat of





 enst tre:ted in the s.m - mimmer.






 hishl priceet.

Abont bombity, the salsedte sum, or hemp, as it is gencrally callecl, is reckoned particulamy groud, mot infertur to the best limsian lemp, mand that is all per led by the hand. Numerons experiments mate ly me, intuee at belief that its superiority depends on the proming.

In thist comatry, and in many oflow parts of ludia, the seed is somn towand the elose of the rains, whell at stronger soil is sad to be reqniret. In other reepmets the management is the same.
$\therefore$. $\because$ temifulia. $R$.




 Howers; :and the send riperns in two months.
3. 1'. Alrateme lion'b.


 Erow well, and fetierally blestom durine the hot seasm; and ripern their seed tho months atter.









4. C. slipuluerer. lioxb.

 sab－sule．ohbontr．

 crudal sita -11 ．









\％．（＇．stidela．R cits．


















 twifッチン－hatil．








 from two to there witul．

H．（＇．fuler li．erb．


 Retulad．















 ferall in cbry Meple




名 al bark; youeng shoole rumbl,





 few, freftantly not mare than ond combes to pertect matarity.





 of the whole plant iblont two feet alml in li:umeter fiully as mach. Leares altimate, sionile, simple, approximate, comeste- lancemhr, rotire; viry hairy mulermenth, sizo of thr largest,


Stipules nome. Parentes tominal, sulitry, fow-aloweml. Fluner: protty lince, yellos, tiaged with drep purple. Bractes of the pedied whitary ; of the calys paired ; all are corrlate,



11. ('. chintusis. II illd. iii. 971 .

 smontli. Hinty-speded.

A mative of pasture gromml, bomars of cultivited ficlds, de
Root fromenial. Syem sconcely any, but many, dillise, round, hairy. two-forlime, slonder
 late, obtuse with a bristle. very hairy, entire, gr nomally mone than an incha long, and less than lablf an inclu hoad. Slipules smbmate, and only at the divisions of the brancles, and eren
 large, yellow. Calyx lairy, uearly as long as the flower. Legume sessile, oval, suouth, shitiug, fion fiteen to twenti-five-ceroled.
12. (!. ruliginosa. II illd. iii. !73.

Pereminal, difinio, lainy. Leares mial, and lanceolate, lairy. Slipules lanceobate, Rucemes leaf-(1)pposed. Bractes eorditu. Legumes owal. hairy, fiw-sorelenh.

Like the last deseribud, it is a mative of pasture lands; it has also a perembial root, with many slender dillisas, romm, hairy, lwo-torked branches.

 twier as long as the leaves, rouml, hairy, fom lime to dight-thworal. Practes solitary, condate, reflexed, shorter thin the peelicels, one-fowered. Leyumes sessile, oblung, hairy, eightsecerlerl.
13. ('. respitosa. Rorh.



Teling. Nallar-grvi-gralli-wrots:l.
Is once of the most combman all over the eanct, grows on pastare croumd ; is in flowe all the yeur romme.






 to twelve-seerlod. ('intle nat it.
11. ('. prostiala. Rorb.
 opposed, Lequmes sescile, rhbbed, smonth, mans-seeded.

Teling. Sori-galli-gretsit.
This is ann menmmon -peceses on the coast; like the former, it grows on pature eromme,




 small, rellow. Lequme se-sile, rhhluel, smooth, from sixteeit to twenty-fonm seeded.
15. C. hirsut. Willd. iii. 978.

 haiby, cluilm I. $i^{\prime} u-2 t+11$.

## 










 frum ei chit the ti-11-aterl i.




## Hellin Airtre. H'/l/d. iii. H14!!.

Telian. Salli l, bala.







 (4), li=ן..*




## C. nether. Burme lad t. is. f:


III.

271

Trling. Pillere-watia tima
 sobis.






14. ('. reviea. Il it al. iii '大门.






 sinti.









1!. |' strimez. H'illl. \#1., !7..

 stumbli. H1!!! il.









Page





 the specitio nome is ill appliwh, for there is mothing sericents about it, a few dephesed hairs is all the pulseranco 1 have hem ablue to disenver.

 leaf-oppused. Bractess sululate. l.etrame sussile, many seeded.

Pre-tanlale-cutti. liheerl. Mai. ix. t. 29.
21. ('. rlalu. Roxh.

Herbateon-; trathrhes two-winerel. Lemes simple, sessile, oblitumely round-ovate, downy.


Fomm in Ilindostan hy ('intain Handwicke in thower in July and Augut.
22. C'. semperflurens. V"illa. iii. !978.




23. ( 1. limath. $R$.




 and cool witsonts.
21. (. angulosa. Lamurck's Encycl, ii. 196.

Ammal. Whem and lwamehes from threce to firw-sided. Leares sulb-sessild, bate sub-ovate,


A native of the Mantitins.
25. (! prencentults. Hilld. iii. !1se.
III.
 sessile, villous, onte-semped.

 time in lanugal, the cold maton ; sied ripuns in Marell.



 hairy like the yomurshoots. sipmes in anilhury litiche-s, sumbat., teremed; margin revolute:

 oftensively: Banser, two callosities at the base, as in holichow, downy on the back. Germ one or twoseeded. Iequmes sessile, oval, downy, sbout as long ws the long, slemder acute dirisions of the calyx, genemally one-seded.

## SLC'T. II. Lentes componerd.

26. C. luhurnifolia. Hتlld. iii. ns?.

Shubby, enert. Lemes ternate ; Ifaffels ohovate, smooth. Stipules none. Racemes terminal. Iegumars peelieetled, clubbed, minhy semberl.

Nellu-tambale-tonti. Rheed. Mart. ix. 1. 27.
Beny. Mmula.
Telimo. Muma: or P'edua-galli-geeta.
C. avborescens Berm Z.yl. t. 2̄̄).

An elerant, lime shabliy, bronn-like species ; common on the smutherna parts of the coast. Fluwers mest part of the yatlo.

Stemenect, worly. Bramblies several, asemding; the whole plant from four to six tuet

 smeminal, laree, many-thewsed. Predicels point cht, and bracted near the :lpex. Bractes of the
 of the binmer, mul keel. Leguane, perlicels clubbed, smooth. Seeds maneronz, kiducy-shinped. Cattle eat it.

 long. Bractrs, cordatr. Leymmes perdicelled, cyliudric, smuoth, few-seeded.

Teling. Kommeralli-guett:
like most of the rest, this is a mative of pastme gromud, borkers of cultivated fields, de.

Rout tweremial, white. Whaly: Neme serital. prommennt ; racemes round, hairy, from




 sterlut.

2h. (', ryliwuides. Roaxh.


 Lhe dry whom. chic H?














Trlime. N a zalli \& $1:-9$.
 lami, Ar.







311. ( Traull r. h.r.












 Ei hrinary.








 paik e. en merral.













Pase those of the calys two. Caly, hairy, five-tontherl. Filamenta miten into me homly, with the


33. 1'. quimquefolist. II Illet. iii. Slas.



I most dugnt, harge, ammal sumes, growing chiefly in the wet rice fields. Flower during the raing sensm.





 mens mul int hors ats in the ge mu-; the remed anthers are here nemrly $t$ win, so much me thoib lubes divided.

## 

Perionth with a lone filiform tulse suplumting the corol, ant stamina, or it momels,
 1. 1. h.!pu!fu. Wille. iii, 1331i.


Hind. Normer phather.
This very wedinh and emomon phant is to lor fomme in all the wamer parts of Asia.




 lenerth. from which it will be seren that this phant is in fiact an styforonthes. Howerer as its present arneric mane. Ahuhis, is un miversally known, I think it will be butter to continue
 one frems. I luse at this instant luth the living plants before me in high perfection, and






 al common extorior pair to the fasidele amb small proper ones to the sownal flowers; all are



 wings and eamai fartly on the base of the staminfiems thbe, and partly on the monthe of








 allow them (o) thast themstres inth the gromal whe depth of one Lwo or aron there






 puint.

The nese of the seal of this plant, are tow miversally kown to rember any account of them necessiny in this phace.
$\because$ 1. friticusa. Relz. Ohis ir. I. (ï.
Tritulimu purambens. Liurom. Zonl. p. 20ti. t. 10t. f. 2. bad.
Stylusanthes murromata. IV'illd. iii. 1166.
troling. Snillee-kumpa.













## （．llirn！ond：P


 anil $=10 \cdot 1$ tr if int 1

1．（ $r$ ：lint



7 $1.11 \%$ ，
Nanx．l＇e Ni，lman＂pa or h p－h l．，
If \％．Wh ，






 sip．Atis

 revilifrnanes ．an：$=1$ ．．
 － 14
















3． $1^{1}, 1$, it $n \rightarrow 1:$
 d．．．en．

71i ：F mure at 10.











 their currme，ation rembing ofl the dumbe lhat corn ma them．


 seded，derply fimmwed，and amod whth much brown burning lasir．

Tım．＇lilla－koxli．

 and May．

6．（＇．gigunlenm．$R$ ．
I＇arimial，twining．Umbels pendubns．Lequmes form three to six－sected；surfuce even

bolichos rismmtens．Wille．iii． 1 （111．
ぶakn villi．Rhert．Mal．viii．l．：36．

 stasth，and the seed riprens in Jomeh，dpril，and Nay．

## 

Feel．with the stamina and style spimally fwisted．

> SLCT. I. Tuining.

1．l＇．rulgaris．W゙illel，iii． 1030 ．
Twining．Flozers racemed in pairs．Braches smatler than the caly．x．Legumes pendu－ lois．
（＇ommon in gradens all orer India，where indigenons uncurtain．
2．I＇．lumotus．II：illl．iii． 10131.
Biominal．Flwoers ramemen！in thras．Teynates scimitar－shinped，smooth．
3．1＇．marimus．Sloan．Jam．1． 111 ．f． 1.





4．I＇．alalus．H＇illd．iii．103．l．
I＇memind，smonth．Flowe＇s mecmed，in paiss with oflat between．Feclary within the


Legumes pedialutis．

## Teleme liar alvanda.


 lin lu.unt.
 s ultes I h1rn

इ. I'. "ublet fins. $R$.














 caltu.




















7. I', ; , .1.



 n. 11












 remel $r$ it irl lt it l.


(f) (1.1. ) ,






Page Curey






 mppearance in bantal, that it ann be :npliced to mey u-citul purpore.

## SECT. II. . Vol luinimy.

9. 1'. namus. V'illa. iii. Io3si.


10. I'. glaber. Pearts.

 seretert.










 brown, with lierhter condoril spike.
11. I' J/ungo. |l illıl. iii. Ini36.


12. hirlms. het... (ites f. iii. . T. Ti.

Srens. Alocrelerer.
Fingl. (frown cri:mu.
Hind. Wralli mung.
Benly. Hever.



























 tions, for on theme depond the liver of thomeande.


 attely atior the rice is colt, the






























## BE日 1. К 1 ver.















1.3. H. 1 in $1 ;$ i il llar




A 1 .





 1.nortry











 till

I., I'. If litatio.



Pago

## Weichit.

## 18. L'. tornsus. Ruerb.






 18123.











i5. I' triluhtes. It illd. iii. I ( $\because 35$.





Ilimh. Kalktal-huluy.
Telime!. l'elli peren láa.

 year.






 slluxthı. Norefs [rrais.


 Cintle colt it irrerelily.




Himel. Howt.

 used for fereline cattle: serl-time there, Junc:and July ; harvest in Nomomber.











 Fals．


 \＄r．！：
















$\therefore 141, \cdots$,



 the t it il it


 yer．










 w）tom ht， 11 ！ 11 nit．















II，I．Latin：

$\therefore$ … 11 un $1: 1 \mathrm{i}$
It the is li ， 1 the． 1 t． 13 t ．


## P！RO <br> Enoy

Ed．

Page

 Hrilld. iii. lus, !

## F) 11. wheromblutue. R.

 olveng, st might, the to six-sweded. Seel al kimexn.



 all in the shillu "f than hases.

 sub) or lintric, wer.






















 of the shape of the leaves, indepemtemt of the rreat ditien mee in theirsize. Ithis is the



 the straw is griven to the eathle.

 the nanne Dútichens eapilaters.
7. D. Lefertematubus: Willd iii. 10t0.


Reared in grardens for the table. Wham intigemme 1 sament say ; like for far the wedter


8. 1). lahlat, JI Filld iii. 1037.


 with a harger eden on the exterion margin.
 A shom checription of what 1 reekn the first carict: viz. Imapm of the Telingh*, will serve for the other six.

1s\%. Teling. Ammapia.
Stem for abont a tont erect, thin, with its branches twininer, and rmming to a comsider-
 Jegumes homizontil, semilumar, compreserl, with the miagins rugese, and the apex straight, sulmbite, Siceds fiom theer to four.

The whole of this plant has a hemy disagrecable smell. something like the seven huro





















1/h. Br, \% (i malil- im.









litk. IF 日象 lint lim.
r.l ug. Adsi , likurhui.







! 1). 1 Hin s. If U.t mi. It th.









Tl \% M. lighl his.




 all






 18.

 Phlsate, xicu of lue lied, litiger.











1 U I1. thlt,usts. Hilld. ins. loils
 talte.



























## Brag. 13 1 II berlomtere.

 lasts at least two youma






 or eiflat, sub-e lindric. dark hrown. si\% of at shall peat. Contife are fond of it, utherninc it is of mune that I can learm.

## 12. D). prostiolus. B. II. and Fön. Mאs.



I). cilialus. Willd. iii. 1019.






 threr to four-serded.
13. 1). fulculus. W"illo. iii. 10.17
 short, tew-flowered; Leymmers lincollo.

(ilveino friluber. IB. Il. (i. ©. Nï J. Banks herlarinem.)
1). Frilolun. Lour. Cochin ('h. jis.).

Teling. Itou minnger figm.
It is common in hedges, tinelsets, \&c. where the soil is rich and moist. F'owers during the colld searoll.





 gumes linear, (onnpressed, smonth, from lome to edemt-seeded.
'The thberons roots nre cht by the batives into the form of beads, and stmate and worn

* Can Lonrejro's plant be the sime? Jo says his is without stipules, and here they are pretty latge and collspictuous.

Fomal the wath to) (onve phrer is in childrea.
11. 1) glatiol sus. Ii sit,















iknow t IIM ti-




13 g. II th illi.
 sta 2 (1)









iti. 1). kuntro. If lat i.. 1 rit



Art * Fiml ther.
Bー! $\boldsymbol{H}$ h ittrer.



N2







 +d, k 11!! flat, , 13!




 ultisterk.




17. 11. Aryer. I1.lile iii. |6il.














15. 1). medicminens. Il illd. iii. Iots.
 grties illoitys aculatl.

Teliuf. (xaden rliktuliai.








 remarkilly latrere ('attle coit il.
14. 1) secsectertuides. W'ille. iii. 1016.
libemial, 1 wining, downy. Lenflets owal. P'eluncles two-llowcred. Leytume lialcate, from fotre :.. six: weled.


'this like the liti al'




 of 130 othicrere it is puts to.
20. 1). Phasomluider. Rorible

 from tedr to twenty-sicoldel.







 sfifules of tho petioles triturulur, of the lealets subulate. Roremes asillay, velitary, about




 quilh, amd trom three to fome inches tomp, black whes rije, ant a little lariv. Siects liona twelre to lwain!, smouth, smmll, lownisli graty.
21. 1). Sidtreformis. Il illd. iii. 1(1.) 2.



Teliag. ( (mor-chliknkni.
I'momlia tetiagonatulue. Jhent. 10 l. L'ich. iii. Jith.
 of C'oromituld. I Hev'な shw it wikl.










 there-dompl. Sorde fixm coisht tutwelro.
 the ano alsis lothed ot the plant.







atus．il－tal prive．
$B_{1}$ \＆ 31 ．It ．．























3 1．1．， 1 \＆ 11111 ，iii ， 1.


 anet in tary men







 frimu fintr to i－ht velal．

## 

 tworen it


















 the－irtoras．





 gumes obliguely ofal, downy, hid in the calys. seed onne, that, rentiform.

(LITTORT.L. Nehrelt. !en. NT. 1183.

Corol sippine: banner limes, expmadiner under the winss.
321

1. C. Ternater. IJ 'illd. iii. lusis,

Teling. Xella dintana, the bhe foweral variety; and tella dintanal the white.
Suns. A-plwata, Comajita.
Beniy. l'puryitu.

Shamgra emsji. Rileed. Mal. viii. I. 3 k .
Common in wory herlye all owe lodis, and in tlower the greater part of the gar. Its rout probably is not intario to jallip :s at cathatic ; the powlered sed is also purgitive.
2. (C helerophylla. Camaresi.

P'ermaial, twining. Lemees pimathe. Leaflels there, five, acem, or mine, from rombl to linear.

It is in thowery mal serd the whote year. Its tetiente twining hatbit, variousty shapect leaves, and bemtifal azne flowers render it very ornamemtal.

Slyle triaugnlar, alowe kerled, pubesernt. Culyw with the two upper segments shorter.

1. sativem, W'illd. iii. 117".



 every part of hengal dhming the cold semom.

## 

Style flat. villons nhewe, hronder upwards. Two suptrior divisions of the entyx shorter.

1. L. - fphaca. W'illd. iii. 1077.

Bent\%. Mtsther chmmet.
Athomgh the stipules do not agree perfeelly with Billors figure, which repromats then acute and with short petioles; yet I think they (an be mothing more than varietits of the sathe species.

The flowers of the Imbinm ant ante sellow. the herme that, and with fom or five sects. Curtis's tigure in his Flor, Lemdinensis is more like onr lndian varity in the stipula, bat his legmme hati seven or right sieds.

气. L. sulirus. Ifillı. iii. luzt.
shem chimbinge, smonth, fionr-seded, with two of its morles wingal. Perdenches oneflowered. Tendrils finm-leavect.* Stipules :adjoincal. ovate-linterelatle. Legumes urate-oblonsf, with a doulate keel on the back.

Beng. Kesari.
Is sown on at atmag, rich soil, abont the clust of the rains, in October' ; the lameot is
 fonder for cattle : and the eords, when the phat is suthered to rewan till they are sipe, ar ased in diet by the matives.

VTCI.1. Sehreh. get. N. 1147.
Shigma tramsersely bearded on the luwer side.

1. i. sulima. Willr. iii. $11(11$.

 sessile. Legume horizuntal, cylindric, fiom six to cighteen seedert.

Beng. Mukari.
A native of Bengal and the provine to the monthward. Whan yone the matis on the
 as the stipule get ohd, leaving a brown mark omly.
 meets with at suitable soil, it sprads owe at full yam of surface, with numerons sheculent brmelees and leaver, which eatle are fond of:
2. V. Pullar. Hills. iii. 1111.

Slem numight ; picoles withomt tumbrils.

[^23]

 the dry - drunt.

## 


l A Ar-ventrise. II il al iii. Ill:


I/, 7. Thesitur i vi.. ri.


 Pbal.


 Lorferlm 1 l $1, r_{m}: 1.14,=1$ it.

l. atlo is witlo.
(likk !

















## 

 tenuztol at lla las.

1. 'ij1 16 ! iii. $11 \geq 1$.



Br. A. (Have.























Pago


 is a thive som embinathal on the hith hill whith form the morth bunndary of the Cibears，hut 1 have never brell able to mert with it．

## 

 at tho sereds，chomested．

1．IV．coudislor．liorels．











 within Legrane linemr．many－sceded．

2．K．sulif rown．K（oxh，



 sum durine the rathe rhiofly．






 tened romisorm serals．

It is ：very orumanemtal phant，particnlarly while rumur．
3．R．Semoricles．Rorb．


（＂ytisus sevieres．J＂illd．iii 1121 ．
A matise of the＂irears；flowering in the hot seasan．
1．R．firulionsa．R（arl）．

 tos sis－sereded．

 ill Jannlily．














 naked．Legume linar－lancenlate，thin，trom fime to six－seded．

5．LR．macrophylla．R．

 ginate，with twor short allowities at the base．Lefume lincor．Alat．downy．

A native of the exterior pats of ，engal，where it grows th he hare，wuady，mad suan－
 ti．IL．jering nate．



7．K．vं וf mers c．$A$

「rlim\％．lialu－al．












## 

 with u prevtiti is between the 2 a 1 ．




 vic charucher Al，I ritity alt ras．

1．A．$g r$ suiextur 1.

$1 \% 113$ rosel lual genu．
$\Rightarrow 142$



Imati．R ，I．I／I／．i．／．il．
NHs．13．kin．
B I．Buk．l，al ，Ansil 1 ．

T＇sin．$I_{-}$ti．



 fruit aruat part ai il ？Ir．














 ｜－trta．

2 A．Eximgt．
 problinlons．

Kulangin．Rhowe 1 ，If，l．vi．t．9\％
Einurlls．Burwi．Zoyl．\＆．H．
Duns duvulti．Pee Asiak．lirs．iv．fr．2！ 27
Ben！deryunti．

 5．）thit can！t la it．

Teling，suinimes．








There is a variety of thin tree with yellow Howers which is net an elegant as the above describul. I have also seren amother with red thower:-
'The wood is satel to make the vory best chareat for ginpoweder.
3. A. spimulosa. Roch.

Amual, suhblignems, erent ; Armed with inotiensive prickles. Leaflets fom twenty to forly pair ; pelioles armon on the muler side: Legunes crect, tilitirm,

Coromill: aculeatu. Willd. iii. 1117.
Twhing. Lerra-ddoneral.
A large shrubly-like ammat, erowing to he fone or five feet high. It appenm in rice






 sized. Leynmes crect, shaurp-pinted, ahout as thick as a pack thred mul ifht or nine inches long, protubemit at the sext, lint not jointerl. Sereds kiducy-form.

## 4. 1. puludusir. Rexhb.

 leaves, drompinge many-flowered. Legumes lintar, pendulons:

Bony. Kathsola.



Ront ammal, spindte-formal. Is ith sme fien lateral brameles. sten ereet, ramous: all



 ant are eovered with shooth, shining, green hatk; hitight of the whole phath firom sis th twelve feret, the relative proportion of the immersed and expmed parts depende on: the lueirht

 gencrally opposites sessile, from ten to thirty pair, tapering : lithe from the base, where they are broadest, to the apex, rounded at buth cmis, with a bristle-like puint. smuath aluowe, mal
 ineh horad at the base. Pefibles swelled at the erlandular hase, chamelled; chanmel ha iry. Stipules halt laneeolate, falline; thone of the leaflets smbulate, peruanont, minmte: Raermes
 the leaves which they :ecompany. Flomers dropping, as large at thow of spanish hroom, of a bright yellow, with the back of the bunner spotted with diatinet, roume pmople duts. Bractes. those of the pedied solitmy, those of the caty $x$ two pressing ou it latemblly, all are boat-shaped und decidnonts. Caty.r ; corol, dre as in A. Cannabina.
5. U'Vliginose. Roxb.

Ammal, difliser ; lefflef forty pair. Racemes sub-sessile, erect, from sis to cielht-flnwered. Legame recet, cu*pidate.

It is a mative of monshy places near Calent ta, appeariner amp fowering in the rains.
Stems ammal, ramons, sprealing. Branches somuctimes sli rittly and romotely murexed,
 a point, and bright red margins, smouth on hoth sides. Stipntes is in the other speries. Racemes axillary, sul-sessile, from six tu eioht-flowered. Flowers short-pediedled, mproximate. Banner ind winys vollow; lece purple:

Note. The parts huder water are swelleal, like those of the last docribed speeies. It differs from (). promembens, in having twice the number of leaflets to the leat', aud more than twice the mmbor of flowers on the rateeme.
(f Aix Caunclimu of Kïniy. Sec Retz. Obs v. 26.
Ammal, sitaight. Leaflets from twenty to forty pair. Racemes nxillary, few-flowered. Legumes lous, slemere, somewhat fonr-sided.
(Ammilla ('anuckina. IFilld. iii. 1148.
Beng. Whunclu:
An mumal species whelt I have not fonnd wild. It is cultivated in varions parts of Bengal for the fibres of it= bark, which torm a eoarse sulbstitute for hemp. The gencral secel time is in April; it is in flower liour or five monthatere.

Root ramoms, anmal in a cultivated state. Stem simple. from six to twelve feet high, and abont as thick as the little finger, smooth, towards the base somewhat wouly, ramous near the top ouly; the most tudur shoots are slightly striated, and a little hairy: Leaves sul-sessile,














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7 Wh: t $K$

 7. \%. 11 1., 1 !
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## ILK.:MNTI R.

 colmi, int tixit - twa -1








## 1. F procent r. Rom).
















[^24]Page
Carey
Ed
eoloured lines: wings purple; hecel pale pone. stamens une, and nine. Anthers ovate. stigna mar, calitate. Lequme sessile, owal, becprinkled with garnet-coloured glands, one celled. Seeds two, sherioal, sray. mockled with blackish brown.

ㄹ. F. prosirnla. Roch. Jien.
 acute. Itwemes axillary, solitary, lenrth of the petioles. Lomeme villous.

 huring the cool seman.








 white hairs ; segments state, then lower one twice the lemgth of the other four. Legume oval, twionceded. Secils rumul, durk hrum, spottenl with gryen.
3. F. nence. Rorb).

Sutlintione, with a very short. lismons ate:n, mad few short bramese Leazes ternate. Zraflefs sulb-obnsate; pefivie winged. Racrmes axillary, crowderl. Legume cowereyl witlo red clammy slauds.

## liked. s゙upta ('rosnit.

 parts in the sicinity of the dimere thward harelwar, and ly him introducen into this marden.





 Slipuiter on-iform. Rartmes axillary, uh-sessile, from one to several threther. Bractes solitary,

 fermginums yrlands. Legume owal, densely elothel with clanmy reddish glands, as are, in some mentinte the prolieds and ratemes ahso.

1. F. panjesta. Rasb.

Shrubly, suh-erect. Leceflefs hroid lanconkite. Rucemes axillary, subsesesile, heaped.
Beng. and Ifind. Bural salpan.
'This species is a mative of the Welta of the (ianges. Flow cring time the cold season; the seed ripens in two or three months afterwards.

Sfents sewemb, oldigne, wowly; young parts vilhoms. Branches few, pencral leight of the
 tire, pretty smoth alowe, villou- mulemath, the termimal one bromdianceolate; the lateral ones of nearly the smme size, and hispe, hut hromber at the lase und less distinetly marked with the three nerves, about six or cight inche long. P'etioles nearly romm, mod vilhons. Sti-


 length of the lowe division of the ealyx. sub-renitime onc-jointed, two-seded.
 wer. In this thr racems are rembhet, in that single; in this tbe bractes are shorter than the flowers, in that siveral times longer.
5. F. semialatr. Ro.rh.

Shrmbly, ramous. Leares terate. Teeffets ohbong, nente, three-nerved ; petioles winged. Racerues terminal, and axillary, panicleal.

A mative of N'pal, from thener Ir. Buchanam sont the seed to this garden, where in little more than one yemr, the phants were tall, elegant, ramons, stont, creet shrmbs, with the







 sessile, wal, slightly villons, turgid, the size of a fichl benm. Seeds small, pertectly round, smoth, shining hasek.
f. 1. fineala. ll



Ilçiveitum lit itmm. Linn. Burm. Fil. Ind. 167. t. 53. f. 1.
A "tire of the la simala of latia. Flowne during the rainy und cold seasons.
7. F. a memstiforiz. Il.
 and fir m the exterior axilt-, solitary, stosile, searcely the ly ugth of the pe tiokes. Legumes viller -













 ateled ...ent - ild ritiol.


## 

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Hi-L. लiti-Protni.
If F Null Kishint.




$2.8 . \quad q$. $P_{1}$


the $g$. li, ! tifa.
























 kave, wint with draste lave ictur. ant Criniturn.

NBC'I. I. Leanes simple.

1. 11. alhagi. W゙illd. iii. 1171.

Shubby, urnme. Learex oblong, mucronate. Slipules cusiform.
Stuns. linat, on yava-a.
Himd. .lıwaะa.
Pers. Shooturk'has from its beine the emmon foon of the caund.
A uative of Ilimonstan, mul generalle found in a dry, rather harran, sandy soit its bramehes are med for the sereens. cathed fattere, mmphoyed during the hot dry vinde, comb-

 plant aftur sprine rains and is gathered by merely shakine it ofl. See Folheryill. p. 2:37. In the Wrabl), wher it is common, it is for the most parts herbateous and caten of wh the gromal by wattle.
2. 1i. moniliftrum. II illt. 1173.
 Legnme nwekher-shapme with mand joints.

Itedysarum moniliferum. Buru. Ind. t. 52. f. 3. pretty grool.
Teling. Imera.
( (ommon on pasture lund over most parts of Imlia. Flowers in the rains mul cold scotson. 3. I1. metimalf: Willd. iii. 117(6.

 four to six-jumad.
(remista articulata, \&e. Burm. Zegl. 7. 19. f. 1. pmetty erond.
Common on pature lam in mont parts of India. Flowirs in the miny and cold suasums.
4. H. prorumbens. Rorth.
 fowers in paits, bomote. Lagmmes from two to four-juinted both marrens buthoul.

A small percmial; a mation of dry, samly pasture lamts, thomeh by no meane common.




 contprescid, franion tu finm-jointed, hairy.
5. 11. greminum. Willd, iii. 117:.

Bicminial, wet. Leares simple, line:n, smoth. Racemes ferminal, loner.
II. gramintum. Relz. Olus. I: A. 7U.

Tens.\%. Pinn Nutta.
 It flowers duriter the wet ard cold seanms.

Stem seareely my. Branches many, sometines manty wet. atmetinut difluse, ver! slen-
 ont and of half, or two inches long, amd half an inch browd. Sliphes of the petiokes chatly,


 abmost rombl, protty smonth anticoliatims.
6. H. Inplemifotmin. Hillel. iii. 1171. Comom. pl. ii. V. 1 Int

Peromial, diffine, hairy. Lecures linear-hucwhatu. Nipmen whative Spikes imbricaters
 beaked, nbliquely ju interl.

 shated by hare trees, it ryow- with an arect, wouly stam, to be that or fom fiet high, with many lones strarerling branches, resting on the enveund ; in inn caposed poor soil, it is al anall
 and fold sensons.
leates rumote, altermate, horizonlal, petiohed, laneeolate, hairy, size varions. Peficups
 and sululute. Spikes terminal, and hat-op posed, many-flowered, imbricat oll with chatly, hains

 there to five ohligmely aval rurose joint.

## 7. II. styrncifolitm. Wild. iii. 117t.

Shubhy, crect, ramons, every part except the upper surface of the laves hairy Lences whone, cmarsimate. Racemes terminal. Braches sulitary, corlate. two flawred. Cathx four-


I natior of Coromandel: flowering time the chase of the rans. Serl ripe in dimary.
4. H. ghmmetenm. W'illd. iii. $117 \div$.



 the raje．．and（9｜n - ，ज्या．

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（1）11．alatun．Rysid． 184 fi．

 jusistorl；loser murt \＆crebs＝te．











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sions．Balpurice．
Ben日．－il j11．

 Ste4l ri！th－int oll ot ml ．



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13．11．ly j d a f $k$ arl．














11．11．s！rolit frum If illat．Iii．117t．


fll it rant pretiy lurgo surub，a mive of varisus parts of fimia．Flomering time the cold sean an．

Page ing, imbricaterl on the two silles with alternate, hitations, roniform, when foreibly expinderl,

 white, midhle-sized flowers. Kegume of one joint with one or two susall reniforme macnlated secds.

## 15. H. Zracteclum. Roxd.

Slumbly, ermet leures unrow-eorlate. Racemes terminal, eompomed, bifariously imbricated with alternate, rimiform, intlatad, downy bractes. Leymme of ome owal joint, tworeenlal.

A mative of the intrrior parts of Bencral; from Dinajpeor D10. W'. Coarey sent the seeds to the botanie girden at ('alcuth, where the plants thrive luxntiantly, and leserin to hossolll duriner the cold seacions.

Stems screral, shoubly, erect, a fow brauches from their upper parts. Tender parts some-

 abont there inches long hy wne, and unc and a half hroat. Stipules chafly, ensiform, permanent. Recomes terminal, on from tho extoriot axills, drenpimg, rompmond, or even decom-
 strobiliferum, but in thi = spooies they are sott with much town. Lirterior brectes ensiform,


 hid within the seariose bractes, ot one oval joiat, villous, we on two-seded, two is most common.
III. wanting. Racemes termimal and anillary. Leyume lisipid, six-jointud.

Beng. Gora-chmmal.
A native of Bemsal. Howrering time the cold seasom.
Rool ramons. Stem erect, with u fiew twiges. smonth branches; the whole height from
 ends, smooth :and motire, the exterior one much larerer the latural unes ame sumbermes wanting. Petioles halfirommt, with a lew lation over them. Stipules tuproner to a tine print. Ra-

 Filaments alternalely short and brond, honer and tiliform. Authers rammisho. Stigme two-


The womderful rotatury motion of the sumall latemil hathets of this phat, hats abeady been taken untice of in rarions pmhlications: it is umberesary to repeat, what is now well kuown.
17. H. risperlitionis. Willd. iii. 1177.

Anmal aml himmial. straight. Leares telmate, and simple, highly eolonred ; lateral haf-
 four to six-jointerl; fulded up in the influted calyx.

Beag. ('hamehicka.
An mucommon looking, pretty plant, a montive of varions parts of India, in flower and seed the whole: :enr.
18. II. sor̊orium. Hrilld. iii. 1170.

Herbacems. procmmbent, shouth, three-sided. Leaves sub-simple, orbicular, amarginato smooth. Racemes axillary.

Legumes semi-oval, onm-seeded.
Teling. Nalla-sor'n-aidla.
A native of naked samdy pasture groumd. Flowers dmeine the wet and eold seasons:
 sprealing close wer the grombl to a great extent, somewhat from , dirht wh teret cach wity, slender, smouth, thee-sidul. Leates remote, altornate, petioled, orbicular, comramate, sumath,

 late, chatly; those of tho hesves, or leatlets minnte. Rucomes axillary, longer than the lavos, fewflowemat. Bructes enncatre, few-iluwered. Legumes buth-shaped, pointed, smouth, ulways onejointed aud sue-seded.

## SECT. II. Leares conjugate.

## 19. II. diphyllum. Willd. iii. 1178.

ITerbuccons, cespitose. Leaves binito; leaflets lanecolate. Stipules lanceolar.
Nelam mavi. Rheed, Mal. ix. t. 8:2.
The leatlots in Bumman's firure aro much too browd and sliort for tho cort on tho conte



## SH:CT. III. Lemets tomate.

20. T1. lviffomem. Wikd, iii. 1202.

 sile.

Bera. hulilia.

Traity. Mtomomalit- Mankx).
 Imlie.










-1. 11. $r$ It $R$. $R$ sh.







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 mar_ins.











 be entivatral tometwat and
2.3. 11. A.timet inum Rew.rh.

 $y y^{2}$ fivin fint th live jumitht.












Page line:s, a little emved, from fom to six-jointed, wotehed on the under side, armud with a fow







 covererd with hooked huirs.

A creppintr, berential species, prowing muler the cover ot bushes, in a dry, gravelly soil. It flowers during the wet ame colle semsons.

Runt worly. Strms or rather branches seremal, prostrate, rexting at the joints, slemeler, two fert lons; young purts cowered with short hairs. Learess altermate; exterior terflets,




 there to four-jointex, noteled on the under siele, celosely ersereal witl many stitl, hooked haiss, which makes them athurw to every thing that tonches them.
-.). 13. di!fusum, Rored.
Shrubly, dithst. Lemflets oblong, rentriegse. Racemes terminal, lang, imm slemer, mitla
 pil biritles.

A native of the interion purts of Bmogh, nud fion thene introdured intothe Companses


Stems and licuaches dithes, lignomes, but shatere and varionsly lemt. Bork smonth, of dark brownish groen; young shoots cowered with a fow depmend liarsh hairs; the length of the longer brabches many fect. Leares ultermute, featrally ternate, thongh sometimes simple;

 lefs ensiform. Racemes terminul towates the base, ramons. long. shemder and villous. Flomers
 in succession. Bractess ensiform, oue ut the buse of ench perlieel. Legumes linear, form tive to six-jointed, covered with many shart, hookur bristles by whiclo they melhere readily and tirmly to every thing that tomehes them.
26. H. rewreatum. Roxb.

Shrubby with remred brauches. Leares hifarious. Leaflets ovate. Racemes axillary and terminal, droxping long hafe the thwers expand. Bractes many-fowered. Legumey linenr, compressed, manons, bristly, from six to seven-jcinted.

A native of the interion parts of India, amidintodnced into the lBotanio earden by Captain Mardwicke tron C'mwnore. It flowers during the raiss, and rijens ita sued in the cool seasull.

T'runk (in our young phat) short but ligneons, with the branclues bembing to one side
 bifinions, termate. Leaflets ovinte amd aval, entire, rather nente, somuthat pubserent. Petioles
 late. Racemes axillary and terminal, befare the Hownes expand they point directly to the
 single, laroal-lanconlate, emblatimg several smaller with at sucersion of smatl vinlet-colomed
 and aper of the berel blue. Legmmes long, slender', compresxal, clothey winh Jamous. bristles by which they readily adheme to my thing they touch, both mangins nemrly even. foints long, six or right.

ッ\%. II. purpureum. Rord.
Ferenuial, diflise; leaflets ural, clouded. Racemes terminal, before expmasion strobili111. form. Hegumess six-seeded, motehed on the mulele side.

359
Remed from siceds receivert trom l): ('arey, who grathered them on the nomthem frontier of Benginl. Flowariner time the rainy semant.

Stem shont, neaty strairht, with mumens lomery branches from its hase, spreading
 with short demersed white hairs. Leares tembite. Leaflets exactly oval, entire, pretty sumath, of \& darker colone an the npper surface amd often stained. Petioles chamelhal. Stipuless ot the protioles, from bromi buses, tupring to a long dargered perint; thase at the leaflet- awled. Refemes termimal, solitary, hairy. betom the Howers expamd, imbricated with mumerons, two-



 fivem six oblacular joints, straghe on the npher mige, und nutelud on the lower, hairy, particthlarly the marerins.
28. H. Liadiculutum. Hilld. iii. 1183.
shmbly, stemder. Lemies ternate; leuplets ublu:gg, sumbth; racenes terminal. Le jabmes with , me on two juints.
11. Wiphollam. Bum. Zent. t. . f. …

Teling. Nilia Kiamai。
 time the wet athl antal setions.







2!. II. umbrllalum. Hilld. iii. 1142.
 wotched nil ohe side.
11. trifolinm aitoreum, Burm. Ze,l. t. Il.

Trling. 'hatenta.
 bark. If thamern during the hot matan.






itti. II. ('phenatutre. R.




 tle cold sea- ilt.












31. 11. Trariver. i .

 cimbil, th shy j vinto.

A 11 tis of the Molncers.
S: 11. putchetlucm. If ill l, iii. 1179
 the leavi R,

Bents. Aluta $=$ al
 tains ; therrine time the rain! -rn on.









33. 11. y.fo n.s. liovet.


 the rastr.

 altornate, lifarinue, ternate, arely single, and then weat the wot only. Jeaffots, the pair
smaller, wrate, and ovate-oblongr, the tar'minabl one weaty diputie, or wal, alt are olftase, and



 bidentate. leequmses five on six-jointed, clothed with numerous hooked bristles; the rander maryite dereply notelsicl.
31. 11. Jemerum. W'illd. iii. $f$. 119 f.
 or two-seded, the temgth of the acorlantis of the cislys.

 coldel scisticits.










 dulous, fom-juinter]; rontracoteal at the joints.

Kinlsmmi. Renh's' Fev,. K (emp)f: Lab. 05.
T'eling. 1)irce, (x̀momere:

 gimmince of thu (4) del serson.

Root tuberont, Vary letrop. I thank oum of the largest I eve satw. Stems twining, woxly,






 tains where it grows to rednce swerlings: of tle joints.

## SECT. IV. Lectics pinnute.

36. II, sennoiles. Trilld. iii. $120 \%$.



Teling. Nall İishima.
Russuchan of König.
 durine the mins.






 contriteted at the joints, muricate, mintinons.


is\%. H. lege nos'isin. $K$.
 about two-ilowered. joints of tho lermme fon fom to six, seabrons iu the middle.


- Imillynomelle usperore. Wrilla. iii. 11 fi3.


Common on the bxalers of the lakes of swert ranter in most parts of India. lowering



i3s. H. Feli-tuli. 7.
 joinch. Legrmes fiom six to teu-jointed, smooth on both sides.


## Nuli-luli. Rheed. Mal. is. l. 1s.

Teling. Tixat jectorysi.
Aiscliynomentic Indera. Wrald. iii. p). 1161.
Foumil un hoist pisture romed. dnris the rainy benson.

## UuOHI.1. li.*

Calax bilabiate; u?per lip liting; quder tripurtite, in the matume of the reanpinse by the




 hor)kryt bri-thes.










1. 1). sis pli eifflue. R.



It A!
2. 1). I Ig(y) (iii dis. $R$.
 juintirk.

IJ+uy. Ii luk- नlukuli.









 lte a!.
3. I). Fit nes z. R.





























[^25]Page tember shoots romad and armed with immanerable hamosce bristles. Leapes umergally pinmate,
 ther luciel abose, and retieninted muderueath; abont throe inches long. Pelioles romud, and
 cons; thuse of the leallets similar, but sumble. Racemes terminal, susila, oftoll several togather, their bane imbricated with many, bromi mased, tapuring, cilate, lurmanme bractes.

 ed, protty lage. Caly.r fire-clett; dicision snlmhte, the nper two when in blossom, for in seed they become the malermost, rather sumbl, all ate very hury.

## INWGOFERA. Schreb. yen. N. 1205.

Corol with an awl-shaped spreading spur on cieh side of the keel.

1. 2. linifoliar. IVilld. iii. 120. Corum. pl. ii. N. 196.

Percmuial, cespitnse. Ieraes sinıple. Legumes crlobular, seeded.
Hedrsarmu linifolimm, Limu. Suppl. 331.
Beng. Bhangra.
(emmom amomgst grass all neer India; it is probably the smallest of the genus. In Bengul there are two varieties; one with red, the other white flowers.
2. 1. pchinata. W゙illd. ii. 1222.

