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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.



LECTURE TOPICS.

Ist Qr. PHYSIOLOGY.

- 1. Oct. 12. The Skeleton; Bones and Joints.
- 2. Oct. 19. Muscles and Movement.
 - Oct. 26. Circulation and the Blood
- 4. Nov. 2. Respiration and the Lungs.
- 5. Nov. 9. Digestion, Food and Drink.
- 6. Nov. 16. Nerves and Senses.

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- 7. Nov. 23. Planet Forming.
- 8. Nov. 30. Rock Forming.
- 9. Dec. 7. Sedimentary Rocks (a, Arenaceous, b, Argillaceous, c, Calcareous.)
- 10. Dec. 14. Igneous and Metamorphic Rocks (a, Granitic, b, Trappean, c, Volcanic.)
- 11. Dec. 21. Metal-bearing Rocks.
- 12. Jan. 4. Eurliest Rocks.
 - 1. Archæan Era; (Laurentian System.)
 - 2. Palæozoic Era; (Cambrian, Silurian and Devonian Systems.)
- 13. Jan. 11. The Coal Period (Carboniferous System.)
- 14. Jan. 18. The Age of Reptiles (Mesozoic Era.)
- 15. Jan. 25. The Age of Mammals (Canozoic Era.)
- 16. Feb. 1. The Age of Man (Psychozoic Era.)

and Birtils; Flowers in 50; Stamous inserted on the Calys (which directors Scamous as Inserted on the Calys (which directors in 50; Stamous inserted on the Calys (which directors would like manusculars)

6. Relaced Edunities. The Saxifrage family has like inserting but observed would be even at the Examples of the Saxifrage family which are will here are the Early Saxifrage and the Almorost. Cultivated examples are the Gooseberry Curant, Syringa, and Mydransea and Dentzia

The Pulse family or beginningse's also very closely related to

the Rose family, but is very easy of distinction: founds Solg Stort,

c. Importance of the Rose Family.

The hose tamily is in the first place, lago, cortaining 1000 species; I do winessal or almost so; 3d trighty mannental containing not adults have the shirt also and the flowering treet. I the leave for flowering treet. The shirt also and the flowering treet. I the leave fully from builting the more important prints of temperate

d. Kinds ,

climates.

The Rose family consists of 3 very distinct Suborders. In the first or Almond Suborder, which is to be distinguished by its fruit being a druper or stone-fruit, are included the Plumy Cherry, Almond, blowering Almond, Peach, Africat, Prume, Prumello, Storg Headlar, Mectarine; all of which are valued fruits of temperate climater. These species of the Almond suborder are native to the District, the Wild Plumy Choke Cherry and Black Cherry. Form others are to be found growing, escaped from cultivation; they are the Peach, Mixed, Chichesan Plum, and Black thorn. Over 100 species Miss a body with

POMER

Trees or shoulds; differing to rest of Rose fam. by Brist along Carpels address to sides of Calyn & more tess or card other; the overless only 1.5; order 2, seed 1.

Recultion in tendenciar to monatures thes; best order to study for morphological variation; best in the order is the Poar; of ach a permanent monaturally of 14 styles, 14 ovaries, 10 sepals in 2 moss, forward a link to Roseo; (& Pennus is seen so ton).

Localities; + in Eux NAs nous at bod, NAm; vare in NAes, O in Ab excor N stone & in Madeira; Lay in Sdock 12, O in S bensightee.

INO'S 16 genera, 7,00 of Lindley

Pear Apple

(Paria) timber mustb, for axle trees.
I. communds, Wid also band as Box; used by ood ongo

for Betanical Documentation

Social actions of June beary O steamer's June beary Series physilium Certane a steam Naipelia Series borouga Loquat Theriana Murcinometes Khay kologiis Crastaguas Thora Stohau akita Guinea Coffon's Guinea Coffon's Guinea

C. Uva Urai u microphylla have abdeleussic Br.

P dubia bank used in Nepaul to dye scarlet

Seeds milest fets used to onk a wine; find con,

APPIet, the bount; neplied to the eye-tall, as round; True origin under; Eure at originate raile? or a boll? Fick the it to an Box boom ABNIA of who also a suffer like Law ulus, Brag of.