Stems prostrate. Lafares simple, niovate, dotted. Racemes axillary, Legumes crescentshaped, with hooked bristles on the renvex side, one-sceled.

Hedy:amm rotundifolium, Vahl. Symb, ii. p. 81.
Teling. Nalla-paleroo.
Ouohyrehis minor monophylhs madraspatana. Pluk. Alm. 160. t. 433. Fig. 1.
Hedy innm mumularifolium. B. II. $_{\text {. }}$.
A native of moist borders of rice fiplds. It flower during the wet season.
Root perminal, ramons. Stem no other than maly ramous, prostrate, angular, smontb, coloured. firon one to three fect long banches, sumetimes striking root. Leares simple, alternate, hifarions, sub)-sessile, orbicular, or broad-oval, a rery little hairy, marked with many, smath, rlaminhur pits. Stiputes subulate. Racemes axillury, short-pedmached, alout as long as
 gumes liorizontnl, mon-fiomed, beaked, covered with inoflensive. hooked priekles, one-secded.
3. I. aspalathifolia. Ro.rb.

Shrubhy. Leates fascicled, wedge-shuped, smooth. Peduncles axillary, solitary, one-flowered. Legumes strairlit.

Mameli. Rheed. Mrat. ix. t. 37.
Aspalathus Indica. Lima.
A suall, brauchy slurub, common on dry saudy lauds near the sea. Flowers during the


 seedelt.
4. 1. Prita. MFilh iii. 12:®





 they we the same.
$\therefore$ 1. cimeren. Willad. iii. 1225.
 ses-ih, Legimes horizontal, four-aitect, with sharp thurny printo.

Teling. Veri menlli.







 remote.



 f. 1. ghanlpors. II ill l. iii 1257.












 ad ly 12 prtition.

 7. 1. provtrater. IVill I. Wi. I22bi.






 to "izht-xernd d.
8. 1. argenter. B. $I f$.













4. 1. uncthara of Wr, Is y-hanam.


Page leaglels cumeate. Fhner solitary. Iagume thece-sedal.
Earey Namulla. Kheerl. Shat. ix. \%. 37.
Aspalathus Imetica. Ẅ̈lh. iii. 9 (i3.
Lotn's trmifilin's. P'uck. Alm. 1. 201. f. 2.
A mative of dystue, from thence the seeds were simt by Dr. Buehanan on the Botisnie garken, where the plants thrive laxurantly, and contime in blossonn great part of the ynal.

Rool peremial. Slem searcely any, hat mumerons, predty lomg, very glemder, real bitini-





 Fluerers smath, rad, Lerqumes libureobloigg, romul, spriukled with a few short hairs, containing from two to fone serch.
10. 1. firatrons. Willd. iii. 1231. Relz. Ohs, is. 29.

Suffutiense. Le-twes from tornate, to pinmate: leatlets oval. Slipules lanceolate, hairy.
 Eceaterl.
(")luten silicpuss. Pluk. L/m. ל. 166. f. 1. goort.

1. alahmer. Whll. iii. 1233.

 pules, petioles, ame mader sicte of the leares, where a little is to be tomud, partientarly while yomus.

I mative of' ('ormandal; where, like the rest of the genus, it flowers in the rains and cool seasion.
11. I. Hracciutu. Nön. Ms.s.



Slem whaty, wati, supporther itselt on hushes. Branchess mone so, smootl; the young
 two inches homg. Lecuff/s from two to there pair with :un odd omes, cunat, wal, amooth, tri-

 smonth, many-floweret. Floner pretty hatere, wh. Braches single, sublate, me-flowed. Le-

12. I. enne"phtulla. H'illd. iii. 1229.
 smooth. Spikelets ov:rl. sussile. Legumes oval, two-sueded.

Te ling. Chematraddan.
This heps to form one very best, and most heantiful pasture lands, where it is always fomad in phenty. It is percmand. Flowers ull the year romel.

Slem ume, but it has many, ramons, prostrate, bifitions bamehes spreatiner in erery di-
 long. Leafles.s minute, opposite, from thre to five pair, ohowath, smurth, entire, wipules samilaneedate. Spifos arillay, omb, atsile, mamy-flow red. Flovens small, of a bight red. Legumes onal, smonth, fwo-serfort, intermpted between them. Cattle eat it ervectily:
13. 1. himsuln. W"illd. iii. 1233.

Ammal, and hicmial, crect, ramons, hairy. Leares piunate; leaffets there or fonv pair, obnvate, hairy. Stipules liwear. Racemes bmger than the leaves. Legumes reflexed, lairy, tour or fire-secelcul.

T'eliag. Pemi rempali.
A Fimgallus spicatus. Burne, Zeyl. $t$. 1.4.
Kattu-tutam. Rheet, Mat. ix. 1. 30.
A native of Commandel. It flowers during the miny and cold seasons,
11. I. riscosa. ॥゙ild. iii. 123 .

Somowhat shobby, hary and ghtimus. Leares pimuato; leallets from fone to fivepaired. long-obovate. fincemes longer than the leaves. Leegumes straight, hairy, from six to cight-seeted.

Gakeral coluter. Butm. Ind. 172. Willd. iii. 1246.
Cohtuteriliquosi. Pluk. 1. 166. J. 3.
This sprecies grows on a very sandy soil. It tlowers during the wet and eold seasms.
Roob simple. Stem somewhat shrubhy, ereet, very ramons, from one to thee foet high; the gomur parts cosered with white, depressed hais, mad other stifler hairs with ghatmens, chbarged, ghathlar extromities. Leates aldurate, pimate, two or two and a hath inches long. Lereflefs firon fome to five pairs, opmosite ; wbonte entire; nhowe pretty smonth; behw hairy
 ger than the leaver, romm, like the yomg handecs. Bractes awhed, one-lowerel, Flumers rather remotr, small, mat. Lergumes liorizontal, stmight, round.
15. I, serulea. RRoxb.

 there is fonpen at at.

7-2ing ki:rm.li.

 s. - 111 .















 oft then h I T 1 Hh - dy $1+=1$,
 thr. . 11 , "t, liki. th "1. 1.. . .















 griv ma,





 t. 11





sitr Nil.
1\% \%. Nit, W Nod.
lil.1\% X
Su. ri. R. l. -1/.l. i t. it.



17.1: , !






in 1. 11, e. licuid.




 orflexed, fiom six to twolvosereded.

The sanme plant has been reared fiom American seeds sent without ananc from Philatelphiar ly William Hamiltom, Visy.
21. I. pulchella. Row .
shubbiy, erect. Fecoms pinmate; leaftels from eight to ten-pairext, obovate, Racemes


In erect. vanmont shmb.





 an inch mad a puarter long, from ten to twelve-spedel.
izi. 1. unciuala. R.
Shrublw, with far extended branches. Keaflets froin "icht to ten pain, clliptice spilaes sassilo, much biorter than the lowes, dense. Daggers ot the keel houked, amb obtusc. Zegumes




 fectly erect, five-pointed. It thowers in the rans, and the seed ripens in the exol seatson.
23. I. purpurescens. $R$.

Snb-arboroms. Barle a little scabons. Leaves pimmate. Keatels tell part, from oval to
 lengeth of the lenves.

I mative of the interion of the peninsula of India. In the Botanic graden it has in two

 being large, very mamerons, mat of a bright rose-colonl changing to lively pmple. Seed ripens in May.
21. I. virgala. R.

Shublyy. Lemwes pimate; leaflels as far as twelve pair, sub-alturnate or opposite linear obiongr. Racemes the leneth of the lestres.

A mitive of Nopal. In the Botanic garden at Citcutta it Howers dnring the hot seasou, Murch, April and Disy.

## 

Calyr with subulate toreth, we arly equat. Legume with ohlique streah. betw wen the ar eds. 1. (8. spinowe. Milld. iii. $1: 250$.



Teling. Minl木 - : ant judli.
A suntl ranoms - feci - a antive of dey harren lands on the watst of Conommadel.
2. (i. pe ala! higha. liovb.











3. (i. IIryne swat. liostl $^{2}$.

 की rultht, 1 !ntona, viluts.











 sic.l.it.

1. (t. cerval. R juch.

 Lu:ry.

## - Imtive uf Mysore.











 gTV:

Comalla R.9.latica. Bu \%. Zonl. 7s. . 3.3.

111.

345
111.
III.
$3 \times 6$

6. 1i. prequrea. Willit. iii. 1217.




A mutive of the saty lande of the coavt of (' ro mandel, aud in bhe sam men part of the year.
7. (i. lienmespfuliq. Poxt,









Fife



 ratia, allul cool vetisul).
3. (i difficsw. II.

 1y sumoth, fionn aix to mevern-serelad.



A. I tulosus. HFilds. iii. 1279.
 underint atts.

A native of P'ersian flemoring in the cold seasen in the Botanic garden.

## 



III.






A. (i. finclutias. Villd. iii. 1218.




Benq. Hathere ll.


$\because$ U. vhorciée. Rosth.
Shrnhhy. Tremes ternate: Tealle whovato, villous undmeath. Flumers laterald, bomer-preli-
 duwlyy.
i native of the combtry about Hurdwar, where C'mptain Hadwickis fomat it in flower and secul in April.

## 



1. '1. Jndicum. Il illd. iii. laj33.



Jseny. Bmamethore.
sucodadi-pullu. Rheed. J/al. is. 1 dt.



2. 'T. uff imale. 11 iils iii. 133 s ..



Welibutns lutea. de. Dluk. Slm, t. 1\%.f. \&
Jient. Bun-piriner.
A rative of Bengil, imt, with the last, mprears during the dry sosoon ouly.

## 



## 







Arab. Hnblels.
?i. 9. Ihlites

I- wheh ent itat in mans par of India, pmaculaty in the highes, inland provinces.



sa= Imuli ihat.


## 







## CLASS XVIII.

## 

## 

 Briy mu! + 114.

1. $\because$ riota. $I$.




lind $1.1,{ }^{1} 1$.





























 prile. al 1 wil.







 sipill! suret.
2. C. medica. Willd. iii. 1126.

Pelioles lincar ; leares wate, neuminute.
Berig. Lemoo or Nemoo.
Latucil trer.
On the continent of Ludia, it, is finm in garkens, where it blossons inost plentifully duriner the hot seran, mond the finit riperns about the clesis of the rains.


 the Botanic garden remed above twelve months aro, from seed fom the Garow hills where they are fommentingenus in the forests
3. ('. Aurantiun. H'illd. iii. 1 \&7.

Peliohes winged. leanes acuminate.
Sthas, N:
Arob N. Numi.
Beng. Kumlat-14 boro.
Himet. Narenj, Namapee; of the uramge like the lime, we have many varioties to the enstwind of the ('ape of (iond Hopre. (fore liamph. Ilerb. Amb. vol. ii.) but as they dor not thrive in :uny part where 1 have yet leen stationed, 1 cumot well enter into any satisfactory accomet of them.
J. C. drewmank, Mrilld. iii. 1128.

Pretiotes wingerl. Lerares ulbture, emarginate.
B3eng. and Hind. Batavi-Nelno.
Limo Decmumans. R'umph. Amh, ii. 9f. t. 21. f. á.
Of this oldemat usefal trees. the shadeock, we have foro varieties, one with white, and the other with red pulp, dillewins in size and prality, arecordine to the soil, rlimute, and situattion. On the contincont of India on far at i know; we have the tree in onv gratens only ; tho Bengalee nane, viz. Bulavia lime, denotes its heing an exotic hore.
5. C. inermis. Roxt,

Shubhy. umamed. Petioles maked; lemess hamenor, searecty cremulate, obtuse.
Chin. Kimm-!nat.
Limoncllhs Madurensis. Rumph. Amb, ii. 110. /. 31.
A simall, shanhly sereces ; from China it has been introdaced into the Botanie garden, where it bonssmms in April.

Stem seately any, but numernes, marmed, very manons, smoth branches sprembing






391 from one to three ovnlat in each, attuched to the axis. Style the Ienerth of the stamina. Sligma large and clammy.

# POLYADELPHLA POLYANDRLA. 

## MELALEUCA. Limn. Gorrl. Smith: se.

Calyx five-parted, semi-superior. Comel five-ptalled. Staminat abont fortr-five, very long, comijined in five hodies. Style single. Cupsules three-edled. Steels mumerous.

 nerved. Spikes terminal and axillary. comose. villons. Bracles. humeedate, three- itowered.
 f. 1 .
'This clegant, usefinl, small tree is a mative of the hlohera I-lands; mad as it is from its leaves that the volnable mediome called rajupuli cil is ohtained, it beenur an object of importance to try if it wonth grow in Bencal, where the modicime is frequently nsed with the
 Dr. Jolm Fleming had charge of the Botanic garden; at the same time Jr. Smith, the mur-

 Mr. Smith strict orders to be rery earefinl to get the proper sort, two (ar thee heing mentioncal her Rmphins, from which the lest oil was obtained. This combusion Mr. S. executed to our sitisfaction, many thiving plant, having hem sinf to the garden lye chase of the year, where they continne to grow freely, and in six and sevent veans they began for bhassom

[^26]at varions time of the yar, which they have hitherth contime it do, and to ripen their





 lamina perts off from time to time in thin Hithes, lik: that of the hively trate: thel the intergor
























 phant-

 Mally wital ithe tres.






















As there are (wo tigure in the litu telte of limuphins, Ior. I'owell should tare-pecified which of the tho is momit. hat lhat it for urantal that it is the lot.


Atir alit. Runpthe ith. ii. 1. 1 ti .






 whil in (! jupatithey ar- - ricons.
 iii. 1123.

## Page

 Curey EidBranchlets erect. Lermes alternate, lancenlar, fivenerved. Spites terminal, downy. Fhwers tern.
4. V. Lemothemdion. 13. Linn, Suppl. 312.

 frimgratice.








 ane simple. Capsules him in the embonlar culla, which it adomes io, three-celled, three-valve

5. M. rimita. Rowh.
 less, but mighty striated, pibis panichat. Fiomers tom.

A mative of the Holmera Lshats So what si\%, it grows I emmot sary.





 manch longer than the (oneh, mite at the base int, five bodies. Germ smooth. Style rather shorter than the stamens. stiyn mimple.

## DCRIO. S•施配. gen. N. 1221.

Caly.e wiblous, five-tuathed. Corol fixe or six-petalled. Stamina in five bedies. Style single. Pome superior, tiverollad.

Durio. Rmmpl. Amb. i. t. 2!).
A mative of the Mahay lalauls. 'The the thy aril whele envelopes the sen dut this larce frut, like that of the Jack, is the part eaten; bat not so unipersally admired, for its strong, loy some thought very uthensive, smell.

## MYPERTCUM. Solvel. gen, N. 12.2t.

$$
\text { Asiat. Res. vi. p. } 360
$$

 sent by Captain Mardwinke, w the Botanie garden in 17!7, where it hastmus during the eok season. It resemble, in many re
 dividing into numerons lome. sle nder, romad, sumoth. "olomped, drouping twirs. Brath brown, and smooth, hoisht of the whole plant ahont there feet, and still more in timatere. Lercees
 revolute, smooth, of a lively uran on loth sides, fom one to two inches long. Foreces ler-



 into five horlies, fust at the lase only, and about half the lenuth of the petals. Germ owate. Styles five, the length of the stamens.

This is su hearly allied to the plant I have taken fin II. monogymen, No. 977, that I
 minit athe styles. In momogymm there ne about fity of the former only, and miturmly a single style with a five-cleft apex.
2. H. monom!mem. Wille. iii. I4!e.

Shmbly. Leates weswile, linarmblong. Corymbs terminal. Stamina the length of the
II. aureum. Lumiei. Cochin Ch. 578.

Chin. Feemsee fur-taing.

 Chima. In tlower and seed great part of tho jear.







 Aeceds many．

# CLASS XIX． SY「GENESU HEOUいん 

## 





$l:=$ ， $1321 . j$ 明．
ll 7．．．！ 1 if．
 of $1 / \mathrm{m}$ 机 -1 ．





 mimine

｜1 जै．

III． 111：3







 s 1112 l 1

$$
\text { r..1r97! } \because!+1 \text { y } y=1 \text { 12:i4. }
$$

Calye imbrientat，？？





















2．I＇．prom 广，届A lioxi）．



Pago

A native of lenggal. It Howers dariug the hat senson.








 to thirty. P'a, phes simple, and ar-sile.


Beaty. Tink chama.

 romandicl coset.





1. I' racmonsa. Ruath.
 in fiscicles. Penturles, and pmiaels smenth.

A matibe of the coant of Command, where it fimmd daring the dry semson, om romd sites, amel antmir mblinta.


 joints of the racemes only. Cotyx calyeded. eylindrice, scales of the tube abont riflt, these
 and it is replete with the eame kind of milky, juicer, common to theat pants.

## 

Receptarle naked. Caly.x subberlindric, imbricatod; scales puinted, but wot hooked uor spinons. Proppins latiry.

1. A. anthelarintier. $R$.

Ammal. Leones broml-laneolar, semate. Fowers torminal, calyx suarrose. Pappus of hairy hrintles.

Yerumia onthelmintiea. IFilld. iii. $16 i 31$.
Cothowhimgni. Rheed. Mal, ii. $t .21$.
Siens. -otruail.
Beene. Som raj.
Comiga antholmintica. Limn.
Teling. Shandoro-gella-kmra.
1s a pretty larere, creet, manal sperics, common on high drs mucultisated ground. and






 hairy soft hather. Receplucte maket.
2. S. cinmert. Roart.

Erect, ammal. Lares nltemate, orate-corlate, cremate, rurrose. Flomers terminal, somewhat fastighate: poppus h:cise.
(onyzai rimeren. IHTlld. iii. 1925.
Berig. Kiauksetm.
'This plant is che of' the most common in every part of India ; every soil and situation suits it, and it is in Hower at all thate of the years.

Root ramons, ammal. Stem erect, rameine romul, a little downy and finely furmwed.



 laziry.

The flome being comstantly uniform, and all hemothluodite, induce me to consider it a Servatula yather than a ('onyz=t.
 are smontlo, and only abmi halt the mmber of wiss in the palpus.
3. S. radhemmites. Buch.

Anumin, erect, simple. Leaves sub-sossile, (not deenrent.) pimatifid, serrate, hoing un-

## spilatithes．











ralys ovate，imbricated with thorny scales．of eplache hairy． 1．（＇．rabusus．Rort．


 the cold sithom．



 orect，lo rrdent at the r tan．
















## 














froth．Iliwhent：
flind．Km＿氏n．






B．日！K Vobalm．
 dera，but fine the oit oft：imull lin the wed



Pare

## E!jlul.


Trlin!. Jinaltal-lisal
Verbivillit Amtiler. Vimn sp. ii. 127.









 formed.
2. ふ. olerower. Hilld. iii. 1\%15.
III.

$$
\text { ElULINS. Schurle yen. N. } 1: 67 \text {. }
$$




## 1. II. trifida. Bucto.












 ओェ.


 seven to nine simple, clavate, cilints leatleta, from iwn to form nenter lisnlate flotets in the


A mative of 13 engal. It flowers inving- the matyy and cond emants.

> CACALI.L. Srlwele gen. I. 12199.

Receptacte naked. Pappus hairy. Culy, eylindric. whon!e, at the base only sub-cal yelert. 1. (1. birolor. R.








 lomg, onu-flowered, with mimy sul)-lameedate ceale. (uly, calyeded.

This phant is himhly whamental when well expend in thie sme, the leares are then of a

2. ( 1 . verlimita. Ricorl).
 Flowers terminal. ('uly.e and colyche of ahout cigint leatlets catch, and with abont twenty flerets.



 tham the ciliga. Coiol ; flodels abont twenty.
3. ('. surch for Wr. Willt. ii. 17:31.


JBrato. Il mali
 $8(a-111$.





## 

## Recruia le urlied <br> 

F.irn 1. R .ild.
 form.
 Will. 1 ( ares. 11 is it it th co is in








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1 1\%. do !man $\beta$.


 141, vit liv.




















 flol 1 l.
 $d \mathrm{y}=1 \mathrm{~m}$.

## 

 el 1

1. 2. retill $l_{1} \mathrm{rm}$

li. 1. (1) is
 (1)





 partial ealys of the orders foluyamia segrequta．Receplacle makeal，homiopheric：

2．1．＂quatirum．liorrt）．
 twire the lemeth af the flowe ts．

Braty．Berare lis：attere．
A native of the horders of rivalets amome the Civear momatains．Flaworine tinue the cold－atam．






 naked．

Fole．By the stamente of the stignms，they being when full grown，tar above the an－
 1 embld wherwe elemy that the ththers are ripe atm lomet while the wigmatare of ath equal

 of plants which at least loblps to invalidate one of the ohd ami－sisualists＇urgments．

ITILANASTA．Selich．ger．N．12T9．
Caly．x imbricatorl．Pappus：chatly，very shont．Rereptucle chatly．
1．A．Inlica．Ro． $1 \%$ ．
 compund，tominal．Nigmas hid within the stamens．

Teling．Begati－kumba．
Welights in high lame that have heon lately in cultivation ；in such sitnation it is not nucommon to see whole folde of it as thick as if they were－own hy a careful famer．



 taclo linear lanceolate．

## SYAGENESIA SUPERFLUA．

## AKTLMISIA，Scherb，y（n，N．12s1．

Receptacle sub）－villons，we nearly maked．Puppus none．Calys imhtieated with romuded， converring scoles．Florels of the ray nome．

1．A．Voluctama．$R$ ．
 ed，drophing．Femme flomets trom sis to cieght in the circomference，two or three－twothed， with abont as many tiveronthed hermaphodites in the centre．
 and droopines elerantly，with mumerons minnte Howers，peintiner directly to the earth．Somes of the calyx romedish，membramaceons and smooth；the receplacle of the thorets convex and naked．

2．A．pruiculata．Roxh．




The mative phace of this phant I camot well aseretain．It was int rocheen into the Butanie garien from the interior parts of Bengal，and in there years it has only attaned to the height of one or two feet，and is a very slemeler，sub－erect，flacedil，thinly bramelhed，muder slirub． Flowering time liebunry：

Leares alternate petioled，from simple to pimate，and bipinnatifid，heing les divided towards the top，till they become simple amongst the flowers．Leaflels linear，often pimati－ fid，or trothed，somewhit homy，as are also the voung shoots．Paniele terminal，componsel of shomder，alternate，subberect，leafy racemes．Flowers mumerons，erect，small，sub－ghoblar， yellow，genmally om，maly two or thece onslender，filitom，axillary pedivels．Calyar ；leatlets unegmal，obloug，concave，villons．Corollets twenty or more；ahont half lomaphrotite in the
 the hermbiphodite ones the segments are remered；in the female ones incurved．Stigmas very large，somewhat laciniate，and trmeated．Receptarle conical，naked．
＇Ihe smell of the plant is somewhat like that of southern－uood，but less powerful．
3．A．Imlich．W＇ille．iii． 18 ：f6．
Herhucens，erect．leares pinnatitid，villons undermentlo．Paniches terminal，fluwers dronp－ ing，female flurets ten，oblignely trmented，the hermaphrodite oues ten，with gibloms tuhoos；

Hind．（imed－mar．
Brieg．Domia．

## Pers．．Irlcuassma

In eonmbun in the sardens of the Hindoos thronglont ludia．Floweringe time the cold sеахин．







 ell，（0）


 in their relierima ce roltonnir－．



 in thamemontrieas．

1．1．rul： 1 is Hillal，iii．1415．



 lusing th dry＝m．
i．A．fert rra．Rise




 the lant Iluas a in Mav．







 inselormin．
（i．．I．rley sas．K rb．











 W上．


 witu the wistht Lwrondett，atme madeste．









I uative of Nepal, from thenew int rowneed lyy Dr. Buchoman into this garden, whew the plants thrise well and blewam in March mul $A$ pinil.








8. 1. medreaspelana. H"illd.
dmutal, procmubnent. leares sessile, pinnatitid, downy; perlancles one-flowered. Female Rorets theree-motheel.

 seasim.
 have a smath, ciliate, camplanifurn crown.
A. 1. hempisphtrimed. If.

 matied.











11. A. sternutatorice. If.





 and is the smallest of the ferm, I have ret met with in ludia,




 and the forthlett inemwed. Reerytarele maked.

 successfnlly uyself:

## 

 ed, semilued monmed.

1. (i. strichem. Roxh.

Nem straighlu, mmanl. Teares altomate, sesulh, linear, wealge-shaped, downy. Spikes compomb, sul-paniched. F/orets yllw, with white woolly cally.

A small, anmal peches, growing in dry shady phese iming the cold seasom, whe water has atomb duriner the rains.

Stem straicht, in a faromable soil. banchy, roumb, eovered with soft, whitish down, whate



425 2. (i. u'i.xemsis. Ro.rl).
Ammal. ©rel, simple, Leares sessile, linear, welsu-shaped, downy. Flowers in sessile and pulmeled hads. Florefs sellow, with woully calys.
3. C. mullicanle. Willd. Esp, Pl iii. ISsss.

Is a mative of sumbur paces with the lomer, alsommand, and flowers durime the same keasoll.

Stem amd leates like thasio of 1 . strichum. Flome ess alsin similar, hat collected in several, sunall, terminal mombellets, or lacads, which is the only sipectice difference.

1. (i. depressum. Roub.


 sthatiflo.








I native of Bh at an, and the babk of river, ioning from that country. Flowering time










## 

 . Il throwelett.

1 (2. cury h) ser. $R$.





































 (स)





Be y 1Brath, 14...


Pago ing luring the mold memon.
Nom ered, branly. paticularly near the mombl. Leaves the lower, or rather the prin-
 smaller ; all art harp-toothed, pate gren, downy, varions in size. Uimbellets terminal, and from the exterion anills permeled. Flomers a dall yedlow:

P'he whole phe has a portty stroug smell of turquatine.

Ammal, emed, ramons, expert with flutinoms down. Sfares ubloug, somewhat lyed,

'Jhis apreces is also mamal, a mative of the sime places with the former, flowering in the Enlle widtoll
 the inforior ones laryc, putioled, ov:al, slight! lyme ; fle superior unes small, linear, ses-ile,




 I camat learn that they have wom bemploged for any mse. Catle merer taste cither of them.
7. C . बiffiuser. R.



A nation of Bengal, where it appeats during the dry masou.
8. ( $\because$ fistulown. Ruser\%.

Aumal, erect, fistuluse, downy, Lerer:s sulb-sessile, lanecolate, sinuon-toothed. Spikes suld-verticelled.

Ammal, a mative of dy groum near the momanoms parts of the coast. It flowers dinine the cold swath.

 gularly toothel ; size varions. Spikes terminal, sub-verticelled, long, wrect. Flowers numerons, pretty larger, prophemly yhow. Femate florets mumerous, minute, three-toothed. Hermapherarlite wenty in the centre.
!. C. unguskfolize. Rioxth.
Anual, "met. Leares smike linear, cutim, downy, Pancles terminal; flowers mnst


This phant is anmal, and I have only met with it in the 'ompuny's botanic garten; it does not appeat to be a matise of Bengal. I sather shopect the seed to have been acedentally bromertin hoses of earth, with other plants fiom the Indimans.
 cighten inches of the top, where there are sectat, forming a hare wal paticle, the whele

 tinearly-chavate, and covered with shomt hairs; sime very vorions. In the axills there are al-
 the whole top, or ramons part of the phat firm- a simere, latere, ditituse one, of an oval form.



It is from a phant of this emms, or a Bucthetis, Dr. Buchantm informed me that the natives of the Indanan lalands make their twine for fisheng lines; and ats the bank of this is stronge aml perels off in lomestripere it may be the satue.
10. C. Lifulinta. Willel. iii. 1920.
 are servated, dentate, and downy: Pedunctes long, one-Howerd, often with one or more leaflike browtes thent the middle.

Au mmala, anative of diy land, about heelges and rom sides. It flowers during the cold seasoll.

Slems or branches several, ascending. firm ninc to twentr-font incles high, rombd, downy.
 oblong, downy, scratc, seratures achte. Flomers many, terminal, long-pedmeled, yellow:
 mucertain, hat gencrally more than two. Seceles of the calyx linear, hairy.
11. ( $:$ pintulifitia. Buch.

Shrubly, erect. leares fom pinuatifid, and bipinuatifid on the stem, to linear, and nearly simple, amonges the flowers, suft and villous. Corymbs terminal, compomed. Flomers onal, wifh about dive hermaphrodite florets in the centre, and many fomale ones in the ray, ull tiertile.

## A native of तitelal. It fowers in the cold season in the Botanie garden.

12. ('. alata. R.

Shonhby ; ramitications munerons and winged. Leaves linear-lanceolate, entire, decurrent. Peduretes teminm, becominer axillary, often winged, and theu with a leaf near the sulitury Hower. C'ilycine leaflets subulate, the exterior ones recurved,
13. ('. .epiazda. $R$.













 of simple white he irs. Re, terb tht, witush.


 ill the ras.

1.) (. lat - /e, 2 .






## 

 F. Ctioll x. línb.










 the diah mal, of the ret firmato.

4 1/, teeran I. $R$.



A native of the Mnine:a Wlatul:

## 

liemptarle mah.al. Pappue -implo. Flor ts of the ray ligulate and more than ten. Calyx imbrimal ; hower walk apt alins.

1. 2. '1 icensis. II lle. iii. $\geq 134$

Aumal, hatry, leares anhomal, dopply arrate, or gashoud, and ciliato with winged, stem-


1. "hempu" lii filio, fie. 1, If: th. 1, 31. f. 3s.


2. A. frian rmer, Ruorb.
 thin.





1）．icaliaratuin．Re


Itulis Indicts．H＇illd．iii．2003：．
Teling．l＇alernopuo．
An ammal，growing mader the shade of trees，on an uncnltivated diry soit．It flowers during the coble scason．


 the fissures of the month of the tulse there stande is filifmom reemereal spur＂ppeste th the
 of the hermaphodites hairy，and crowned with hainy pappus．Recephacte romsex，nabid．
T.1CETLC', Schrib. gen. N. 1802.

Reroptacle naked．Pappes of five，erect awns．Calyx me－leaved，firotuothed．Flurets of the ray form or five，permanath．

1．＇T．paluta．Willu．iii． 21 处．
Anmat，ramonts．spreating．Leares lanceolate，ciliate－serrate．
I＇tres．Cinol Juficee．

Berg．（x̌－ula．
2．＇T＇．crecta．Willd．iii． 2127.
 Beng．（iemeta．
If origimally from Mexied，like Tobucen，they havis now become denifente of the East， and considered is imdigenous，particulaty in Persia and Clian．＇They bosiom during the coolest season in the Butauie gradern at Calent ta．

## ZINNT．1．Scherb．gen．N． 1804.

Receptacle chnify，Pappus of two straight awns，Culyx sulb－ovate，imbricate．
Z．lidens．Retz．Oles．v．28．
Leaves pinmatitid．Flowers pehnoled．hemmphrodite；florets four－clett．
Is a mare plant on the const of（＇momandrl， 1 have only fomd it amoment the＂irear monntains chaing the rainy onn－on，whern it thowers．

Root wooly，percmini．Stom erect，fregulutly ramons，and from six to dirlitectu inchess high．Leaves ralian，many，petioled，pimatitid，smoxth；dirisions limatr．thate at the it m sub－sessile．otherwise they are like thase of the root．Flomers a fow．tominat，perdmelat，
 from seven to twidse，foumechefl．Frmale flurets of the rety fronn tive to tan．stamens fons． Seeds，those of the ray shontest，all compressel，strinted，int two－lamed；horns straizht， divariente，acente，armed with short，still harss pointine backwards，ly the t tey athere riadi－ ly to whatever touches them．
 I know to be this phut，is I was with kimig when he first discoveren and decribeed it，fore Verbesina Boswellia，a very ramons，cespitose phant；whereat this is rigidly erect．

## CIThYSANTHEMUM．Schreb．grn．N．180t．

Receptacle nakal．Pappus none．Calyx hemispherical，imbriatated；tha marciual scales membranacerons．

1．C．Iudicum．Willd．iii．2117．
Diftuee，permmal．Cfares varionsly divided．All the flomets lignlate．
T＇sjetti pu．Rhed．Mal．．．I． 11.
Whatricaria＇himemsis．liamphe Ambe v．t．91．f．1．bad．
Teliug．Chammeti．
Common in grardens all over Iudia，where one name，Gool－daoodi of the Hindnos，serves Fr atl the variefies．Flowering time the cold season．

2．C．cuneatum．$R$ ．
Penumial，diflise，or creping．Leares sessile．wedge－shaped，decply sorvate，or gashetl 1．mil the imterion margins．Flowers solitary，whitish；scales of the culys cuneate，and $\therefore 17$ ．

A native of the Moluceas．
PYRETHRUM．Schucb．
Receplacle naked．Pappus emarginate．Caly．x hemispheric，imbrieate．Seales rather acnte， तith scations margins．

1：．Indicuma．IS．
Ammil，wett，ramous，prlancons，Leaves stem－clasping，pimmtitid．Bromehes one－fowered； flo－is jollow，sometimes rudiate．












## 

 11. sutroles. $\mid{ }^{\prime}$ ill 1 ii . 21 lil .
 caplizt c-nic-l.
 EMrilell.

## COTlLLA. sioterh. gた. N $1: 311$.

Pecoptarle ulunat nalsel. P ppese marginate. Floifis of the diok four-cle it ; of the ray. searerly Aly.
$\because$ steit ifol \% Bu-h.












## 

 of the 1.1! liomate atal ligul it.

1: pr trals. 71 ill, iii. -2.218 .



if \%. Ii w!i. or he. - +1ril.









1. 太. or , t ii . II / le iii, 2:2l!.

 ond-llus, rel.

1 matise of the Malnce:a


2. S. Brok hiat e. Roplo.


 - 1) 1 - 1 - 111 .





 five of which staml in the disk; the other tive stame alternate with the tive fomale florets in tha my:

There is an other interion entys than the obtuse, Pat-like chat of the receptarde; their
 bide with hairs, each emding in a green elutinoms bulls.

## 

Receptache chatiy. Pappms awned, or nome. Caly.r simple, or in a domble order.

Percmial, creppint. Lenres oppsita luond-lanceolate, serrate, Petwetes very long, oneflowered. Culy.r tivelabed. Pemete Horcts weven.

Beng. lhugra.
Peramimi. Rhed. Mialo x. t. 12.

firows anomest bnshes or wet lands near Culentta. Flowering durine the rains.

 remotely serrato, on both silk sceathe...d with shat, stiff, white hais ionine from dark green

 Ifermaphodite plarefs from twenty to hin'ty. Female ones tiom won to tifte ent, with their apices thren-touthed. Seeds magnar, erownel with n varionsly divided enonct. Receptacles convex, chafty ; cheff laticeolate.

Tho plant is soid of smell, lut has a slight terelninthemaeons thste.
2. VF. Liftorn. IFilld. iii. 22e26.

Erect, ammal. Lerwes opposite, petioncol, ovate-lanceolate, serrate. Florers terminal, threctold; the midethe one oftern semsile. Catyr many-leaved.

Vallia-manga-mari. Rheed, 1lat. x. I. (i).
A nitice of varions parts of India. It flowers in the cold season.
3. V. scomidens. Romed.
limumial, wamdent. Leares opmositn, petioled, modate, sermate, three-nerved. Flowers terminal, tom, and solitary. Cidy.v double. Fomale florets eight.

Bens. Bim-1aj.
Is peremial, a native of hedges, uncultivated places, dee albout Calcutta. It flowers during the rany and cold seasulns.

Sirm longr, chagrling, on climbing, often as thiek as the little finger, smonth. Branches
 a little hairy, purtioulaly the nerves, from two to tone inche long. Petioles chamellerl, half the length of the leates. Peduncles terminal. gencratly there-fokd, erect, the lateral ones thereflowded. white, that of the contre has only one. Fioneres protty later, of a hright whow.
 or theretonthed. Seeds imrbinate, angular, sabrons. Receptacle elafly, a littie convex; the chatf wedge-finmed, concave, hairy:

This. plant, like the last, has mo smell; but tastes slightly terebintlaceous.

1. 2. satim. Mord.

A mual, erect. hispid. Leares npposite, stem-elasping, eordate-linceolate, sermate. Flowers temimal, lons-pedmeled, two or three-fold.

Kimameo of the inhabitants of the Slyone country, where the phant is cultivated in the fieds for its seed, from which am oil is expressed, and used as a substitute for the common sesamm oil. It is abo cultivated in the viconity of Nappore, and in varions other parts of India, for the same purpose. In 1 Roo. the seed were received into the botanic garden from 11. Colebroke, Was, the resident at the Court of the Berar Raja, and from Mr. Neyne at Jamgatore.

The usinal season for cultivating this plant, is during the eonl mouths, between October and Marels.

Stem mmmal, ereet, romml, harsh, with white, slender, curved bristles, Branches opposite, expamting ; the hejichit of the whole plant, in a geond soil, about there feet; the parts exposed to the smu tinged with purple. Leares opposite. stem-chaping, linem-lanceolate, with cordate, almost perfoliate based, remotely serrate, somewhat harsh but not so much in as tho sten and branches; from four to sis inches lomg, and from one to two broal at the hase. Pee duncles terminal, gencrally two or three together, though sometintes solitary, one-flowered, rombl, hairy; fiom thee to six inches long. Floweres large, hemitiful, of a bright lively yellow, inodorons. Culy.r eommon, simple, five leaved; iceflets ovate, villous. IIemaplirodite florets mmerons in the centre, five-toothed. Female florets about cight or ten in the circumference, hroad tongeneshaped, threer-toothed. Seeds of both the hamaphrodite and tomale flo-ret-smonth, dank, of a blachish bown colom, nemely fom-sided, with the angles rommbed and tapering to the lase. Reeppiacle ennvex, chatly. Chreff eoncuve, oue to each floret embaciug the exterior side of the seed. Those of the female florets larger.

## 1:tephant yizs.

5. 6. Sat nit. 1\%. \%ryl 310.
 three-herven, morate, hairy. is ds of the tisk two-homed, thene of the ray fhree.

Larenti eret . II illid. iii. $1 / 21$.
1'H-Umba, Rheed. Mal, x. 1. 6:3. a bai tirure, amk that of Burmon's Zeyl. 1. 12. is still wons.
 dowers muct part of the besir.







 tbree os four-tenthat.

This hav a frimt, I lea-ant, momatic smell.
t. V. Bum li r Hi l. iii. $\geq 25$.

 searim.


 piunate.

## SYNGENESIA FRUSTR.INEA.

## 





Pies. (imentiolth.







 native of lermo.
















## SLNGETESLA SEGREG. OTA.

## 

Parting parianth fim-1l wered. Florets tubalar, hermaphrotit: lieceplacle nakal. I'apghes hrit!

Fi sealure. Hilld. iii. 234!.
 2e-ile, I wuluere there-histul, in wy - thenered.

An' sidhevadi. Pherel. Mhet. X. p. 13. 1. 7.
Berng. К: :amhtulhum.
I mation of the wamer parts of latia, Achighting in a dry elemad soil ; flowering time thre eold swasom.





 rollets. I'rinnth, perliol, many-leavenl, fin-ilowered. Florels thbular; the hermapherodite ontes pale red. P'uppus of five hatiry bristhe.

## 



1. s. mullis, $R$.
 tinons. Pedunctos ats hans as the leaves; sceles of the perionth lanccolate, and ciliate. Femate thocels tilitum.

Adara-magnal. Rheral. Mal. x. 1. 13.
An ammal, in mative of dry han that has been lately in cultivation. It fowers duriug ther cold s.atsom.


 vered on both side with solt, shatimons down. Flomens sulitary, hafeppomed, or temume
 Caly, e, prianthiun, commun scarcely my ; patial one many-lewed; leaflels lincar-lanceolate, and ciliats.

This phat is remarkably lratsant; it certainly might be appliel to valuable purposes iu medicine.
$\because . \therefore$ Iulicus. If illd. iii. 23391.
Ammal, winsd. L* (ares lancewlate, decmrent, serrate, villons. Pedruches short, winged;


I mative of Bengal, wher it thwen's in the coll stand 'This species is pritecty ino. dorous, whereas $s$. molliv is very fratiant.

## ECIINOIS. Sched. gen. N. 1353 .

Paitial perianth one-flowemed. Florets tubuhn, hemaphrodite. Receplacle bristly. Pap. pins whecture:
E. echinatus. Restb.

Ambal. rammens, *meating. Meads ghbular, spinons. Partial perianth donble; * the exterion ome imbreated, many-leawed; the interior onc-leavel, treecheft.

A native of Alyone from thence lre Buchanam sont the sead to the IBotanice crarden at
 scenson in Fednury and Marels.



 of thwor's terminal, onlitary, sfohalar, white. Chamon perianth of sereral, totally reflexd,

 one of the acales culing in a lung, staight, simple spine. which projects a little heyont the

 enclosed in the thbe of the inner proper perianth. Receptacte globuhr, naked.

## CESUI.I. $R$.

Caly. $x$ common, many-leaved. Partial perianth one-lenved, one-flowered. Florels tubular, hermaphrorlite. Receplade nalical. Pappues none.
C. arillaris. H-illd. iii. lọg. Coroir. pl. 1. N. !3.

Aumual, creeping nemr the base. Leaves alternate, humeolate, serrato. Flowers axillary, scssile.

A native of moist places. It flowers during the wet season.
Stoms ammal, tow: meds the hase creping, and branchy, above erect, round, smoth, the

* I maty sily triple, if the large quatity of long white hair which surrounds the many leared, im. - bricated vie, can leo no cilled.










 K゙が。


## HJN゙T心IA．Ji





11．remer lir rh．
Her．H．Hitust－t．














 til．Ithent．

## CLASS XX

## 

## 




















（3） $11, \ldots, \ldots l$ ．








Prge













 lonir, taperpnillat.

## 4. (). ииiploru. R.


 one-fowervel.
 tember. Tho whole plant se: rely rises to sis inture.

## 




1 . suleceter. $n$.



Berg. 大hwed hexilec.









 two incurved, thely lobey.

## 

Coral fire-petalled, spreating. Lif withont lome. Awther operculatio, pirsistmat. Pollens gramulate.

1. E. Julianar. $\mathrm{h}^{2} \boldsymbol{H}_{2}$ b.

 entire. Copsules six-wimbol.

 or two :1ferware 。

Mout sinme, biomiah, rommh, solid chere mbers or halls. the size of athert, with hero






 into a tube romad the colnum; fanima 1 hombitorn, contire, expandiner, rather lomerer than the
 pink motled with himht red. (ferm oblongs, six-ribhed. Cohmme (style) as lung as the faleate wine of the lip. Liel, pullon and stigma at in the wemes.


 of the whole, :Hml crentate. C'rpsuless wral, six-wincrel.
 A pril, the drvest aml hottest montlo of the sear, at which period the phats are dertutn of leaves, hut they appear in May wh a the fowers hater withered.

Root, a single, white, sub-pullucid tuber, wactly like that of the former, (A. jutianct bnt









 grimul．（o on $n$ is the the firmbini．










 ，




 incin ．．





1 r．$=$ ．
 th．1 1．

1 mat．it in 11








1．1．$\rightleftharpoons \nVdash$





## M．IL．LXIS．※note．


1 if 个月名
 Fi．











 Censene

 t．．．．．

## (') MliIfllldM. Sururt.




1. ('. amultite. R.

 with IWu I wisted recurved filann.ut. trum it. apex.

E'pieloulrum usuabile. II: illel

 den in 17 (18, where it bloss.mas in 月atele and April.

III.
 two lyate tembril-lihe filathents foum it- apca.

ㄹ. C. aloifoliom. Willd. is. Hnl.


 blus:um in dinil.
3. ('. pendultm. II ill!. iv. I0)].



A natise of the forests whith coser the (irear anmatrins ats well as of Bengal. Flowning time the hat serison.

Rout of many tle ily fibres, which allure to the ln ark of the parent trer, stembes. Lemees radical, from thre th five, alternate hitimion-, de: as in the fwo formep speries, only hare



 vclow. Lif throppraterl.
4. (!. irialifolium. $R$.



 somewhit ferticalled form, with immmarahle, very minnte betutitul frllow howers; the tive


§. C'. clalu.n. R.

 apeas winred; lemina two-lobed.

A middliner sized spocicc, a mative of the foreata of ('hithagrong. Flowers small, tinged with ferrurinoms red, and not very conspicuons, they alynear in $\Delta$ pril, and Myy.
(i. (E. miterinen. Roxh.

I'arasitic. stems bulbitomn, shining, with two-ptioled, lammenar, lucid lenves firon the npex of tach. Raceme axillary, the lenerth of the leaves. Petals lanceolar ; lumina theelulsed, defleretul.

A native ot the finmow hills. Whare it is fombl growing on trees, and like the erreaterat part of this ortar, blossums duriner the hotter time of the yind, viz. May.

Rout of many, lamel. pack-themd-like tilmes, by which it adheres to the purant trees.

 lung, by wne ami a hatf bruad. Facemes ond from the mex of eath hulb brtween the two

 lamina deflected, there-lobed, lower lobes lavererisin, up, mad conlmikemg the exterior lobes,
 the funt osilte, decol) yellow jullen misisses.
7. C. imbriculum. Rurb.
 Sfilies solitary, from the bosom of the leat; long-pentuncled, drooping, bifariunsly inbricated, with once flossered bractes.

Welliat Thekn-1matisitri. Rheed. Mal. xii. I. It.
A native of the forests of Chitugroner and sillet; where it is found on trees, in fluwer vluring the rains.

Root of miny, slenter, flenty fibres, which fix the bink of the pinent trees, stenas no other than a utmber of oblungs, tualy bulbs, amually protucine new oues trom thoir base,




























3. C. \% . It M . it. \%














 waw 100 .


f. 1 , ytion $, \ldots, \ldots, 1,1$.































 scoll pul．


 Yibular－sint．Ros，is．3n？．
This beantifnl phant is very common in mose parts of 1 bengel，and lomad on varions trees，thomerh chictly on the magoe．Flowering than the aniny season．




 bewtilnh How－

















13．（＇．pramarsum．II Illa．is． 103.

 glandular．erixipeal lamina．Coiknowles cytimbic．

Thatia Maravara．Rheed．ilal．xii．$t$ ．I．
Fipidendrum premonam．Corom．，in．i．1：43．
Homme growing on tree in the forests which cover the C＇ircar mountains，where it blos－ soms during the hot senson chinely．



 spike，small，variegated with real and yellow．

## LT1701OにばM．Sunrtz．

Corol fivepreathed，nipmethes；lip with hase protrotud into a horn ：lamiza spreadiug． Anlhers teminal．

## 1．L．mlicutum．Rox\}.


 cuapidate laminar．

Angrecmm terestre primum．Rumpho．Ank，vi．112．f．io．f． 1 ．
A mative of sumair：a．Flowe rimer time Joly and Incrast．


















3．L．l＇，it 11 ili．is．I－2

 E111．11－111．






bl l．I？is iri．
H．il．li r t． 1.











1．r．f

「ジにし。

 1 $<13+i^{1} r$
















if L．$l$ itif $\boldsymbol{f}$ мин．$I$ ？











7． $1, b, \cdot, \quad l$.


 furar．$r=1$ ill i thery li h．


"ape
 pandine and ynite ervern, the inmer fow athd the lip pure white.
8. 1. rectirern. 11 illd. iv. 121. ("irom. pl. 1. S. 3!).



 the raills.

















Balat pul\% Rhwel. Mal, xi. 1. B...
Malaxis mutades. If illd. iv. !!3.
It is a matise of the same places with the last. Fhowerime timu the sime.



 el. Here they are of a hombital ros colome there white. Here the lip is sharl puintert, there cirentar and evomblate.
10. It. comdidum. li.


 the hot segson. Is nemily allicit to l. rementerne.








 bicular. Liel de cillmons.

## SFRTDES. Sromiti*.

Corol fire-petallom, surendiner. Dip calearnte; laminn sarente. Anther a decidnous lid. 1. 1. guttafnm. Ro.r\%.

 sac wide, and obtla' ; čapsule trisugglan.

Bener. P'•••id:a Nmma.





 ()rchictera.






 inscrion of thr perlicel. C'orol, of calys of sivarth, five-petatled, the upper three oblong tha
witthe or intion one of thace broaler, the hwer two r-mi-cordate. Vectary, Clatethin,




 bed. onlernlled, threr-ralmet.
2. A. cornutun.
 three.ele fot tominatat hate! henen, riving tirwarland upwath.

Fomme ar ming in trees in the vicinity of lacea, mud the cantern fromtior of Bengal, in Hower in April, und swerely farmant.
 treesthey zrow om. Sioms peremual, fiften divided, dicayiur at he bate, as they shot from
















 decidad preter mee.
3. A. an य deas. Ruxb.















 the हिththe.

1. 2. ruatratan Rosb.

 beakerl. with athother on the pereturior fart near the base.

A partsitical pie ins ; intext rud hathit like premorsum, retusum, ife. bunt smaller, und the leaves more rembte from cuch other. It is a mative of the furests of sithct, where it blussome in April and !


 cha. Jip hrmizontai. ot the colme of the pethe, and abomt is leme us they, chavate ; there




 ret in the pmaterior part of the apre of the invely. Column oplporte to the stipha, covered lyy the nsinal two lohed anthor.
5. A. pallitum. R.

 maryin aner the tiema. Copmale eslindric.


Page fowers in May and Juno. It is a small specios, tho tlowers also small nud of win miform pale yellow culour.








(i. A. melfiflormm. R?




 protty larer, pink-colomed towers: A native of silht t, where it crows un trees : ad flowers during the hot sean-om.









 and twier as lung ns the petnls; lamine hort; lingriforu. Colum short. Irollen masses two nud globulur. ("ry)sules rlavate, six-ribluch.
8. A. radiat n. R.


 soms ubout the begriming of the adin.




 in the apex of the scape, rather small; prowiling cotom yollow, Peteds viry muinal: the upper threc orate, striped with puple lins and ciliatermans, that of ther apex lerger, and filiform, those three are only a liatle fongu than the colnam, the how tw, f.olente, five or six times longer than the mper then, mitel at the bate mader the lip whel they ermphety embrace and hide, they ate of an unform sellow eolow, and on accome of the treat siac, when compared to the rest of the flower, give to the whole that colone. Jip, mited to the base of the eolum by au incurvel claw, somewhat conical, but much memered, intemally cellular. Columa short, interior matrins winged. Pollen indoses two, ghomlar, covered ly it twolobed deciduous lid.

## DENDROBTTM. Sumiz.

Coroz five-petalled, erceto-pitent; the two exterior, lateral ones, nnited romad the base of the lip into a hom-like process. Liz attiched to the hase of the column. Suther a terminal, decidnons lid.

1. D. agyregatum. Roxb.

Bulbs aggregate, with a solitary, linear oblong, sinoth. cmarginate leal from the apes of ench. Seapes from the side of the bubs, drompugs, many-4hwered. Lip memiom, emarginate. Receiwed into the Isutanic samden, from Ihr Dierard; who fomed it growine on the trunk of Lagerstroemin regina in the nerthern border of Arman, and observes that it is found in the wonds always only on that tree, * It blossmas in Mareh, but produees mo limit.

Root, from the contracted base of the bullos issme many small, the hys, ramous fibere, matted together, and adhering to the tree on which the phat srow. Bellos acs rewrite; they may also be reekoned swelled stems, thomerl I would rather call them bulbs; particularly as there is an artienlation which mutes the proper pefiono to the apex of the hall, and at that place


 the eicatrices of the sheath of the petioles of the formere leaves, where some of their lougritudinal fibres also remain. Lemees a single ome, rately two foon the ape of each bulh, short-petioned, oblong, entire, cmargimate, winkes, and of a firm leathery texture, with a smouth shining

Enrface, from Pour to six incho lor and from one tri two br ath, Rac me, or seape, from the





 with the i thy of the serm. Anthers oblong, two-lobel, sud eovered with a two-lobed, lid.
※. 1). $t$ iefatb' $s$. R.
Y.raviti: Star bulhifirn, with the s.rape form the bare of the bulb, many-flowered;













$\Pi$ : $\Gamma$, will, it ore w, in trus in the forests of Chit.





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III.

ㄷ. I) vlaratum. R.
1'arasitio. Steme club-shaped; lulhes with three or fomb broad lanceolar lases fium the apex ot each. Racemes lateral; petals mearly cothal; lip worel-ahaped, mate.

Fonnd growing on trees in the forests whell ecover the firrow hills, where it is falled tiluseous. Flowniny tinn the het sman, chicely tpril.
linol embsisting of immmerable, form, fleshy, vermionlar cords, by whoh the plants adhere firmly to the parant tres. Stems num, rons. lanlbitirm, elavate, tapering into a lased, filnonts, slender pednncle, between the bulb and root, giving to the whole the nppenrance of

 of u lively sethw monne. Braches laree, oblones, membranacenns, one-flowered. Petals five, nearly ephal, oval, and oboviate. Lip the length of the protals, with the side incorved toward the baso: lamina shovel-shaped, with cerisprd marums, and the colone leeper than the rest of the eorol. Genilalia ns in the grenus. Capsule clavate, six-ribbed, smooth imd leaved.
6. D. revatrifulium. $R$.

Parasitic. Learfs lameolar, from thre to seven-nerved, several, from the apex of the long eonic bulb, formine a stem with their long tubular, romeentric shemtho. Scape manyHowered; petals sub-lanceolar ; lamina with a broad, three-lobed apex; the midtle one plaited and cirved.

Tatakperce, the vermacnlar hame in the farmow comutry, where it is indirenous; flowering in April ind May.

Root of many, strong, fleay fibres from the base of estelt bulh, by winch ther adlure to the parent tree. Bulbs long, and rather slancler fur the size of the plant, taperiner ofle into
 longe eriving a total lenertl of foren three to five fert, leaves inchaded, to the whele plant.
 nerved and somewhat pluited, sumoth, acnte ; from six to cionteen inehes long, and fom two
 the lover three tourthe mand. inwested in it few remote shentls: ; the upper portion on raceme, nbont one fonrth part of the whole, and bearing from ten to twenty large, brantitind. yellow Howers. Petals five, nearly equal, spreading, sub-lanceolar. Lip large and lonser than the petals, projecting behind into a large eonical horn; apex of the lamina brond, three-lobed, the middle lobe beantitully embed, aud of a muel brigliter colonr.
7. I). Pieradi. Roriל.

Parasitic, canlescont. pendnlons. Lenzes bifirions, lanceolate, cmarginate. Flozeers peduncled, from one to two or three from the joints of the leafless stems. fipe entire, thbular toward the base.

Gent witl some other species, from Chittagong to this garden, ly Mr. Pier:md. This beautifnl parasitic is anative of that place, as wall as of various parts of the Delta of the Ganges, where it is genemally fomme on mango trees.

Root perennial, tibmons, adhering to the parent tree. Slems perenuial, mumerous, simple, droopitag, romud, smonth, jointed, while womg leaf-bearing, bat sts they advance in acre the laves drop, and they ever afterwardi momin naked, (exept when lecomated with blowams, gencrally fom two to five feet lnug. Leaves slternate, sespile on their sheaths, lameenate, smontl, firm sme shining on both sides; trom two to fom inebos long, and abont onv broat. Flovers one or two, rimely three, on very short perhureles, whels issine from the juints of the stems. 'lhey are large and of a pate yellow colomr. Corol; the exterior three pertals narrow,
 the lengeth of the petals, shovel-ahnucel, with the marans shightly curled, and sumewhat cili-
 very pediecel is protraded from the base ot the style, or eolum of froctificution. Germe ine ferior, de. as in the reat of thix natmal order. Ciolumn of firmetiticntion, or the term style might still be a buttru one, slont, hid in tho involnter thburr portion of the lip mear the bise. semi-cirenlar, with that, furrowed lamma. Stinme on the intorior side of the coslumm, a little below the sonex is a loollow, glutinems gland with at very pertect perforstion, whiels comb in the eavity of the germ ; this I comsider to lee the deal style and stigma, or in othor words, the orgatu by which the powers of the mule ne conseyedt the fimate. Stamime; filamentes two, execedingly short amd slomber, joining the posterior small (nud of the two, obowate, oblume anthers to the posterior part of the two-lobel concowity. Receptacle of the anthers on the apex of the style. Lid or reil mitre-shiped, emmrginate.
8. 1). purpurerm. R.

Parasitic. Slems simple, pendulous, in fower leatless ; leaves bifarions, lanceolate, Flowers numerons in dense ovate hembs. i, ip linear, oblong, cutire.

A native of the hohemas. from thence introdnced into the Botanic garden, where it blossoms in F゚rbrnary umd Marelh.

Rool of numerons flesly fibres, adhering in all dinections to the trunks and bramehes of
 so; for the first year or two theshy, when old naled, marked with the circulan eicatrices of the tallen lemes; they ure then somewhat ragose, longitudinally furrowed, and thickest toward the middle; the general hength there or tome feet. Zeracs altermate, biturious, sessile on their smouth, cylindrie sheaths, spreading, lanceolate, cutire, of a slewder texture, and polished




!. D. jur irlum. $R$.





Fomad growing on trees in the fonesto of Chittagens, in there chating the lint seatom. It
 might he taken fur the same.
10. 1) terps. Poxb.

Para-itic: Stem, branches and lerres all colmmar. Racemes leaf-opphect, and of their















 erel. lip-ublepombrifi rum, ritm.
fisumb on tre s in the foresta of shlat ant the farmow mombain-; in thow in Aprit and My.














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 moins : hmt the. he ur n re livits









 lamint, which in ritl ir hertur than the. pithe.
13. 1). Whem. If: (th, iv. $1,+1$.
 from the sht: the of the latre, ont flownral


11. I). atoj an formar. $l$.

 Lif ont l, hath, wh mbitr.


Page Caroy the rains:

Rool of mumons, firm finnes, whering firmly to the parent trece. Stems and branches a







 let. Corol slippreshapal, split om the mater side to the alpex of the limge horm, the inme two petolv suall amd aljoned ar it distinct. Lip obovate cuneate, enarginate; interior maging cremblate, and slightity waverl.
15. 1). culcorlum. Rartl.

D'arasitic. stem and brenchess st mereling, thin, two-edped. Jempes bifirious, stem-clasp.



Herlat suplix. Rem, h. .tmb, vi. fo, 111).f. 3.
 ing the rains.

Root permminl, emsistime of nummens, theshy fibers admeriner to the pront tres. Stems
 length of many find. frepu nity staking lont from the joints, for the mot part inveated in





 rior lobe cuargiuste: :ll :are slieltity memal wh imd owled.

## GYNANDRLA IKXANDRIA.

## ART心TOLOMILTA. Schwo. gen. N. 1383.

III.



1. 2. achminvia. If:illd. iv. 157.

Pemminl, twining, smotis. Leares cordat", rather acmminat Racemes uxillary, simplo or comicouph, dromping.














Cutatie fient lik d. Ifal. viii. l. 5.5.
Te7i,... 1- 1m.
A mative oi eopses, and juts hes where the sonl io dry and por. It flowers during the wet sen-on.






The remt, lihe those of qiceteale, are naurconsly bittw, and I think rather more so than they :Her.
i3. A. lomgifolin. Rorb.


$\Lambda$ native of the Nalutens.

 forerel, brater.

## I'lina tialn (trin).


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## CLASSXXI.

## MONOWCTA MONANMmL. 

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3. I retre fir ls. R.













Pace
dric grands in a verderel rond the style. Pisfils in the swelled base of the spathe. Gremon, superior, comieal, five of six-lubert, cath lohe "rowned with a lare gland. Styie eylindrie.
 sufe whinal, from five to six-eelled, from tive to six-vilvod, oproning from the apex. Seeds a few int ctch coll.
 First, in the low ene of the spath being elosed and twisted to the right, then the upper portion to the left and opron; and in the partition therof bing ine mplete. Serombly, in
 five or six celle sumd a tow large sweds in eatels.
t. A. uniluculuris. $K$.

Stembes. Ireuves linear-lanceolate. Spulbe a, long as the leaves, twisted Capsubes onecelled.

Teliny. Pechaki, boom-madec.
A native of ('oromanuld, in marshy ploces, and borders of lakes, where it is partly in swer Water Flowering time the rainy seasom.

Roof tilmons, stoloniferons. Nitemics. Leaves radical, erect, enciform, smooth, befow ex-

 as the leaves erect, below eonvolute; above the phadix twinted like aserew to very fine,



 any visible. Anthers vory mmmerns, suromuliner in fing of a glole t.le top of the style just below or evers tonching the partition. Pistil, in the lower convolute belly of the spatle. Germs conical. Style tllifiom, the length of the belly of the spather. Its mpex is firmly mited to the horizontal partition ab) Pr-matinned. Pericurp; capovie leathory, couical, one-celtorl, one-valved. Receplacle conical, atlixed at the bise and upex, fiee round the sides. seeds nu. merous.

## ARLM. Schrel. gen. N. 1387.

Spathe onv-lenved, cowled. Spudix or receptacle with the fomale florets round the base, stamincous about the midule und maked above:

## SEC'I. I. With simple Leaves.

1. A. colocasia. H「illd. iv. 481.

Stemless. Lereres peltate, nvate, repud, semi-bifid at the base. Scape shorter than the petioles. Spathe mach longer than : spatlix, cylindric, erwet; club sub-cylindric, lengti of the autheriferons purt of the receptache Anthers many-celled.

Sons. Kuchoo.
Beng. (Goori-Kuclion.
A. Ferypticum. Rumph. Amb. v. 1.109.

Teling. (Chama-K゙nra.
There are two varistins of the species cullivated in the vicinity of Calentta, viz, GooriKuchoo just mentioned, and Asoo or early linehoo: small oflests from the larger tuburs are, like potatues, planted about the berimning of the rails in May or June, in a woll habonerd,
 the close of the year ; those of (fori-Kinchoo, in hebruary and Mareln. Besides these two, there are three wild rarictios of this speeies, fomm in most patis of India, viz.

1st. Katlia or dark-colomed kinchon, foumb on the edges of ditehes, and other wet places. The leares and the protioles aro more or less tinged with purple, nud the roots never swell in the manner the entrivated varieties do. lnt semb ont mumerons rumers. The leaves, :mal their foot-stalks, are the purt- elicely eatem by the matives of Beneral.

Caladium acmatile. Rumph. 1 mb , v. $1.110 . f$. 1. seems to le this variet.y.
2d. Char- Kiuchoo, crows on dry grommd, chiofty by rond sides, on dums hills, and among rublish, it differs fron the other varieties in laving the disk of the leaves manked with dark purple or bluisll black elounds.

3d. Bum-lineboo. In situation and form every way like the last, but of an uniform rreen colour. The last two are rarely caten by the natives of Beugal, where better vecretables are plentifinl and easily procured.

Cialadiam vicornun. Rumph. Amb. v. p, 318.
2. A. nymplatifolimm. $R$.

Sitemless. Leaves peltate, ovate requand, semi-bifid at the hase. Scape shorter than the petioles. Sputhe much lourer than the spatia, sub-cylindric, erect; clubslomere, acnte, searce" ly half the longeth of the antherifurons part of the receptacte, Anthers many-celled.

Chladimu n!mphaxifolimm. Willd. iv. 488 .
Beny. Sin linchoo.
III.

I dombt if this ean he reekomed any thing mone than a large aquat ie rariety of Colocasia. In Bemgal it is rarely enlivated, but fomml wild in abmal:mere on the borlars of lakes, and pouls of fresh water, livery part of this plant is caten hy the Hindoos. The rout or rather

जhit...rammon stem. often grows to the hength and thickness of a man's arm. The pretiules, sexpe and leave are of a reddivh ehonr, mat the plantse msidembly larger than anye of the
 bramth. The onty croxt specifie mark to know it from Colocasia by, is the shortness of tho cluh of the =patix.
3. A. viripurum. Ruxb.

Stembess. Lener peltate. cordate, acuminate. Root thagelliferous and these runners bearing scaly. viripurns buths in clanters.

Marawara 'T:jembe. Rhent. Jhal. rii. t. ?




 by thene the pount is rality pr payted.













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Fing. NIth-Kil tros.
Han enri. a warits with the p tinkes of tha I ame darker col med.


 rains, and he ciminte of the comb starme.















 truncate, with a sunll subulate acumeu; trow cight to trelve inches loug. spadix erlindric
III.

4

Page Curey
Fid.













 ed ronnel it sponery echtre, coch purfurated at the apex to let the pollan passo forms in this speccios very indistinet.

## 9. A. Jurmicalun. $R$.

 vate; upper halt of the spathe vinulted, equalling the spadix. Berries with from one to thres secds.


Root tibrons. Stem aret or ascondinge trom one to thee feet in length, matiat with



 Pefioles sheathing it the bise, the lest roand, smooth, clouded, atud tagrering, leugth vaxious.











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11．A．Alyell feratir．$R$ ．


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$B=$ in lithil．
































Pago werc bue ning of winter.

Foot tuberous. Stem nome, Leaves imdical, the most exterior oues depply there-lentect, almost ternate, the iuterior oncs triamgnlar, all ure smonth on hoth sides; from fonm to six

 short. Spathe rather longer than the spatix, spreatling horizontully with its twisted apex resting on the rrombl. Vectarial filements rocuriod, short, and sinple. Germs on a eonical receptucte, the base of the spadix bring so formed.

In Arum orixpmsis, which this phant looks like, the receptacle of the gorms is evindrimb, with a long ramons filament, crowning its upper chege, this aloue is a sufficieut distinguishing mark.
1.1. A. gracilis. $R$.

Situmliss. Leares deeply three-parted, or sub-ternate; lobes amte; the middle one oblong, lateral, semi-hastate. spathe Hagrelliform, the leugth of the thagelliform spadix. Sectaridel filaments simple, and revolnte.

Katu-schenn. Rherd. I/al. xi. $t .21$.
A native of sillert, where it is known by the name $H a r^{\circ} p \mathrm{ong}$, and used medicinally. Flowering time the hot and tho rany seanons.

## SECT. II. With compound Leaves.

15. A. लuspidatum. $R$.

Stmuless. Leares termite; leaflots equal, lunceolate, cuspidate. Scapes as long as the petioles. Sputhe longer than the subulate pointed spadix. Anthers from font to five, in a peltate cirenlar crown on cach filament.

A native of Puln Pinang, whore Mr. W. Moxhmrgh firat disemered this ancommonly fine species, and sent the ronta to the Botanie garden where the phant hossoms in April.

Rout, a shall, tiberons, permaial erown, with long fleshy filnes firon its base. Stem no other than the lower sheathing portion of the petioles of the leaves, and ulont three or four inches long. Iferres fow, betioled. lemate. Lerflefs, the pair sub-sessile, and semi-lincerelate, the terminnl one pritolated, and lancolate, all minding in long, filiform points, and perfectly smontlo on both sides; margins entire, but watred, from fonr to twelse inches lung, and firnu
 like the fine, rombl, tapering, sumoth, beantitnlly erow ded portion of the petiones of the leaves. Spathe oblong, the lowes half sub) eylindre, faintly chonded, at the lace convorging; above
 cylindric. amb surmonded with stamens; upper half subulate and nakel. Corol nome. Stamens numbrons; filnments very short, thick, and lleshy. Anthers gemembly four, round the apex of each filmanent. Pistits, none emm be found on the only plant now iu blossom.
16. A. curratum. lioxb.

Stemkess. Lemres pelate; leaflets from ten to twelve, lanecolar. Spathe vaulted, half the length of the cmrved -padix; no nectarial filaments. Anthers three-lobed.

Ni(p). Becor- numba.
III.

A native of Nepal. In the Company's Botanic garden it bossoms in May. reolar, entire, smonth, reined : mbont wix inches long. Petioles ven long. the lower fonr fifths thereof shenthing the mpere part round, tapering, wll are smooth, and of a palo freen eotome, below the petioles are embsaced hy a shenthor two these are chomled with white on the ontside. Scope from three to fome teet high, which is rather longer than the haves, romud, smouth,

 limdric, sbove that the remaininz part of the spathe projects borizontally over the month of the cylindric part, like a larce, conemre, pointed rout, or lid. striated, otherwise suouth, and of an uniform pa!e freen on both sides. spadix the receptacle may he abont a fometh of the whole, it is crect. abowe that it bends ont downwards, then npwards, emding in a long. creet, naked clab, or rather whip. Stemens oecuppins the upper two thirks of the receptacle. Filamenls short, diverging. Anthers laree, three-lobed, with two polliuiferous pits in each lobe. Germs munerons. dic. as in the genus.
17. A. spssiliflormm. Roxd.

Stemless. l.e.ores pedate; leaffets ahont nine, broad-lanceolate, entire. Flowers sessile, appearing when the plant is destitute of folinge. Spathe revolnte, twies the length of the long, taprong, erect. acnte spalix. Vectarial filaments clavie. Anthers two-lobed. Berries from one to two-semed.

A mativa of the eonntry abont Cawnpore, from thence introduced by Colonel Mardwicke into the Botanie garden in Jammy 1803, where the phats blossom freely dmoiug the dry, hot scuson.

Root of the shape and size of a small turnip, with small knobs, or offisete, growing from it. of alirht brown. Leares, which appear many weeks after the flowers decay, pedate and about two fact ligh. Ieriflets mencrally nine, broad-hanceolate, entire, smonth, from thece to nine inches longr. P'etioles round, smonth, tapering, elonded with pale dull purple ; from six to oightom inches long. Scape rery short, aud entirely hid under the surfice of the earth. Spathe
seasite, imed its giblon- hase is ruther immersal in the earth, for four or five inches nhore Page





 attwhel to the butum of the cell. Berries turbinate, smumh, polished. crimsun, one or twoseedinl.

## 14. A. Lyratumb. Roxb.

Rool turuipr-shaperl, stemless. Leaves compound ; first dicisions sub-ternate ; leaflets ly rate, ameroth.

Teling. Vhave-Kunder.
firow - in moint places anonert the Cirrar momatalns.







15). I стmpeulatuis. Ruxb.



crime limuta on linla.
Zratm. Manchi humla.
Bray (1)

 Mral. 1. 11. 1. 1*. cminl 1s.
 of the rains.




























 four to cight or more phands eteh, they kiep well if they ure kept dry, and are by the na-


20 A bulliferwom. Rush.
 than the "ylinlrie spmdix, no nem taries.

Beng. V'mla liula.
A native of Bonkah, ntul phentini in the womla in the ricinits of Calonta, where it

 during the raing ~mantu.

Koot pertiniml, turnip-shaped, and about the same size with fleshy fibres from every

Page Cares Ed














21. A. viluaticum. Rorti.
 tham the show, gibbons emmpanutate spathe. Inthers two-edled.

A mative ut the mombinons pation the firears. Flowering time the wet seanon.










 or threenseded.
 but it is perfectly makewn to the matives of the low comatrys. I an thereme ignomat of its user.
29. A. marguritifer. Roxh.














 top; clammy: jellow.

CALLA. Sichicle gru. Ň. 1:38s.
Spmathe one-haved. Sportix covered with flomets. Caly.e nome. ('orul none. Rerries manyseederel.

1. C. aromatica. $R$.

 mina intermixed : antheres many-cednod.

 somethise like that of the scilamiarous fribe; the madionial virtues of the ront are in high estimation amongst the natives, and they sell tom teln th sixicen rupers the manme.






 half the lengeth of the petioles, the usual bractes intervene between the round, smooth, uni-









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 soms in Nat.












2. $1 . \mathrm{F}=\mathrm{f}$.




 lin tives, in 1-i.7. in th of it is 1.

















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 HCH lal

## 5. 1 puts. 12 .








## Pags <br> Cirey <br> kid.

C. virosa. $R$.
('aulencillt. leaves peltate, ovate, slightly waverl, undivided at the base. spadix oue fourth the lengeth of the smbulate spathe, with the feuale florets at the base. Anthers many ceilect.

Ifind. Bish Kenchoo, Bish meuns poison ; this species we may therefore conclude is at least rerkoned so.

A short, larere, waved plant of an uncommon appearance, the leares being only undulate round the base, and thenctore mearly destitute of that division inte two large lobes so common to the ample hased phanto of this order. Flowering time torard the close of the rabs.

Stem in our yonng plant-in the Botanic crarleu short, simple, romed, and considerably bent to one side. Learess petioled, peltate, owate, madivided at the bres ; the poterior margin undulate, from one to two fere lung, and from six to tiftecn inches broat. Fetioles about the lengith of the leaver, hase sheathing, the rest romad and smoth, and the colour nemply antform frem. Nopes uxillar? many together, somewhat aughlar, half the lengeth of the petioles, me-flowered spathe simblate. nemly atraitht, convolute, smonth, of a lively yellow; about fon times longer than the spatix. spoudix about three inches long, obture; the lower thind part covered with the female flomets, and the mpper two thirds with the male. Anthere peltate, from circht io twolveeedled round the uangin. Germs broad-ovate, onc-celled, containing namy orula attached to three or four parietal receptacles. Style searecly any. Stigma large, peltate.

## GJETUM. Schreb. gen. N. 1477.

III. per or curol tulular, containing a single filatuent with a two-lubel anther fes. Ferianth prothe males in the same scale of the ament. l'erionth proper or corol urceolate. fitem superior, onemeded. ombalitars, suprior, Style short. Stigma trifid. Drape oue sceded. Embryo invere, with an :anple perixpertu.

Leates opposite, elliptic: ; aments ixillary, compound.
(incemon domestica. Rumph. $\operatorname{Limh}$. i. 1.71 .
A mative of Simatm, and the Molucea lamuls. Strong cords are made of the fibres of its bork, at sumatra, und its leaves are used ats spinue. In both male and female, the corol is rery distinet, and of a pitehey shape, with a small perforation at top. they are sparately surrounded with a monber of slender, short filaments, which uay be celled perianths.
2. (i. scaudens. R.

Shubly, scanlent. Leares opposits, oblong
Ula. likeed. Mat, vii p. +1. 1. 2e.
(inemon funimlaris. Rumph. dint. v. p. 12. $t$. 7, and 8.
Nimn-witi, the vemacular nume in the Silluet district. A stout scandent shrub, a native of the lilly parts of Chitagrone, and the casturn parts of Bemgal, as well of Malabar and the Moluceas. Flowering time in the former, Anach atud April, fint edible, ripeuing in September and Oetuber.

Foung shoots round. smonth, juintel at the insertion of the leaves and there swelled. Teares oppusite, short-petioled, whons, firm, gloss, "ntire, rather whtuse, abont six inches long, hy three brond. Potioles rather short, entargenl at the base on the inside. stiputes mone. Peducles axillay and teminal, generally one or two opposite pairs of pedumeled evlindric aments and a terminal one; wll are romel and smoth. Secoles of the monents short, cyatiform,
 whorl of mate and at simgle whorl of female flomto, ofer them; the whole intermixed with mote brown hair. Male flobets. Perienth proper or cornt mequally ovate, with a mimete perforation of the apex for the style and stigma to pass throngh. Filcoments single, from the buttom of the tube of the perianth, owate with a minute perforation at the apex for the style and stigna to pace throngh. (ifrom superion, hid in the prianth. lanerolate, one celled. Siyle short. Sligmet trifid. Drepe oblentre mather lagere that the lawest whive; when ripe smooth, and of at reldish ornage endonr, me"eedhed. Pulp iutermixed with many tender spiente like those of Cowhare, get said to be greculily eaten by the natives, where the plants grow. Sut conform to the drupe, rather tourh, but thin and ribbed on the inside, and on the ontside striated, one eellecl, evaluhar. Sied conform to the nut. Inlequments two; the exterior ono thin and fibrons; the inner ome less distinct, and adhering to the perisperm very firmly. Pcrisperm conform to the seed, eartagmons. Embryo in the apex of the perisperm, straght. Colyledons two, ensiform, mequal. Ralicle superior.

## CASUARINA. Schrel. gen. N. 1395.

Mate calyx an mment. Corol tropetalled, or two-parted. Female calyx an ament. Corol nove. Germ onn-cellen, one-seded ; attuchanent intirim: Style two-clelt. strobile two valved, oue-seeted. Sends winged. Embigo inverse, with little or no perisperm.
C. muricata. R.

Diweons, arboreons. Branches and branchlets seattered, horizontal ; strobilcs oval, murexed with the unmmed, shanp, conical points of the little cabsules.

A mitive of the sand hills, on the sea side, in the province of Chittagong; nnd from thonce war seut by $\mathrm{Dr}_{2}$. Buchauau to the Butavic garden, where in the course of teu years


























 limbryrs withot pr ri-purat.

 luar inll lifo.

Ait Nir ice pp he ar e. Wild. is. 124.
Al-jli $R$, lell. iii. l. 32.
























## $\because$. I. integrifulis. Willd. ir. ] it.


sit rlima čulifuren. fiert. sem. i. 315. (.71, 72.

'I' jac'a martum. Kbed. Mal. iii. (. 20, 27, 23.
Ben\%. Kitnthal.
Sith frer.
Pintshn mit ofort. Lowrier. Cwhin Ch. fifi




 four or tive montion altorwardy.




 integrifulio. (ierms numerons, of the shape of a lamene flak; style the laneth of the extorior eoat of the irem. Stigmas submlate. Frmil compenmet, the surfare pret!r smonth; the
 an irrecrular, remblish furm, when ripe yedlow. Seeds oblons, involvel in the same number of integmuments as in A. integrifolia.

The natives eat the frimit; to an Furopen the taste will genemally be found disagrecable The mate spadix is acid, mad astringent ; the matives mat then in this emries. The roots dye yellow. The whale tree and nuripe trint, like $A$. incisus, and integrifulia, contan much temaccons milky juice.

## 4. A. Chuplasha. Roxb.

Lentes in the adnlt, ohorate, chtire ; in the young pinnatifid. Aments axillary, longpeduncled, sulprotmud. Fretit splecrical.

Beng. Chaplusit.
A native of the castern fronticr of the Province of Bengal, about Tipperall, and Clistagong. where it grows to he a tree of the first magnitude. Flowering time March and April, When the tirst flowers appear, the tree is destitute of leares, but they make their apcarance
befure the fruit is firmad.











































is. $1 / 1$, is







 math it gran the ret of the yor.

## 








1. F C"uim. Hehl is. 1131.



Pres. (1.j r .
A: alf. n 11 .
B , I I , mat ar W. W lome.


Hyga
111.

520

## ※. 1: hivsula. Roxと.

Arbewous. Tender parts hisute. Leares mund-comate, from three to fire-lobed, serrate dentate; lobes aches, Fowit axillary, paimet, ses-ile, wat, flamery.

Bumpat the vernacular nume in the sillet distriet, where the tree is indigenous, and produces timit during the dry season.

Tumy shools sul sucenhat, and very lairy; hairs fulwoms. Teares alternate, petioted



 face of the timit. caluce of the fruit; leaflets there, oblighely rombl, condate, cuspidath, seri-


 carity of the recerptache. Corly.re as in the mule. (ierm sub-glubulan: Siyle on une side, bleurt. Sligina larere, numowhat theer lubral.

The fruit is caten by the natives of Silhet, where the tree is indigenous.
3. F. palimala. R.

Reacts palmate, woolly male rnenth; labes servalate dentate, and cuspidnte.
Foum by Mr. WV. Inmiter indigenons at l'ulo Pinmer.
4. F, ciricoides. Rosld.

Sub-arhorems. Jeares comate, crenatu, vithous. Fruil axillary, solitary, or paired, peduneled, trisomal-turbinate, wrinklud. Limbilious shat with three curdatescales. Calyz from tive to six-leared.

From (ioneral Martinat Lacknow, some plants were received into the Botanic garden where they frow randily from cultings, thrive well, and ban fimit nhmadantly
 fig, only maning more into lones skoder twigs. Lereres alterante, petioled, cordute, crembinte, villuns ; from sis to ten inches long. Pelioles romm, domne, tho or thre inches long. Fruit axilary, long-peducled, olitary, crect, of a triancular-turhante hape, with at rumil, chased, prominent malilichs; notikich on the ontside, and somewhat villons; when ripe gellowish, and about the size of a gooseberry. Calyse of the fruit there-leaved, that of the corollets five leavell, as in the grems.

Sofe. The phant has st much the gencral habit of F. Ceriere, that I longe considered it an necidental varioty, bat as the tren in less like it when old, and the hape of the leaver "antinurs contant, 1 nim new inducel to consider it a distinct species. The fonit is tough, and very mpalatuble, in short not catable.
5. F. virgala. li.

Shrubly: Latares brond-endate, nitu-e, serrate-crenate, threc-ucrved, downy. Fruit axillary :und lateral, pelancled, whlitin? oval, moth.

A native of liohilcmad ; thowering time the dry season.
Trunh tolumhly ared. Branches few, wak, istending, comorel with smonth, brow wish, ash-culoured bank; the whone heiritt of phants six yours old, from four to eight feet. Leares

 es long. slipules semi-lancoblatc, caducous, Fruil axithry sulitary, ovate, of the size of a
 Calys common, three-lenved, and removed a litlle from the frnit, by is homp pedicel, Mat.E. Corol round the inside of the month of the frome lons-pediectled. Calys as from three to five, laucenate, hairy lentle sis. Stamina thee. bemale corvilels numerous, subsessile. Calyx gemerally three-lencial. Geim round. Slyle hairy, tapering to a fine, hairy, coloured stignat.
6. F. hirla. R.

Arborents. Thende; perls very hairy, Leaves long. petiolenl, condate, ciliate, serrate. Fruit axilhary-paind, stesile, wate, shagrey.
 to a great size, mut is hatititul during the dry smano.

Ionag shools rather succulent, and rery hairy; hair fulvons. Leerres alternate, longpetioled, corbate, acutely semate, from thare to tive-nerved, somethase somathat angular, or oberurdy lobed; the upper surtice a little hairy, rex downy underneath, particularly tho nerves, if fout loner, byine or ten inches broad. Petioles very shagrgy, round, from six do cight inche's long, Stipules lamecolate, seriomus. Fruil axillary, sessile, ovate, hirsute, of the size

 dimatrons, with it reth, tive-eleft eatrx. Femule corollels numaroms, ofer the whole of the inside of the receptache, lone-pediedled. Caly,r there-leaved, or theceparted; parls lanceolate, and columerl as in the male. Germ ovat. Sityle the length of the germ. Sligma litid.
7. $\because$. squamosa. $\pi$.

Shrubly. Leares uliernate, short-potioncel, furbimate. very scabrons; slipules permanent. Fruit sulitary, or in pair, short-peduncletl, turbinate, very scalsous, some large seales about the apex.

Foumt ly. Mr. (iott indictuons in Rohilemad.
8. F. laminose. Hardu.

Slırubloy, spreading. Leaces opposite, broad-laucoulate, scabrous. Fruit globular, sibbed,
aud imbricated with lamina.

 p. 379.
3. 1. hele raphlylla.
-hmbly, nimetadme Leares variou-ly divided, seabruns. Fruit axillary, paired, pedunclul, rouch.
litli tert =ath. Fhte 1. Ifal. iii. t. 6 ?
B. Fg . (ihntionara.

Trling. Buroui.
 water whmo white it rents are comstantly umist.






The hark if the rout is ret? biter, it is rivan by the llimtous ut there parts to remove pains in the lxow is.

This is tmat a phly:ophtom plant, at al 1 an pect Vilhl's F'imes denticulato, fruncata, and


 all.
10. F. scumbella. R.

 of the nubtitiens cilitte.










 like thet of the $u=1$.















1.. I. Letr +a. liserto.
 enitiary, his rt-phlunel d. romm, hairy.
 journey to ehert thyur.

### 1.3. 1. Chencha. $R$.



 journey th -irr. in sur.

1i. F. glemflit. $R(0) r$ ).








Pure



 within the mabilirels. I'riantio in luoth tive-clett.
15. F゙. Kmile GItrefl.




 mimote actumintance with benth, imhees ner to think thom distinct. In this 1 lave fonme




 long. Defloles and reins red. sfipules ensitimm, coloumed, smonth. Fruit axillor, paired,


li. F., repers. If illd. is. $1111!$.
sommwhat slambly, croping. Leures obliquely cordate, lobate, serratedentate. Frut solitary, pexhomeled, lungr-ulosate.

Br.ng. Bhowi-boomour.








17. 1F. íkilectus. $R$.




 the grommal. In fruit the whole year.






 fiverelatt ; segments easitorm. Wale corollels momardrons, a lew rumat the inside at the mentls of the reweptache, all the rent female.