As cept, coppel appell ormula

Offer appel busides took opth swedth aple, imple; Dan æble; Offer appel appel took athal God wholl Wafal Back aval Kush jabloko listhu coulys

So Skear Rhind quotes opan that it is allied to Br array celeir app

Alm unio special would in comps; thes in combels to last yet coved or one carry to give it 2 ye go noth; all culted one to would cook an

Age so single. Holder and on trees in Hereta's 1000y da whichy politics that rays 200 the ordinary like it beauthy tree grafted on a contract of the in a tag tracks soil. There in ordinal at Bureon-joyee are Nothing-laws, "60 yeard has 7-9 year the body has a Review joyee are Nothing-laws, old a streem in the front of your body of the body of the body of the properties of the body of the street of the soil of the following the soil of the body of the body of the soil of

Rouge where sales there, Maked ; cult to 60° N, vy good in tribunge & Shorlds; saly k km. N as in Logila other they shorted Lines, as A, who they so be extrained by a beginning to report the sales and the sales are the sales as the not be compactly a beginning to report the sales are the sales as the sales are sales as the sales are the

A have been to have to a marked by a soff at comment of whom the street of the case () of the

His. It considers the wild sale cuted As to he to he was be grobinessed; indepens in Eury Anatolia 3 of the Caucasus in Russia; cuten began early credity parts he made to the Wargane"; absence of an estellier made than early credity in the Rose, 560 in India agree that the cuten, new come in Rashmire. This term on the same und out they had in Western Angons had fate in Atree as dried up in India to they had he it, rent sty. Joel he most of the Atree as dried up in India in taldrie; Plinys ret is there to indie in cost of the are through the Greeks mad in partice, Holider, vod at my use copy fate observe Altonian p moto; a her confus, wolum. (Decapessus made vold a cutted pucha).

Basques In was safara, vol implied Pertyneet con Eury.

Probitatic vocuseocq/C. Get use of A and by inter of the terromore of Lama , of the palafites of Lo of Lembdy Surger Soite; due cut them lengthers a kept them died as proven for winter; experience of cortained by the tire into attact them the our oldy ocen; Heer the 2 leds A lenger Loberts berthey he needle; I comb, 16-24 pm. 1gthous; 3 name assess, in died a correspond to an anti-office Corromos, or correspond to an anti-office Corromos white new old coding deed. Engoded is seen of the of LDs may be to revide the office. Engoded is seen of the office Corromos white actual Corromos of the office of the office in office mediately, stage larges where

APPLE vose so penty used transferred of oth from a cotable that ordier uses of the ord must not be neety into to leasy offer to our A, but the ording bad its equiv in that instel, as in May-apple, - May-frie, the frait of our com Am Misodrake; May-apple, the truspied swelly com a Hales; Monapple, the four of the Phono-tive; Love-apple, old manne of the Pomatu when culd for bourge of frait oline; Bine-uple; Bine-uple, as the Bindelong, Arcedist-apple, come of Codars of the Roman of the Roman of the Misodrake apple, and the Bindelong, Tamis A, Sprakes when a form of the Misoner of the Misodrake apple, and the Misoner of the Misone

If so in our one Eng was, much me indet in anth to two certains do not be a party to the tendency of the names to the in a we ill-defined the turber took one go. So the apple of the Eres Apple, and the Apple of the Bible to getily is not to our A, but to feut an foody; so to be the Englisher much took A it is alm currilynes our A, but the Orange Citing White come to be A it is alm currilynes our A, but the Orange Citing White come to be A it is alm currilynes our A, but the Orange Citing White come to be A it is alm currilynes our A, but the Orange Citing

George not alluded to Meserthiner in Peter by they as it then seen range "A trees of long the let process over you have man marked inferior to rifer not be you that you be processed over a wall trees." Of a research over Continue they are good a longe A.