1s. F゙. scermiens. R.
Simblby, selulat. Seares short-petioled, ovate, entire, finit in ixillay pairw, roumi, pedunched ; comimun cetlyz i hrer-testlı 1 .

A native of sillut, where it grows to be a manons elimhing shrub, rumming up and wer small trees, shruhis, de





 few in some of the reeeptaclen, in others mone eond be seen, montatronts.
19. F. reng me. $R$.
shimblis, s':umbut, moting to ather trees. Leares loner-petiohent, cxactly endafe, villons
 within hirsute.
 It prorlaces frat at varions periorl= throngh the pear.

Foung shoots sinusth, except fon 11 short while whon they tirst appear, then a lintle luirs.








$\because 1 \%, \operatorname{li}$,



$\because 1$ F $h^{2}$. R $r^{i}$



 i-








 and twe -lumt inns.



th. h i i Orin.
ㄹ.3. H $11 ., \mathrm{H}$ !













 Hur evelo, the: mit.




Stes, Yiler. Sow edeat. lires, is 31 n .
Horatu Rhond. Mst. i. 6. 24.


(i=ر. I Bn-ln.
Tilig. Horiot

## 

 hンtry ai Ibil.






















Wote. Vis. 1. of I'lukenet's 178 th 'I'able is a much better figure of this tree than Fig. 4. of the *-Itur table。

Tha branimu atre patial to the lettios of this tree to make their plates to eat ofl ; they are jointerl !omether by inkles.

Bird-lime is preprom from the tenacions milky juice which every pmet of the tree vields in abmulture on benter wounded.
lifers eat the irnit, and the serels erow the better for havine passed thenerh flom ; if




 vencration, sayine it is a holy marringe instituted by loovilence.

 sile, oval, smouth, the sibe of nn ulive, Stipules nemrly ay long nis the lowes, monoth and rosy.

Kinsmere, the bernacnlan name by which this tree is knonn to the inhabitants of the



 mud Geptomber. lisery part abounds with rich inilky juice, which furnishes abont onte thirel of it: werisht of ('anotehnme.



 direction, fomming a rery exten-ive, ami shaty hen! ; the burk of the laterest ones is like that of the trank, thit of the yomme hoots smonth, polisherl, of a terpereme.
'Tho Jontipner linja who proctral plants of this tree and mameles in yomer fonte says the tree fiom wheme the lattor were takern is only fom years old and is twenty-five feet hirh, with a trunk three fert in ciarumference.

 and hiohly polished on both sides, with the upper surtace derep clene grexis, and the muder
 divercring veins, il in Callophyllum inophyllum. Rih smooth und derply tinged with red. Pelioles about an inch hong, round atul preflectly smooth. sifipules solitays, whathiner, befine

 mark bohind, and ure from tone to misht incios long ; I have mot mot whith iny other species
 sile, finst when they ane relieved fom the stipules cach of them is inclosed in a donble integrament or involuce, which hy the rionth of the frait soon hasts and disappeats, lenving anmula mates romal the base of the fimit. When ripe oval and about tho size of an olive, smooth, and of a crremish follow colom: Jale and female corollels intimately mixed orar the whole
 Germ nuequally-oblong, Slyle fom one side near the apex, curved. Sligme rather latre, and rigred.

I similar substane to that whel the milk of this moble tree fmonshes in such abmu-
 by me in the sth volume of the tsinticfe Resereches. I there observerl that infirior sorts were furnished by the milley juices of the Jak tree, Lreacapos infrgrifolin, the banyau tree,

 of Willughbeice, there ealled Luli fom or the seandent mangu, unother, a mew and beantiful Melodimas or climbing apple, there emlled Squal howa, which yichls in milky fluid of the same natmos, mad to those I now idd the above dewribed lige trea, wheh l consider an madescribed species, nut to which I have reven the sperifie mame plastice, on aceomt of its milky fince. The mamer in which the disenvety whe matle is as follows.
'Juwards the elosie of 1810 , N1'. Natthew lichard smith of siller, sat me a vessel, there ralleal : lumong, filled with honey in the very stite in which it had been broneht from the
 basket in theshape of a fomecompred, wide mouthed botthe, made of split ratana, sereral spereies
 gallons. Hr. Smith ofserved that the inside of the reasel, was mented over with the juife of a tree, which grows on the muntains. I mas therefore mere anxions to cammine the uas
ture of thim lixing: than rle yunlity of the honey. The Tmosy wav therefore emptiod amd washod ant, when to my rratitation I fumm it rery perfexty lined with a thin coat of $C$ a outchote.


 the lontanice qaran.






 richer.
































二ti. $\because$. l iq! ru. í.



 rails.










2.x. 1. ubluvfilia. $R$.

 larry, anil vellars.
 the lon ant rainy - g-n)






Pago Curey
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111.
$5 \cdot 4$ －

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30．E．religiunser． 11 iold．is． 1131 l．
 pressed，simuoth，hhuck．

Sreaha．Marif．Mal．i．1．27．
 Aswattha．

Brag．Awit，of Avork．
Iliurl．lippat．
Cincy．lumallis．
Tinling．lisi．








III．







 fonit three－le：ived．


 womble mate in the lank．

31．I．cornlifolica．R．
Lemes lums，stemder，prioled，wrate－comdate，wared．amminate．glosay．Irruit paired． sessile．rommit，smonth，black．

Berlg．（iny－b：いいt．
Arlan Conciliomm．Rumph．Atmb．iii．／．on？．


 if composed af matys roaldereed trouks．









 rombl，and nut，as in religiowe vertically eomprestat．
：32．1：．T＇siela．



Teling．Inomere，on l＇mlite－．lonsere．

 whom it erows to be nearly as large，mal is equally shad！．









33. f. 13 jon m. 11 wh is $111 \%$

Ity. din lihot. Mal, i. t. 2s.
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 tumit - dea al.










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Page
and sple




 Fimbilicus small, romme, shit on the inside with minnte seareoly visible scales.
38. I. comesa. Wrilld. iv. 11 1s. Cortom. pt. ii. I. 125.

Lecuces uhlong-ventricose, pointed, smooth. Fruil in pairs, generaily terminal, turbinate, smootli, red.

Tellim!. l'ontra-joorec.
This is a prefty lare tree, a mative of the Circib monntains, it lus a laree spreadiner, rary branchy shaty top, the bark is pretty sumoth, and ash-columberl, the bianchlets ane very slender, nuch sub-divicled, and often pendiulons.
 two to fom inches long. Pefioles vers slemder, nbout un inch Iome, erooved. Frmit terminal,
 liens rising alitue in the centre, which is shat ap with the sealec; contranted att the base, somethine like the ueck of a bottle, -umoth, when ripe ot' a rich degp yellew er lunr. Crelye

 two-lubed. Síglp lomis, sleuder. Ňigura filitionn. Iwo-cleft.

Fote. 1 ohmervid : hoorl over the radiments of the youmg fruit, which fell wit as soon as they begran to incroase in size.

3!. F. urticyfolier. R.
Lforses cordate, threr-nerved, servate, hispidabove, downy mudernemth. Frail in axillary pairs, long pednucled, turbinate in a rather remote three-leded cal $5 x$, downy, the size of a small gooseberry.

A metive ot the momatains north of Bencal.
40. F. rmpelos. К ̈̈̈n. Mss.

Branches droppinf fibrous roots, Leaves ubliquely oval, senbrous. Fruit paired, axillary, pedicelled. pisilimm, smoth, yellow.

Teling. 'leala-barinka.
A larere tree a native of monntainoms conntries chiefly
Trunk remarkably shott. lut wo thick, and sometimes so eompletely ormamented with

 (lusky film. Seares altemate, temeling to be bifarions. sproading, short-potiobal, obliguely
 fom incles long. Pelioles short, curverl, clinnolled. Slijniles small. ns in the rent uf the family. Fruil axillary, paired, pednmeled, when ripe the sioe of a pen, and yellow. Catyx of

4.1. $k$ : aspervime. Roxh.

Iectes oval, oftern seolloped, very scabrous. Fruil inxillary: paired, pedmacled, romm, down!

T'ereçan. Rheest. Mral. iii. 6().
Taling. に゙amaku-hooda.
A lurge trere, a motive of monst valleys.
Trunh croct. Brenches mumeroms. spremding into a harge shady hearl. Branchlots rust-

 theremeryed, fionm four to six inclos lous. Pelioles abont an inch lomer, seabrons, stipules as in the fimily. Frail axillary, paired, perlmaled, downy, siza of a goochery, when ripe follow.
12. F. tuberculata. $R$.

Leares short-petioled, obloner, entire, mente, ronerlı. Fruit in paiss, pealuncled, romudish, the size of a lincer penc. tuhereled. the mubiliens chewnterl.

Trlina. Konda-joover.
A mative of the wotmation of Commandul, where it frows to be a small very manoms tree.
43. F. an!ustifulia. R.
I.eams sub-oppusite, lanceolate, smontl, acute. Fruit axillary, pared, loug-pedmeled, tmrlimete, smooth.

A large tree, a mative of the Cirens monntains.
Branchleds rust-colourad. but smonth. Leaves between alformate aud opposite, short-petioled, most slightle there-neved. broat-lanceotate, or oblong, sharp-pointul, manoth on hoth

 the frint nowe, but there is is small therescaled one at the hase of the prefuncle.

## SECT. II. Fmit fasided, racemed, or panicled.

44. F. exasperata. R.

Arboreous. Leares short-petioled, oblong, neuminte, repand-serrate, rough on both sides.


 e- ; woverd with rust molone I, peaty - 3 wh harh.



 mamail, un I shiut with colonreal salen.



 torid. Willd. is. 114.

## 15. 1. mumblif sia. If.















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 turapo-inuped, from citht to twels r liters, lisity.


















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Рнео
Carey
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56

## cxaminmal.

19. F. alomeral.e. If illd. is. Il Iצ. Curom. pl. ii. N. I23.
 pednateled, downy, farlohats.
(Jodramblati. Aviat. 凡es. iv. зu99.
LLind. Desmbur.
Brag. Inegra-lloumoor.
T'ilim!. brmma-minnmatue.
 contras, where the seil is rith and muist.













E1). F . cenglumerter. $i$.


 at ('alemtat, it is loadeal with fruit the whole ?









 will : llirer-lawai perianth.






 now while youner trees, sumoth hark.










 the cold seit-ull.



 c:mberons. Rece
















 $51+m+1-1,1+\cdots$

sta: Kiknll ". li lihe.
K. B . Kak b wer.














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## rIIITA.

















Pake

## 111




ㄹ. (… fiucotata. 12 .
Nems hliform, smooth. Leaves verticelkel. frolifernas, with flowers erowaled in the divivions.

Fomnd in tanlss, and darnant sweet witur near ('alent the
 ral feet has. Yenters on hamehters worticethed, athont sit or seven in the wertieel, the anperior,




 low, and the femate ones grone mixal, in eremeral the latter are most numerons. Catyre of the femate mother than the division of the leaves. Seeds ghobular, spirat, with the stigma firm three to tivepparted on its apex.
3. C. incolucrala, $R$.

Stems und hranches filiform, sumoth. Ternees verticelled, undivided, three or fonr-juint. ed, with a mate and femate flower on cmell $j$ rint.

B+ny. Jlani. .
Found in tanks and pools of water meal' ('alentan haring the cold and lent seasons.



 joints of the leaves. Calys dic. of beth mate mad female, as in the last deseribed.

## MONOHCIA DIANDRLA.

## LEMAN. Sclucl. gerz. N. 1430.

Male cal!ar one leavel. C'ural nume. I'mule calyx onc-leaved. Corol none. Style one. Capsule one-relled, two-serded.

1. L. artimetata. $R$.

Lectues sul)-stisile, orthienlan; flat on both sides, from two or three tugether. Roots fascicled, simple.

Fommf most part of tin yan, floating on starghant water in Bencrat.
2. L. glabesa. R.
single. Mluhblur, rootless, minute, une, or at most two thacther, simply about the size of a grain of satud.

I11. in Bengral forming a compact inven seum, wer the surface.
3. 1. cruciata: $R$.

Lentes petioled, lateoblate, prolifienme, Hat on both sides. Root solitary or wanting.
Fomm in bempal, and gencrally mader the surface of the waler in tanks, in must extensive interwoven masses.

## MOMOECIA TRLANBRLA.

TIMTHA. Scheb. gen. N. 1401.


#### Abstract

Bale ament cylindric, emmpact. Ir rianth tilitiom. Curol none. Female ament crlindric, beneath that of the mule, Prerianth of eeveral tine fifanents. Corol none. Seed me. 1. T. elephantina. Roxb.

Leaves chaifirm, ohtnse, that on the inside, the length of the stems. Wale ament from two to there inclus ubori ifu: female. Filaments solitary, with from one to three anthers; neuter corollots mixal with the fertile femate uncs.


## Berg. Howra.

## Teling. Limign Jnnum.

Elephant grass.
It crows in standing sweet water, of slow rmming rivers and beoks, which do not dry up durine the lint seasent. Fibwers during the wet and eohl semsons.

Root stoloniferons, pereminis. Crelm.s strairhtt, rombl. smonth, glossy, jointed at the insertion of the lenves, mad involved, except near the ament, in their shenthe, the naked part near the anment is about the thickness of a common back lead pencil ; sulatance spongy, from six to twelve feet hiorh. Leares long, ensiform, rery shooth in owery part, below hear the shenth a little convex on the ontride and concowe within. from four to six. feet hone above
 the sheaths of the imer leaves. Whale ament from twa to three inches alvore the fimale one and terminating the cuhn, cylindric, about a foot lone and scarecly as thick as the littlo
finger. every part mot clos ly set with stamens and most fine white filampnts. Spather of

 omes at che aprex; they all drop, ofl sum ates the flowers expant. Cotyr perianth proper.


 ord $r$. Anthers one to ath single tilanent or anhedivi-ion, lincar, yollow, with yrech teps,






 leaver are uned fir that.h. ha tho matives.

Leares semi-eghadrice aente, tho lensth of the seaple. Irale and female aments rather remote.
T. mins. Curt. Flur. Sand. t. 169.

Ben!. Kan Horld.
Fond in amiar pime with the former; Aowering time also the same, but this is a stnaller and much rarer phatit.

## ZH.A. Eilroh. gen. N. 1 H3.


 mersul in un oblong reveptate.

Mira, Maize, or haslian corn.
Titing Mok: denema.
Bemp. Whata on Maklen




 varions ; glames aunlese.

 pairect. Colyces -manthe cit.te.

Cutre or 'atri (omila. Rhead. Mal, xii. \&. To

berg. liur an ir kimel.












 of the corntlot. Ciermonate. l'ericarp no other thau the calyx or involucre, now white and of a beny lurintas.
… $\because$ bathoth. Howh.
l'ediale whort, fuint il, with a boat-shapid, cu pilate -pathe at the joint. Whale spokes erect; flumars $1_{\text {mirat }}$; calyd hairy. Finala corol tur-valsed. Sieeds owal.

Beng. (iumers.

Is fomad in rice lieddu, sum on the lanks of water courses, in a moict, rich soil in tho Nontheral "ircmire.



Page
Carey common spathe. Pedicels com?


 male. Calyx, or involucre, comsistur of one wal, wery hard, erlow valve, which embraces most completely the comol, its margins are duhbe, not mited, mad throweh this thplicature the pedicel of the male spike passes. Curol four-valved, the interior two large and somewhat flesly:

The mest as described in the Genera Plantarmm. 'The grass is of a coarse nature. Cattle do mote eat it.
3. ('. giynnlea. Kön. Mrss.

Teelieells maked; male spilies drooping with flowers, threc-fold, the middle one perdieelled; female rorol six-ralved, secds orate.

Beng. bimga furerm.
Pemmial. It errows chicdly in the valleys monget the Cimem momtains and in Bengal.
Culm erect, manous to the tojo rembed, -mouth, jointed, from cight to diflecu fieet high, imd






 last species. Involuce wate, entire romm the ciremuferemere perfonated ut the apex for the

 is the sumbl whelet of what I call the calrix. Calnx common to the abowe-mentioncel chabled pedicels and the proper femble flowers, two-valwed: the laree ome wate, printed, embracing entirely the proper flower. Corol in reneral six-valved, fom on one side, and two on the other, diminishing in size gradually. Gorm ovate. Sigle two chlef, as in the gemts.
4. (' atqualiaca. $R$.

Flonting and ereeping from fifty to one lundred fert. Leaves linear, most achte, with
 celled. Firmale eorol from six to suren-valved. Sierts turbinate.

A antive of the lower parto af Bencal, where it is gemerally fomm floming on lakes, and along their margina to n wery in at extent.

Rools, beide the oriorinal ones there are many iswing from the joints of the old stems. Stems peremial, jomicil, romml, smonth, filled with pith, alont as thick as a man's fore finger, floating on hakes or erepping along their margins to a great extemt ; extreme shots as well as those fiom the foints arising in an whifpe clibection th the height of liom four to tive feet alone the surface of the water. and beming the leaves and flowes. Leares, the lower ones line: fancolate, the smperior ones ensifom, all have lome tapering, wey acate points, with the mar-
 to an inch and a half wide. Spikes ferminal, and from the exterior axils, perimeled, solitary
 Incolucre furlinate, perforated: caly.r and corol, i. c. crlumes, within the involnere, from six
552 to seven-valvod, with two abortive corolle ts and their common valve, ns in C . gigantea. bierm

 vatwed thowere in each, Seed turbmate, smooth, of a dull pearl colour, the size of a pea.
5). ( . heteroctitr. $R$.
brect, ramone, hairy. Spikes terminal, single, or pared, when two one is male, the other androgyous, with it jointed rachis and the fire or six femble flowers therent hateted.

A natise of the castern parts of hengal, where it flowers and ripens its seed toward the close of the rains. It is the smallest of the five speecies, beinge only nbout two or at most three feet high, bitt rery ramous.
6. ('. pumila. R.
T.ernes bitarious, linemr-fanceolar, smotlo. Peduncle terminal, naked, and not jointed. IEale spikes with from there to fome paire ol thowers; female conol fiver and erd, wate.

Int roduced from the Alanitins into the Botanic grarder where it grows to be about eighteen inches high, every part smooth, lewes nearly as lons as the culus.

## CAREN. Schreb. ger, N. 1407.

Ament imbricated on ull sides, with one-flowered seates. Eorol none. Male calyx, tho superior sea es of the ament. Corol nome. Female calyr, the inferion seales of the anment. Corot dlask-shaped, perwanemt, one-flowered. Stigma from two to thro. Seed solitary, threc-
sided, ancheer in the permancut romol.

1. (': 13 noulensis. $R$.

 bise.

## 




1. : Bflu゙a $K$



















(ars lit operte folu.



3 S. tomis. H ill is. 316 .


 manicli= ceret perl.
2. \&. 7-re. 11 ; /1. is. 311 .

 molivelel.

A uatiren ol the ME liy Archijclame.
f. \&ery lown $f$.

 flires.orm: rial.



(i. . S sefotrors le.

 tication a lise filifen Irial colhe bracte.

A mative of chittarour.

Mate calyx thrempartal. Corol none. Pemale cuipx six-leaved. Corol none. Capsules trimerern.

1. T. "/an lina |s"lly iv. 3?

 Cor ("hnation+ is a erist the.






Page parted, acrate, hiniry; from two to four inchas loug. Slipules half lanceolate. Rumemes teaf-


 six-lewed ; Icaflels pinmatifich, hairy.

Ilue hair of this plunt stings fully as bad ass the commom uettle. Cuttle don not eat any
III. jart of it.

576 2. 'T. involucruta. W'illd. iv. 321.
Shrmbs, 1 winimer Leares whur, three-nerved, serrate. Female calyx pimatifid.
Schorigenanl. Rheed. Mal. ii. 1. 39.
Beng. Bichiter.
Ricinocn-pu4 Zovlanica hirsuta. Burm. Zeyl. t. n2.
A peramial twining phant, a mative of shaly pheces, herges, fe. where the soit is good. Flowers during most part of the year.

Slems short, wooly: Branhies twining, the tender parts coremed with much hair. T.eares scattered, petioled, ohlong, threconemed, juinted, serrate, hairy. Shipmles condate. Racemes as in cammbina, hat smaller, mud wom more than one female tlower on cach. Bractes and flowers both mate and fimmle, as in rammbina.

Nole. 'The hairs of this plant sting equally ins math as the former, nor will cattle ent it.
I haventh ohservet any other in lndis, to compare with Wilkdenow's cordata, and hispida, they ure probably the same on only varieties of one speces.
3. T'. Mercurialis. Willd. iv. 32-4.

Ammal, wert. rumons. Leares ovate cordate, serrate. Racemes dronping. luner threo leaflets of the female emlys filifimm.

Pee cupallueni. Rhired. Mal. x. t. 82.
A small ammal phant, it is much like Acalypha indira, appearing in flower during the hot senson.
sitem erect. branchy, smooth, abont a foot hish. Leares alternate. petioled. from cordato
 Pelioies shouter than the lenves, chmelled. Rarempss axilary, solitary, as fone on longer than
 pedicelled, femate Hower, and severnt short perdicelled mate onme. disali plowntrs. C'aly.e threeleavel, oval, pointed. Filaments shorter than the calys. Aulhers twoblond. Fmane riowmers. Caly. xix-leaved; the extorion ones oblongr, pointed, concave; the three interion ones linear, obtuse. Germ thre-lobed. Shyle saredy muy. Stigina three-cheth, sprualing. Capsule threecelled, six-lenvel, the axills withont dots at the base.

1. 'T'. Chamelea. Willd. iv. $3 \geq 6$.

Erect, Ahnder', smonth. Leares linear.
Chamaelen folios limearibus. Rumin. Zeyl. $t 25$.
Corli manacu. Wheent. Mal. ii. t. 3 t.
A native of Coromandel, and Malabar, on sladed fasture land.

## HERNANDIA. Schreb. gen. N. 1411.

Male caly. none. Corol six-petalled. Female caly.r rup-shaped, entire. Coral finm six to
 the inflated calys. Seen globnlar. Jimhryo inverse, withont perisperm.
II. Origera. Getert. sipm. i. 193. t. fo. f. 3.

Arboreons, Ieams peltute, combate, shinime, entire. Pamidess axillary.
Arbor ovigera. Rumph. Amb, iii. 1. 123. lu this tigure the tinit is something like, but



A native of the Molucess, mal from thenee introdered into the Botanic warden in 1798. In tweler yems the trees were from twenty to thiry feet hish, with a stanght, smoth trmuk, and incurved hancles. The young shouts of ad deep lucid erveen.

Leares altermate, petioher, peltate, rordate, entire, smooth, of a whime, deep green on
 lenves, rombl, smonth. Stipulex nome. Panicles axillaty. corymbiform, lones than the petioles, all the divisions smonth, lued green. Flomers mumerons, small, white. Bracles, exclusive of the involueres, oblons, nue ut cach divinimo of the panicle. Furolucre fon-leaved, thereflowerd, vi\%. two male and one famale, oblongr, expminer. Mams. Jerianth none, corol six-prtalled; the exterior one rather honger than the imber ome. Nectary, six cherater phats, alternmte with the stamens. Fillaments three, incurved, sub-clavate, shomere than the putals.

 petals dight, the innce tour smaller. all incerted on the ande of the grem. Aectary time yellow ghats, altemate with the fome inmer petals, Germ the perimenth, hut under the corol, nval, onc-cellet, contumine one owhlum, attached to the top of the cell. Style shoter than tho petals. Sligna larere, with a spradiner loberd margin.

For the finit see fiartner's work above quoted, whero the description and figures are both very accurate.

# MONOF(IA TKIRANDRLA. 

SELIPJCLLA. Silitl. yen. N. 111:.

Male calux fonr-touthed. Cural fom-petsilled. Female calyx four-parted. Pericarp a downy unt.
S. certicillata. Millrl. iv 329. Curum. pl. ii. 5. 161.

Jhimeon- Vamols. Fhomers trishdruns. Leaces verticelled.
Inttomi: servata. I!"ild. i. 314.
Trfimy. I'(x)-natax).
It grows in clame, stambing. sweet witer, and produces it = thwers during the mold season.



Bramher shlitary. axillay. Leers. .asile, vetticelled. (from thren to six-fidd) nthong-
 Iary, wasile, firour one to four in the verticel, moth stallar that the femake. Calux; spethe

 ascending. Anth raco las





 nut diawarer.





 finished ercectiag! well.

AL, N\% Sillub. acn. N1. 1410
111. Eso

Male cralys the acalis of the sment, thri, hinwere l. corol from thee in four-parted.
 tho-ethenl.

1. A. glutiniont. II-ild. is 231.



tien A vidit. Hers. vi. $p_{0}$ 3Tis.
$\because$ A. elenea. il




















 Cotyleduns obosate. Reudialm anpertior.

## CRITHCA. Srlurbi gon. N. 1422.

Wale enlyx four-havel. Corul move. Female calyx one-leaved, or twa-ralved. Corol none. Seed sinlitars.

1. L. scalpilla. 13 .
III.

381
${ }_{\text {Cares }}^{\text {Prge }}$ Cares
 larl. arect, "vlindric' ; the male onte rrowhed, short, and in the lower axills; the fembele ones abow and wermully solitary.

A mative of Chitarons, where it is common, but so tar as I know, appliad to no ureful phepase: nor dome it sting, thongh harsh to the fecl. It flowers about the end of the rains, :and the serd riperns in the coot semsan.
2. 1". parillora. Rorb.

Hincems, herbaceons, crect, armat with munerons strong, harsh, pellucid, stinging brist.les. Deares opposite, ovate, lamecelate, semate. Shipules molivided. Fremate spikes yuatern, compunimi, glomerate.
 spms in Marelt, mind Aprit, lout has not ripeled itw sect, owingr, I presmme, to onr plant, so far as I have been whe to observe, bearing only timate thowers.

Rool ramous, peremint. Nems herlacentis, crect, ubont there foet high, and with lont
 With manerons, stronf, wer sharp, char, stinging histles, Leaces oproite, petioled, wate, mal


 ray minnte, green. Calyp of two mpnite pirs of oval hentets. Slamina nonc. Germ oval, style wome. stigmate a pencil of white hairs.
3. I I Inerria. R.
 panieles uxilisery, the length of the petioles.

A mative of Chithang, when it hossoms: in April.

1. L". aliemila. Sigst. Ieq. Tu!.

Anmal, creet while yomm; beamhes hrarhinte. Renees opposite, petiolel, avate, three-


Berhmeria nliomta. W־illu. ir. 311.


 it honsemse during the mins.
liou famms, ammal. slem erect, nearly round, somewhat sembens. Branches from two
 sitc, petiohed, watc, threr-merved, antire, s mewhat salnoms matemeath, langh from one to two inches, Slipules two on each side, acute and shemere. Flomens axillay, swaike, several fimald with one or two mate omes, both somts ane very suall. Mate ealyde to the hase fomcheft. Female urecolate, firom cight to ten-ribbed. Seed osate, neute. C'alyse smooth, shining, of a chesmat colom, with a white bise.
5. V. luberosa. $R$.

Rool tuberoms. Leaves altemate, oblong, three-nerved, hairy. Flowers axillary, sessile ; seed much printer.

Itermanemoria. Rumph. Aml. vi. t. 12. f. 2.
1s execedingly like old plants of U. alienala; and young plants of this are very like Parieleriat efferimatis.

Teling. I'illi-(hmupa.
A mative of the humk of water conrses, hedgea, fe. where it mects with a grood soil, and shady sitmation. It fowers during the wet and cold samoms.

Rool peremish, tuberoms, spindle-formed, perpendienlars. Stems or branches several, ammal, fom one to six feet leng, thaced, resting on the ground, or hashes ; striated, at littlo
 and mand hroader in propurtion, than on the branches, where the are altermate, pointed, en-
 axillary, sessile, wowded. Bate and female mixed, rery sumli. Hase. Sechary apedicelhed



The ronts ane escribent, amd nutritions ; the natives eat them raw, boiled, or roisted.
6. 1. pentandra. Riorth.

Peremial, dithace. laces opposite, and alternate, sub)-ses.ile, linear, small, three-nerved. Flomers axilhny, pentandrons; the male unes peduncted ; the female oncs sessile, with calyx winged.

## Mind. lippiransurec.

Is foud abont Calcutta, growing sumong bushes in wet places; flowers during the rains.
Rool of eapilary fibres. Stem hong and slender, resting on the carth, and rooting ; above erect, scemingly permanal, round, smooth, the intion homehes opposite, and erosis-anmed, the superion ones flower-baring, alternate. Leares the inferior ones opposite, somewhat peti-


 mes occupy the centre, amb expand in sucecosion. The Mate FLowers before they expmad
 margin. Caly.r fiveleaval. Corvi none. Jechary none. Slamens tive, flying open with a re-



7. V. sefliviturosa. $R$.
suffrutionse. leater altemate, lanceolate, honalest at the hated, atire, therenerved,
 d-ntate.












s. $\mathfrak{l}^{\circ}$. mint. 1 . $R$.


 with, its erent=t what b ing ouly ower as ate of from form th the ine hes.

1. 2. alerrmple. Lism.



li not and If d. l. ill lic late.

## Buhturis inte it pit . II id. is. 313.











 adherestor and in wo wit it.

1II. I. Aeter Mythe. If A. is atio.

 bristis












 as in itw whus. Fimale with a cemblitm, tridentate colya.

 hurh almmal- in time, woite glonex, silh-like, strmer tibres.
11. 1. raverentics. lioncts.









## III.

cous. Flozers axillary, sessile, crowded; male and female mixad. Nale ealyx four-purted. Aecherial glandss wate, sulall. liemate calys as in V . I Iuberosa, round its hasio on the outside are, tron live to six or seveln small, oborate, inflated, permaucut vescieles. Style, stigna and seed, as in luhurosa.
12. L. Alectumatis. Rumph. Aml/. vi. t. 2). f. 1.

Shmbiy. letwer altemate, cordate, servate, rugose, bristly. Female spities emposed of alternate, hitarion- ranitications.

Mal. Wann (iattal.
Introdncerl firm the Molncens, into the garden at Calcutta in 1802 . In April 1803 nne



Leares alturnatis, petiokel, emolate, sempate, very ragrese, both sides armed with char,
 what chamelhel, bristly. ctipules solitary, inturfoliacernts. Femate sprikess aillary, solitary, eompound, expanding, largere than the leaves, their branches nlternate, bitarions, and composad of minnte alternate banchlets, all round, deeply coloured, and bristly. Fomele flowers
 nom. Stamina nome. (Jerm orate. Siyle aml stigma single, and villons. Seed solitary, comupressed.
13. U. pulcherrima. R.

Dioecons, shrubbr. Leuces altermate, lancedate, serate, three-nerved. veins retienlate; underbeath houry mid pitted. Syikies axilhay, paired, emmonnd, fromerate, recorved, male flowers pentamurions.

A most brantiful shrub, a mative of Chittagung; flowering during the rains; the seed ripens in the "und seasom.

Stem as thick as uman's lag, vory short, but stmight. Branches muncons, spreadiner in every direction romad the stem. Berei of the ald wouly parta brown, and pretty smoth;

 achto-pointed, threc-mered, with devations on the upper surace comerponding with the pits below, which remder them rourh thomgh lucid. abont six inches long, by one lovad. Peins
 in the midhle of the space hetwern the nemar. Petiales tronn one to two inches long, a little hniry, coloured aud chamelled. stipules axillary, small, scariose. Jule calys in axillary pairs, recurved in opposite divections, compomal, glomerate. C'aly. tive-leaved. Shamina five. fé male spikes on a ditierent phant mal like the mate. Calye of one, two-lobed, bivatvular-like, ciliate leaflet. Germ oval. Style none. Stamina a villuis tuft.
14. V. Sruteseens. Thunl. Inss. 70.

Shrubly. Leaces altermate, shom-petiold, lanceohte, empindate, threc-nerved, with the interior margins surmbute, homry moternemth. hatsh above. Meads axillary, peduncled.

Buchumita firmescems. Willd. iv. 343.
A matise of the mountinus north of Bengal, and Oude, as well ats of Japan.
15. T. ,icolur. $R$.

Shmbis: Leares alternati, short-petioled, lanceolate, sermate, three-nemed, seabrous above, homry nuderneath. Meads axillary, sessile.

A mative of the momatans of barcilly:
16. L. Sphaerocephata. IR.

Shrubby: I, eures alternate, petioled, ollong, townd the apex sermatat, stronsly marked with there equal newes, seabrous above, hoary. except the reins and mervos, maderueath. Zeneds axillary, pardunch, spherienl, erowded with male aud fenale thwers mixed.
17. 1. pianimulatas. $R$.
 and soft with white down maderneath. Stipules in opmosite par's, ensiform. Prancles axillary, short and crowded.

A mative of the Moheens; with the foliage of U . decumana, int a very different infloreseme. The calys of the female flowers in that is thee or fom-leaved; iu this a five-toothed cup.
18. U. lineata. $R$.

Leares altemate, petioled, oblong, entire, smooth, marked with parallel simple veins. Stipules solitury, spathiform. Panicles axillary, the length of the petioles, dielhotomous. Female caly.e nuequally four-panted.

A native of the Mulueas, whereit grows to be a large stracgling slurub, with leaves from six to twelve or thore inches long. l'anicles romposed of mumerons altomate incurvel divisious. wowich with inmmerable, sessile, fenale flowers on their oppoxite matrgins only.
19. U. Ienacissima. $R$.

Shrubly, erect, manous. Leanes alternate, loncrepetioled, broad-cordate, grossly serrate, hoary mulerneath. P'anicles axillay. Flowers in romad fiscicles; the wale ones on the lower panicles and the female ones shove:

Cabose. Marsden's Sumatra. p. 57.
Lanni, the Malay name in the Liland of Pulo Pinang.
A mative of the Island of Smmetra, where it is cultivated for its bark, which abounds in fibres of very great strength and fiueness. In the Botanie zarden where it has lately been introduced, with the view of obtaining its valuable fibres, it grows very luxuriantly, and blos-






























2－11．1．rentlest 1 ．R．
 1monl，dieltoment $11 \%$ ．
 flowerisュ titak tl－lat＊r fart it il ratos．






2l．I．हN sho．$R$ ．









－3．I．स्या’गt its．I？





 rains．















Paje

## 2. M. alropurpurea. IC.

Lenves cordute, very rarely lohute, serrate, smooth. Ament cylindric. Fruit cylindric, dark purple.
11. imbra. Lourier. Cochin Ch. 679.

From China this largu species was introdned into the Botanic garden at Cullenter, where it theres laxuriatly, bossoms about the beriming of the hot season, in February, and the fruit ripens in Ahreh amd April.

Attempts have beer made to feel the silk-wom in lengal with its leaves ; but, so fitr as I can leam, with little or nus sucerso.

Trunk marely more than a tew feet in height, and in our yomer trees in Bengal from eighteen to twenty-fom inches in cireumference. Bar $\%$ wis-coloured, and rather seabrons. Brenches and brauchlets nently ereet, long, simple, mud pretty stont, birk of the old hignenus parts like that of the trank; ihat on the yomger branches nome smoth, and lighter colomeeal; the gomeral luight of mur largect trees about twenty feet. Leaves ulternate, cordiate, servate, anmminate, smonth, three-nerved, with : ghat on the base of the lateml nerves, abmat six inches long, by five lorem, catheons durine the enol seacen; und the new folinge begins to appear with the of wers in Fehrary. Pefoles nearly romel, suonth, mu ineh and a hald long. Stipules ensifmm, chadfy, (adneons. Aments axillary, and below the tirs hemes of the temder
 amother, thongh somet imes they are monoecons, or poly ramms. Mals. Aments eylindric. droopinir. Curollets podieelled. Calyz four-hared. or depply four-parted. Corol none. Filamenls fone, more than twice the length of the calys. Antheis oval. Germ none, but a small conie grame in its phace. Femthti. Aments eylindrie, drooping. Corollets sessile. Calyx fourleaved. Leaflets obomate, appresed to the germ. Caral none. Slamina none. Germoval, ome-
 rather mited at the hase. Shigmas simple, small. Fruil eylindrical, composed of mumerms, wate, achte, onc-celled, mueitorm enpsulas, enveloperl in the enlarged, now sucentent, dark purple calyx. Seed sulitary, with scanty albumen, and cmbryo exnetly as in M. albo. Gerer. Sem. ii. 199, $t$. 126 .
3. In. sermata. $R$.

Arborcons. Leares crenly enrdate, thren-nervol, crossly aud neutely serrate, enspidates rough, Imt roid of pubesemce. Female aments cylindric.

Ifemon of the aatives abont loosa.
Fomud hy Captain Mardwicke wild in the forests nbont Dosa, in bis tour to Shrecnagur. Sec Asiat. Res, vi. 373. Horws. J. 1.

It liffers from all the species 1 lave yet seen in the apices of the leaves being very long and sharp, and lu most of the servatures being remmrkably large and neute.

1. M. Indioa. Willd. iv. 370.

Dioecons, sul)-arhmrous. lectes nvate, cordate, long, taper-pointed, serrate, smooth. Aments oval. Slyles single, half two-cleft.

Morus Iudica, Rumpho. $\perp$ mb . vii. $t$. $\overline{5}$, is a pretty goud figure of this; but Tinda parua
 phis ayperer, anl a tulerably ưut represcritation it is.

## lieng. 'Tixut.

Surs. Toula.
I have never fomm iths tree in it will stata, lunt alwars in marilens, or plantations or


























 the rut fire hia latantr.













 ahout the eloen ot the rainw in rows three fict anduler, and about half that distatace in the ruws.
5. M. Qalariog. 11 ill ! iv. 360 .
 tiunses siml it : ar a sem labitte.










 8 I al rarim यू prixals.







 leaverl, whrging with the germ intu at feshy cowering tor the singhe secel, which is corered

Page planto, to the lootanic Finden in 1
hlossom, and abont fittern fece hiorh.

Tramk stmandit. Bath sumoth, olive-enloured. Branches mamerona。 spreadincr in every








 cid, white when ripe, stml containing manty rory minate seeds.

The taste of the ripe timit is sweet, bit rather insipid.

## MONOECIA PENTANDRLA.

## KiNTHIUM. Schel. yen. N. 1 1:26.

Mrale calyx; common inlricated. Corol onc-petallad, fivi-xleft. finmel-formal. Recenta-
 ed, two-cloft. Nut two-cedled. Liun. siyst.


 seded; alluchmenl inferion: Slyles two pair. Dinpe diy, muricate, twoedled. Deed solitary.
 atianhed to one sible of the cell a little umber its apex. Slyle or rathe rligmu two, subulate, villums on the insile, mated at the hase.
7. J. meniculala. Ru.xb.



Irtica finlicosa. Bunkis's Merburium.
l'erlanils puimms, Rumph. Amh, iv: $t$. Jti.
 planta, to the lsotanic pimben in l7as. Now, July Isio, buth male and femble frues are in Limbryo erect, without perisperm.
X. Indi'um. Кั̈ル. 1/ss.

Ammal, marmed. Leaves reniform cordate, lobate, grossly sermate, dentate,
Sans, Aristlun.
Teling. Verr-tel-nep.
T'em\&. Narlumenta.
A strong, rohnst :mmmal, growing from two to there foet ligrla ; it delights in the baks of rivers, and muhbishy plates, where it afpents and thowers duming the dry season only. It, onght to be compared with X. arientule, for komig thonghthen different, yet I suspect they are the samo.

Stem erect, somewhat sombrons, elonded with dark eoloured spots, mumal. Leares alteruate, petioled, honad cordate, or rather tembing to kidney-formed, somewhat loheds, notela-





 in an interion tunic, it continnation of which, fonm the two long slender styles, which emel in simple stigiuas, Derisperm de. as deseribed by (iartuer.

## AMARANTHUS'. Schivel. gon. N. 1431.

Male calyx from thace to five-lenved. Corol nume. Stamens fiom thren to tive. Fromule calys beucath, from thew to fivo-leaverl. Corol none. Styles theec. Capsule membraniocoms, one-celled, one-sided, opening horizontally. Limbryo anmular, and furnished with aperisperm.

## SECJ. 1. Triunctrous.

1. A. temuifolius. Wrimd. iv. 4381.

Ammal, dilluse. Leetues wedor-shaped, cmarginate. Glomerules axillary; male flouers diandrous, wifh a two-leared calys; the female ones irverghar.

Beng. Jeel Clumili.
Fonnd during the whole year, on cultivated gronnd near Calcutta.
Root perpendienlar, with small latroal tilmes, of al bight pink colour. Stem none, but numerons, smooth, alterantely ramons brameles, spratinir elose on the earth; their length from six to twelre inches. Leatess somewlut petioled, lome werlereslmped, ammeginte, with a bristle in the fissure, ure smooth, and about in iuch long. Glomerules axillary, never termi.





 Bente lane flat |t attan of the cmlas.



 the yenr.













## 

 Cal! thon rev, man lian the 1 .

1/, t. ('h11 th - 1..










 in I rusteat!




Til n! ! ! ! ! - An hat?




 घatur at furiyel ty.














 guinh them ley the ditith of ther atjotive Jorro, whinla man- red. Ite phat figured is



 shortir thom Her rifan caponh.


Pafo than the rugrosc（appanles．

Teling．＇l＇uta－K゙ 1 ・の．
Revg．Kinda－N゙uterys．
The firnre which Willdenow，in his Mistoria Amatouthorum，erives for olegraceus，does
 His inamoenns is mach more like it ；if the leaves were cmaryinale，it womble a very excel－
 India，particularly on the colas of（＇momandel．The most éonspicuuns，after the＂ommon grecu sont，partienlarly refereal to in the abowe detinifion are，

1st．Yerm－tuta Kura of the＇Jolingas，a very beantitnl varicty，with a elear hright red


2ud．＇lealh－tota Kin：t of the＇lelingas；here all the parts that are red in the last varicty are of a clear，shining，whitu colont．

3rd．lios：a or Prdela－tota limes of the Telingas，is a very large variety，which König called A．giganmens．In ar rell soil it［rows to fionn tive to vight fort high，with atem as thick ass a man＇s wrist．＇Jhe tomber sure ulent tops of the stem and brancles are somotimes served np on omp table，as as suls：titnte for asparargus．

The other varicties mor more changeable，and nut so well marked；I will not theretore talke notice of anm mone of them

K．1．gumuf！icus．Willd．iv． 381.
 ornte．Glomernles nxillary，as wall as on sing axillary，：mal compomad，termana spihes． Calyers thres．leavel，which with the bractes are cuspidate and longer than the slightly rn－ gose enplsules．




In the above dethition，I have aimed at inchuling the whole，at least all that have fallen maler my observation．＇Ther，as well as veracess and its vintetins，diftio most eonspicumsly
 their surictice，in not admitting of heing ent，with the hoge of sheremping erops fiom the same root，but are pulled up by the root，and carried to markot in that state．

The varinties are tolerably permment，and litter in eohome chictly，wheh varies from grean，with the slighteat tinge of real，to mfons．liver eolonred，and bright red．One varicty hats particularly broad lenves，with the margius green，and the eentre dark purple．It is a landsomer plant．

9．A．Irenccolalus．$R$ ．
Stinght．Leuras lanceolar，plain green；glomerules triaudrous，axillary．Calyx chagered， longer than the swedled，pugose eapsulas．

B：as－puta unterya，i．e．Bamboolebved amarimith，of the bengalees．
A mative of Beareal．I do not remember to have seen it on the Coromandel const．Flower＊ ing time the rainy samson．
 form five to six fert．Seeres altornate，homreletiohal，hameobar，tapering much towards each
 nellad by the deenreney of thes leaves，and umoly of their length．Cilomerules uxilhary， never any thing like a trmman spike，whieh eiremmstance ahome distingnishes it from vera－ ceus，ami all its raricties．Bracles mmerons and like the calys．Culys of both male and fe－

 styles．（＇rpsule circumcisod，wrinkled．The leaves mad tonder tops are eaten hy the natives in their eurrins．

10．A．alropucpureus．R．
Freet，ramous，foum three to six fect himh．Leares lanepolar，of a deep liver colour，above of a shininir erimson，underneath purple．Gfomemes uxillary．as well as on a glomernte，ter minal spike．Calure three ou five－lenved，enspidate，and longer thun the rurose eapsules．

Bans．puta lal nutecya of the Boncralees who cultivate 1 his sortalso as a jut－herb．It appears to me to bea well marked，very distiuct species，which I have wot fomm nlterwl by change of soil．
11. A. tricolar. Ir illd is. 343

Diret, from tha tutiur feet hifll. Leares npproximate, hrod rhmab-lancenlate, various-
 lits, which are bonger than therempules. Common in gardens all over [udia and China. In Bengenl it is in thower and sent the whole yett.

1!- 1. melarcharlices. Willed. ir. 3nis.












 what -pertien is unatrmint.
13. A. ferint. $h$.

 Whith in -h ritur than the rug or appulom


 or fill $t$ ot paler getan crosming the © it it in la we.

## s以CT. II. P'entmicus.

11. A Jyber lus. Wroth iv. 3ul.



12. I. Jrementae us. Ruchman.















 stamina. 'lhe rivat when with trem tho to thee styles. Capsule ragaee. Seed solitury,

13. A. crentur. Wilud. is. sye.









 ge. wilh ar ile, filly mhmerntes,

Tr 'ag. Blulnt tutal Kura.
Bera. and llime. Finth tuterys.
A very troublusme wred, particularly during the rainy nuld cold sengons.

## MONOECLA HENANDRIA.

## PHAliUS'. Schede gen. N. 4. 11:3t.

Dlale calyx; glume two-valved, ano-fluwererl. Corol; glume ono or tro-valsed. Female
calyser : glu me two-vatred une-flowered. Corol; yleme one or two-malsed. Style singte. Stimma
three: seent sulitary. three: spent wolitary.

## P. Hecculatus. R

 er-shaprot (4)

A native of loulo Pinamer.
Root whing. promial. Reares lifarions, pertioled, broad-lanceolate, smonth on both








 from the bese of the won on the invele, and of about its lengeth. Germ conienl. Style bength of the corol. Sligmeses there, woilly.

## LRL゙COCEPIIIIA.R.

Flomers, mald mad fomale, agergated in a crobular lead, with a common caly of fire

 per perienth from two to thre-leaved. Corollels three-petallecl. Style thre-chett. Capsule superion. tricorems.

1. L. graminifulict. $R$.
I.mres an-ifinm. Common catyr.r five-leaved.

Berlg. (ionti.
The tigure reforred to in Pluckenet, viz. t. 221. f. 7 . agreses well with this species, mat I dontet the possibility of distimbishimg it trom sexamular hy the sempe, particularly in the



It is a commen ammal, in wet cultivated places in most pats of ladia, appearing abome the close of the rains.






 menls no wther than the divisions of the border of the flotets every alternete we bromler. and
 on the mpiees of the divisions of the flemets, blae: Pistillem no other tham a thre in the mouth of the tube. Female forets must mumerms. and whetly in the ciremuterener,


 delieney of the partitions may rember thein persene elonbtful. Nefl anlitury, oval, whixed hy

 more of them than thorets.

Tote. The gempic chameter of Eriocaulon mast have been taken from other species, for this has not the smatlest attinity to it.
2. L. spmethacer. $R$.

Lecures spathition. Common calyr: many-learod.

A uative of the same places with I. graminifolia, nud differing fiom it in the following points mily.

1st. In this the lewes ure sharter, brander and embating from three to four culms, so that they :ne more like common spathes than leanows In that they are simple, swemd-rhaped.

2nd. In this the common caly $x$ is composed of ahont twins, leathets. In that tive leared.
Besides, in the specimens of this which I have ramined. the seales of the heads of corollets are naked. In that they are cluthed with small delicate, white filaments.

## COCOS. Schirb. gun. N. In9?.


 lobed. 7)raperemiae emo. Fintrom in the latare of the perisperm.
C. Huciferd. II illd, iv, Jü. Corom. pl. i. A. 73.

## 

Tin, II. Rhe cet. Mal. i. t $1,2,3,1$.
Cal:ppat. Rumph. Ani, i. t. 1, 2,
Nerinla. Asint. Res. ir: p. 312.
Nime. Ninikita, Nirrikuluc.
HIMd. N:rrul, ar Naricl.
Beng. Namikn.
Gin:-Nucitim. Iinn.
TV ling. Nari kithlum, or kiohri-('luelloo.
T'm. Telisal.
Thin twe in the woll known to require a description ; it- Lemeric character, that of the Fan Indies 1 mam, (thet of the We-t hadies may he lifficut.) differe a little from the de-

















 The uncs of this tree athe it, proture ate num ruma, ned well known.

## 


 Urepe ©


 a rounlish entur of om an I bras.

Milmein. Ruly, fob, i. 1, I.

Étus. (imevahti.
(inticl. Isint. Res. iv. p. 312.
Ters. and If ad EMpura.
Arib. Fixlful.
IBr. . (inht.
7 Foaf lahi challo.
Wh to thin tre frewa will I cmunt say from my own olsactation, but it is cultivated























## Page

 tach


 and with combryolerlfoul in its bery bane.
A. A. gractio.s. th.
 minal pair premorse, fipedix axillary, simule, retrolimeted, with thower: on all sides; male polyambuns. Soed oblonis.















 thow pinted, seareely so long as at thed hean; the fibrons pulp covered with a thin, smouth skin. Seed solitary, ohlong, with the bise a little obligne. Fultument single, brown, sume-
 Arecte. Perinperal coulum to the seed. Einbingo simph, usiate, ludged in the base of the pee

i). 1. detetetere. Rorath.



















## 





Ii. ( 10 Latan f. 3 .
$\boldsymbol{I} \boldsymbol{r}=1,1-3+2$






## WんIHITE 1 R.






1. $11 . \operatorname{cr}$, $\therefore$

































Page M.1).f.lR.s and Precident of the ('ollege of lhysieims of tidimbugh. The plant formerly Ed natued after this emineat Plysician mad Botmist, being fomed to be a species of Blakea.

## SlliLSS Arert.

Spathes manys, Spadix (terminal) superdemmpound. Mone caly.e there-tonthed. Cornt

 seales. Sord senlitary. Embryo lateral.

1. ㄷ. inermis. $R$.

Artorens, unarmed. Embryo lodgel in or near the apex of the sed. Leares pinnate.
S. Lavis. Rumphe. Amb, i. p. 76 .

A native of smatra mod bomer, and of the I-tands betwem them; growing spmance nusly in low swamplands. From the pith of the thee the gramulated sirgo whell we meet
 (Lazin-tuni, of gemine Sage tree of limmphas.) See Herber. Ainb. i. p. 7J.
2. S. Rnmphai. I'illd. iv. ANA.
111.

Arbownes, armol, with strong straight spines. Seaves pimate.
\&. farimifera. Gark stem ii. p. 1s6. 1. 120.f. 3.
S. sive l'alma farimaria. Romph, Amh, i. p, 7: , t. 17, 18.

Sugo l'ilm. Annals of Botany, i. p. 193 1. 1.
A hative of the l'eninsulu of Xabacea, and the Malay lelands.
Like the Bamamand Phatain it propronter itself liy suckers from the roote of the old trees, the sed is therefine in gemeral abortive. This, the Malay siaro Pahn, is the thee, the pith of whel is the staff of life to the inhabitants of the Moluce:s.

## MONOECTA POLYANDRIA.

## CERATOPITYLLUM. Willd.

Male caly, many-parted. Corol none. Stamina siviton, on more. Female calyx manyparted. Corot none. Pistillum single. Style sulnlate, XTut one-seeded.
C. revticillatum, $R$.

Leaves rerticelled, twiec dielintomous. Leaffets of the male calys bidentate, of the female one entire. Style twiee ns long as the germ. Fruit three-homed.

Beng. Jhamji.
Found in pools of sweet water in the vicinity of Calenttin during the dry season.
CARYOTA. Schreb. gen. N. 1T01.
Male caly. threc-leaved. Corol petalled. Female caly.x and corol as in the male. Cerm superior, thare ecelled; cell.s onisoseded: allachmant inferior. Stigma sub-peltate. Berry from one to two-smeded. Eimbryo near the wertex of the perisperm.
(. urens. Irilld. is. 493
[narmed. Leares hipinuate; leaflets nltermate, wedge-shaped, obliquely premorse.
Tring. Jeerncroo.
Suguaster Major. Remmph. Amb, i. t. 14.
Sichunda pana. Rheed. MLal. i. t. 11.
A native of the varions mombanous parts of India, where it grows to be one of the largest mal most elarming of this bentifnl tribe, or matural order. Flowering time the hot and rainy seasons.

Tramke st might, nften sixty feet high, thick in proportion, enlumnar, and marked slightly with the mmular cicatrices of the petioles. It grows alout us fint as the enemut trece, when
 oblituely promorse; the premorse part mulh jaged with sharp points. Spathe namp-leased. Spadix pendutom: fiom six to sixteren feet long, lamely; branches simple. from four to cight feet long, pretty thickly cosered with immmernble sessile thwers, amd these most reankily dispowed in thees; one male on each side, mad ansurle female het wem them. Thate culy.x threeleaved, eup-form; leaflets unequal, concave, of a very firm texture, permanent. difals thee,
 whitisls on the incide. Filaments numerons, very shorl. Authers linemr: Femate flomers on the same spadix. Caly, :mul corol, as in the male. Flamens and nectarial filaments thee, between
 threesided. Style none. Stigma small, two-eleft. Bervy rommelish, mecelled, of the size of a momeg, eovered with a thin, yellow, acrid hark, but nothing that deserse the name of pulp. Seed or mut gemerally solitary.

This tree is higiny valumble to the matives of the comitries where it grows in plenty. It rields them, during the hot semson, an immense quantity of todly or palm winc. Elave heen intomed that the best thees will vield at the rate of oine lumbled pints in the twenty-four hours. The pith of farinacems part of the trme of old trees, is sail to be cqual to the best Sugo ; the matives make it into bread, and boil it into thick gruel : these firm a grent part of the dict of those people; and during the late faniae, they suffered little white those trees




 Wack at the peri-perin.
$\therefore$ Rtwini. Rowb.
 t. 13.

## Sunu. Matisiten's Mistory of Surnation, p. Ti.

## 

## 















































 fiknt the mintho of the intesior enver of the p orimprons.








 terial of which corlagr: is made is tiurape.

Pugo







 converan and furnishool with is peri-perm.



Justmas Cremivium. Lowtien. Cinchin C7. 702.
Crotom melncerezum. Il"illd. iv. 501.
Beng. Abroot, whieh is al o the name of the emmmon Wialnat.
 comentres. Howeriur time the hot seasm : se l rip in Angot.






















 veins within, lext to the mut, of in rillowish colome. Fiucleus conturn to the cavity of the


The kemele taste wery much like fien Whants. and are reckoned wholesome; they yed by expression a harge pertion of very pure, palatable oil.

## . 7 YGL. 1 NiS. Silicel. gen. N. $1+46$.

Wale caly.r a one-leaved seale. Corol none. Sliumus cighteen. Female caly.r four-eleft,
 ferion'. Tut semi-quadrilucular: two-villeal, omescoded. Embryo inverse, with little or uo perisperm.

1. J. regia. IFille. is. 4.55.

Ieaflels alont nime, ovate-oblong, suls-serrate, nearly equal. Fruit globular.
Beng. Akroot.
Arat. Jown, or Shai Jir Jown.
Siths. Ukehailu, also Kimulurala.
A rative of the monntainoms combtries immediately to the north :met north-east of Ifindonstan, on the plains of Bensal, it grows pretty well, but is not firnit tul there.
2. J. plerveocia. Roxb.

Leafle fiom thew thinteen, lanceolate, smonth. Paneles axillary and terminal. Fufs unecuatily but : 1 mply winged.
 cower the hifls the thorth and cast of that provine : athl grows to be a tree of emsiderable magnitule. The wood is of a light cohme, and used by Tmmers. The batk thick, dark hoow, prosesing much tamin, mulis reckoned by the nativer, the best they are acyminted with tor tamine. Flowering time May.
 twelve ineles long. Leajlels from thate to tour, or from tive to thintern, short-pet ioled, obliguely
























## 




1.





















- hin




















 verer in the hr folus.

Pase
Carey
Ed．

 the ontsille．

Itrer．a matice of J＇nlo l＇man！






 which is now surtomuled with several eolotred belts．

4．（．）．murianter．Ro．rb．
Tender purts villuns．Leares ohlong，entire．Frmale spifies axillary，ume laternt，the leneth of the leaves．Acorn sphericat，two－thirds hid in a tumbinte，murimated cap．
 W＇ales＇l－latud．

Foung shoots romat，wht cluthet with short，rely soft brown pubesconee Leeres smb－


636 Cup turbinte，maned with many concentric riugs of small inoflonsive，achte points；henco the spereitic Himme．

5．（2．（milhintala．R．
 paired；the dower prirt orernpied hy chanters of lemale fowers，and the upper part ceow ded with


Bansom liatama，the vernacmar mame in Chittagoner，where it frows to be hare trep， but its wood i，used for find only．It flowers in Nay；and the acorns ripen about the close of the ritils．

Fonus，shoots void of puberener，but somewhat seabrons with sinall white specks．J．enves







 refled，with one ovulum in cacla attaclad to the top or the rell．sheyle slurt but thick，and giving suppert to the cally ：And stamina．Mlimans three，crlindrice proading it sittle．Int
 row bise of the nut，rugese．Embryo inverace，as in the gremis．
（i．（Q．$\quad 1 \cdot \| m$ incler．$R$ ．
Leanes ohlong and broad－hanceolar，antire，smootlı．Spikes axillary，solitary，simple．Nuts ovate，smonth．（＂ip）sameer－shineed，prickly．

Ifanter cola lsitana，the vermacular name in Chittagong where it grows to be a large and wsefind timber tree．It flowers in Ahy，and the acoms ripen abont the elosi of the runs．

Joung whouls somewhat villons，Lpures short－petinled，bromblancentar．erntire，nemmi－ nate．smonth on both sides，from six to twalve inelps long，by three or fomr bromd．Fenale
 with distinct fomale flowers．In⿻日禸


 jectiner slonp prickles，cmbracing about one－fonth pan of the nut only．Eimbryo inverse，as in the gemus．

## 7．（x．limpmeen．Roxb．

Leares lancoolar，cutime much acmminated，downy underneaflı．Spifes axillary，solitary．

 of the province，it erows to be athere treas and furninlues the natiots with strong wood in
 time December；\｛lw sombs ripen in tho sompenler following．

Foung shoots densely clathed with very soft duwn．hemees altermate，short－petioled，lan－ ceolar，entire，much acuminated，nearly sinooth above，tomentose nudermeath，fiom six to cight incher dons，by abont two broal．shipules very downy，mul finling early，Spifes，os aments，axillary，solitury，nearly as long ats the lenves，slenter，very downy，sume entirely ant densely eoverel witls sinall yellowish，downy，mule thowers，others epually erowded with mate

 five－pated，downy．Corol nome．F̈laments crencrally ten，insertel romad a woolly gland，two







4. Q : f" d/ /. Kur).





 andic litly $-1 \mathrm{~m} \cdot \mathrm{i} \mathrm{l}=-\mathrm{i}$

















## 4. \& $f \cdot R$.



















 inoll \%. $h$ sh st uner.

11 (). centr ne. R.






[2. (1 $\%$, mavia $R$.


 uit कt 1 .

$$
\text { 13. t) dep }+ \text { a } \mathrm{F}
$$






It '? le dre: R



1u. U. sewtivers. Li.

Page



A harge timber tree, a native of the momatas in the vicinity of silhet, where it is callect Kamkatha; there it flowers abont the begiming of the hot senson, and the sed ripens ins luruit.

Brok of the yomg shoots smonth, hued green, exeept when jnst mifolding, thin, chothed with a soft, ferriginons, woolly substance. Leates sattered abomt the emb of the twigs, petioled, hanceolar, with the anterion mangin remotely and acmely sersate, the npex acnte, tho testure hurd, and polished, ame the reins simple and pinalhel, from time 10 eisht inelue lomer,


 base only is culnated by the thick, hard, villous, satucer-shaped enp. Embigo inverse, withont perisperm, as in the femis.
16. (1. servalu. Willd. iv. 131.

Foung shoots densely chothed with ferruginous down. Leares ollouge lucid, honry under-





In this speries the yombs shoots are sery omphetely elothed with unch soft, dark brown down 'the leaves very hard. with wer manerons, simple, and parath weins, cach temanating in a sharp sermature like those of Dillenie spectusa; some few are now and then sharply laciniate. wen bubate.

Spikes termimul, sub-pmicked, consistiner of muly a few distinct mule and fembe, downy
 as in the other speecies. The neorn I hawe not yet seem.
17. (. incether, Roxh.

Lemes cordate-oblonef, firm, remotely mad neutely servito, smoth above, hoary maderneath. Ahele mments pamiched, shartere than the leares; flemers pentandrous. Acorns ovateoblong, half hid in in sul)-rotnud, soaly, tubereled eup.
 north of the phans of Jhadomsham. I short aceomt of the tree is given by Col. Hartwieke in his Jomrney to shmemarm. Asiat. Res, vi. 37 t.
 remotely and andely serme, of at rigit texture, smonth ubove, has? maderneat $h_{1}$, firmu threo to six inches lons, and from one to two brond. stipules and bractex limear-luceolate, minbranacouns, caduenns, I/ale aments filitom, mumerons, forming small, terminal, or axilhary panirles. C'aly. from fom to tive-deft, and ciliatrs. Stamens tiom fom the cierht. Femate peduncles axillary, hatemi or terminal, very short, fromone th mand thewered, three semm the
 erowned with part of the remaining style. Cup romulish, imbricated with small tuberched scales.

## CASTANEA. Sched. gen. N. 14.48.

Mate caly.r none. Corol tivo-pretalled. Stumana from ten to twenty. Female alyax from
 tachment inferins. Stigmes penciliform. Nuts from one to threc, inelosed in the cehinate invohere. Fmbryo inverse, withont perisperm.

1. C. Inticte Rooth.

Lerees whons, ante, mueronate-sermene, pulished above, hoary maderneath. Aments substerminal, panieled. Fotoeres polymmons.

Nikari, the vernacnlar name in sithet.
A small tree, a hative of the hilly fiomtier districts enat of Boneal. It fowers during the
 wards. The kernels are caten ly beth natives and Entopeans, and may be compared to indifferent fillerts.

Truik tolerably strairght, growing to such a size as to monit of the wool. which is of a good puatity, being nsed fire varions purposes. Branchlets downy, Leates alternate, shomtpetioled, fiom obloner to broad hancolate, acnte, grasily mucronatesemate. poli=hed on the uprer surfiec, sote with brownish down madernenth; ceins simple, parnhll, and equal in mum-
 long, by from two to fom bromb. Stipules ensiform. Aments or spikes, terminal and asilary, pmiched, alternate, titiform. downy, these with male flowers more humeroms, those with leve

 longer than the caly. Anthers" romuldwal. Hermethedite flowers wememy solitary, and


 closely embraced on all sides hy numerous hainy sealey. The must exterior of which are broad;










 Ilumula two-loloml. II adicle own, supe riur.
2. ( . pumits. Hild. ix. flis

Chin. l'ur lot.

 deacy to blowsom.

## s.|nlT7.1RI.1. Schinle yrn. N 141


 conduplicate, withan! | ri-purm.



















 प्llow जnt ar.



 amy now is mate of the imiti in thacal.

 and verticillul: is wers la vamithas.
















 it is nefical to the bit tom of the trupe.
3. $\therefore$ emedifolion fiow eh

 patt of the reith.











 sis to ten, athrommting : firn abortive ermas.

## 







 yellow: segmenls ur stigman apiral like the lusms of a ramb.
2.13. lucinisfa. $K$.



Br i!\% Iloosijo.
 rainy seanoll, the scots ripell in 大overmber.






 Filuments mather short. Female grom infirim; wval, with two narmw and ome broale wing,



 and whtu-c: threw-('llial. as in the serm.

## 3. 13. aptera. R.


Fonud by Colonel Hardwiclo on the lalaml of Manritius. Wo ays it is a large spreading slirub.
 in vét stacted wouls. L'eduneles axiliary, sulitary, biflil, calch division thex-flowered; the



## MoNOETM MON.LDERPMIA.

## A/P.1. Sherl. gu I. Itilli.




Ni: ti ! it if ; 1. lij




## 


 Sinti. alrimenal 1.


 A+-10x *T= $14+1$

it in
















 $1 . t=\mathrm{tm}$.
 (11)14:












 2tr. 1 .nti.










$$
\text { roplidistrs Nikmb.!!m. N. } 14 . \mathrm{F}_{2} \text {. }
$$

Wut ealyr, the cal of the bame Corve nam. Anthers four, sessite; without filaments.

Page Female caly.r, the seales of the aments one-flowered. Curol none. Styles none. Stigna, cumcave flots. S/robile with murnlaw nut.s.
C. sempervirens. Willd. iv. 511.

Larases imbricated; twigs quadrangular.
Chin. lemm lin.
Hind. siuras.
The upright variety is a mative of China, and of the northern mountains of Indin, and Persin. It iloes not thrive on the plains of Bengal.

## TIIIJJA. Schucb. gen. N. 145\%.

Mate calyx, the scales of the mumb. Corol mone. Stamime fone. Femate cuty.r the sales of the ament. two-flowered. Curol nome. Pistit none. Nut one girt with at membranacesus wing.
T. orimetalis. Willd. iv. 509.

Strobiles spuarrose, with shump seales. Branchlets ancipital.
Chin. P'ien lia.
From China it has been introduced into our garden in Indin, where it marely grows to more thau cight or ten feet in height, is very mamons, and spreads nearly as much the its height.

## P11YKLAN゙TIITS. Schroh. gen. N. 1112.

Male calyx from four to six-leaved, or fiom fun to six-parted. Corol mone. Nectary

 sule* three-celled; cells two-sected. Embryo inverse, and furnished with a perispern.

## SECT. I. It ith simple latrocs.

1. P. madraspatensis. Willd. iv. 575.

Ammul, crect. Lecres alternate, narmow-euneate. Flozers axillary; male monadelphous anthers three pair:

Teling, Nibla userekec.
Is common, with 1 . Nirnvi, in gardens, and coltivated ground. Plants constantly succeed one another, and flower most part of the year.

Root amman, though smmetime it lives nit the seeond year. Stem straight, in the obtest


 the rest wedre-formet, smothe, cmtire, somewhat pointed, from half an inch to two inches long, and from one-righth to half an inch bromb. N(ipules two, lateral at the cordate hase, pointed, withering. Flomers axillary, always one female, and fom two to fom on tive males, gll are short-pedumeled, but the mate shortest, in the flowering time erect afterwards the male
 single. Anthers there pair round its :pex. Female calye and nectary as in the mule. C'apsule three-celled, six-valwed, with two meds in cath cell.

Taste herbacenus, with sume dergree of astringency. Cattle ent it.
2. P. simplex. Withd iv. 573.

Peremial, diflise, bramelies tlattened. Leares hifirions, lancentate. Female flowers lougpedunclen ; male sessile. Anthers thee pind. Female mectary it twelve-tnothed calpule.

Teling. lechi aserekec.
Like the last, it is a native of dry cultivated gromed but by no means so common. It flowers during the wet and cold suasons.

Root frequently peremish. Stem somewhat woody, ohligue. Branches mmorons, diverging from the hase of the litule stem, sureading closely to the earth, with their upiece aseemeing, many time longer than the stem, striatel from the insertions of the leaves, whelh rives them a compreshed appearance. Leazes simple, altermate. spreading, bifarious, wsile, linnaly lanceolate, smonth, entire; ubout three-fourths of an inch long, imel one-fourth brad. Stigules two, obliquely-cordate, withering. Flowers, mater mad fomake mixed, axillary, gencrally
 Calyx as in the last speries, except that in this, there are three rlistinet filaments, imited at the base; and the female nectary is twelve-notehed.

Note. 'This phant agrees so well with Retzins's l'. simplex, that 1 dare saty, they are the same; he muy have changed König's mame, or lionig himself may have changed it from simplex to depressa.

The natives use the fresly leaves, flowers and fruit, with common seeds, and sugar. of each equal parts, made into an clectuary, for the cure of cronorrhear ; a tea-sponfinl ib wisen twice in lay: The fresh leaves bruised and mixed with buthrmilk, make a wash to cure the iteh in children. capsut throwteft.

Toling. Cserckes.
I muw, sumblat hernbly plant. growing mader the flelter of other hushes, and trees.





 com natie the changr is with me uncertan; if it cath, they are only varicties of the same plant.
4. I'. abrevitutus. $R$.
shrulh, urect. Lones simple, alternate, cuhb, ike, obrordate runeate. Flomers axil-
 dulburs : s .












5. $1 \cdot, \cdots=12 \cdot 1$.


 the whene vear.














 suh-o lin tric, साp hior.
it i- at all time a madome -homb, hat whin its mumerons pure white, pendulons ber-







 and a enverl insortal euthros.

 dry, six-4+4 $\cdot \mathrm{d}$.








 alteriato whithe insertion of the tilatents. Filaments fibes lunger that the calyx. Anthers
III.

## III.

Page






7. 1'. riousms. W゙illd. iv. jos.



 during the hot, and hariming of the wet semsen.









 in each cell.

 easily talieu.

## SECT. H. Leturs pimute.

8. 9. Nireri. Willd. is. 3sis.

Ammal, erect. Lerethts oral. Fromers axillaty, pedmeded, one or two male, and one femate. Compsuces month, throw-ecellemb.

L'rimali:a Tarlica. Zuwrim. Zayl. 1. !3.

Teling. Nolla naserekee.
 tivatert.








 as in the mald. C'apsules smouth, mubilicated, mpeninge with an chastic jurk, thres.celled, sixvalsed; cells two-sededed.
 the fresh mont prowe an wedlent remely tine the denudiere. Ahme half an omene, while fresh,
 day - withont amy sensihh aprention of the mediene.
9. P. urimeria. Wrilld. ir. Est3.
 litary in the inferior: Chupules subrons.

Tsifull Kirgmeli. Rheed. IV.I. x. t. 16.
Brag. and Ilind. H:zar monee.
Teling. Verra uncelare.
This when yomer is like Simuri, craws mader the shade of teres. It thowers during the wet and cold seasons.








 striated on the ontwide.

Note. It is inmediately distinguished frum I'. Ninure, ly its sessile thowers, and sombrums
capinlus. Yountr phonts are der!!y finemd with durk, dull red. Catile eat it. Hhe taste herba cevil-
10. 1'. branciftion ais, Hficil. iv. Siン?.
 termimal. Bervies nia-teleal

 flowel's ath ilf yer rembl










11. 1', /., alt la.t.



## fir if. lt. 's lies.


















12. I. ither th IVI! is st
 sditar!. 10 neetory.
 man.l.!.
















 I elictl: in that thre tin? are - male.
13. 1 . pheteolit is. $A A^{\circ}$
 gulers wh the remmom petioles.

11. I'. mullinlones. II ild.
 Grex-il I mertoti *.


Nisuri. I'socd. Mतl. ג. 1.27

## Teling．Silla－purvatronelen，



















1．5．1＇，ritis i．hed Kime Mss．
 neetatics 111 style Berries stecththat．

lient．Kienterte derk＋e：



 all the yomernat．













 fretty apparmere．

1ti．P．I！It，maturs．Fïn．J／ss．



B＇min Nironti．Rhed．Med．i．I．I＇3．


















17．11．गeltas．$l$ ．


 Hent（at！！．：

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in is $n=\cdots$




 at1: 1, 11 in in i, 1. Io imes






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 mit ! ! $\because$ 品








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 firm: 1 a $\mathrm{l}^{\prime}=1 \mathrm{l}$. ' 1.



- 1 . * \& $A$.



 thent ite in, rail 1


 he
 - 1




Pago
any.



 ceons. L'erisperm enntorn to the swed. Embryo inverse, cirved. Culyledons ohtong. Radielo cylindrie. suproion.
21. 1. strictus. R.

Shublby, smight. Leques pimate' ferflets fiom, wate obloug to limeabate. Recomes





 abont two inches lomg, and soaroly whe broad. Racemes leatlet-avillary, sescile, solitary, short.








 at tup, encered on the indile witil : white theshy aril, and by it allixed tu the rentrad receptacle.
2.2. 1'. Embliere. V"illd. ir. İs7.

Arbormus. Lentes bifarions; lemfels mmmenoms. Floweis axillary, and below tho leares. Caly.r six-leaved. Drupe with a there colled mat.

Nilicammaim. Rheed. Mal. i. t. iss.
S゙ans, Amlaki. Su - 1 sial. Res. iv. 308.
Mind. Amlue.
Bramy. Amila.
T'a, N. Nellelai.
Myrobalan:1 Eimulica of tho Materine Mectica.
Telling. [ - יrokee.
A protty lamen tree, fommd cultivated in mast parts of fmin, and also widd in forests. Flowers during the begimuing of the loot sesson: finit ripe in ciorlh of nime montlis alter.





 merons in the sxill: ot the lower lestlets, aml ronnd the comamon petiole bulow the leatheta,






'The wond of this tree is hard ath durahbe puticularly mater watere 'The burk is strongly
 timesthll



 drous. Drupe wilh il iomporelled mut.

Cicea divtichas. W"illd. is. 383:.
Nili pumli. Wheed. Mal. iii. 1. 17, 18.

Cieng. Satre, Noli.

Avorinha acids. Limn. sp.pl. 613.


























 nallus. licerker.



21. l'. /lire dres. R.



 lurr.

















## 









 tho , reme















Pace almat the s.ative -i\%.


 speroites.
3. A. pilosere Willd. is. 50.3.



A mative of ther Al elece:s.
I. A. I!ment merl. $l$.

III.

697

 in laving lut ons fomala flaver in th involaroe.
5. A. chinen is. $k$.

 muricated.

 cember.







(i. $\lambda$. confiovir. $R$.













7. A. cylindicue, Ruxb.

 and male.



> CliUQU.. Schrib. yen. N. I ffi..



1. (¿. mivegatum. Willd. is. हist.
 sinall, racread, ohversely reuiferm preals, and twenty of more diatine stamems. Styles three, undivided.

TSima mav:am. Rheed. Mui. vi. t. fil.



 the fro vincoties of the same specite, lewedfter to be mentioned, where they hissom about the berinning of the rains in dume.










i is : !

K. 1 , 1



11


















 (4) 11t

1. $1-11.1 .1$ - 1 .

1, int in l, :H1. 1. ti2 jl
$1,4,0,0$.
 hlth then \#li..



 fit $1, \mathrm{l}$, 名
 it $1+\frac{1}{1} \cdot \hat{r}$

 pli $\quad \therefore \quad i, l_{1}=1$ (
$11 . i \cdot \pi \cdot \cdots 12$.



$11=11=$

## 




 $1,1+1$ y




III.
is 1


 of líwinns communis, but much :mather.




7. ('. Tiglimar. IITlld. is. Lis3.



lliml. Jannal ! mata.


It ermest to be a suall tree from tifuent thenty feet in height, in the Company's







 wit the crevilu.


 nomotic animals.
$\therefore$ \&. II electur. IR.



A native of the thultecas.

Shubla, often sambent, ceery part seabrons with stellate pmbereence. Ieapes cordatesurate, two pediedtel thank muler the hase. Racemes terminal. With mate flowers on one,









 fulablate, one thowered. Flomers small, of a dmll pellowish green colour. Shate callure deeply
 tive wellow erlands, altemate with the pretals. Shamina mumerons, ins has as the petals, in-


 hase into two lons, filifinm, hairy, varionsly contorted segments. Cupsules flypurems, tricocens,






 Radicle oblonge, superion.
10. ('. olifony!folinm. Roxb.

Arborems. Lames whborg, serrate, two glmuded at the base, smooth. Rucemes terminal. Tetals woulty. Fifanems twelve. Cupsules romut.

Besty. Buragacl.
I -imill trer, common in forests abont ('alentta. Flowering thme the beriming of tha hot sisisuln.

T'runk straight; bark ash-coloned, and pretty smoth. Leares petioleal, altermatu, and

 with in lateral glamd om each ide of their apioce. Nlipules small, eaducoms. Racemes teminal,






 rool l． 1 ：ira， 11 ．




 N：11 1.11 I．i， 11.
















## 







If ，it，blation is
$T \ldots$ ．．．．







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 ev 1 Inrat－ 1.

Th＇l tí！wh ：


























 Emberys, ar in the other Éuphorbire.




 think them dithivent sinerik.






1. K. comatais. W"all'. ir. obl.
J.ares peltates sub-palmate, sormate. Fruit prichly.

Srus. Branula.
Teling. Im:dum.
Jimd. Areud, Irendi, or Arindi.
Fieng. Blatenda.
()t this sere natini plant, we have semenl varieties cultivated in Ludia, some of then groning t, the ize of in petty linge bee, and of many years daration; I lave not setu any varicty with smowth fruit.
 achons of the Limmocen siociel!, rul. vii. p. 1:3.
3. K. mafpu. Linn, sp. pi. 1130.

Hionems. Lperms prlate, (wodate. entire, atcute. Spikes panicled.



 flower-in July.









 biartal. retlexed. (orobl neme.
3. R. 1icurreles. Rosh.




 from ipril to dmue.



 but be the time Hay are full-arown, sumoth on both sides, with a chaster of smath, dark co-













## 







 ceons．

## Brag．II ，The



 sporli！










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## 2．$\therefore+1+1.1$

 amdroe．


13 \％．H． 11 －（＇hint．


















3．－in i riones．Ifint．

 （al！x．

I：位り．I：liki．








[^27]


111.
 incher lones.

Sole. In some sperimens I hare found the mate and fenale flowers on the same raceme,




 valvel. seed sulitury.

## 1. A. betconlumi. $R$






















## 








1. 13. mulliloculteris. Rosto.

















 atent in inch in dimmeter, depmesed, with the :









 diadime celindrice peintine direetly to the mabilichs, vi\%. interior.
1. II. Iancoolaria. $A$.
 axillary, the mate ones manerans, and long pedmetal, whe fomate unes few and sessile. An-

























 818 1
$\because 1 i .1=, i l$



 tin! ! !






$\therefore$ is h a 4



2. If it , li.
 tha it i the éal ir, to - - lisit.

I' $=1=1$ 1 1











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 (n) it it i. th.



\&. 13,1 1, 1. $x / 1$



 coun 14 , 1 Hi ot in yeati,











 rally whe to eath division of the pericomp.

It hats the habit of a Phyllouthers, hat the natural charater is that of Bratleia.

## MONORGLA SYNGENESLA.

## 







Beny. ("hichin_ra.

Wheh cultivated in the warmer prots of isia, for it- frat, which is misersaly ceaten by

 Ancply divided, mad the fruit longer than those of the nontheren jarts of India, but in other respucts thes are tior matuc.
2. 'I. बisered. $K$.
 scahrons; hoth male and fiemale thewers solitary.
susts. P'utulika.
BFay. I'Mall.
Mind. P'ulwil.
This is loy far the most useful spectis of Tirichosanthes I ann get accurinted with. It is
 of C'oromiturde.






 fons horder. The umipe tinit and $t$ nder top) ane much caten both by Luroperan- and antives

3. T. cmatimerime. Hilld. is. (itw).
 Jhale flomers rateomed : femole onces solitary.


A pretty extm-ive climbine anmat, a native of ledges, de. where it has shedter. It flowers during the cold satsont.




 diameter, till ripe striated with white and green, whell ripe red. Somels involnd in al red puld, lohate.



1. 'T'. Molvale. Ro.r').

Pomues lincar whlones, smontli. Leates downy, from five to sevem-lobed; lobes scolloptouthol. Wate thumes ramernel. Feinate solitity:

Bron!. Bun-clicthing:.

 to seven-lubed; lubes ubuvate, scolloj,touthed, of a suft downy texture; fiom six to seress


 rul 11 illu-

i) $\mathrm{I} .1 \cdot \mathrm{rl} \cdot \ell \mathrm{I}$.






## 




## $\pi=\%$. If hbal

$\tau$ ! . K hi ravk.









 thon h alei
 se if the 16 .
 ds sery molls.
7. 1.1, mil $R$

 Huc! is $\rightarrow$ |

























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Page














 costic：inforius．

## 





1．N．（1／trmatiar．Hilld．is．file．

 noteluct marerin
l＇inlli－p：acill．Phevel．Mul．siii．1．I．

Beッサ．К゙ovilla．
Tramer．Komells．
C＇ultivatod in all tho wanomer parts at ．Asia for the fimit．Wharl the matives eat，white


2．．I．mercealre．II ：illa．iv．（ille．

 แurtrin．
l＇avel．Phrial．Mrul．viii．1． 10.
Artlls．A゙ゅmavi．
Ben！e．（Juclls：l，or Ouclii．
llimi．İu＇a kosila．



3．：11．memedelwhet Fork．
 smoult．



şonges．Vimber．

Bryoniat Ifomlis．HV̈ll．iv．61\％．
Telin\％．Kaviomela．
A mative of＂xary heder in the commtry，and semme to thrive equally wrall in every snil． It is always diomamis．












709 ＇Tlu ripe truit is raten raw lyy the matives，mul while green in thoir currics．Crows and uther hirels are fond of thern．

1．M．dioeres．II illd．iv．605．

 ricate，buraliner．sede al fis．

Bell paral．Iheed．Mal．viii．t． 18.

This: run on. Flow ins lian lhe wellol éull - \& \&











 prourls
j. N. Nirfa. I? , eth.




A! 飞. Kenlı.
fl l. k lr, 1.
Bi $\therefore 6$ thetw.
Mni if lin i i $n$ in Zearier. Culise, T. 3.


 sim, . L.any


 flosi *ise



 female culys amd coral ditit the in ale. f'stillum in in the cenus.
fi. M. wiabellatia. R ab.

 s=l 1,111 !.
f! liv, lat.
$\|$. A1. .in ler 'lumi.




 laticl






7. .11.t, $, \ldots, H_{1}+$


















## 


 fallingen de cony of a lid at the apre.




Petolat. Rumpht Amh. 1. 1. 117.


Benef. Doematrol.
P'urula Kimeli and Titu pertela, a wikl varity.
I ling. Nmi-beril.












 watect.

 hats of the mative met which the phat - man.

 clublnal, with tan sh:np rillace sic/s pilted.
(Guchmis acettratylus. If illd. is. 612.
Pivimbt. Phed. Hal, viii, t. 7 .

I $\cdot$ : \% . Whinn:
Latli: fortint. Willd. viii. ?so.

















3. L. clatede li.













 1. $1=$

+ be cz +17.7 .


-1 11 ta.
$7 \mathrm{r} \times \mathrm{i} \mathrm{r}$
 tr: $1 \cdot \mathrm{r} \%$ !... 1.
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 f is is f. 11 , for. 1








## is 1.19 ?

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## A. 1.

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ㄴ. $1 \mathrm{~A}=\mathrm{in} . \mathrm{Ha}$














i. $\because$ i $\because$.



1). 1. 1 ?

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 ar) ir.







Pago
 Carey the last describud three specties.

## 

Mrate calyrr five-tuothel. Coral hivecteft. Filuments three. Femate caly, and corol ns in the male seerls with a thmid margin.

1. (. laterutia. Willd. is. fims.

Leaces somm what mynlar, tomentose, bi-cramdular at the base mulerneath. Fruit with a wordy eortex.

Bela-selh ma. Rhect. Mrel viii. t. 1.
Cumblit, havimain. Rumph. Amb. v. t. 11t. Bad.
beng. Kimlow, Lano.
Sicthes. thavi..
I wild hitter variety is called Trite haon, hy the Bengalees nud Ifindeos; and Futoo toombre in sumsuit.

2. ('. Pipo. لा तllat ix. (i, 13.

Iocates angular, toot had, very downy. Fiout sub-c!lindrie, bath curts obtroe, surface very evel.

C'umbulam. Rhced. Mal, viii. 1. 3.
Atmes. Kurkuroo.
Jenly. K든\%.
T'rling. Whentlationnodon.
This flant I haw oult fenmed in a cultivaterl state.






 ably obtuse at both embs, when young exceotingly laing, hy the time it is tipe the hair is gone, and it is then of : 1 whitish boom colour, ahout twelve or cighteen inches long, nud from cight to ten in diameter. Seerls white, with tumid margins. somewhat two perinterl.

The yomer muripe pones are miversally caten by the uatives in their stan-, and curries.