Shikep has 24 mosts of A;

An A clert in two lands me took Than these & decrease 18th 15,1.

tute of Charles Bone and Carlos Local Control of the a college of the Control of

How like Evel Ap doth they beauty peop.

If they sweet victure do a none was they above.

In the yet he meants inview A; "heads crunded lk.R.A."

Therefore the chain R.A." "bitten As" or with that light has," he to carry the sid. In a Kep it his sun for an A! to its root of;
"cowered like an Apple tweet," "Falstoff, "collowed like an old A has," a partie that does her, my or roofs to ope kis, he was seen all somewhe.

Emmentaries Mentional theorement if the very shower shed them apple bright or if the selection of the select

While stays DC, Some Ence exc down? Desatelles S of Cauce, Bere year Ghilour, one treat at them seem one threshis and by Bourgraue; one to be out mate three petits (in ; a, varie wild notice. 2, over in Fig. are called Motion constraints on los downsy bein, the polarisation of military to according to be seconded as Development Appropriately called in white of Military is and could represent a called in white of Military is and could represent the seconded to be proposed to be a more of the seconded to be seconded to be a more of the seconded to be seconded to the sec

Scood, passe : et Sroth Krabbaple, a C, Eyeus coconocia; perb while

Sheer miks much with of C; in Sy of Windows but he with you

Coaks hime held in ter nerestrin then ay than new; the reasted talk served where their for tropped de us there there " The stocke or kindred of Aplomar intrives "out have smooth pleaset fords So Reich in MND, 11,1,

And when one dole, agt has ligs I bot, And in her without deer by provide life. We hear in Klear 1,5, of one person being the across a C to an Apt " and of

. Mobile stock Was part on C tree slip South in 2 H 6, 3, 2 Survey of important to the fore thought fore those of Menericas for the

I you sheelet me bring thee wher Crabe grove,

Ferdine a doon (see stores, a strong ones, 150, 1,3.

Any cree is "any our paro trees 0 me besent than the C both in Ar about An old Conce in full the is a set that not delit any action has is it shop uselessing and it up bard x my besty x to its him why with is may prin in kr. 2 kind stronger, also and a univergous; (literating grown Julie; Fr. verjus MB vergeous verious)

Custom at the Couls wake or Coursbing the Parson or Stale sowers, Sho, on it Emerson July to he and by have, 4 344 Bolins aday one ious resent and some fine for the property to the state of the state

And the world our second toxise Pe drudge all day by Gang the color.

ME pere Chang CT. 18205 : AS gera pera pera las jieuro apean Pero-rece ME Recy Chances, Picie Peloroman; A-S picige Asses. Sna tible pearl is to population hospitar a little year? as Florace calls a pearl a berry, bacca) (Sp. peville, all pear red also for a pear chy o or a man; Oto perdo, a lie button many The peak a People was used for an onion & a heavy also).

Wild P 16-through k has upon the tought to present the malk apt; tough an spray baught; wild be sug & + in tratice & Surger to Bussia to lat 590; on also any soll: 184. told was to As cop Anaty Sof Cour, o in Nothers, Ot, prin in rathe repris ; prehistivice a Besteve to all cultur; be it is be D rivalle are the culturant.

Wild Lot Eng diff he fr som authors; for some operationered wood shall are early ed on on trees. Relapses to cultin acc in US

Take to She, Heby Deamaic 185; does not their in bot cos; betterly cult in Ind. Histo Homor Thought & Dissocides collie oxvas, amos, axpas:

Lat could in thing + vans. Mural pts at Dangeri of copy it to Leake-dules of Smorte volal parting Apl in qu, less sol; I sold for sungther stores her smit; I fol se Wangen or Ribonissusen, naurous belove, 12 1g. 1 voids out showed and pulp and to cartlens centre. Any to se lope di Vanere

grant of the total of the standard of the standard of the standard of the property of the property of the standard of the stan as so but to the our saile solo clared the trains often cettle went good, sook

must be shruck them, (esp the deshyport) No kn of metals or being in this pls; poss notolder Es bower than Every war or for of Rome, OG

Acyans certly did not the Revested but Ends it in Five may be give it the as they were used to grit, what em preus us surve, as Basque udarea & mudaria, the Go & Rom ditt no, the Armenian & Georgian pauta, the Hung vataller, the Star (Rus. gruschia, Boh, hrusda, Mur, Kruska) all diverse, pt to its and occurs of id bet those peoples.

Howev mks P one of the trees of harves ovehed in Lehaca.

In Egg Chancer has it in the garden of Japuacy, as the tree of who thirt

So long abt the alleys is he gon, Til be was omen upa to thilke Pery, Whereas this Domian streeth ful mory On high, amy the freshe leves grave, it Now sire, good she for right that may betide I matterials of the PETES that I see, To oten of the smale peres prene; * I tall gove a woman in my plit That she may dien, but she of it have,

... Wold ye vouche sout ... The pery in with your somes for to take ... Then wold I dimbon well ynough.

Shlesp make but I note to P; Ellac supto they are all unipleas in he ares take ballie respect for it; they are "as creetallen as a dried ?" Falcroft; "our te ovite-Let the too pd 25 there as Gerarde " the stocke a kindred of its ore 8hly motos 2 spil leds; the Worden P (somend to its orly) some the Cirtario Ally of Wardon Arbey, Bois, told 13th cy) - Safform is one the Warhow Hes," Northwestle. Valinson says the Red Wa the John W are recleared to

single the intexalt of Ps, in to take in retrast, for the sick or for the smuly similed the Quarthe Ware the only 2 builts that are premited to the side to eat at any line."

Ellow rando the Sathan-cild W Pies of Shk to are now replet by stewed Ps and in alchimost.

Ship alexantees the Popering Roes: Mercettle call Romes a Provine, Parlinson says the me 2 PBs, of Sun a Wing both My 8d, from due Board, Burde & Plendish poar, porh word by belond the andy, when HT and rector of Popering.

Kilm at to hope point in a dish of Po by the events of Swinstead, this old ble of raid acts has now "2 of a woman who got the hyperer". I po bone in some of Wordon Aty; end Wore; prob ngthed of W caleb then a more for ice Pe.

Generale with a vol was tranged lived sil the leds of typis ets, addy Master Kie Krinter has them all propy in his grad at Twickenham wrhom, who is a most curring a curious gratter & planter of all num of pare traites & also in the grad of the au excit frather so paintal planter, Master Henry Bunboury or the grad of a cilipent of met attent love of polity, Master Warner,

Rear much have cults by Franketh, over best over thus to them, we treen manes of corrupted, as have Bury for bourry, Commerciation for the children Charges and the control of the children of the control of the contro

Cult P diffs or Apl in our tendent to between in being as a seedly light time to reading (15-6'y), in being by lived (when on its own strik or a wild pour strik). Iws indugant for continues in they. Beau at Bussels to sign it is at in 4 by; they ow better 24 of the god occasing

Proported by seedy present methers; not easily by cuttings; a proved way is by grating or bready gently on our pear or writing; successful on median quince, sowner white beau; on quince or white them P is duarted a brot carlier has bearing (as top) is effected in both ways so by godg on the paraden or one pears and in the short the P cut in a prelific, or all there well even on the clay profit kin

Fire in cayonte not on the former is not told on spurs group act of word not off them i year old i projects spurs must be left all one one if this counted, the Separt this pich not as have as high but the growth of the tree is for more cliquety is and if one, it is causing roughened tout, which tall, prism shape; sheet of smorthist borns, is a lovely amount four old forders a lawns of may cold house to the

One of the horest alliens in his is firmings, Hack other my blooms I true in the before I can to the field & senters on the closer.