Leceres murnin-lobed, dentate, hairy ; divisions of the calyx petioted. Fruit roundish, smooth, tormbse.

Schaheri-schoma. Rherl. Irul, viii. 1.2.
suphurct-kommat of be matares.
Cultivaltal like the former two all over India.
4. ('. Cilrullus.

Leares mamy-parted.
Anguri: Indica. Remph, Amb, v., 116 .
Alind. Turboos on' Turmory.
Extensively cultivated in all the southern parts of A sia, and its islands.
CLCZMMs. Schrel. gen. N. 14\%0.
Male caly, $x$ five-tontlied ; corol five-parted. Filamenls thrse. Female calyx nad corol as in the male. Seede sharp.

1. C. Colocynthis. Willd. iv. 6i.

Lerares mamiculett. Frat elabular, smooth.
Pers. Chuhenz or Khirboo-lukh.
Teling. Sheti-pntsa.
Beng, Alahhar.
Common on the samily lands of Coromandel.
2. (. Melo. Milld. iv. 1373.

Angles of the lewes romuded. Fruit romedish, torulose, smooth.
Mind. Pems. :med Beng. Kherthonj.
Fombl in at cultivatele stat muly.
3. ('. sutions. Willd. is. (its.
f.ecrers straight leotwreen ther maghes. Frue lincar-oblong, scabrons.

Nullen belleti. Kheed. Nat. viii. t. 6.
Ilimed. Fivera.
Beng. Susa.
Peis. khy:nr:
This and sente of its varictiss are found cultivated in mo.t pants of A in.
4. C. momome'ser. P.
 the femate solitary. Firmit smouth, 'glindric; from lome to cight ${ }^{\prime}$ wumds weight, burstias spoutancously:

## lis 7. and If, Fl. Fin it or finte.

Trete IPdil durexy












 an bos.

## Tlin T) $1=\mathrm{y}$

## I3 uy. К - ker.










 disuset r .




 uatel in arrit $\times$ by the b:tiver.




 !rese 116.








 longe tita
fi. $\mathrm{C} . \mathrm{tm}$, is. ll .



T i g. L'ant tri

 duris r the w : anele |1 R-4!1s.





 Th! ime 1, 11 int the porto.
7. $1.14+11.1 .12$.



7: 1 \% V ll., 1 \& 12 .

 uhi tifin,


Page cribed : parias,

The finit of thit sont is n-1 in frod by the natives and much wetencol, yet they never take the tromble for coltiva $+1 /$ a plant.
f. (C. inlowifuli, Rurl.










## 

Male caly.x five-tanthed. Comol fire-parted. Filaments three. Female caly.e and corol as in the male. Berioy firw or many-u en al.

1. II. sectmedler. W"illt. in. lit?.



To ling. Phtem lmotinerit.







2. B. fomilla. Proxb.

Filitom. cretping. Leares from three to five-anded, demienlate, shighty scabrous. Flome


A mative of China, in the botanic anden it busiom during the rains, and ripens it-sed in the coill simon.

Root fiboms, white, rather fle shy, mul at leact heminl. Slems and bromehes mume ro:t,





 lobed. Beries ohlong, very smooth, when ripe white, of the size of a French bean, manyseeded.
3. 13. glabra. R(0.et).

Herbaceons. Slems momi and smooth. Leares from three to five-lobed; lobes seolloptoothod. Bervies conical. smoth.

Commare with B. apigacer. Willd. is. 619.
Teling. Nagin-domda.
It erows in pheresimitar to the former species, and flowere at the same seasons.





 Fas axillary, solitary, or uceompabied with a wale raceme, short-peduacled. Bervy conical, mmouth, red, many-secded.

## 1 13. Mis? $R$ wh.




Tit $g$. ('ı mana durde.

 date, : ! !





 for ith ?




T. 1. 16, 1-1



 tht ritit.



f. If. $A=1=R=R$.

 H. +1 + $+n_{1}$

A 1 ,














7 H ? in, 4 ir. ii.l.




If + $1+\ldots+1+5$
 grettlatititr! r

## 

## 






1 1. V1: ti. .








111.

727














## 


 oulitiry.

1. 1 . semperflaitans. $R$.


 year romme.







 glands altemath: with the insertion of the petals. Fillanents single, colnmman Anthers six,

 superior: romuti-l. hairy, threecellect, with one orulum in each, metached to the uxis above its minde. Styles thres, bitid, reenwod. Capsule the size of a large pea, of an olive colour, villow, trieweroms. Speds perisperm and enbryo, the in the order.
2. C. ublumifulio. $I$.



I midelling iad tree, a native of the furents of silhet, where it is called bookesa. It










 a charry, smombl, hwe limel, three celled, six-valsed. Siad sulitary, with inverted embryo,

3. C. divesifislat. R.



A native of the Malay lamuls.

 putes ensifum, downy. Flumers axillary, mate and fomale mixel, both perfeety somile, and



 Gorm hatiry Nyles three, Ntiynturs trifinl.

1. (' rollime Willd iv, s43, licerl) Corom. pl. ii. N. 16 .
 late. Prelals minute. ('if)sules tricuecous.

I'tane. Wiverachatmanum.
Tiling. Kiadishun.
A smadl treer, a nutive of the hilly parts of the C'irears. It Howers duriug the hot senson.

The heqd ripra- in Decomber and Jat uary.













 rudiments af trio. rimed, amonsh, wit the si, of a mes.

The lark, of on'er crist of the caphuth is repmoted the le weecedingly prisonous. The





A nuch harar ire than olla a, a mative of in mint vallegs amenest the cirear monatains. It flowionderive the lat atemis.














## DhMEIV:LI.I. W:IH.






 4d, - sit,























 supurior.
2. 16. m itl maz Willl. is p. 978

Leates lung uburate, cutire, smouth, Flumers naillary, sissile. S'etule r'musliah. daw ed.

chuylirs spinosa. Rexde. Corvom. pl. ii. 1. 17.
Trimeg. liorn mann.
[hnis is a troe of considemale si\%e, a mative of the (irear mountaina, ths well as of varions
 ripen in lamenmber.







 ments: divisions narmowiner towarls the foint, with the extremities three-tontherl.


 simple. Berre elobular, of the size of a pesi. stmentent, back. Sireds two.

I'loe bark is a strong atirinerat. The woul dirh colomed, laril and durable. Cattle mat the le:Lte erreedily ; they smesill to destoy womes in their howels.
4. 13. seamtens. Willd. iv. p. 97!.
 elnwed.

Cluglin scandens. Rosh. Corom. pl. ii. N. 173.
Sclimmunn enttims. Rheed. Mal. ii. t. 1f.
Teling. Drounkhoom.
A bunere wondy. Aimbing sucuine, common on bonks of rivers and weter enurens in the ('irentrs. It thowers in Ňosember and lecomber.

Tronk sencerly any : branches lomer, wimhing, with their rextremities flower-bearing and






 middle of the partitur. Styles two, two cleft. Slismas simple. Berry whloner, juicy, sumenth, of the sizn of a large fiedd bem, when ripe it is of a risty black colour. Seeds two. Jimbryo inverse :mad furnished witl a perisperm.
5. B. lencerefoiia. IS.

Monoecons. Learps bonad-laneeolar, obtuse, smooth, glanenus mudernenth. Flanep:s axillary, emmadod, sesile. Petals rommdish. dentate. Berries grlnbular.

A tren of emsiderablo size and quick growth, at native of Bempal. In the Botamic erateren,
 They blosom at varimes times of the yenn, but chiefly abont the eluse of the rums, and the smail, round, dark purple berries ripueu in the coul se:sison.




1. I'. alohbtaviaers. What iv. tits.
 ewh crontainity a maty-cellal ntit.

A mi. K ura.
Kry. Ke.
If. Il $\%$, r Sinsther bremal fruit. Astar. Res. iii. 161.
Kiali. Kile l Mei. ii. t 1. J.































































Page or ill Orissa, or Bengal, which, however, is mot a sufficient reason to make it a ditterent in the foresoning preparation, will supply slipe tatit ementeh to ke pe cirht others at work; and




 six, the cost of each hatr will be abont one ama and a loalf. This to me appeat's at cheabuer


 plant in lingal, where one, or more spreces of this greius is indigenoms. 'This tree attains here the height of :abme tifteen feet, the stem at half that height branching into several sabered arms terminated by the thick folinge. It howers in the mouth of May; the fruit of the kind there notice is when full grown alxmt tive inches in diameter, the seed large, turbinate with an angular apex.
2. I'. foctidus. Roxth.

Partial ratemes, on tharses of the male tluwer simple. Germs distinct. Drepes spinous pointed, with mere-thed mits.

Hime. lemr-kanta.
Bery. Kem-kanta.
Fonnd in Bengal, growing witd in mentivated spots near C'alentta. Flow ring time the cold sentan; the finit ripens diring the hot monthe of May and Jme.

Inever wan a plant with any thing like atem, but always in the form of a the impe-
 inflorescence: as in P . orloratissimes, only here the wemmary macemes, or thymes, are simple, being only : thick, tapering, theshy rectitacke, of alwnt an inch in longt b, to which the anthers are atfixel. Filaments very short, with a thek conical hase. Anflepes loms. linemr, generatly waved, with a polliniferons growe on eath sile. Female, the whole of the aqurwate fe-
 into fascicles as in the former -pecees, the lomm half angular; the upper half taperinge into a very sharp, subulate penint, on the under side of which then is a lighter coloured, lincar, glanundir, furrowed elemation, which I take to be the stignal ; howew immolataly below this elevated grone there is a smoth oblong pit or hollow, in the lower part of which is a siugle eall. with ten ornha, attached to one side ot the bat fom of the eell. Frut walm, thres-sided, echimated with the most acute prickly paints of the chonmes, of the size of a smatl pine apple, whell ripe red. Drepes wedterehaped, angular, single but tirmly mud elosely comaceted by a pulpy ghaten, cowned with the remanine stimba, which is now a sharp thom. Sut eontormeal to the shape of the drape, houritudinally tibrons, not revy hard, twoeelley. Need solitary, in the lower edl, or part of the nut, a sponm separating the seed from an uper cell of the nut, which is larzer, and replete with sont white pith only.

Vote. 'The smell of both male and lemale flwers is highly offensive, being almost liko that of the thowers of Stevenlia foetide. So far as: I know, it is only employed for hedges.
3. P. cmaryllifolius. $R$.
bithine. Leares linem, tending to be three-nerved, apires rather broal, somewhat spinoussempulate.

 than :my uther I kuow. but is firnished abmelantly with the chanderistic fusiform ronts, which is-ne irom the stems and hater branches, and enter the eromm, which leaves motouht
III. With me of its beinte a Pamdanks.
4. 1'. Jurentus. R.
 forked apine, muts ancorelleyl.

Kaila TGurlit. Rherel. Merl. ii. I. S.
A native of P'un, 'lhittanemper, Malabar, \&c.
5. 1'. inermis. R.

Diffuce. Legues ensiform, channelled, uuarmed, and polished.

From Imhoya this prett! suall =peci-s has been iatronacel into the Botanic garkent,


 of a prickle, aprice, tong and stemter, triangulariy subulate.

## cyCAs.

Mule ament strobile-shapeal: seaths theroof covered on the umber sithe with distinet, ses-


 furni-hed with perixprou ant vitellas.

1. (1. circitretis. $\left\|^{\prime}\right\|^{2} d$. is. YIt.





 in Hece mber mud dammery-
 old whenthey :


































 limd in the in ihs with math hrewn, spongey mater, partionlarly about the base.

## 2. (: rembita. HFilld. iv. 411.

Ientes pimpate. "ith -hori, armed patioles; lectlefs approximate, from one to tro

 Hant.


III.

 the mathe it $\because$

## 3. 1: shthemind Pown.





Page





























 me:ales contimus to spring ; the fisurth, of tifth, besins to latie the tom of the pimmie hal of the full-grown phant.

From the frosh wommed parts of all the throe epereie of Cuters known to me wiz.






 Meibarium . Imboincmse, i. $p .86-39$, , and the fismies there quoted.

## NAT,IS.

 Corol nome. Pistil nome. Capsule one-extled.
IV. atichotometr. $R$.

Wichotumon.. Lersers tern, filifimm. Seed solitary, oval. smooth. It grows in deep prols of sweet whter in bened.

## DIOECCA DIANDRTA.




 Styles three or t lirem-perted. Crpsule one-celled, many-nediul.

1. V. spiratuidex: K.

#  


\& llitu, if lemomd.
$\because$ V. Mitronifilar. IL

Jinol. (inuj.
R. 11. limall-jl: i
 of the risty, ate y

















## 3. 1 net $1,1,18$. <br> 



I? 1 - 1 , 11 is.




















 finialial: we lin! " 'l.












 thate twite the to







theecereft to near the hase: devisions filiform, white. Coppule as in the coms.
They are all fomme in laties and in starmant peols of swe water, and as in V. spiralis, the make tlowers, when realy to cepand, detach themselves from the phant, and are bome, is the wind direets over the surtice of the water, resting on the tips of their reflected petals in search of the femule flowers.

SALIF. Schich. yen. N. 1493.
 tre. Female. Caly, the scales of the ancut. Corol none. Style two-cleft. Capsule one-eellend, two-valvent. Steds downy.

1. S. Ietrasperma, Willd iv. 657. C'orom. pl. 1. N. 97.

Arboreou:. Teares lanceular, serrulate, neuniuate, smooth. Stamina from six to eight. Capsule fonr-se eded.

Sims. Berrusi.
7Зепя. Рииі-јиии.
Hind. Baishoee.
This is the muly speeies of Salice I have yet found in lndin. It is a middle-sized tree, a mative of the banks of rivalets and moist phaces amoner the Circar momatains. Flowerine timo the cold sembin.

Tronk ereect but short, as thick as an man's bodly. Heat large, wery manous. Branchitet.s twigg. Lemers altermate, short-petioled, lameohn, fint-pointed, most minutely serate, smooth



 the tongue of the perianth. Anfher's twin, singly orhicular and crowerl. Fmate. Aments shorter than in the male ; perinath the same. Germ lone-pediedled. Style ats lomer as the eapsule. shligmas two, spremtins. (rapste cordate, opeming from the apex, me-eedled, fourseerfod. Seeds oldong, involved in much tine white cotton; which does not adhere to them, but is inserted with them into the bottom of the capsule.
2. S. Balyfomica. Hilld. ir. 671.

Irboreone Branchlets pemintous. Leanes hinem-lanceolate, serrate, smooth, glaucons muldrucath. Male flomers cliandrons.

A native of the middle parte of diat. In Bengal it howoms durine the hot season.
'The seate of the ament in the make, form something like a me-liphed hairy whe whelt is not more than one-fonth the lengeth of the filaments. On enth side, without :mel within, the insertiou of the filmuents, is un oblour, yellow, smouth ghant, rather shorter than tho scales.

## DIOECIA TRLANDRIA.

## OSYRTS. Selweb. gen. N. 1497.

Male caly.r trifid. Corol none. Female calyx as in the male. Corol none. Germ supcrior, onc-relled. one-steded; atlachuent lateral; sfigma suh-rotund. Cupsule one-celled, two-ralved, oue-seedud. Embryo obliquely inverar, and fimenished with a perispern.
(). peltata. ir.

Arborems. Lecues peltate, ovate-cordate, entire.
A native of the Circar montains; and of various other mountainons combries. Tho mate tree of Rierimes ILappa, Iimn. is so much like this, as scarcely to be distiuguished; tho femate of that 1 have not yet seen.

Leares ultermate, petioled. peltate, corlate, prointel, entire, threenerved, pretty smooth above, hairy underncath, trom six to nine inches long, and about four or five inelies broad. Petioles romud, smoth, nearly as long as the lewves. Stipules obliguely oblong, cadurous. Mase. Panicless or compound racemes 1 hin, axilhan, mect, intermphd. Bractes brud-empate,
 orate, crentte, down. Corve none. Filuments three at loner as the caly. Anthers peltate, fimr-sided, fonr-celled; cells covered with lids. Female: Rucemes avilary, simple, ereet. Brantes broad-lameolate, nutelied, pointed, from one to twoflowered. C'aly.r as in the mulc. Corol none. Germ superior. slobulat, cosered with glutinons farina, one-celled, containing a single ovilum attached to the inside of the eell a little below the stignat. Style nome. Stigma literal, large, seabrons. Capsules romm, of the size of a pest, fleshy, covered with clammy, maxy grans, with a groove on cach side from the base to the vertex, oue-eelled, two-valred. Seed siugle, splerical, attached as in the germ. Infeguments three; the erterior nue smooth, shining, of a hackish brown; the mitdile one nuciform, black, thick, hard, and very rough on the nutside. between it and the exterion tmuie is an quantity of soft whitish pulp ; the in ner one pure white, mind very thin. Perisperm conturn th the sed, white, flechy. Fomleryo obliquely inverse, pure white. Cotyleduns round-cordate, three-nerved. phomula minute. Radicle oblong, printing whlipuly up betwen the vertex and the stipma.

All the fomug parts of this plint are covered with more or less of soft, resinous, adhesive matter, which swells strongly of turpentinc.

## Excolirilic.1. Scheb. gen. N. 1 128.











 C!linlme whil y










 tree.
2. F.. mearff in If
 Emerel =ila.

A narive of the Whatere.

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\text { Sthatirn s.treh. !fen. N. } 1341 .
$$





1. $\therefore f(n-1 \times 8 . d R$.
 nuw ; in the ti, orere trim downs



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 they ate tho 4alle.
 from thom, are from twonty th thirts fat hi zh, very ramms, with a sm koth harked, stumt








inserted, trmeated, pramidical body uecupies it a place; in its hase thefinmenty are inserted

 beryg, smooth. sncenlent, sub-aciel, when ripe of a sleep red inclining to back. Ali, $l$ compresio ed, ingose. one-sereded.

 ble.
2. S. diandra. Wrilld. iv. 711. R. Corom. pl. ii. I. 166.

Leares oblong, smonth. Shipules ensiform. Sjpikes axillary, and terminal. Male flowers diaultoms.

Teling. I'rlla-rommodoo.
A tree, a mative of the momatamon- parts of the Cirenss.






 flesly rime smrommding the hase of the merm. Gierm superior, ohlichely ovate. Ntyles two, spreacling, ome of them alwhys two-cleft. Solighas simphe. D. pee minute, succulent, ome-celled. Fut unc-orellod, very smintl.

The berries mo cutch by the matives when ripe. The wool serven for various uses.
4. A. lancoolaria. R.

Shimbhy, smonth. Leaves lamecolir. Stipules ensiform. Spikes torminal, filiform: male flowers dimmetrons.

A rery bushy, large slurub, roid of all sorts of pulbescence; a natire of Chittagong. In tho Botanic gurden it blossoms dminer the ruiny scasun.

## 

Mrale ralyr none. Corol trifid. Female caly.x three or four-parted. Corol none. Styles thares. Copsule tricocoons.
(. spicillores. II illd iv. 714.

Camda-tehis arrestis. Kant?. dmb. iv. l. 37. f. 1. the male, and f. 2. the femate.
 the female, if the spikes were lonere, and pendulous.

Exchule IVntti-tahi. Rheed. JLul, v. $\ell, 3 \doteq$, which is moro like my Rolltera dicocca, and totally dillerent from it Culurus.

## DIOECLA TETRANDRLA.

## TROPHIS. Schreb. yen. N. 1502.

 leaved or none. Germ superior, one-culled, one-sculed; ullachment smperior. Berry onc-sed-
III. ed. Embryo inverse, curved, no perisperm.

561 1. 'T. aspera. Willd. iv. ر. 793.
Arbmenus. Leates obloug, unequally sermate, scabrons.
Sons. Sibliontukit.
Mïdd. and Beny. Syom, or Shmora.
'Yindn-prarnia. Rhered. MLal. i. t. 18.
Strehlas asper. Lourier. Cochin C\%. 73.1. and 754.
Achyntis pillens, Solander, in the Bunksian Ilerbarium.
Teling. Barinku.
Is generally shmbby, though sometimes it rrows to be in ill-looking. scragey, crooked small tree ; is eommon every where in Iurlis. Flowers in the cold semson.

 two. Flowers minnte, sexsih, gromish-vellow, from ten to fomben fom the smath phobnan
 on a separato plant, Peduncles from one to five, axillary, short, one-flowered. Calyr or corol as in the male, permanment. Germ ovate, one-celled. with one ornhm attached to the top of the cell alittlo on one side of the orimin of the short styde which sorn divide into two fili-
 yellow, crowned with the remainine style on onn sicle of the vertex, one-e elletl. Semet sinmate, romal. Integuments two, both thin, but mucommonly dintinct. Perisperm none. Embryo ernt-
 twentieths of the whole ambryo, on one side divided hait wiy throngh into two lobes. The mate cotyledon is lise between the lobes uf the litrere one. Pinmule fwo-lobed. Fedicla wubcylindric, curved, sumerior, with its apex immediately under the remananer sf yic.
［＂w leana of thi nlant ure employid by the natives to polish ivory ；the wood is used Ed． only for flel．＇The I rrit－ure gererlily catell ly biris．
$\because$ T．st in st．$R$ ．
 Fem tie cally．＇tw the kencth of the barry．

Toifig．Ghall e．








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 ly the La ives．

## B ITLS．Schork．yen．．N．10ins．

Mur．Ament rommitist．Ciyx nane Cor ly me．Firry comy duad．
113 rpisure．${ }^{1}$

If．ppinis po urs．If llil is．$p .7$ is．














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 and Jlis．

## FISCC．M．Sclrも．ๆ ル．N． 1 NOt．






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«．i wert illoter $1 /$ ild．iv．Itl．
Al rihbly，with shb－brtiedh，I brsuches．I roes nblong，three－nerved．Flowers axillary， from thr＂to st viot sithe $r_{0}$ amatils．


3．V．，＂In！wh．Hi，lil． 71

A Iltiv Af＇（W）1．1．1．
4．Y．r－मftrfirl．$P$ ．




## MO.NETLA.

Male calux tomr-tonthecl. Corol fumpotalled. Female caly. $x$ and corol ns in the mate.

11. burteriudes. I'Herit. Strip. Sue. i. t. 1. Wrill. i. 669.

Ben!. '1rikanta-jut $i$.

Teling. 'J'tla-upece.
This is ome ot the most common shrubs on every part of the coast of Commandel, it grows lreely in all sitnations, and is in flower and fruit most part of the var. Stem semecely any, but branches immmerable, opposite, spreadine in all direntions, forming a clone, imgenetrable hash, something like the Fure; gomg branches tom-sidet. Thorns axillary,





 sterile. Germ sumerior. globular. Style nonc. Stigmu lawe, ghanlular. Berry globulur, of the size of a pea, when ripe white, succulent. Seedstwo. Berwies eaten by men and birds.

## MCYRTCA. Schebe. gru. N. 1.510.

Male. Ament with eresont-shaperl seales. Corol none. Finsube, Ament ohbong ; scules as in the mate. Corul none. Styles two. Drupe one-seded. Embrgo inwerse, without perisperm.
M. integrifulia. $R$.

Leares lameolar, entire smouth; scales of the female aments reniform-corlate, one or two-flowerul. Drepes nval, sranulaterl.

Gophee, the vernatur name in Sithet, where it is indiremons, und grows to the size of a large bush. Filowering time December mad Janary, anl the trots ripen in Mas. when they are piekled ly the natives, and nsed as a comeliment. In its raw atate, this truit thongh
 eonsiderably bary. Leares pormanent, altermate, apmoximate, romb, every part of the


 form-cordate, somewhat moninute. spriukted on the back with smatl yellow, shining grains,
 mimbe, ornte, one-eflerl, emtaining a ingle ornlum attached to the eell. Styles two, or tworeleft. Drupe owal, the size of a pune. Nut whomge thick and very hard, it litule that-

 impacted. but distinet, chavate; sumenlent, yellow bodies. Seed wate-obloms. Infegument single, membranacems. Perisperm none. Embryo inverse. Colyledons conform to the sed, amygdaline. Rudicle superior:

## NAGEIA. (irert.

Male caly, from fonr to five-leaved. Corol wome. Female caly.r from three to fiveleared. Curol nome. Germ three-celled : cells two-semhel ; atlachment sinperim (uxipendula.) Styles two ur thres. Drupe one-seded. Embryo inverse: mul furnished with a perisperm.
N. Putraniira. R.

Leaves alhemate, namow-oblong, nentely semulate. Flowers tritudrous; flaments moro or less coalescerl. Drinpes wate.

Pootrunjera the Smacrit name. Pootra signilies a son and jeera life. Dr. Barry of Nadras informs me. the muts are known, and sold in the bazass at that phe bey the very same appellation; mud obeerets 1 hat they are strmen by parents, and put round the wecks of their children, to preserve them in health.
l'ontrolam. Rherel. Mral. vii. 1. 59.
Pootrunjeeva, Pitamy, l'ootraniulkum, Pitanja, are some of its mmerous Asiatic synolyms.

Teling. Ǩudra-juvi.

A native of the varions montainons combtries of Coremandel and limdonsthan, where it grows to be alarge timber tree with an crect straight trimk; mud a large spreading slady head, composed ut inmumable expanding brandere with liftarions hanchlets. Fiowering time March and $A$ pril, und the froit ripens in Junary. The wood is white, close-grainel anel very hart.
I.e wes altermate, short-petioled. bifarions, lancolato-oblons, acntoly sermate, rather obtusi, with the bace generally whligne, smonth, shining, wavel a little romed the margin, from thee to four inches lonig aud one or vae and half broul, Stipules minute, alternate,
villons. Mate. Flomers short-pedunchen, mmerous, minnte, yell w, cullected into small gro-

 or thers; Whan one trind; when tive on of them is bifth. Anthers always three, two-lobed,








 setc. Endryn imera, nemrly as long as the feringem. Coteleduns oral, three-nerved. Radicte sub-cylindric, superivr.

## DLOECLA PENTANDRIA.

## そ.ANTHOXYLTM.

Male. Calyx fivi or wore factel. Curul nime Stame a from tive to cight. Female.


Z. alam Korb.

 to (ieh' otatiol:

## /har. $\mathrm{D}=\mathrm{tankr}$.

Katht t! U1. As at. Res. vi. 3.6.





















 fone.

 tives of the comutrits where the lats grow.

## 

 rorol unme. Nifnas from thre totive. Dreer 'mesected. Fombryo iuverse, and furnished with a fentupertin.


Tiverimerthus. Rhed. Mal., v t. 11 .
Tilith. lilute.
A nuall tree, a natise of the (ireme mont nima. Flossering time the be fimine of the rniny - (\%) 13 .






Page
Couble, singly clobular. Pistil no other ruliments of me, than atuft wool. Fife-

 Sligmas кiupli: Jr"upe minute. Jrit one-secelced.
'Jhe bervise nre waten by tha matives.
2. 1. paniouluta. Milld. is. 7 (i).

Spites panided. Leares ponnd, orial, villons. Stigma stallate. Drupe romud.
Beng. V̌loosdi Jamb.
A shanll ramone tree, with light aslecolonmed batk, common in the forests of Bengal. Flowerine time the month of April, the s ed riperns in Jnly.

 sub-rylindric, downy. Bractes minutr, ont-flowered, from onte to there inches long, and ncinly





 This ipecies small, romul, smonth, whan ripe of a dark purple, pulp of a platsant subacid taste. おul single, onc-seded. Jimbryo inverse, und timnished with it perisperm.

## SPINACIA. Schreb. gen. N. 1520.

Mabz: Caly. $x$ four or five parted. Corol none. Hemabe. Caly. two, or fommeft. Corol nonc. Sfyles four. Serd onc, within the indurnted ealyx. Simbeyo annular, with an intirior radicle, and furnished with a proisporm.
s. tetramdia. Rorb.

Aumanl. erect. Leares variously lobed. Flowers hispid, sessile, the male ones tetrandrons the female valyx twor-1urted.

Hind. and Beng. l'imis.
Arab. and Pers. lspanj, or lipamaj; these point out the derivation of onr generie name which las becu donbtfinl.

It is much cultionted in Bencral and the ndjoining provinces; being a pot-herbhehe in considerable ratimation by the matives.
 sometimes rodelish. Leanes altermate, the lower omes very lomer-ptiolal, varionsly lobed wits Iobes of an acmote triangular shape, smonth on both sicles. Nats. Flomers on loner torminal glomerate quikes and on shorter ones from the axill; very mumoms sessile. Crly, tourparted. Shamens fiom. Anlhers twin, very hirere. Fews she. Flateres anillary, sossile, (erowded. Caly.r two-tipped, with a projectum lonn in ach side, mpowing into pines when the seat is ripe. Slyles reverally four, white, taproing, Cinpsule ontworelled, one-valved, amed, with two opposite shor't horms, and crowned with the smatl remating eatyx.

## (CAND.LBIS. Scherl. gen. N. 15ing.

MALF. Caly. fiwe-parted. Corot none. Prand.F. Calyx ome-lenved, entire mpening on tho side. Corol none. Nlyles two. Seed sulitary, shut in the calyx. E'mbryo eurred, inverse, without perisperm.
C. sutire. Willd. iv. Tlis.

Sirms. Kinnsit, or (itmjikis.
Arab. Kinuab.
Ilind. auml I'ers. lanug.
Reng. (iunga.
Telima. (tanjai.
Cummbis Indicil, Pumple. Amb. v. 1. 77.

Indigroms amonerst the hills and momentins north of Limlin, and common every where
 fowers of the lemale are driod. and mixed with tobacen for smokiug. There also braise and mix with water for drinking the flowers of the male plant; this preparition is called siddlere. 'Iley are all powerfully nowentie. The batk thry makic no nat of in Indiat thourgh

 mountains above Hndwar mamitacture a coarse. thick cloth tiom the bark, whim the poorer popple wear.

I perfectly agre with Willemow, in thinking all the variefies, if even sumb they coll be
 the lears both "ppo-ite and alternste; and sumatimes tle more rare uale and femmle flowers on the same individual, and even hermapluvelite.

# DIOE('LI TREANDRTA. 








1. C. Zder in Wiald. ii. Zni.

 unte, weraliy 1 bree-a did.

Halserat. It uph. it th. .. 5\%.......
 jetins.
2. ©. hanili $K$



A Butite of l hithoms.
3. ('. ) \& lus. $R$.




























 sive of a cherrs.
i. (. list alius Jinsh



 si wher walk!
 taineal to the lo ialat of aboat firty fiet.


 ghlas








fi. (i. relertras. Hi, Hat. ii. 20.3.


Page Carey
Ed.
super-clecomı̣nund.
l:alu: juncus: :llmis, Rumph, finh. v. $\ell, 53$.
I Natise of the Molueces, from thenee introdued into the Butanie araten in 17:38,
 of thinty feet, and its foll ral thicknoss, when deprived af the shathes of the lawes, wats


 warl. and the dhef nerves lare mad there with astilf spinous bristhe; abont two feet lones, and about an inela broad. Petioles armed with a few, slant. recorsed spines on the exterior part of the mader sidd, and many smather staight onts on the upper ; from eight to ten fect long. hesides its terminal, drooping, arm whip, whieh is not mueh shorter than the boty,
 the sheathe of the petioles, supra-decompomul. N'pelles mumerons, armed with very suall, short, straight spines. Cathr, corol and stamine, exactly 11 in the other species.
7. (С. verus. Willd. ii. 20:3.

Scandent. Leames fl:zellifirous. Teaftets mumerons, equi-distant, uniform, three-nerved ; stipes Ireadfully armed with immmerable fhat, ensiform spinese. Spatie paniched, oblong.

$$
\text { Palma juncus vorus ampustifolius. Rumph. 1mh. v. /. 万i. } f .2 \text {. }
$$

A native of Amborma, dec. In the liotanic garden are many phants of this species, bronght from the Woluceat landz in 17!日, where in twelse years they bagan to blosom, and in that
 little finuer, with joint- from six to "irht inche loner. In this the whole of the pationes. particnlarly toward the base, me mone armal than in any other spereies 1 hav dee seen, with that, thin, elastie, very shanp, tortoise-shell coloured spines of all sikes, from a line to two ineles long.

## 8. ('. ertensus. R.

scandut. Lecres flacelliferms; leaflels alternate, remote, api-distant, narrow-lanecolar. Spines in belts, slender. Berrios spherienl.

Domerulhu the vernacular name in sithet. Whem it is indigenome, and is of great extent, say two to three humdred yards: when chemed toward the base, it is not thickicr tham a man's fore-finger, lut as thick as the wrist toward the apex. The length of the joint is from six to twelve inches.
9. С. quinquenervins. $R$.

Sicandent. Lerues tlagelliferons; leafots few, remote, equi-distant, lanceolar, five-nerved. Spines distinct, few, short and strong ; spadir decompomad.

Harmur-gullar the vermanalar uame in silhet, "Where this species is found. ruming over trees, to a great extent ; the ratan when eleamed is abont as thick as a man's finger throughont, and the joints from six to cisht inehes long.
10. C. Rotang. Willd. ii. $2(0)$.

Seandent. Lreaflels solitury, equi-distant, sublinear-laneeolate; sheaths flagelliferous.
Sums. Vetra, vetus.
Beng. But, or Nanchi-bet.
I eammot take nom me to quote any of Rumphin's figures for this plant. It is a native of Bengal, and the C'ormandel const, lelights in a rich, moist soil, where there are bushos and trees for it to elimb ou. Floweriug time the rains; the fruit ripeus during the cold seasons.

Ront fibrous. Stem joined. wimbing to a vast extent. enveloped in the thorny sheathis of the leaves; with them it is about as thick as a man's little finger; when they are removel, it is in thickness. and every other respect, a common ratan. Leerres pimatr, frosn cighteen to thirty-six inches longe. Cenffets opposite or altornate, sessile, linear-lanceolatr, armed in the marrens with mimte brintles pointing forward, and a few distinet, lenge, ereet bristleson the upper suffece, fiom six to twelve inches loug. Sheaths cylindric, armed with numerons, strong, straight, compressed thoms. Pelioles sheathing, the leaflet-bearing portion eompressed, chamelled, and armed with both straight and remived thorns on the muler side. Flagelli, one from the sheath of each leaf nem its month they are very lomes. stemder, dropmene or waring, and well armed. rosembling the slender lash of a whip: maty of lomphins: figures of these plants have such temminting the rib or rachis of the leares. Male. Caly.r miversal; spathe none: partial many. sattered. Spadiar supra-decomponme, dronping, being the ahove mentioned thagelli murh enlarred, with nmmerous, purtial, trmute spathus, with alternate. deempnond, bifarions, renused spikes therefom, the ramifications thereof reeurved, hearing in two rows on their eonsex sides mumerons minute gremish flowers. Perianth three-parted, smaller than the corol, permanent. Corol oneparted. Tube imperforated. Border threc-parted; divisions oval, permment. Filuments six, thiek at the base, tatuerins, nearly as lomy as the corol and iuserted on the month of its tube. Auflems inembent. (rerm nome. bit there is the rudiment of a there-cleft stigma. Fisumer. Caly.r : sheaths as in the male. Spadix decompomad, perianth and cornl as in the make. Filtaments six, united at the hase romm the germ. Anthers arrow-shaped, abortive. Germ rombl. Shyle short. three-cleft, divisions or stigmas recurved. Berries round, of the size of a small cooseberry, inhbiontel backward with barky seales, one-eelled, one-seedel, betwen the bark und the seed theme is a considerable portion of whitish juicy pulp of a sharp acid tatle. Seed solitary, marked with many irregnar depressions and chevations, and on one side thew is a large, deep), roundish pit, a little below it near the base is lodged the monocotyledonous embryo.


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 with the firmer．



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11．＇1．pen illaters．$R$ ．






15．（1．grenoles．$l$ ．
sam lom ferpes with from sir with pair wi linear－lanceolate．three－nerved leaflets in three remb，fit irlt－；sh the H．AE llifernus．


 tube of the comol. Anthris limar. incumbent. Pistillom, a sumbll, three-teothed, abortire, stye-like body is all that is to le: fomud.
16. r'. monoiers.

Monoicous. seandont. Leafiefs mmmerons, altermate, linear-lanceolate, polished, and


 and in the filaments heing very completely unted. Fowering time the maty somson.

It is nerolless to rive athll d.ecoription of this plant, which is exactly like C. Rotang, exepht in the abovementioned cibemustances. 'lhe male flowers are about as mumerons as the femate ones, generally one of each tron cach ot the ammular setes oi the branches of the spadix. The common ratan ( ( C . Rotan!!) I have always fonnd completely dioceons; this must therefore be considered in distinct spenies.

## rTITMN/N. Schich. gen. N. 1tiot.

Male. Caly.e three-toothed. Corol three-petalled. Fem पLE. Calyx and coral as in tho male. Germs threc. one-relled, onte-seded; altachment int:rior. Diupe oblongg, pointed, oneseeded. Embryo in the back or eonvex side of the perispernin.

1. P. acaulis. Buch.

Stembess. Lean:es madical. pimmate; leaflets folded, ensiform, in sub-opposite fascicles

Trees ant hashes to a great extent, and in tlower in the month of May. This species is not
 common quill, in texture firm and elistic, covered with a smonth, stran-colontred crust as in the emmmon rat:an.

Stems : $\because$ ble permmial, climbing to a great cestent; all the tender or yomarer parts to ward their cotre nities invested, in :harmed shathe of the leawo inelndine thene about as thick at a mam: litile tinger. Seanes altemate, reemmed interriptedly pimmote, it I may be

 fom pair each, with muell more of the rachis left naked betwens them than the spaces they

 to tive inches lontre and less than one inch hroad. Rib or rachis carinatedatone the npper side, when youns casered witis terrnginons dust, romaded noderneath, wad armed with reemeed


 shat has or opposite sidew of the tharelii, compound, jointed; joints apmoximate shenthed; rat
 leaved, trikentate, sittimes on the goints of the rachis in at thee-tootheel cup, which may be called a lower or exterior calys. Corod thre ported, with the lasw thechy, and partly inper-
 stye-16.
(.)
ontine miny ways, the lower spincons.
A native of Behar. Wloweriug time in the Botavic garten the cold season. The seed ripens in April and Mary.

Stem noue in phants ten years old; at this age when in thower, the whole body of tho plant, inchating the inflorescence, but exclusise of the folinere, is of :more form, and not exceeding ix or eight inches in heipht trom the surface of the grmmad. Lerares (fionds, L.)
 rion one folded, slemder, maiform, ind abont eichteen inclace loner ; the luwne wes small, straght, rigid, and endins in wers shanp, spinous points. Teficles (sliper) near the basw flat, towarde the apex trimpulam: sumeth. Wurs, Spalhes and spedix as in the female, hereatero

 shightly mited at the hase. Filaments sis, reve shom, inserted into the have of the corol. Antleers linear, hearly as long as the petals. Pisfil none. liratore. Gperthes miversal, axil-
 the earth, generally splitting into two portions dorm the midelle, on ewell side. Spadix ramons, composed of mamy, simple, sho:t, erect. flexnose hamehos; all are smoth, and of a pale yellow. Flowers atternate, solitary, sessile, in bractitiom noteles whe shes of the brameles of the spadia. Calmex enp-shaped, tramente, with three obsime prints at expal distances on the margin. Prealis three, shlo-rotnod, thick and fleshy: concare, smoth. Veclary a suall, six-tonthed cup, in which the gemes sit. Germs there, cuch one-cellerl, and contaning asingle ornhme attached to the midde of the ecll on the inside. Siyhes thre recurved, small, and short. Sligina suall. Drupe oval. Aleshy, small, smonth, of a bright red, of the size of a rery small olive, mue-collech, seent solitary, ciblong, with a deepl lamgitudimal grove on one side. Embryo in the middle of the hack, or comeses side of the seed.

2 P. farimifera. IFilld. is. 731. R. Corom. pl. i. N. 71.
Stem scarcely any. Teaves pinnate; leaflets opposite, rigid, the lower pair ending in spines.

Phomix pusilh. Grevt. Sem. i. t. 29. Lomrier. Cochin Ch. 703.
C'eling. Cliilta-eita,











 गHW







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 Whith they Ithermiomat $r$ tishet







## +P whestris R



$r_{1}$ ing. Mestla cita.
$\therefore$ Klim:
A n!. Kıianturar.

## K. te yluetin l.irn.







 drals ‘ift the jit t ne bern will

 dy+!1\&


Page
Carey that suakes ont ont of the way of any prom
rafters to their houses, and leaves for thatch.

## BORASSUN. Schreb. gen. N. $168!$.

Mate spathe miversal. many-leared. Periunth three-leaved. Corol three-petalled. Femate spellhe as in the male. P'ricenth, or corol, or both, from eight to twelw-letwed. Germ superion: thre-evtherl : efls one-seded, athelomem! interiur. Dirupe three-seded. Embryo in the apex of the perisperm.
13. Nabelliformix. Willd. is. 800 . Corom. pl. i. N. 71, und 72.

Lontarus itumestian. Ratripho.-Amb. i. t. 10. Giert. Fruel. ㄴI. t. 3.
('animpana, Pherd. Ihat. i. t. 9. the fimate tree ; and Ampara, $t$. 10. the male.
Sons, Tala. Sece isiat. Res, iv. p. 311.
Beng. Tal.
Tiny. l'almyta.
Teting. Paton'Toxy, the mame of the inale tree, mul Penty or Nima-Touly, the female. Common all over Incha. It How ers in the hut season in Beugal, and the seed; ripen in August.

## FERRIOLA. R.

 rior, threwelledi : cells twoseded; allerhment superime ; style single. Berry from one to three-seded. Endryo imsers, amply furnished with peripurm.
F. burifolia. Ilillt. is. p Tos. R Corom. pl. i. I. 40.

Trimbilli. that, is from mood, of the 'tamme.
Pi-himat of the 'Jelingis.
Amoner the ('ivear mominins this grows to be a small tree, but in the lor countries, it is ouly a shrub. It flomers diming the hot seatsua.

Trunk irregular. Burk of a dark runt elour. Brenches rery numbeous, and wery irre-
 half or thren flarters of an inch hong, by holf an inch hroal. Mabe. Flowers from the






 the number of fertile cells in the berry. Infegument siogle, rather tleahy. Jerisperm confi rm

 clavate, pointin: direetly the umbilicos.

 When its size will admit, atre ruire the mint durable hatly wort.