Blooms & descriptors

SNOW-PEAR Lynus niveles Jaquin, culted in Answ, Note, Ex count For I so and it to four a Schneebirn, bees Awar peasts eat its house who the more is another good, old by the Poinier eduger, Sagely bee und side of live is as we a cobite down on what them the long (fridaye). Culted in to work perry; being the me dide Cider Fears, twice towe; by you wild in the code oce; sal variables as ingestiming. General and cider right had this P; "Pecialisme this the Pin, to be to the Li hertochy and being water morned) och is wild in As Minon.

SANDE PEAR CHENESE PEAR, Pyrus sinensis lividay; virtualle to avail; wild in monget is a Mantohuria; cute in Chicap; hit is large rather than good; used in present; restly unveil in the gardens try arrap.

Laurinea, is the f contest type store coiled the Mex to Nick Wil to house mit bythe coiled could be the Mex to Nick Wil to house mit bythe coiled could be the County of t

SERVICE, TRUES, Lyou demostics, wat of Fig.E. It, was wild in Fig. 1000 only active in Bog; maid and twoe; live examil, primate, willow boa; protected to the first Lyong (or applicable of posts short fruit; vy sint, active only what and sound by you; peak acid flavor. Wood by hard, hornopeneous, quitable t paces, used to the metal matternation indert; in France used to the scenes for white presence; propagate seeds, cuttyes, layers, or really of the final chief of more to quote its cutty are account to exclusive any facility of the final chief of sound complete. The Sociological by Mitton Sadresce, Sociological is explain sicts at the Sociological as Sadresce as Sociological as Sadresce of soc

SERVICEBERRY JUNEBERRY STADBUSHNEAD BLOWN, AROMA, Amelonobice (anadessis, of N'US, called Any by Savnyards ROUGHTREE Pyers auroparia, CAUICKERAM, WILD SERVEE; MOUNTAIN ASH OF ROUGH. Blyind 445

Terliet 1 It is the Nepl x not the Larle Place planed the treased hollow of theme early Netly one dough on your P treas! I of what Kone much for Kussells Hills of Alegor, adapth a bod, may in addition the mound such a choice of Africa are not of P treas about the mode of Surgons of Bondia!

POME GRANATE Punica granatum Myoracoon

"Its scorlet blossme glittering folloge, rosy-checked a kernelled bruit, much have strongly excited the naystically disposed inagination of the nations of WAs is from the first." Its Sya-Phenician name Rimmoz is some as their sunged, Hoded Rimmoz.

In St. Venus is raid to have planted the tree in Cometic addicate Adonic; is in-

Homer in Odyssey twice wentions Ps as polar, xxxx. (The Atherians continued to call the bruit pox.) Doubtless the apple of discord was brothingined as a pomes.

first appears in a verse of Empedodes, 450 BC quity Plutarch, Bostians used order for P train, Ather page Athenous, the two quarreling start a briden had named Side, Egyptimodes sydderdy hold up a P Jacket. What old gray

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that the same part of the content of the same and the same and the same of the

of Sideve; Sibde, an older form at the name beings to tack to Caria; recleans set, at rimmon, sentic; pipa, a kind of large P; Nothal portal porai.
Kirura also for the bessara of P

Backacistor, " " " problem of word; bence Ital, belower, balantista, Eug. balantista,

Myths, Photon, Asian, Go, & Gr. Roman; syntal of tricting, & power tim; & obtain legend or Phogo, alwing, that P planted by the Furies grow on the grave of Eteocles; to the fruit it planted, blend broad.

Any a P w trut red as blod grow on the comb of Mexicileus, vote, obeying the Pelphic grack, & himself on approach of Polypsices.

Diopytics; Diopytics lay in a cave eur, by vives, apple trees & processmates, as tigured on the chest of Coppselus at Olympia in Hera's temple; made in let aprof the Olympias; their phby Pauranias.

Here; here statue by Polycletus in here temple, beton, Acos & Mycone, heldle one hand the scorner of course, in the bra P. Pausinias descrit, respecte letter symbol camer be expected. Them helds it the earth-pidess, further and below the manufacture of the control of the months of the control of the contr

Receipine; Pa significant part; Hymn to Demeter tells boro Bousewhose was forced in the world below to taste the pip of a p, is, write sexually to Aidonous, x because thereby subject to him.

Athens it could are be dedicated to feddoss of intellectual destings as P inspotically rymbolised the waxwal lite; until Cimon exected a statue of her on the ascort of the Acropolis, univerged, in her right had a P, to be left a belinet; bec be tod insiture the statue of the P allas of Side, a tron close to the limy med on obserce Cinsus bad prined a doubte

Been's weathy in Achaen cities in In is doubt retained the Gruse of the P. K it's cuts, near temples kin pordens; the stance at Olympia of Mile of Choten, a Mapra-Gracian other of 520 80, was reped as priest of Heraboar ing a P in lete hand,

Roman Ritual in the at older poets wentwas the P; the wife of the Flames head a P branch its ends tied together to white worl thread as agen of worlded toundity; & bee bustand's bood was adorned at top to dive brandy on. couract to Alder than the P & ovar intend into Ir. t. of the Parquins,

Imitorines of Pinchay have been found in quantities in the and timbs

of S It expectat Nota " Gerhard

Abrican Proces prob reddest, sweetest, juicest; pipless Abrican P Martial walter to orbe japped; bence Roman name for to Malun punicum Rudustary Hooking property for the crift of traps bearing the begann a little plant from the had but to have these, adding "Not were my over garden is nother that mule, but it is bondy onur, & not to be compared to the actor produced by the rosan swart Africa! Vandols in Atre no don't cuted it, Acodos lovers of these x reposition terrejuices" did so, calling in Forma, province whethe lacting names for it more, browned by them; the Arst and revisitance in the receipend was of from of P, bence the he derived their pros-Guranada, town dad by Morres in Dog is said to have been wanted for the P; figure of P was adopted in its arms, xedll adams all its errors spublic trailings,

Bourse westers mention the I can born Carron, Pling many Kinds, used

Mel Wild P, iel con wild, are in mod Is x ax, as thosey nedges to uneath mot. Even the cult omalen & diobecine them ope to Att; the beaut red It have being more placed outable be ofthe rather than cating, the Lemma having taken the platter anot in Ix estrem ; the people in ar will connect the P w idea of abundance x incolcults 20; Kotto 1834 coming to Place was style an old corneans book birm a fine Extrinibed film as many happy of as there were pipe in it And in Gar a present of the scarlet to is a symbol of the most ardent love"

Eller see 1, 169-171 Khind 559 In Bug-name gra Diffinite trackers tot E 1, "any male pravites, Walk's, and pro vine newtoning providerance in (b) 18.5° in 81.5 for 6 18.7 x 60.5 for 20 18.0 for 20 18.0 of 20 18.0 o

QUINCE and Remogramate were both included by the molente under the general name of Apples

InMythe, the a idealised was the Goldon Apple of the Heoperidee and of Atalanta

In Rites the a was the apple dedicated to Venus sused as bidst

In Customs the a consthe syple used in all kinds of first games & could not be water vaco, but on preserving in voice, must, vil, a expeliency, it gave them avery the seeman there,

History It's Grename Cydmian Apple proves it came to ark Crete, land at the Condinions, who while Semitic or not voere at its oldest & semi-mythic inhabs. They lived on the NW class worth Jandanus: their city, Codonia, mater whium of the a: fact of a named be it indicates earliness of its introd to Giv.

Aloman 650 BC montions it best, Steelehorus 600 BC, the Sicilde fore alle the brid let attribut the brids of the brids of montes mentation a Codonian apple - to consecrate herself to the sorvice of V.