## 





1. A. quara. $R$.

 ph, í.







z S. $1=$ reffiris. 1 .

 whe H 5 .






 Hीwers.

## 




Ber: ML in - 1.
Ation.illl farmul lill.
4. S. Imeiteld Hild. ir. 780.

 ole tor thriesereatal






5. S. relu i. $R$.


 with all the Fial hali 11 - in in blewt to wim.
i. 太. ma rothill, $R$.














 carh, attuched tol the uper emb of the axis. Styles recurvel. Berit s the size of a peat, red,

7. S. owalifatias. $R$.
stems erlimitric, armed. Leaces marmed, oval, smouth, from five tuseven-nerved. Petioles tembluil-benrins. Vinbels componnd.

## Beng. Kıomurlit.

Tiling. lianda survatign.
A hative of le leres, foreste, and wild places.




 thongh the lemf drops, heaving the hase with the temblits tom the supme of the phate, Vmoerts axillary, compomed; umbellets grobnlar. I'ectunders and pectiveds eohmmar, mowth,

 subnlate holice withan the colyx. Cierm oblomg. Sigles short. Stigmas trmumte. Berries above, red, smonth, suecment, two or three-serded.
8. s. prolifera. $R$.

Slem, and bronches cylindric, prickly. Seotess unarmed, oblone, triphenerver, with a
 pethanelecl.

A native of herfes and flickets in the vicinity of Calcutt: where it btossoms in Fobruary mal March.

Root strong, shender, hatul, tilnes pringinge from a small tulnems. hard, hignenus crown or base. Dtems and brenches puremial, scandent, of sumu fiew f:ahoms in hometh, round, arm-
 ohbong, triple-merved, besides a bery shomer sub-marginal pair, entire, smoth on both sides,



 rior once much bromete. Corol none. Filements six. as long ns the calys. Anhers linemr-


 superior, globular, thereecelled, with one ornlum in cath, attached te the enp of the avis. Slyless threr, recmreal. Skigmas latrge and tritid. Beroy globose, of the size and appearmese of a reel cunt:unt, ane are twoseded.
9. ㄷ. masulala, Roxh.

Shrubby, scandent, angular, and armed. Leaves hastate, cordate, entire, acnte, from three to seven-nerwol. Racemes both male :and femake axillary.
 where the phant howsom durine the cold semom, and ripen their seed by the month of May.




 one to three inches bromd. Petioles about an inch long, and somewhat anguln ame prickly.




 dias inserteal romul the bater of the serm. (ferm oblongs smonth, threcelobed. Stules none:


 parixum, ypmosite to the mathicers.

Male. Calys six-leated, or six-partent. Corvi none Femate. Caly.e as in the male,

 al willa a peric:rn.

1 11. ginimes. $R$.



Be 1 . Cw" ! Mo ato.







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 molts. Hy fr mat lis r :

## 2. 11. 11113 i. is 722.




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## 8. 1), entr tivend




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+ 1). सो : ?


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 diewe. If is wich altis. $=$ ].






 saiterd.

5. D. аاторитриеа. $R$.

Titbers sulb-rotund, purplothongront. Slems annal. Itrining fonr-winged, wings coloured and curlot. Deares profmadly cordate, fom five to seven-ucremb.



 tinevishel: the stems and leconchess are smotimes ne far as six on sevell-wingel, hat four is

6. 1). aereleatla. Roart).

Tubere ohbury, pembuluns, the fibm of the proper roots becone spinons. Lemes reniformcordate, arente, from tive to serm-nervert.

 ruoted.

I mative of Bengal. The roots which are of an owal form, and femermly whont two ponds, or more in weifht, are delicately white, and durine the cool sentom, dher mo in the
 known to tha matives by the name Mowerono. In habit it resembles mach the spectes I have eallad 1). fescientate, sionsili-alou on the Himeros.
7. 1). fuxciculita. R.

Tuberes pemuluhe. Stems amual, twinimg, romud prickles stipulary. Seeaces alternate, romme condate, fivenerved.

Reng. Sonsinizater.
This specit- is eultivated to a momsiderable extent, in the vicinity of caleusta, not only for fencl, but to maler stated of the ronts.

Rool comsisti of many tuherrs, alhout tha size and shape of a pulli t's eger, commeded by
 interenment; internatly they are whit: Shems several, athent as thick as at pock-thread,
 tion of cach heaf; thes, I call the aipules. Laress alternate, long-petioled, romd-cordate,


I have not met with the flewere of either sex, the entare and uee of the ronts of the
 thing finether from me in this place ; ms aim is to atsoist in chemring up the obsemite, in

 by those who me mot butamists. Am the luat will er nerally le fomel in the shape and wolome of the reot. These are premanent, and by then the Hindon coltivator is cuided; but. I
 rake wheh forthit placing montidenew in colonr. In that case he mast ennsider I) glubesa, rubellatat purpuren, as saricties of the sathe spercies to which he has my hearty consent, if he find it a more eonvenient mode, than that which I have followed.
8. D. pulchellir. $R$.

Tubets roumdish, mul mather small. Slems herbaceons, twining, columnar, smonth. Leaves profoundly broad-cordate, abhlate, pointed, from nine to eleven-nerved, smooth. Femate spikes axilliny, wowded, yendnlons.

A nation of Chittagong, and or exactly like the fohlowinge ceispata, as to be distinguished from it only by it perferety suouth, polishet, columar stem and bramehes, whichare perfectly free from exery apperance of cen an angle or rib. Flowering time in the Botanie garden, the clnse of thi ratuy sensom.
9. U. crispreta. $R$.

T'ubers rombdish. Slems ammal, twining, ronnd, from ton to fifteen-winged; reiags cmbed. Leares altermate, broad-endate. Female spikes pendulons; male pmicled.
 into the Butanic farden in 1798, where it blosoms during the rainy senson.

Rool tuberons, and small for the grent size of the phant, with numerons, ramons, slender fibres issuing from every part theredf. bike potatose the ohd rots perish when the new ones are prodnced, and may be ealled hiemial. Acillaty habers, halbs they are often called, wre in this sperios, both munerons and large, ant meproper sets to rear plante from. Slems :manal, twinus, manmed, ronud, thick, many fathons in lenght beantifully ommented with from tem to fifteen pambleb, curled wings, otherwise the whole is perfectly smoth. Leares alternate, pefioled, broad-cordate, subulate, pointed, from seven to eheven-herved, with mmeroms, parallel, mastomusing veins on both sides, from thee to nine inches each way: Pelioles shorter than the leaves, ornamented with parallel, curtel wings, like the tems. Frmate. Spikes asillary, crowded, perfectly pendulons, Bractes in paiss, mepual, one-flowered. Flomers alterinte, mither remote, small. Jelats or leafels of the maty sis, linear, smoth, white. Slumina, sir erect, short, emargimate, abortive glands. The capsule has nerer come to maturity in this crarden.
10. 1). anyuiua. $R$.

Tulers crlindric. Slems twining, round, villous. Leaves opposite and alternate, cordate, five-nerved. ilale spikes crowded, penduluts.

Beny. Konknor aloo.
 close of the mint.




 Hous flewors. (in yx as in the -ttur.

 muth.
11. 1). atmantimia. Willl. W. Tive.
 oppratis, collote, firw-11 TMd, wery zmond en burh sides.



 rails.




 male, 'tud often imple: Flom fix, lir= romete.

12. 11 aldera. li



A 11 lis. at silh ir.
13. 11. betariphthe. If.








 semsmit.







 rains, uilk the uther of … if itho colma.




 sis, - harite than the etirs.











 evels atter it tas leath hileal.




Pago
el with numerous acnte pricklets, otherwise smonth. Lemes long-petiokat, hernate. Lerfters, the mildle ouc emente, obovate, the lateral sub-semicordate, whll are acnte, conter, both sides villons while yomer, from three to fivenerved, rarions in size, the largest, often of fort hong, and six inches hrond. Pefioles slighty armod with small prickles, and like the lewes, villons while yonug. Male. Tuflovescence; spikes axillary, eomponad, ifooping, wometimes leat-hearing; the gencral length trom six to eifflem inches. (idyx. The exterion three leatkets romen and smaller than the inmer three, which are ornte. Femati plow ens on a different phant. Spikes anillary, solitary, produlons. Flowers mente. Calyx as in the male. Germ beutath, very large, three-sided, villous. Styles sem'cely maj. Stiginas three.
17. 1). pentaphylla. Hilld. is. $78 \%$.

Tuhers obtong. Slems herbaceons, twining, prickly. Leaves digitate, downy, Male flowers prnieled, the female ones spiked.

Beng. Kinnta-aloo.
Numen-kelengn. Jilueed. Mal. vii. $t$. 34. and 35.
This specees I hure ouly fomme in it. widd state; thongh the root is large, white, and reckoned very wholesome and palatable, and caten by the uatives. Flowering time the rainy season.

## MEFNISPERJLUM. Schocb. gen. N. 1-44.

Male. Calyx sis-leaved. Curol six-petalled. Perate. (Gdyde and rorol as in the male. Germs three, or six, singly one-ectled, nue-seded; athadimen interior. Berries three, or six, onc-seedent. Fombryo inverse and furmshed with a perisperm.

1. M. Columbir. R.

Herbnceous, twining, hairs. Sectues sulb-rotmed, five-lobed; lobes acmminate. Male panicles axilhary, drooping. Auhers form-extled.

Colmubu, \&e. Asial. Res. .. p. 35iñ.
Radix Colomba. IL. MI. Nurray, iii. 333.
A mative of the enst eonst of $A$ frien in the vicinity of Oiba and Mozambique. One male plant blessomed during the hot season of 1807 in the ganden of the late Dr. James Anderson int Madras, and from it Dr. A. Berry took the deseription which is pmblished in the tenth volume of the Asiatic Researehes. I fiesh oflset from the root of that phat was ohtainerl for the Botanic crarden at Cahenta, where it was phated in August 1807 , and now, August 1812. it remans perfectly fresh, but hats never thown ont ceen a sinfle bud, or whwn any tendeney to vegetate. However, in April of the same yeme 1812 Dr. Werry bronght with him from the late 1)r. Anderson's gurden at Madras, the original root, and several of its oflsents, which he presented to the Botanic garcten. 'They were immediately put into the gronud, and in the comrse of a comple of montlis they thew ont their hatiry, her hacenon- shoots tw an extent of several fithoms, and bossomed most nbmuntly dming the rany scasom. The whole, at they now appear, agree well with Ur. Berry's original dewerption ; only I shonld rather he inclinell to eall the inttoresence a droopine praicle, chat a (omp) and Decenter the whole perishect down to the ront; which on examination, hud not onty grined considerably in size but cach had thrown out, during the season, several pretty large. finsiform tubers, not milike gellow earrots, the largest of them was cleven inches in cireunference: and twenty inches long.
2. M. Cocculus. Wrilld. iv. 825. Gart. Sem. i. 210. t. 70.

Pereunial, twining, semulent. Leanes cordate, base trmeate, firm and heid.
There is no figne in Rumphins, or in the ILorfus Malabaricus that I ean quote for this famons plant, nor inded in any work known to me, exerpt Gerfner, alovequoterd, and that extends only to the fimit. It is anative of Mahbar, firm thenee seds were sent whe Botanic Garden in 1807 ; nt the elose of 1812 the planta were snfliciently large to cxtend oncr atarge mangoe tree, with a stont lignouns stem, at thick as ot man's whist, covered with derply cracked, spongy, ash-coloured burk, that of the yomes shonts smonth aud green. Lectes altermate very exuetly eordate, entire apex obtuse or cinarginate, of a ham texture, hucid abowe, paler but no ways tomentose, or villons madernath, fiom time to twelve inches lone, by from three to eight broad, I cannot say any thing of the matnal chamater, as our plants have not yet blossomed.
3. M. verrucosum. R. Fleming in Asiat. Res. xi. 171.

Pereminl, seandent, bark verrucose ; young shonts polished. Leaves cordate, aemminte. entire, smonth. Male recemes from the maked branches, simple. Nectarial seales inserted on the filaments.

Funis filleus. Rrmph. Amb. v. p. 82. t. 41.f. 1.
Mal. Pintratwali.
A native of Sumatra, as well as of the Molnceas. From the first mentioned place, Captain Wright brought sanm plants to Bengal, which he presented to this ganden, where they thrive well, and blossom in lichomary and March; bat the whole have turned ont to be mate ones ; the femule has not get bern seen.

Stems and liranches seament, and twining. romm, math watcid. Foung shoots romul and smooth. The plants in two yeass spead themsches cutirely over pretty hare trees. When by necelent, or otherwise, any of the stoms or langer branches, are ent in two. lone filiform roots spriner from the upper portion, het the distane be ever so orreat. which quickly deseroud to and enter the eath ; by this woulerfin economy the perfectibility of the plant is soon restured. It. is the same with ifenisperonum cordifolinm aud tomentosum. Sinch uncommon care has Na,
ture taken for the preservition of ther platut, which must. bo doubt, be iutended for some purpuat, af which we ure probably atill ignornt.

Lesees remote, yetinled. cord ite, amminate, entire, snooth on both sides: lobes larese,






 for the .ame of int rantent ferears. ('uptain Wright who hirst brought it frum summtra, said

8. 31. finestralum. Goeit. \& in. i. p. 211!, $t$. 16. f 5.

 Berri s cons red with lowny is rk.

 bur: and the sect-ripn in Piy and Jime.
















 berriog sury umbed with the subll jo rmanent rally alnl erorol.
 Mactow Il, wh, at the same time Eaver ne the: I wing ger mbit ut the plat.












 everllent stomarhic.
"Whas the sed ripens, I shall lave the pleatire of sendiag gon some of it at all event:

- I have sumt sou a pretty large bit of the rowt, sawed from the eentre of a kuot, that you, may mako ans experintent up in it."

Au'e. This in mainly mot ile Cotumbo root of our Mai ria Medica, R.
5. II. edrdifinlitm. IV illd. iv. $j$. Sęg.
'Twinint witl corky, s':ib)" 11 bsek. Leares round, cordate', smooth.
Cit anerlu Rhoed. Mul, vii. $t . \geq 1$.
IBen!. nud Hind. (ioluncha-luta.
Toling. Ti引มェ tigat.
Is une nf the most cymmon wild plants in India, every hedge prorducing it in abundanees and every snil seeming to suit. it purtictly well. Is flowers mont part of the fear.









Pag6

 ments six, clubhed, sprending, latlice lemeer than the petals. futhers win, immeracrl in the



 eatol resting on a tumid recoptacle. seed singre, lidiney-formed, on the iuside there is a decp pit, whicla recoiverits reepplatle.


 toxicate fi-h, and rander them ensily emblat. The matives employ the fruit ot Gurdenia dumefurem, the lnah of W"alswors, and ''hyllanthes nirostes.
f. H. rillositm. $R$.
'lwining, (rver part solit with down. Leares hoad-cordate, five-nerverl, entire. Panicles axillary, sub-

A large twinme perommial ; a mave of Chittagong in flower and fruit at dillorent
 the tops. Ferlirial seeles on mather pelals sub-comeiform, flashy, and emarminate.
7. I1. lamentusam. Rorl.

Peremial, twinim. Lentes thren-luber, tomentasi. Racemes nxillary; pefals entire.
Beng. एulur-ビolunc-la.


 with small, stathons sperke, that of the yommernoots downy. Like somm other species of this
 f. 1. tembor flaments issme fiom varions parts, which quickly deserml into the groumd, oftell from the height of some fathoms. 'This hitpleas particolingr, when the lowere part of the










 cons, minty-flowered. Calyer, the exturior flure leathets limeeolate, very small; the interior there mearly mombl, first expandincr, them recemred. Pelals oval, entire, with the posturior marerins incorved over the biate of the filanconts. Filampals clavate. Antherstwo-lobed. Pistil
 the three interiur ones rommdiale, many fimes lareme than the formar. Pelals six, ovate-oblong, entire. Slamens none, but six, short, fleshy filaments, seareely half sor long an the petals. Germs three, elerated on a hemispherie recoptacle. Berries ns in tho finmer spucies.

It diflers fiom 'lhmmeres's. Wenispermum trilobum, in having the petals or seales of the nectary entire, nud the interior three ealycine leaflets sumadine; wheress in 21 . tribolum, the former are sial to breplit at the apex, and the corol conpathalate.
8. I1. hirsetum. Frilld. is. $p$. seg

Shonhhy, twining, fron broad-condnte, to lincar-corkate, downy. Nale flowers racemed; female axillary, sulitary.

Mind. Vier or Dier.
Wal-ticalle. Gert. Sem. ii. 1. 180.
This is the only species I have yet met with, that I can compare with M. myosolaides. Cau tley be the same?

Cocrulus indiens folis mbistolochen snbtus lamemosis, fructu minore. Plnk. Alma. G1. t. 381 . $f$. 5. ierver better with my plant than cither fig. 7 or 3 . of the same table.

Tíling. LDuosmatierio.
A commom twining spacies fomm in most leodges. It flowere durime the wret scason.
Slem woonly, but slamler. and twininis. Leares altormatr, slunt-petioled, narrow-rordate, or ovate, thee-nerved, covered with much soft down, abont onc or Lwo ineltes loner, and broad


 contaming one ovalum attached to the middle of thrinside of the eell. J3erries from one to
815 theec, ame nosit rommon, ncenly monnd, wf the si\% of a small pret, marked on the imside near the lase with the remaining stigma, smoth, when ripe of a black purple, and fall of decp puple juice. Seed solitary meiform, forminer ucaly it eomplete ring with the joining on the


many portions, if the pulp, has previondy been remevet, if ant, they adhere to it, aml are





The jutee of the ripe lamice mathe a graml, ilural le, bhish purphe ink. A decoction of

 tive, and mud rinic:







 comprmat, atillary remmed

Fomily ('ap ais Ilirduiche, in the vicinity of Ihema, in his jouruey to shremagur, in flower in lpril
(1) 11. th - wy" . R





11. IV. ir iadr=3. IR.



 Ifell sem.





 Anthere, two pir in th spar if eal filamem:.
12. I! proly -1 It.... R.
shrubhs, twin in tradreat ixtent. Leanserdath, ovate, sumoth. Berrees as many as twelor. Ahtre pr live 11.

bewg. Titzhrッ.


 brohes. It th wers most part of the sear.










This is the third ant if Mhathen the 'Tolimpas.




13. M. heter eclitu ). 1 .
 leaval. mord six-phential.

## A mative of the 1 rears.




 maked wouly funts of the stom, unt hirge Irauches, drooping brausitully. Bractes thres-




 in vory large, penduluns bunches, their appearamee is inviting, lat their taste is most abouiuable.

# DIOECLA ENNEANDRLA. 

## TET'RANTIERA. (Tumex. Thunl.)

## Nat. ort. Lauri. Juss.

Inroluere four or five-leaved, fow-flowered. Male, Calys one-leaveal, entire, ne from three to six parted. Corol mone. Sectarial glames varions. duthers finmerelled. Fianale. Gerus smprior, ome-celled, one-seeded, superior. Bervies ouc-seded. Embryo inverse, without perisperm.

1. '1., wilield. R.

Leaves short-pretioled, suhtemaciform, ohtnse, shining. Ruremes axillary, short. Involucre fomr-leared, fise-flowered. Cotys from there to six-cleft. Sictary. in the fimale corollets,

 prenons: and grows to lo : meeful timber tree, of wery great size, and in the more remote
 fifty foed in lenurth, for whell purpose this tree is puefered. Flowerine time ouly and August; the sed ripens in $\Delta$ pril.

Foung shoots smonth and erlosis. Leates alternate, short-petioled, of a lanceolar, cmeciform shape, obtuse, cutire, firm and alosey, from five to eirht inches long, and two bromd. Racemes axilary, and from the leatless brathets of the former yem, short. few-flowered.
 imolncere of tom, or rarely five, romad, concave, smooth leatlets. C'alyx with a hairy canpmonate base, mad six parted borler. Corol none. Ninf. Filaments grmatly longer than the ealyx, woolly, and disposed as in the Lanri. Soctarial glands altermute with the stamina,


 the top of the cell. Jtyle the lemgth of the caly x. Stigmet simple. Berries oblonge, smoth, succulent, of the size and 口ppearance of thase of Lanpus Cimmomom, one-celled. Seed simple, Iong-ovate. Integuments two; the exterior ome lichtit brown, and of the rexture of purchment ; the inere one wembanaceons. Perisperm none. Eindryo inverse, as in the Leneri.
2. I. applata. Corom, pl. ii, S1 117.

Leates fiom wal to lancenlate. Inolucres fon-leaved, from cight to twelve-flowered. Calyx searcely any. Stamens about furten.

Tomex sehifera. Willıl. ii. p. 840.
Gaja-pipluali. Asiat. Res. iv. p. 303.
Lumis innolncrutu. Kionig's Mss. and Retz. Obs. vi. p. 27.
Sebitern gintinosa. Lourier. Cochin Ch. 783.
Teling. Narm-alagi.
Ben!. Kooknor chita.
This grows to be a middle sized tree, is a mative of the momentanons parts of the Circars. Flowers in Jum, when the mins bugin.

Leares seattered neir the extremities of the branchlete, petioled, ovul, ohtuse, smonth, above shining, from thre to five inches long, and from two to thee brom. Petioles ulont an inch long. rinud, smonth. Nipmles nome. Pedencles solitary, axill:nr. as long as the petioles, three or four-cleft.* Pedicels ruther shorter than the pedmucles, chabbed, each snpporting a small head or umbellet of minute flowers. Bractes, a small one at the insertion of
 lets. Leaftets orhicular, comeave, cadneous. Perimilh nome. Calyr campaminate: bodder an exterior tim into which the atamanand nectarial glands which survond the germ are
 from six to sixtem, ahont-predieellech, oval, peltate, alternate with the filanents, but three times slorter. Germ nome, or small, and abnitive. Female Flowers nin a sparate tree. Vimbellets, inrolucre and colys as in the male. Stamens. the hairy thaments. but instend of antlocs there are oblone white aramds, Nectarial glends as in the male. Germ superior, globular, onecelled, containug ane orulum attached to the top of the cell. ats in the Lauri, to which order it belongs. Style fwice the lengeth of the filanments. Sligma tom. Beryy globnatr, smooth, black when ripe, mul almost dry, oncerelled, of the size of : prat restiug on the clubbed pedied, as on an cup like the acorn. Seed one, globnlar. Embryo inverse, nud without prerinperm, as in the Lanri.

- In Bengal, where the tree is common, and its growth linxiriant. the pedumeles in the minde tree, are numorous about the ends of the branchlets, and ficquently racemed, bearing from ten to fifteca fulruls.

Note. Dr. Brary of Mulras intirms m. that this is the tree which Di. Kilcin of Trample-

3. 'T. Moaopet ila. $\pi$. Coren. $\mu$. ii. I. $1 \neq 5$.
 fre-clett.

Beng. Wura lisoknor ehta.
Trling. Ni:arn mam rentme.
Tomex juponices, thenh, J.fy. 190. Willd ii, 839).

 const of '(ornumble', and honsil, it werins in May and Junc.

1. T. qu: lrillura. I?.
lemes lume har, on oth. Preate avillory, few, Ims and di-tinct: innolnere thar-




















2. T. morophtyla. $R$.





(E. T. L1. y flif li rh















 cotylalens.
3. T. laurifoliz. Jurlz. Hurt. Siksent, i. p. 5!. t. 113.

Tomex Tetranthere, W'illd. is, 434.
A sund tree, a intive of thengl. It blowsoms in May and June, nud the seed ripens sbout the clow of the rains.
4. 5. fruticosa. $k$.

Shribhis. Le reer lanceolur, glosey, mad ghuenus underweath. Raremes axillary, aud lateral. Involucr, figur-hzorish, tive-flois red; morollels emmendrous, with a six-eleft calyx. A.rriex whlate.

Uasa, the remacoular name in silhct, wher it is fomms. It is an unizht ramous shrub,
 berries rijxull the chaning cexal witmon.
 six to twelve inchas long. hy tiom two to thee broal. Mats. Racemes axilary. and sulitary,

pedieel. Calyr proper, six-oleft, exactly as in the Lauri. Corol none. Stamina also as in that order, only there are no flats ahermate with the lower mul imene three. Geran, a slonder,
 Culys as in the malc, but the seyments atw deriduons, and the base, ow individed part, per manent. Germ, as in the other anecies abrendy described. Berries of the si\%e of a peat, rather ohlate, smoth, shininr, of a duki monle whelt ripe, one-eclled. Seed solitary, contorm to tho berry. Intequment single. Embryo inverse, no prrispern.
9. 'T. pentandira. R.

Lemves lameolar, triple-ncrved, swooth; umbellets axillary; involucres four-leaved, fiveflowered: corollets pentandrons.

Teling. Nima.
Lamru involncrata. Corom. pl. ii. N. 187.
A middling sized tree, 1 mative of the Circar mombans; where it blossoms in the cold season, und the sced ripens in $A$ pril. Fivery part -medls strongly of eamphor.

## DIOLCLA DECANDRIA.

CARICH. Srlurlb. gen. N. 1536.

Mals. Calyx seareely uny. Corol five-cleft, fumucl-shapect. Filaments on the tube of the corol, altermately shorter. Femase. Calyx firc-touthed. Corol tive-petalled. Stigmas five. Berry one-cellded, many-sected.
(. propaya. Filld. iv. S14.

Lolves of the leaves simmons.
I:apaja. Rumph. Amb. i. 1. 50.
Beny. Papeya.
Pupaw tree of the English.
The deseription of this plant in the Genera Plantarum is perfeetly exact. It is eultivated in gatdens all orer Iudia, for the sake of its fruit, which is nsed hoth creen amb ripe. When green they are ned in murios by the natives, alst pickled and made into a preserve. When ripe the interior, soft, yellow phipy part is gencrally catull withont the adition of pepper and sucrar, us in the West ludies; mayy like them molh, and they are enteremed innoent and wholesome. It is likely that in this commtry they may be of a superine epratity to those of the West lindies.

1 made some experiments in the yens 1790 and 1791 , to detervine whether the femble wonld bear, and ripen its fruit withont the mate, for whell I reared it mamber of yome trees inn garden sitnate at Ieat a mile amb a half from any other Papaw tree ; asom ats they showed their flower hads, I could easily diatinumish the mate, and destroycd them all; mine females were left. They grew most innmiantly, being in a good onil amb well watered,
 they miformly fell ofle withont appearine to have more than the rudiments of seeds. In this
 producing oue that came to matmity. I was then perfectly satiotied with the suceres of my experiment, and comsed sume mate plants to he phated anomer them; as suon as fhey had flowered, my female plants began to produce large ripe fruit, their seeds cane to the usual maturity and grew radily:

The Limman sexital systom did not want additional proofe of its beriner extahished on the most solid fomudion, otherwise the above related experiment is a cory strone onte. I know of no tree, or plant, so well aldapted, to ascertan the meresity of the mule beine so situnte, as to insure the intluencer of its flowers on those of the female, to rember them
 Chicacole there were in his fraden two femate trees thant lone abmulantly; there was one male tree standing hetween them ; he had often heard that the female tree womld not bear withont the malc, but did not contirely credit the report. 'To satisfy himstl' he ent down the mate tree and there was no other men: hw thinks not within a mile or two ; the consequence was, that from that time neither of the femate trees producel riper fruil. escept the fi* that he thinks mipht have been formed betore he ent down the male tree. December 1793 , souse speemens of a male free with fruit on tham, were shown me ly Sir William Jones, I have not seen the tree, and it is the only instance that has come to my kiowledse, where temate or hermaphendite Howers were found on the male Papayat tren $160 \%$. Sinece writing the last paragraph amother instance of the male tree porlucing fruit occured iu the Botanic grarden. I am informed that the same is comum at Malacen.

## DIOECLA 1COSANDRIA.

## ROTTLERA. I.

Male. Calyx from two to five-parted. Corol none. Female. Calyx from four to fivecleft. Corol none. Germ superior, from two to fomre wiled ; rells une-seded; attachment interior. Capsules from two to four-coceus. Eubbryo iuverse aud furnished with a perisperm.



 Au＿il－t．



















S＇ts．as：！frat limenti＝






i lí zetits．R．




















1．R．J．re：$\quad$ t．$L$ ．


＇lat rins aं ar．liv，，－t b．ii ．j7．1！＂！．





5．K． $\begin{aligned} & \text { t } \\ & \text { R．}\end{aligned}$ ．
 lipelouta：lus ry und theth．I＇a nente．
 sud the ltygimine of the ronl seasun．
i 1．duリ いa．$f$
Sendint．$I$ monand－cordate，alt ruat；threc－berved．Rremes terminal，aml axil．


J$\because \ddot{i} \boldsymbol{q}$ ．Kiar（is veltow．
H／II．．A ．
 fowerin．time the hot r＇ssun；the Ered rijens in the rainy seasou．

Pago
Carey Ed.
 A Dative of the Malay Arehipelaro, and liss a sreat deal of the habit of Rotilera alla.

## (IELUNLUM. Ciurt.

Male. Caly, fire-lemed, Corol mone. Flimate. Calyre five or six. lenved. Corol nome.
 threewedle Soeds sulitury, arillesl. Embryo inverse, and furaished with a perisperm.

1. (i. lifarium. Willd. iv. sist.

 one of then bears male, and the oher fenn hathers, during the montis of l'birumy and Marels. The hals a re incrusted with velled main.










 yellow ring : amondine the base of the gevin. Germ sumerim, two-lobed, two-celled, with
 lobed. Capsule dicsecoms, lltwly, sumoth. yedhw, two-cellech, two-valsod. Needs solitary, romul, enveloped in sur entire, juier, white aril. Intequmenis beides the aril two ; the exterior one hrown, smooth, aml brittle; the innor an membramacents. Perispertan contorm to the seet,


Fote. This is mearly alliwi to (Gertner's Crelonime cupronotes, and I conjecture they must belong to ont finily. My Surtertede glabrte, now Gelontum fuscicututum, must, no dombt, bo refine to the sume ginus.

## $\because$ (1. lanceulatum. Hilld. iv. S32.

Lanceolar, cיtive. Flawers crowled, lut distinct. Stamina mmerous. Capsules tricoccous.

I mative of Bengal, where it grow: th th wize of a small, wery ramona tree. It flowers during the hot semeon, in I pril mad May chi 'ly. The sed ripens in the emol setison.

Trunk straight to the top of the tiees. Firenches mumpons down to the remmed, diverg-
 shoots smonth, and gremb. Lraves altemme bitimions, rery shortpetioled, lameedar, obtuse,
 textme, and poliched on both sides; from one to six inches lone, and aboncone-third as mote in breadth. Shenetes very short, renifom, resinons; when they fill a strong mark like an







 bifid, and metred. Capsute the site of a small chary, mather thesly, when ripe yellow, trienccous. Needs solitary, wheln), al in: white, fitid aril. The other parts almost exactly as in the Euphorbice, vi九, a fleshy perisperm and inverted embryo.
3. (i. fusciculaluin. R.

Leares oblong, ura the mpex semme. Flowers fascicled. Capsules tricnecous. Stamina mumerons.

Mind. Bun baringa.
Treling. Suoma grada.
This is rather a small tree, a mative of the Cirear monntains and Bengal. It flowers in


Leares alternatr, wery shortpetioled, oblong. entire, or somatr towarl the apex, smooth, slining, firm, from fun to six inches long, and altont tero bromd. Elipulew within the leares, spathition, as in the Podedenia. Whan they drop they leave a permanemiternlar mark. C'm-

 merons, as long as the calyx, inserted into : yellow, flamelnlar reetpate. bran aid. Caly $x$ six-lamed; lectlets abovite. Corol none, Feckery, at yellow, glandnhar, angular ring, surjomuling the lase of the gem. (fom superion, ovate, iliree eedled, with one noulum in each attachel to the top of the asis. Cupsule ucaly round, fleshy, yellow, smouth, three-celled

 round cordate. liusule - ip rid.l.

## DIOECLA POLİANDRIA.







1. 1 rer-iv. 1 . 1
 Flow is 1 rullyly lite. El? Bucolt.

Mal, i'
















 Ifort.










13. ${ }^{1} 11$ !




















T1: $17+7$



A! 11 , $l^{\prime \prime}, 1+1$, fortil ietel Berrats th mitight to tell - i.d.
sams. mwaden-K゙tutuks.
Bent. Binulat
T'aling. Pedili-Kinurou.
A native of' ('orombuld und Bengal, thongh ly no means so common as sepiaria. 6. 1'. wheordali.. $\%$.
shmbly armed. Leaces ubcordate, arenate. Flowers terminal. Berries ten-seeded. A mative of Clittag'lyg.

## CMAULMOOGTA. R.

Mate. Caly. from four to five-lobed. Corol five-petalled, with a nertarial scale under the hase of ench. FFwate. Calys and corol is in the male. Germ suprior, oneerelled; orce
 furnished with at perisperm; direction of the radiele various.
r. adorolu. R.
(hanhmonean and Petarkura, are the names of this tree, and the druge herentter men-

 on Symmore, fier Pae doplutceds: It 1 , asoms in April and May, and the seed ripens abont








 an iuch and a half in diameter, when expanded of a pale yolion, and pewerfully framont.


 Filaments abont a lumbled, woody, innerted into the disk of the remptacle. Aath is linar, erect, abont the length of the filaments, two toecther, mether shomer than the pexts.


 villons boties. Germ sup rior, round, slightly tive-bobed. one-otled, containing numerous
 donht belong. Stules five, shorter ; stigmos large, salgitatceeorlat: Berry foblular, if tho
 brown, and composed of rays puinting to the entre of the brey. Receptache in the ripe stato nucertain. Seeds mmerons, of the sizo of large fillorts, immursed in pulp, varions in shape, but in gememh nearly oral, smooth, liglat gray. Infeguments two; the inferior onc membranaceons, Perisperm comform to the seed, fleshy, of a whitish gray. Embryo white. Colyledons sub reniomm. Radicle oval, direction varions.

The seeds of this tree, called Chanlmourgree, or Petarkura by the natives, are employed by them in the cure of atmeons disorders. When freel from the internments, they aro beat 11 , with clarified butter, into a soft mass, mind in this state applied thrice a day to the parts affected.

## TREIV 1 L. Limu.

Malf. Calyx from three to four-lemed. Corol wone. Slamina mmerous. Female. Cely. $x$ bencath, firm thee to four-toothed. Corol nome. Style four-cleft. Dirupe four-celled, with a single, one-seded nut in ench. Eimbryo inversc, and amply furnished with a perisperin.
T. nudillora. Willd. iv. 831.

Leanes opposite, cordate. Flumers axillary; the male ones on a pendalous raceme, tho female mens solitury.

Tutratastric ussea. (fert. Fruct. ii. 130. t. 109. f. 5.
Canschi. Rheed. Mral. i. 1. 4?2.
Finttlera intica. Wrild. Gielh. Diar. Mist. Nat. i. p. 8. t. 3.
Beng. Vitali.
838
A native of vatous fruts of ludin; in Benesp it is common on the banks of the (iamese, whero it arows to be a lurge trece; but the wood is soft, and of little or wo rube. Flowering time the hot seasen.

## DIOECIA MONADELPHIA.

Milir catyo of the ammit. a *eale. Stameias three. Femaik. Caly.r three-pmrted. Petuls three. Niphes thee: 13 rig thre... dold, irreshlar, with the three tuberche f the enly Emiryu in ras, and luani hed with a dreri-perm.

1. J. Irtiz. R'.

 In lath in the If thic fard an, where the videst phats are not less than fiftua yeurs ohe, and not more tion a vell itet high.
2. J. $a q$ it. $R$.

Ghruls $2 \ldots$, in, le, distichon-, linemr, not murronate.
(hir. Ihtor-ras.
Comm in on t're littl, un ultisated lips of Innd whelh seproter rice lands in the vici-
 17: Kerr.
3. It rhionsis. Hrall 3 is sid.

Shrubby, sury ruthot anl sil readintr much. Leates tern, conweled, sub-imbricated, marcomat.

Front (hia thival aris, law, irea liug, glancous shrub, has becu introduced into the


Shathy $L_{\text {H }}$ t an, pat int, vey barp Iwiuted.
( A in. T ; 1 -tes.
A : if bentinul, I a tr ranous shrub, with a short di tinet trunk, covered with dark




## $\bar{j} \mathrm{~J} . \quad$. $t$.

 Fpreadi 2. 114rnto.
(1) ) litrotu.




(i. J. $d$ n $n$ ? b $R$.
 jurusa, th ; are minate ul I ol tive
(h) hula hatn-t mas.




 enture.

## $7.1 .(h), \ldots s i=f ?$

1. in arat ind, approximat, limar lanethlar, wile robthe. Male aments eglindric. Anth oxtwrellat

11 tise of Chinh in the Betmic parden the nale flant thomers in Felmury.

$$
\text { C'IS心AMPELOS. Schiob. gen. N. } 15.50 .
$$






1. (' $g^{\prime}$ Lis. $R$

Deremial, twininer ory pirt smo th. Ienres round cordit, fultute, searcely repand;

 is very arri!! is ut at in medicine by the matises. 1 lownige time the month of May, and the me il ripethe iti N. pin ber.












## Pago

Caroy
Ed.

Pago
111.

 Ont：to cath division．Calge of one smatl，oval lentlet，pale yellow．Corol two－petalled；petals

 Slate short．stigme from fome to tiveceleft．Brery ohovate，of the siac of at pea，having the


 the exterior one subnuciform，two－valvet．Perisperm eontion the seal．Eimbryonarly the length of the perisperat，inverse，limat，uncinate．Ructicle with the apex under the stignas．

2．（．hexthatra．R．
Shmbly，twining．Leaves peltite，cordate，entire，nine－newed．Conhels compund．Wale umbellets ghobular heads of flowers，with a six－leaved calys，and three－petalled corol；in the female the calla is there leaved，and the corol three－petallet．

Beng．Nicmooka．
Pinda－valli，or l＇ala Kclangu，Pheed．Ifal．vii．$t$ ．40．is like the female plant．
Stephanian rolumble．Lourice．Cochin Ch．T4．
Jlenispermum peltaluia．HFilht．is． 827.
A native of Bengal．blowering time the beginning of the rains．
3．（．comedralacer．Hilld．ir： 863.
 panicled ；femate racemed，with renitorm，nany－flowered bractes．Culy．e and corol of une ubovate，ciliate scale cach．

Teling．1＇itti．
Mинisermum orthiculatum．Willd．iv．p． 829.
Cathe－valli，He Battu－valli，Mherd．Mal xi．p．127．t． 62.
A native ot Coromandel，Malabar，de．
4．C．Caupeba，Filld．iv．S（B3．
l＇er＇minl，twining，tember＇shouts very＇woolly，Leares brond－cordate，scarcely peltate， woolly．liemale flemers racemet，with serile，condate acmminate，many－Howered bractes；as one－leaved，oblong，acute collys，and oberodate comb．

A mative of the Molne a．It flowers during the hot senson in the lbutanie garden．
5．C．heirnandifolia．II illd．ir．S（il．
Permminl，twinine，villons．Leares prolomadly peltate，cordate，apex mueromate，baso truncate，hairy malemeath．

An extensively twining peremial，anative of Chitagong，from thenee it bas been about two years intodned into the Butanie grarden but has not yet blossomed，whel must acconat for the imperfection of the detinition．
（j．（. letrandra．R．
Shubby，twining．Leaves peltate，reniform－cordate，entire．Male inflorescence axillary， componnd．Floer rs tetrandrons．Caly．x four－leaved．Neclary enp－shaped，filled with stamm：． $\Lambda$ native of Amboyna．

## MYRISTTIOA．Sclivel．gen．N． 1562.

III．

Male．Culy．x trifid．Corol none．Filament single，columuar；anthers several pairs
 superins，me－culled，one－seded；allachanent interior．Dmpe superin：tholy，？wu－valseal，mat onesseded，concred with a multifidmil，commonly called mater，Limbrgo inferior，and fur－ nished with an anple maninated perisperm．

11．moschata．Willd．iv．8＂39．
Leares obblomr．Nhete flomemsermb on simple and componud axillary racenes．Female flowers solitary．C＇aim，w，pitch r－sh1pent．

11．offrimalis，Limu．Silst．193．Suppl．2Gゴ．Gevt．i．t． 11.
31．Alosehata．Henodrille＇s Jedical But ony，363．t．131．
Nux myrintica．Itmaph．Amb．ii．11．1．虫
Jay－phalu，the san crit name of the melmey，and Jati the mace．
Jagrephat，the Bengatee name of the matmey，mat Jatri the mace．
Jon\％－bewa of the Persimt．
A native of the Molnecas and other Islands in their vicinity，bearing male and female on diflerent tres：and there blowoming and bearing fruit the whole fenr．In some instances 1 have observed them to be momients．

T＇runfo staisht up to the top of the tree，：s in the pince．Bark smooth，and of a green－ ishash，or disty olive cotome．Branehers in rernlar equi－clistant verticels，uearly horizontal， with their extrenities often drooping．Leaces alternate，sublhitarions，shert－petioled，oblong，
 three to six inclew long，and from one to two ame a half broad．Thate．Racemes axillary，often two eleft near the apex，with the divisims speathig．filumers mumbrons on ascouding，clat
 predicels solitary，minute，one－flowered，caducous，those of tho tour loner ones atso solitars，








 （f） tivin，！xir in＝． 10 ：



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 cofinftri：H1 it $n=1$ ．































 perilla．（iem hai r．

Sux miritio．ilso．fath．1＊\％ii．t．S．


 atermitif the arent the latw．

3．11． 11 \＆．$\%$ ．

 shap L，il tr l ni＝t



4 M．原相


 at Calkuta．

Leutes lamendite，villums imbernath．T＇duncles nxillary，from two to three－flowered．

Page Aril, or mace, Hle-lig, and undivited; nut ohlong.
arey

A native of the Malay 1shads.
6. M. spicatu. 7 .

Fentes short-potioled, hrmad-lanceolite, smonth and firm. Female florers numerous, on


A mative of the iloluceas. Intronduced into the Botmice garden in 1708 , and in 1804 me female tree hossomed during the mins, when it was abont twede feet high. All the flowers

7. M. anguatifolia. R.

Leares maron-lituceolate, acute, smooth, cutire, flameons underneath. Alale umbellets axillary, sut)-sessitc.