Ibyous of Rhegium It, a born Italiote, 550 BC, speaks of Cod suppletices in well watered gordens, proving culto in It,

Italians early adopted its cultin; as indie by its Giv name latined as mala Cotinea (to Cyd-) ; " uby Respectius comparing toemer simplicity "Once the young people pave each other Q's shallo door to the tree, a tradectful of blackberries, but now it mustbe Gillyhoroers & lustrous Lilies!

Varieties sev, t, Pling & Columella; the malun strutheum littly openiore apple they execution, had been mental by Cato

The in t Pliny; as placed in rooms for their pertune as now sac's made a sweet consection or them like the modern Ital Ann van mentioned by Varro Horace Marriel, cotoppata. melimela, - honey syples, many suppose were but sweet applies there a var of a saited to cooking to must & aft, in boney; home Sp. membrillo, Portu, marmelo, quince jelly; marmalade to Percup. Span mountville was also exped to Spt. Rome time Galen.

Modern Q not com in It, much less than but an pineapple x orga In the E hower, & all over Liber, that region of preserves a contectioning the Q was in Mid Ages & is now a cheap a com sweetment at langers in the bassons; stilling proof of it seen in the variety of asked in in stoo nations, some being Pens & Durch words,

Chinese G is Lyrus Sinensis (Cydenia) st _

Taxan Q. P. Taxania or C. I., is Burning-bush or Flog Qu ot our gondons; goods bore occ a lit board trute,

Quince, P. Cydnia, see Rhind 14 3278 a DC p 2369 1DC condds it to Not locals, Sollane, a Mantolia.

Bloc, 7 181-183.

Saley mains 4, "They call for Dates & Quinces in the pointry", There is Rot, Chauc, Rothers producery honely trees they were

Mire Peches, Coupes x Apriles bossy Medlers, Plommes, Perys, Chesteyns,

Cherys, at the many orn tayoris, Quince & Copier Cyderia. .
Montinse, H. hec Cocionus, a covente

Vicebulary, 13 xx Hoc coccinum, a quoyne

Walterde Biblesumh, 13th cy, 155's troverez en ce verper

Estang un sek Coigner (a Connecte) Aumantee) They tol on the little ale Shear see for de histon.

HAWDHORN

Crotagus oxyacantha

AND colled MAR QUICKSER, HARTHORN, WHITE THORN, ALRESPEIDE, ever a townier or allower of English bandsope. HAVE THAT

Blace 83-6 gives au to Shlepe / browner Syensey

Digitized by Hunt Institute for Botanical Documentation

MEDIAR Meophus Germanico, avaid sod tranky tray bes worthy car washen ble; the wild, amed a reit spines; we oval, lanced, seeky woodly tour spex; pertibles by short channelled; this on eml nath opens at ends acides of tro; we bracless is as the petals; expals ends tasky petals. white; Ars June truly, ripe Nov. Notrisd rarely intry hadgenins.

Fruit res emtraples has god deal of Asor; not he couse of my ripe, seld or ner so whilm hee; timber by hard advertile. Storrymerically to great

age, supset to be not of S of Euro

Kinds; Sicilian, ins, rises to be a large tree, w straight stern a pear day mit; Buth M mt cutted in Easy not tally crocked a curity was; Ivo much layer trand common Mi downy ben; buit layer whie; Asora pungency interior to smaller ked, wh is old Nottingham M.