A very lare leve, a native of the momainoms commtries inmediately anst of Bengal, where it hosemmsthont the beginning of the rains in June.
8. M. partillara. IR.

Lences short-pretioled, nvate-oblong, smonth. Female racemes axillary, of the length of the petiols:

A native of the Molncea Islands. One female tree in the Botanic garden, in iwelve years attained tine height of about fifteen fect, with a straight trank of proportionat theckess. It blossoms remularly during the rains. but the Howers have hitherto prosed abortive.
9. M. linifoliu. R.

Leanes limear, smooth, and hard; petioles and other tenter parts densely clothed with
 on the margin of a triangularly peitate dish.

A pretty large, tall, straigitit tree, a native of Chittagong, where it blossoms in Junuary. The female tree not secu.

## ADELIA. Schreb. gen. N. 1558.

Male. Calyx from three to four-parted, or from three to four-leased. Corol none. Fila

 Styles three. Capsule tricuccons. Fimbryo inverse, with a seanty perisperur.

1. A. castanicarpu. IR.

Arboreons, Leates oblong, cutirn. Stipules falente. Flowers axillary, erowded. Calyx four-leared.

Beng. Boolkokra.
A large timber tree, a mation of sillet aud Chittagong. The wood is said to be very hard. Flowering time November and December, and again in May and Junc. The sud ripens in dlay, mul seemel erop in the cool season.

Goung shools a litthe lairy: but the hairs som disappean, beaving them smoolh. Teares alternate, hifarions, approximate, short petioled, frien wateoblour to bromblacolate, rather acuminate, entire, of a firm amd smooth texture, from fime fo five inches long, ly
 sessile. Caly.r four-leared; lemflets in two opposite pairs, ovate, ciliate. Corol nome Nectery, a crembate cup, round the base of the colnm trom the midtle downards; all ara smooth. Anthers oblong, incumbent. Fexale formaks axilany, soveral tocrellur, some
 rommelish, hairy scales romad the buse of the peduncles. 'Calys of two pposite pairs

 in each, attached to the top of the axis. Styles three, remmed mul hifil with the segmonts,
 rable, hispid, ante, rather inoflensive hight hown brinthes, thece-cdind, six-valved; malres hard like the shell of mont mints. Seed solitary. Hetached to the fop of the :xiv, and the attachent cubaced ly a cemmon, the hy ermat, or aril ; size of a mann of hats pepur, but compressed. Integments two; exterior thin, britthe, highly prolished, hank, immer a brown, thin membrane. Perisperin nome, or most trifling. Limbryo inverse. Cotyledons conform to the seed, oily. Rudicle oval, superior.
2. A. nejreifoliu. $R$.

Shrubiby Lenies nitemate, limen-lanceolate. Spikes axillary, solitary.
Teling. Taniki.
Mal. Katt-allurce.
A native of Coromandel, where it flowers during the hot season.
3. A. cordifolia. $R$.

Leaves alternate, long-petioled, round, cordate, entire, Male spilies axillary, Anthers four-valsed.

A native of the Molucens.

# CRYPTOGAMLA MESCELANEL 

[From the "Cil. Journal of Nut. Mist." Vol. Mr.. No. IFI.. Jen. 1511.]

## 1. EOLLSELCM.

Frucfifien! , is L rminm, peltate, of mony valves, burstine nn the insi.le. verticill: to on
 jni ts.)












 er, anl a ${ }^{1}$ t ya theyte.





## 











 and diligently luoked for.

## 3 NUTINLA

Male.


1. ૬. revil what 1. $R$.




2. A cwewllat ? R. Wrill. ('at. 13. No. Bst.).
 the insille.
$B n$ \%. indurni-p:ana
3 is. imbricat i. R.

 ylist.
 during ther ruiny nist 11 .

## 1. ISOITES.




1. I. rpselurit. R. L. ne il abh. 11. t. 41.





 formed of two valves，incuins tion the apex，the seeds are mumerons comucted to a conient recepfuculum in the contre．

I haver mot sent the nate ilowers．

 semi－columutr．

A native of wet marshy plate up anongst the C＂ircelr monntains，where it appears dur－ ing thic miny se＂sm．

Root comsi ts of：mmorums aft of small capillary tilaments is sumer from the bane of the heal，which is comperal of the culareal bates of the leave fomine an imbricital bulb．
 ruptud erery ：or ：of an inch，jet the leat is met visibly contrneted，nor does it mpear jointerl．

C＇apsules oval，embenve on the inner side and ermex on the onter，confurming to the en－ larged base of the leaver whicll corer th int，1－edled．
seeds manerous，like very fint satud．
I have not seen the male flow ers．

## 5．LY（OPODILIM．

Capsules in the axils of the stales，dieresten into obtony imbrieate apiken，of of the leares


 chotomons，or simple．

Beng．Shitahar．
T：ama ponel patsia maravara．Rherd．Tal．12，1． 14.
Byuisetmm ambrinieum．Rumpho．Anh， $6, t, 41, f .1$ ．
Fonmel in the sumplertunds，on old trunk：of trees，in flower during the rains．
Root peremial，tibrous．
Stems muncrons，succuld int，pmelulons，$\because-3$－furked，romed，from 6 to 10 finmowed，the laves beine inserted on thin corresponding riblecs ；about 1 is inches loug，and cowards the buse as thick fis at conmonn rattan．

 and under surface of the leaves of most planta，so that in looking down trom the top，they
 of a firm rigid texture．

Spikes terminal，mam rons，al，out 2 inche long，cylimhic；simple，or 2 －forked，imbricat－


 the axil of each bracte，they olen spontancunsly romm the conven mangins，and dixelame such bery tine（rean－colmured dist．like sed or pullem．I could see not other kind of flowers．
 flant，in the nitumer of the rows of leaves，and iu the spikes beiug much longer，yet I have no doubt of the ir beine the sime．

2．L．（ernurn．Dill．muse．1．（63．f． 10.
Shonbly，very tamous．Leaves humerons，subulate，incurved．spikos short，igliudric．
Bellan－pateja．Rived．Mfat．12．€． 39.

N＂ut．of nurime purts of Indies．Is terrestrial．
3．L．penchulum．1s．
 bricated，apher－cal，chimuchled，latueenhate，rigid，entire，smonth．Spikes terminal，very long， and scare，distinguislable from the haren parts．

Nat．of 1 mbusima．
i L．fitiforme．R．I，Phtegmamis Liun．Wall．Cat．1．62，No． 133.
 smonth，：um cutire fuike＇filiform，mumerous，lichotemons，and witen is long is the rest of the plant，sumbes throfof nposite，orate，scarecty lonerer than the capsules．

Sat．of＇sumetra．
Willemins lats the figme muy thine like it．
5．J．rolundifolium．R．Whıll．C＇at．（iJ，N゙o． 2183.
Parasitic，dromping，（ご－3 fict lomes．）fatives upproximate，opposite，spesile，bound－oval， entire，sumoth．Spikes filifinm，dichotomons，scates thereof approximite，opmosite，ovate，length of that capmale．

Nat of sumatro，und a most benutitul species it is．
f．Lyctportium aristutum．IR．



From China this prety little species was brvight to the Butanic Gamien at Calculta in
 \& mi, f. \%.






## - Vett. it till Meders.








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11. 1. freme f. ho.





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Hht-if i f the Howly M W


## CKYPTOGAMIA Fll.I(ES.

## 

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 want.

 aud yike to en h divins.
 tum, thmu the tivore de ernbed phut.
2. O. filiforme. R. Icon. Roxb. 14, t. 86. Lỵorlimm microphylhum, Br.

P'cremini, scaudent, filiform, mooth. Fronis conjurate-pinhite: leatiets subcordate, with the spikelets of the frnetificetions on their unterior margins.

Tajuria valli-pmona. Rheerl. Mal. 12, f. 34.
Adiantum volubile wintus. Ramph. Amb. $6, \ell .32, f .3$. Hydroylossmm seandens, Willd 5, 77 .

Nat. of varions parts of India, time of fractifying the miny senson.
Root ruming moder the smface of the gromme, towards the apex olive, while the ohler parts are of dark rust colour, ind vilhons, about as thick as a grose-quill, from the the desemd many ramous; dark coloured tibres.

Stems iswn from the laree creeping ronts, altemate, semendent, filiform, flexnons, smooth; their penmal lenerth from 2 to 3 feet, and very shemer.

Fronds alternate, conjugate on a very shorl common potiole.
Piance 2-3 ine hes longr, comproed of about four pair of alternate, petiolated, sub-eordate, smooth leallets. The tertile ones are deeply ent int, linem aryments or spikelets: om the under site of which the froctitications are bolved, in the sam. maner as in $U$. scientens.
3. O. scandens. Linu. spee. pl. 1518. Lygodium semibipimatum, Br. Wall. Cat. G3, No. 175.

Poreminl, semudent. Fromds conjugate-pinnate: leatlets linear, bearing the spikelets on the whole of the wargin.

「「jura-valli-puma. Rheed. Mal. 12, $t$. 33. IIydroghosum piumtifinm, Wilh. у. 80.
Nat. of the Helay Islands, C'hittagong, Matabar, de. Is common in most parts of Indice. Flowering time the rininy mad cold senson.

Root perenuial.
Stipes scandent, or twining, and of considerable extent, several yards often; :bout as thick us in mek thread, and smorth.

Fromds patred on common, altemate petioles; componnd and decompound; leaflets or lobes therwof tapering from the base.

Spikelets on the mangins of the leaflets, resembling lecp sermatures; they are imbriented with two rows of seales, cerch enclosing a single, ovate, sessile, 1 -celled capmene, containing innnmerable, minute, yellow steds.
4. O. Jlexuosum. Linn. spec. pl. 1519.

Peremial, seandent. Frombs eonjugate-pinmate, varely bi-pimate, the baren generally palmate; lenflets suhensiform, (lung and narrow, bearing spikes on buth siden.

Beag. Bhwotraj.
Vulli-pmma. Rheed. Mal. 12, t. 32. bad.
5. O. furcutum. IR.

Scundent. Fronds dichotomous, ultimate divisions linear, rery long, fincly pinnatifid, with ummerous minute spikelets.

Nat of l'allo Pinang.

## 7. OSMLNDA.

Capsules subglobose, disposed on a spike, or back of the fronds, 2-valved, 1-celled, opening trancrersely, withont :m elastic ring.

1. O. zeylanion. Limn. sp. pl. 1519. Ienn. linxh. 14, t. 88.

Furetifientions disposed on a single, subeytindrinl. canline spike, eomposed of several sphericul, 2-valved follienti, lodged under the lacerated segments of peltater rewtheles; opening on the ont ide, ne:n the base, and emitting numerons winnte grains. Firuds pinatepedate; divisions lanceolate, wawed. Beng. Iikbeera.
Ophioglosmm laciniatum. Rumph. Amb. fi,, 68, f. 3.
Hoot, a creeping larger shoot, with thick hurew, wheh every sear mishes forth one new frond from the mex, while a portion theenys af the other end.

Stipe (i-8 inches loner, erect, nearly round, and smonth.
Frond solitary, pedite. Leaflets thereof laneconate, with their margins much wared, and irregularly sealloped; smooth on buth sides; veins mumerous, very fine, expauding; leugth from to to 6 inches.
spike from the aper of the stipe where the there first divisions of the fromd are inserted. Scape nuther shorter than the -tipe, (spike) suberlindric, sbont oue-third the lemoth of the seape, elasely covered with the frutitieations.

Finctifications generally from It to 6 ; minnte, spherical hodies, elosely surround a small, short, smide racredly peltate receptacle, which mites then to the common axis, or rachis.

Nat. of Amboyna and Bengal. Frnetities during the rans in the Botnnic Garden at Calculla.
2. O. lanceolata. R. leon. Roxb. 1.f, t. 89.

Scapes radical, naked, cylindric. Frouds simple, lanceolate, waved, and sealloped.

## 8. ACROSTICIUM.

Fructifications oceupying almost the whole of the under surface of the fromb, withont any other involacere than little scales, or hairs interspersed anongst the capsulus, wheh are girt with un clustic ring.

1．Acrostichum rz + ticetm．P？

 natryis








 Cat．1．© $\%$ ，No． $1!5$ ．



A．australd．Tahls．xy bolie．1，t．25．
 ravely exeent if in hes．

4．A．s－i；i matux．$R$ ．

 the uiver surfe．

Int．of the H Hary J．sin ats．




 the stipes in ther wh．





f）．A．ldme．$f$ ．




7． $1 \& / 8$ vorent．$R$ ．





## ？MOLソリणा！は．




## 

 （quol a men dat minn．）


 from the hro athl indrin．）

Nut．ut the M slay lstads and Pullo Pinatg，whence introuluenl iuto this Gurden by Nr W．liovhurgh，itur．






 expally diame from the nerve mod merin ；thomph when the fromberow old their marging


Intoluerenome．Whila the frombls are gome，the－pots are clutherl with the same stellate dimu mhich clothe the froml umberneath．

2．$P$ ．allenulum．$R$ ．

Parasitic, creppine, ctipes altornate, smouth. Promeds linerar lanceolnte, wather obtuse, much


Nint. af Prillo Pi=a a!.


 obscure.

Beng. Chittera-homall.
Nut. of Bragul. Finmd near Calenta on the trmass of large old trees, de. where theres is mull shat :and hmmility.


 olive monns.

Fronds mmerous, ercet, suls-sessile, simple, lance blater, cutire, weinless, fle liy, wey smoth on both sides; from 12 to 21 inches loug, mad fiom 210 b broul, fortile and barem fronds aliki.

Frectifications in mimete dots, irrequarly seathered over the upper thind or half of the finud,

 tifinl bripht shiniver grok colnm:

Stipes sëly neme the han. Fromls ( 6 - 12 inchas, lanceolate; cutire, smonth. Fructi-


Nat. of Chillagong.
5. P. pertusunt. if. Icon. liwi) 11, t. 21. Wiall. (int. p. 10, No. 267.

Parnsitic, crepuing. Fromls lameonlar. fleshy, entive, nemminate; abowe smonth; mater-


 brown wolly roxts, inforwern with varions kinds of mase, Ac.

Stoms abont as thick is at puck-himean, conared with limk, rint eoloured seales.

 stellate seale like the stipes. Ths tertile are in remeral marower towarts the point, with their margins involute, so as to appar like sube limbice spikes.

Freetificalions in derp piti wer the exterion portions of the fimula.
 No. 269.

Paraitic. Fronds lameolate, entire, acmanate; dowuy underneath. Fructifications over the eentre, and nenty hid hy the thimk, soft, stellate down.

Nal. of Hindonsta, on tminh of trees.
Root ramous, everping amomat moss, \&c.
Stipes from 2 to 3 inches hnes. chathed with sott, stellate, white down.
Fronds all lanceolats. cutire, bugg finc-pointed, upper smethe pretty smonth, bat like the stipe the muderside is clothed with soll, sullate diwn ; bongth ahmot six inches.
 nearly hid by the thick, anft, of thate down, aheady mentioned.
7. I. phymatodes. Limn. IIrant. 30ti.

Stipes smoth; fromit from simple to beine dividel into as fir as five, or more, linear-
 Insoluere woun fombl.
P. scolopendriv. Burme. Flor. Surt. 232.

Nat. of varime pirnts of Ludiry.
8. P. quercifolium. I (onn, Roxis. If, t. a6.

Para-itic; barren fromes sersite, avate-cordate, slichtly piunntifid; fertile ones longstiped, and dequly divided into longs sublinear serments. Fructitications seatered in momeraus minute spots oree the whole of the hati of th. laves.

Pamme-kelenco-man:wati. Rheet. .Mal. 12. t. 11.
Polypotium Indicomm majus. Rtumpht. Amb. (i. t. 36.
Bellg. (incom:
Nrid. of various parts of Indic. Is a large species, frows on trees, with slowly creeping, broad, thick, fleshy, sealy-fmmentose shoots.

Root ereeping, slonit, theny, eoveret with a thick coat of long. filifom, flown, seales.

 smonth somewhat winged petioles, they are deeply pimatitid; pime alternate, tapering, smouth, entire.

Fructification in numerous dots ower the back of the pimme.
Capsules most numerous, each supporterl nin a lour slender pedicel, subglobular, 4 -jths girt with a necklace-like clastic ring, 1 -celled, 1 -vilved.





 turins: tha 1 alı.

 int) \&lt: yrem!







far, cas $1=11$.








$11 \mathrm{~F} \cdot 6 \cdot 6 \mathrm{l}$.





## 



 the thil: : 11 | 1-1 :

 llmias (l) mir 4.






 gin atu I ral.















 vel $\mid x, i_{1}$ silus.

Jincul $r$ 'u 11 remit.rin.
12. P'. frorzelto. I?


 rour d.

Nitt. of Smboyna.
13. P. rupestre. R.
 lanceolan, suarely creme. Frmetitiontions solitary, (finming a line on cach side the nerve,


Stat, of Pimeng, muoses shated roek of granite.
11. I'. ralicans. Burm. A×pidium auricnlatum Siw. Wall. C'at. p. 67, No. 2233.
 shoots. Fromb pimate; sterile leathets oblomer fertile cmsitime, with base trmente, and there entareed on the nuper anerle; all are obtnse. Frnetitications in a the near the margin. Involncrer rombl-vistorm.
 most likely intemded for the same plat.

Nat. of th:r . Whatay Islauks, de.
15. J'. unitun, isurm. Iron. Roxb. 1\& t. 100 .

Stipes mmonth; frome ( $2-3$ fied higli.) pimate ; lentlets barren and tertile alike, ensiform, servate, villons umedneath. Fructiteotions generally seattered, mud nenter the mawrin than the newe. hnvolume ciliate.

Pilix Zaymic: Butho. Zyy. 1. 11, fi. 1.
1 doubt it this is Westontaines Burbery plant. Wis deacription does not well aceord with our Easi Indien species. Here onr la flets are not pimmatim, but serrate, with a sume line of distinet apots, is lithe remosel from the margin. It is prolebly a $D$ eallin or Dicksonia. Tufortmately I nerverten examining the involure shen I had it in my power:
16. I'. somboroides. T'inthls. in Limn. Traths, L. 311.

 single line of spois on earh side wf the move; sometimes they form an wealy continume time near the maryine of the invisme.

Fat. of the Molueces, \&e. l'ructitios during the miny semson.
17. ". prolifiom. R. leom. Ronh. 11, t. 101.

 lines paralled with the reins.

Berg. Dtpu.
Ilind. Kinll-ke janp.
Nith of bengal, and the mone interine parts of Iarliz. (ixows among brushwood, leng gruss, $\mathbb{S} e$. in moist shady places about Culentia ; finctilies during the latere part of the many season.

Root erecping, flexuose, dark blachish mat e olour, with many fibere of the sime line.
Stipe smooth, chamelled, as thick as a quill; of varions bingths accordins to soil, se.


 beautitni, parallel, divergins Ve ins, eachembing in the apex of a noteh; the latgest are from $t$ to 6 ineles loner, thone of the tail small, often latstate or 3 -lobed.

Tail. imge, samentons.
Note- In luxniant phants the tironds are frompontly ramons, that is here and there a simitar fromel prowims from the axils of the 1 motects.

Frotefificulions numerons, minnte, approxionte in parallel lines, one on ench sidn of the diverging reins; cich tot compened of is mather of minute, perlicelled ghombes, wint with their brown erenulated, elastic riugs there is a constant sinecession of them for a lengeth of tifue.

Sole--It may he $P$. unitum, as it nurees better with the linnomn whinition of that
 maica, than with the rethnition of $P$. parasitiom, thourh the tigne of that pecies in Rhe ede's Hortus ALalubaricus agrees with this plant tolerably well, the tail of the fromes execpted.
14. $P$. ac!minatum. $R$.

Fronds altermately pimate, smooth, ( 3 -fi feet high;) leafets ensiform, enspidate, with base trmuente, sermate, ammatnes very small, but distinct towards the wp. Fructifications in lines parallel with the reins. luvoluce minnte, and soon disappears.
19. $P$. mucronatum. R.

Fronds ultermatcly pinmate; stipes somewhat lmiry; pinma emsiom, aentely serrato, finely acmanate. Fractifications in mmerons minute spots, arranged in lines between tho veins; no involnere.

A native of sillet. In the luatanie Gawden, ut Calculla, it grows obliquely to the lecieht of shont $\because$ feect, and timetities dming the cold season. The textmre of the henves is hared, and glossy : the aper quite ensiform, the seratures of a middling size, and very acute.
20. I'. tenernm. R.

Fromels altornately-pimate ; pinme lincar-lanceolate, gasli-serrate, acmanate. Frnctification in afew sputs on emelh side of the veins: insolncere raiform.

A native of Silhet. In the bentaice (imadnat Calculle, it grows to the height of from 12 to 18 iuches, is of a delicute soft texture, and somewhat villous.
21. P' ruspad trm R. I' wryphyllum. Wi:ll. ('at G1, No, $20 \Omega$, (yuod nomen delendum.)







 one vide.



 large, :oumbl entive, l mmautut.

Nut. of Si binen.
24. I redut int $R$.


 parall. 1 with the vitrs. lit in thente.

Nै $\ell$. of 1 at ylyaz 2 .



 ane retim.














$1 r^{\prime}$ of $1-1-y^{2}$.
24.1 q. $R$





Xit al Aminet












Aat of the IV lu er I, lands.
31. I! furnat am. R.
 limear, preatrato pinm thed swement.

Finmal in the fintats of Pallo finkat, rmang wer fallentres, de. de to a great extent.
32. P muliff rum. $I$.




fiut. of - luboyna.
33. $P$. confertum. $R$.

Stipes smoth, ereet, "( 3 I feet high, fromis from bipimate below, to hipimatitiol, and
 ments brod-ensiform, sommbat incurvod, tionn gashed to whemerly crenate. Fractifications in numerons, large, frowded spots, eworing the whole of the back of the froud.

3.1. $P$. confluens. $R$.

Stipes sealy: fromls ( $1-2$ finet high,) smonth, lipinnate at the lyse, becominer lens com-
 flueut, fom entire to serrate, or cean pimatitiol. Fructilieations in two line p parallel with the nerves of theremments.

Nat. of Chittugong.
35. $P$. squarrouscme. $R$.

Stipes to the 1 , of the fromel chethed with long, brown, racged acales and hairs ; fionds Inemp, altermately-hipinate. (\%-3 fict high:) pima linear ; hathets subtrimghlar, mucomate, and acotely jarged, partionlary on the materiur margin. Frnctitications fiw, whl larer, in two pows. Insolncere pill ite.

Found ly Coptan Handwicke on the tops of the numatains between Ifurdion and sirio nagur.
36. P. seariosum. R.

Stipus clothe ! with acarioine, smly hairs to the top of the fiomuls (which are 3-5 feet high, )



Nat. of Ambroyna.
37. P. impulier. R.

 distinct; on the exterior conthent. Froctitications in two lines, paralled with the nerve of the leatets. luvolucre obecnec.

Netht of A mboyna; un elegant, firm, puli-hed speries.
38. P. affine lumst. likor. Alnti. p. 8is.

 tifications somevhat meatered, inserted numgest hairs, on clevated receptacles. Involuere obseure.

Nol. of Ambeyras.
35. P. ceatumi. $R$.

Stipes smosth; fiomde (many feet hight) alternately thpinantifid; pima linear, fine ser-

 ments: luvolnere obsalle.

Nial. of Ambormace.
40. I' Midentutum. $R$.

Stipes smooth. Firomb (of a delicate texture, $2-1$ fect hicch.) altermately tri-pinmatifid;

 and sumble in two rows of solitary sput, near the base of cach of the segments of the leaflets. Involucte obscure.

Sut. uf the Island of Bundat; :m elemant, finely-avidel plant, wi a suft, delicate texture.






Nirt of the Fstund of Mominaoce. ons of the Mloluccas; yet I cmnot think Rumphius's Patmifilix, 111). Amb. vol. 6, t. 27, is the sutme.
42. II. futimem. IR.

Standent. Stipes rourg with mimite mikles, (like the tongme of a cat ;) frombaltermate-

 late, ohture, incurved. Frmetitieations in two erowded limes, parallel with and close to the nerve ot the segments. Involucre obsecure.

Nat. of Abboyna aud Puflo Pionny, climbing, in open sitnations, over fallen trees, de.
43. 1'. dutrum l?. Dnvnllia Roxburghii. Winll. Cat. G6, No. 2018.

Frouds ulteruately quadri-pimmatifil, smonth, (eereal tied lighl ;) its nltimate divisions obtuse, temding to be traperifinem, zud mome or less doply gathed. F'rnctitications in solitary spots at the bottom of the fissures of the leathets. Lurolucre opens on the anterior wargin, forming a ponch.

Nat. of the Maluecas. Is probably a Davallia.
4.4. P. cemulum. - 1it. Kero. 3. मifi.

Frouds cuadri-pinmatifid, snooth, and deliente; ultimate divisions narow-trapeziforms oblong, sides pimatifid, or gasished and denticulate at tip. Fruetilicatious solitary on the segments. Involucre reniform, peltate and ciliate.

Iat. of the wountains n m! ut Rokilcund.

## 10. ASHLE:HIU.

Frretifanti ms disp osed in -traigl ty -ubparallel lincs. Incolncre origiuatiug laterally from a rein, ami - purati = innard.






2..



3. $1 \times 1 \mathrm{~F}+\mathrm{I}$.




1. .㕸, in, .41.
2. 3. , तlton . R.










Iiz. il $1!+1=1!142$
 1. 11 ใ. . 3 .)










\&. f randalab. 1 .




!. - f. ellotrai. lial.




## let. it I- (m) तr. <br> 11). -1 tines $K$





İt. it -
11. A. isit, \& $R$.


 ds minte.

In hedit 1 lin sul nonlueres, it apmonelies $t$ S Smith's claracter or Ifemionitis. 1थ. .1. 1.1 . $K$.


 doab! I Invelnere in Lle singlo lines, soparatiug inwardy; in the dubble, buth ways.

13. A. mallijiorman. $R$.

Frouls pimate, (3-6 feet high, with augular, haidy petiole; leathets mumeront, altermate,



Dat. of the Malu. Isterads, muder the shate of trecs.
1 f . t . biminnclum. IR. Icon. Roxb. suppl. 5, t. 1.
 ensifom, smouth, remutely eremate, armatate at the hase. Firnetifeations in minate, simgle, parallel lises, on the veins of therements of the leathets. Involucre separating inwards.

Fial. of Amboyna, but introluced into the 1 istimic Gimeden it Calenlla, where it fruclifies dinving the rains.

Root, the mited hases of the stipes form smmething like at very short, ohligne, ragged, blachish one, or : (rathk, which sembls torth mumerous radicul filmes fut, the qromad.

Stipes is inches loner, nat.ly 1 -xided; upper side groovel, toward the bise somewhat scaly, otherwie they are smonth.

Fionds alternat ly bipinate, owate-oblong, 2-3 feet fong. Pimuer alternate, $3-12$ inches long. Pinnules sulb-opposite und altermate, sessile, cusiform, crenatr, batse truncate, smooth, $2-3$ incleses longe.

Fructificetions in parallel lines.
Inoriucre oriminating from a vein, separating inwards or both ways.
15. A. cieularium. Lina.

Shots erecping, semly: stipes alternate, polished; fronds ntemately subtripinate, as broad as long, ( $6-8$ inches high ; ) altiante divisions subovate, with the unterior matrints ere-mate-demate, firm, and smovth on both siters.

Nat. of the momntains nom th of Rohileund.
16. 1. tripinatum. R.

Stipes poli-hed, moned ; fromds (2 fect high,) alteruately tripinnate; ultimate disisions thereof wedge-shaped with their apicco pramorec, decply nutehed, mad gencrally two or theeflowered.

Nat. of the Molueca Istands.
17. A. woodicardivides. R.

Stipes smooth; fronds ( 2 feet high, ) subovate, smonth, alternately-hipinnate ; leatlets brad-ensiform; those ot the inferior pinme pimatifid; of the upper more on less serrate. Fructifications in oblong spots aloug the nerve, but forming a shar'p magle with it. luvolucro separating townds the nerm.

Found at Chiltagong by Dr: Buchanau.

## 11. HEMTONITIS.

Fructificalions digested in seatered or branched lines, eneh of them double, with a rein rumbing betwern. finolucre originating from in rein, mal cach sepuating outwarls.

1. II. cordifulia, R. Leun. Ruxb. 14, t. 103.

Fronds cordate, obthse, entire. Liues of the frnctitications decussisted, forming rinom. boidul interstices.

Beng. Chaevoly.
Nat. of Bengal. Grows in a rich wet soil about Calcutta.
Root fibrous, peretnial.
Fronds oblong-cordute, obtuse, entire; suonth on the upper surfaee, a little hairy under-
 Stipes slender, chanalle l, woolly, dark purple; from et to ie iuches lomer.
Lines of the finctification decussiting, numerons over the whole muderside of the fronds, leaving but small oblong interstices.

Cupsules most manerous, short pedicelled, girt with an elastic ring.
Seeds very mmerons.
2. II. reliculata. R. Antrophyum reticulatmm. Kiault. W:all. Cat. 61, Ňn. 40.
 of the frond; reins and lines of the fructifiention reticulated, forming sublanewhic interstices.

Nat. of the Moluccas.

## 12. SCOLOPENDIIUJ.

Fruclifications in seattered donble lines, plated betwen two reins. Inrolucre oricinating from the surfiee, (or rather irom the reins, ) lying over one wother lopgitudiunlly, and separating ly a longitulinal suture. Simith.
S. lunceolatum. $R$.

Parusiticul, creepiog. Slipes polished. Frouds lanecolate, entire, acute, the breren greatly larger, mad with shorter stipes.

Nut, ot Chittagong.

## 13. BLECHNUM.

Fructifications disposed in two-parallel lines, approaching the nerve. Involucre originat. ing from the surface, contiaued; sephating towards the nerve

## 1．I3．angust juitum．$R$ ．


 seture．





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3．$B$ dत्याणना $R$ ．





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## 1\＆．リTにRに













N．5snter．rimil


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 in $h_{1}$ ．



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Nist．of the Mil a 1.
 62，Xis． 111.



 ङเथ！．

Boot（or rather stom）crecting under eromul．






 Iwo－thints or turne of the（tertite）pithe e．
 inn $r$ aill．
to Pleris amplexicules（Hus before min）：this cumey the hearest of ans other I have
hitherth met with, yet dillies ersentially.
L-t. Hure (in i's. rilluli,) the stipes rise single from the creeping stem, nud are long and polished. There (in $P^{\prime}$. ctmplesticautss) they grow in tufts und ure short, and whon ohl, scat Hrons: whill younr, iowlly.
21.1. Hew the pinum are not cularred into a stipectasping base; taper to a very long


 (ynod nomen delendma.)




 timess pam-iticul.

Shipes hort, on the for part chand led, wonlly, from 1 bo 2 tien loug.




 the terminal leathe is then as short, or shorter tham the rest.
(6) P. limearis. Ph.




Sit. ut Amhingna.
7. P. scuudens. IR. Ieun. Foxb. 11, t. 107. Lomariar scandens. Willd. Wiall. Cat. 6, No. 3 (i.

Stem eroping mp, and ovel large trew, Stipes somewhat inmed. Fomeds altermatelypimate; sterile lenth ts limen fancerlats, uentely serrate, enspidate; tiotile tiliform.
 Pimma valli. Rhect. Iful. 12, t. 35, the barrent laves.
Vert. of viribts parts of India; very old plants only frutify durins the mins; and when the involucre is hinly opron, it may be taken tim :m formstichun.

Stems alout ns thick as a mand, creppine uh, and over trecs of the hirst marnitnde, flexmose, mondar, therably smooth, exeept lio litth, rather warp, warty prickles scattered over every pirtt.

Shipes alternate, fromed on the mper sides, smooth, execp for a few very mimnto pricklis; hareth (1) the pinnte tron h to le inches.

Foomels pimnite, almat 3 fient lome, frooping a little.
Leaflels (pimue,) from torn to twenty pain, alternate, sub)-smaile. The barrens lancelate,



 and when still mone manned, the edges of the hatheta and involucre become involute, exposinh the mumerns mimete enpules as if it were in aspike.

Linolucre merertain.
8. P. luntaht Retz. Obs. 2, No. 99, t. 4. Adiautum lunulatum. Burm. Winll. Cat. 61, Nぃ. 77.

Stipes in tufte, pulished, bhark. Fronde ( 6 - 18 inchere) longer than the putioles, recurved, alternitely piamate; leathets petiolet, somewhat crescent-ahapel, smooth.

A renkit. Rhead. Mal. J2, 1. to.
Hind. Kull-k'lta.
Common in most patio of India, sometimes the murcin is broken, when it. resembles an Adiantum, and is very like A. iuntutum, but at ali times sufticiently distinct.
3. I. mullifila. R.
 pedato hipinmatilid, with lung chaiform, acher segments.

A perwitrial, dogat sprecies. Tha birren frombe abont a liot ligh; the fertile from 2 to 3 fient. It is s mative of the provime of Chillagong.
10. $P$. बimidiatu. l?. P'eris schipmata. Limn. Wall. Cat. fie. No. 97.

Stipes polishat, hown, fromds ultemately-semi-hipimut ; smoth, (ahont 3 feet high;)
 de ply pinmatitin on the mader ; serments therent antire, linen'obleng. Frnctitications romil the whole maryms.

Nal. of Challagomy. Is one of the mont beantiful Ferns I hase ever seen.


 Involnere brown, with hacerated margin.

Nat, of the mountime north of Rohilcund.
12. $I$ pretinata. R.

 cxcelt the very aljex.

I If. of the . M luce ss






Vest. if flat M, I . . 25.
11. I' gravili. K.





15. 2'. 'riji i. i . li.




It. ifth $\quad \therefore$, s.





17 l', ' rjuíze R.






 dui ins inemr.





 cludel.' 1 \& \& 16 t $t+1$.





## 1\%. V11T.1RI.

 fram : ut. "

1.1.1 $\quad 1.1 \%$ 1 1. 1: 1h. 11. 1. 1t.)
 emostl. ti un I t. h imelst | 11 r.)

Irrji li itt. f iod
 laxb 1 h. Jurt.

L'shatice with manerous fibrons routs, adisering tu the lank of tree or putrid wurt.
St m "are ass.


 जान.
 dle of the fron l tw within half an ineh. or an inch withe apex, with a donhfe involnere.
2. I. diverg ax. R. Wall. (ist. Gö, 大u. 2101

 tifientims ats in I'teres, latt with rlumble intulatero)

Fiat of Prime of Hisles' Islawd, where If: W. Ruxhmerls, Jun. fuund it growinó in coul hiady placo.
3. IV resecta. $R$




A, \&f, uf Chillagong.

1. Ir lunulalı. R.

 timet line, on the antorion and ex erior margins. Involucre donble.)




 chlar. (hwolucre lonble.)

Nrt. of Ireince of $\|^{r}$ ales' lskand, where it was fonnd lyy Mr. Wr. Roxhurch, Jun. growing OU that trunks of treats.

stipes polishat, as lems. of long 1 than the sumoth, altemately bipimate frome ; pinnzo
 Fasla dentate. Line of filuctitications on the ant rise marron, had interrupted by the beaks thereins. (huvaluere shanhle.)

IHmbl hy Mr. W. IRoxburgh, growing on the pround, in shady eool places on Prince of $W^{*}$ ales' isturid.

## 16. LINDSARA.

Fronclifeations in summinternuted line, a liftle removed fom the maroin. Inculucre


1. L. vilorata. I: Icon. lioxh. 11, 109.




 rather be inslined to comsidev it 11 Mymenophylum, if any thing likn 11 colnman conkl be fonnd within the inbulurve.
2. L. bipinsata. IR.

 teriur-extion margin. (luvolucre origimating from the surface, contimud, sepabiting ontwards.)

Found by Mr. W. Roxhmerh on Prince of $7 H_{\text {ales }}$ THICnd. I am mot certain if cever tho thin edge of the haf is tumed in (over the inner) involncos. I am rather inelined to think not ; at least l have not heren able to dienover that it is.

It is excending like Titlaria parasilica, and only a little larger, and more robust.

## 17. ADLANTUM.

Firelificalions in roundish, separate, mangimal spots; monder, (mud inserted into, the rea


 there proliferous ; leathets triangular, anterior margin pamorse, and more or less divided.

Nat. of the Mlulueces.
2. A. convedatum. Mant. 308. Lomi. Koxh. 11. t. 110.

Stipes purple and hairy; fromle (ti.12 inches luncr.) alternately-nimate, failed at top, and there proliferons ; pinme subtrupeziform gashed. Wroctitications muler the retheeted nuises of the divisions ot the pimas.

Adiantime caule vellexo. Burm. Zeyl. $5.5 . f$. L. has the leaticts longer and murower than I have met with.

Fal. of IVirdoostan as well as Crylon.
Root perennial.
Stem none.
Fronds simply pinunte, sleuder, seclined, about a foot long; apex often leaflear, aud striking root.

Stipes a litte villons, moma.
Leaflets alternate, suln:esile, subtrapeziform, the materiorexterior margin fiom three to six cleft, (with the firnetitications on the (xterion marins of the divisions, postarion ind in-
 as murli in breadth.

Fructifications, " large whing eluster of minute cingonles, on the under edire of the mar gin of thu divisions of the lenflets.

Inrolucre sinple，separating on the inner side，being a coutinuation of the segmento of the trathets．

3．A．tenerum．R．A．Cupil us．Rimn．Wall．Cat．61，Non． 73.
 divisions fium－phtioled．triargnherly wedge－sidaped，and often deeply ent on the anterior，irre－ giadaty rethelat muswin．
found on the worthern lmandiry of Oude，by Mr．A．（i）ti．It is very like Dryander＇s Lindse：tentre．Timas．Lims．soc，is，p．FI，t．10．

1．A．mirem hullum．R．A．Wetatbm．Inm．Wall．Cut．G1，So，\＄1．




Siet．（f）the monntains in wh of Pokileend．
In my generic chanecter of thi－－nu：I have ohserver that the litho monutat capoules， are inserted on the involuere its $1 t$ ，surh being the cave in all the above four species．

## 1ヶ．DAYAl．LIA．（心mith．）

Fructifu af ins in romminlt，＂prante tphta，netr the merein．Inrolucres like seales，from the surfore，di－tiare，s－puating mituards．

 firm anl puti－lind．Ins lurit lih，rate s．
 catent＂p the rmakn of trex－

2, l）lony＇s，＋1．$R$ ．

 like a promel．

i3．1）pe inala．Awith．

 row of man row approximatal duts， 1 ine u the nerve of the segment aud the margin．In－ Whatice lik．als．


1 D．ced fatio $R$ ．




Sist，of the momenins nortis of Robleas d．The lal it of this sp cics is remarkably hard aud sumenth．

3．D serrato．$R$
Iic lis 3 sinkel Irrmde altermtrly piun t；hafl ta hearar，firm and sumeth，scrmate． Frmetifioninus so itary ut eleh arrethri．Involure furmiser a small pouch，after the capsules （xparn）．





 remifurm，ot parating durw rda．

Fit．If the int，rim parts if Bengal，Nipaul，\＆e，The luarea are always erect，but when fored to ret outhe ground，their tiph take rent aml roxluce other phats．

Root tibatio．peremain．
Etem sedty，er a ping under the surface of the farth．
shper short．dhan cll h，cuverd＂ith lrown wistly smes．
Frons lin ar，or liwemr－hone late，wenty a font ling．Fertile and barreu nearly alike．

 ral lempth nik ut an inch dul a halt，mat has than half mu inch broad towards the base，and sex：of tho goung ereatly sualler．

Fructificalions in minerous，（almont one fior each sermature，diatinct spots，u＂ar tho zargilu．

Involucre remifirin，se parating on the nuterior aud exterior encen．



 crecilate and sparating ontwords．

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Mni.

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[^1]:    
    
    
    
    
    
    

[^2]:    
    
    
    
    
    
    
    bar-7iar! nt (incrias.
     prisco. Iturivila-lity.
    
    11, b, kirrhmm.
    
    Tirroly. lampre.
    Pore hand clill.
    Hutan!, or $\$ 1$ treth.. Mahrat.
    1 muth cultiramal alwnt Calcomta, and in all parts of Bengal. Köntred de-criptimn philisheal ly latzite, i- so viry evact and complete, that there is mothime lef fur me to ath.

    ## Culliralli,n.

[^3]:    
     come to maturity．

[^4]:     3.a bry ) inseras. and firniulael nith a perin]urm.
    
    
    
    
    $\because$ ( 1, fermenleite $R$.
    
    
    
    
    
    
    
    

[^5]:     W.1 Ifli; HUllucelt $u$.

[^6]:    
     tion of a plant which has alleady on classital natue．

[^7]:     abort descriptiom was sent to me irom C'evlon.-IV. (C
    
     ptased it. W
     all tho names here citeil aru so.-.IV. U.

[^8]:    

[^9]:    
    
    
    
    
    
    
    
    
    
    
    
    
    
    
    
    

[^10]:    - An improper name. certainly for the original wild plant which is nover cultivated: however as enstom has established it for the mmberons varicties therof, 1 cannot wroll attempt lo alter it in deacribing what I tike for the original, wild steck, from whence all tho cultivated varictios have sprumg, which I sun now descrihing.

[^11]:    

    1. I. wistata. R.
    
    
    $\therefore$ Beng. Jingented dal.
[^12]:    
     to tud clear, correct, specitic inarisis in the leaves alonc, will provo fruitless

[^13]:    

[^14]:    
    
    
    
    
    
    

[^15]:    

[^16]:    
    
    $1=1,1$
    

[^17]:     2u1 wis ! ! h, 1
    

[^18]:    
    
    
    
    
    
    
    
    

[^19]:    

[^20]:    

[^21]:    －With a？matkized decoetion of this gum．I tred to dyo cotton cla th prequred with alum，with，sus． gat of cead，and with at sulution of tial in dinargia；but the redn poluced thereby wero bad；that where ulinil was empluyed was the heat．
     The that it is as sjucios of Limenerpus

[^22]:    
    
    
    
    
    
    
    
     fumly

[^23]:    
     to be no diffurence whatever.

[^24]:    
    

[^25]:     kolut, แม入 Nivaidc.

[^26]:    
    
    
    
     more directiy that of Arbor albe major.

[^27]:    $\qquad$