Ellacombe has of it " A fine M to full of bloms is a holom ormant to any burn; there see sew decid bees the mile bet lawn bees; O stiff about sprough or in researly youth ; it torms a low , irref, pictured tree, exclt for shade, way have whit the fold by the curins their; it we not hover do well in the N 1/ By, or do Chour gos it a vy promple in his descr. of a beauty gorden; Flore the leaf I was swore of the fairer Medion tree . That everyt in all my life like As full of blossomes as it ent be; Therein a goldmen, leaving prottle

First bright to be x as him list he cer Here Kehr of fulles showers sweet Digitized by Hunt Institute of But But Institute of But I

a ripel as votten." For the softness, there of the ripe M, come

Chauce That ille truyt is ever leager the voces Lillit be rote is mullilar We olde men, I drede, so fave ove, Pill ove be roten, can we notice, Sliksy. Theywood he mid me to a notten M. huis in Deas, for Mr. 14/3. Moro ool be six under a M tree, And with his mistress con that led of fit

Asmaids call Ms when they lough alone, Truly the tree yields bad four "says Touchstone,

Ill greath it to you (says Rosallad) x then I she greath it to a M; then it tol ! be the exclient fruit in the co, for goll be notion ever gou be half pipe, & that's the right cirtue of a M.

Shly has loc alless, Timor of Athylu, 3, wher Timor says he hates a Muchen one is offered bin.

Stear derives it be Lat mespilum, Miny mespilus, are 460 Hidor 1 by curious introd of d for OEs, this OF messier and Opioard messe. The fruit is prop in Eng. medle but strongere; the tree is the medler bec, it bears medles; in Six Beris of Hompton we find medle-tre; Romanut of the Rise, 1375, medler, a medlar-tree.

LOQUAL Eriotocrya japonica, explicat, for land, counter,

DRUPACEE

Trees or struke Iws simple Flor what or pink; I or in umbels, Soft of St. 20 Pistil overy only order style to rushed stig, revitores: for a Druge, Bk golds a sum; nak god prod Hydrocyanicho than in Rosetty monsorous flums or + overies mk link or Roses; betwo heprin & Ro the Mimosone & Anyge are ticks both wo and structy guess in the, & som we good askin. gency 28 Kennes x Scacia Carechan

Only in N housisph, in cold retemperts Propiest on subtrace Coverns accidentale in WI, some thems in Braz woods; brough microphylls, on Alma, in het seid plas of Mex; sine, An cochinchinaciós, od to-greve in CC weeds.

Osco, + medial, to the acid in them,

+ edible

gums to all, similar to a Tospacanth essetace, Oil & Bitter Alm , Oil beforeme brigantiaes, Holle des Marantes posted tea, we of Blue Blied Cherry are substitutes. Chip, blu tea is of adult

brandy distilled to preunes, they can somuch super Kins abon wassey a lig in Vodges & Bllefort, for a vary of Blod-Cheny.

Digitized by Hunt Institute For Botanical Documentation

the Plum, Stop Cerasus, Juss the Cherry

ALMOND Anypdolus communis Rhindp 331-2

DC p250 conclds it to Meditabasing N. temper Asia.

State ments it once in Rec, 5,2, color Thereton says for The present will not do more for an A, of one B remaks In A for a parrot sus to he to export to be put to the one one.

Spenser, Fa 112, 32, Like to a A tree ymounted hype On top of greene Selinis all alone

W blosms trave bedecked daintily.

Chang tim of the Rose, And Almandes gret plente. Alx Neckara, Noy2 de Valmande, ricx Phyllidis Gerord "in our lim parties a weekds in pit planty"

Here of her the varue of the Eastern nut-beam? While almost with the Name of the Eastern nut-beam? While almost with the Name of the agree of the Eastern nut-beam? While almost almost the Name of the agree of all among the tree.

The Linsorted pools of control we ME are forms how alm in whit but the odd, the

Hedr name Shaked most expressive, of awallening, so a most fitting in for a new who

beaut the coppy in Pat in Sanisher the code up at Creature. Also a tarrinty. I'd suph not yet extinct in Eng that "O or 6 As being then tasts do up a man to being drunk" acraed; Linds quotes that Bitellhuondar Reach flux elements are said.

Digitized by Hunt Institu

FLOWERING ALMOND ADVART A A menay "a live shout of the term that inly provey in the boux now of a shoutheast ellar." "Somethy by charming in the peckety wh helps to this, of blame on the base box;

"The hope in deceme of a happierhous Treat digits on reiscoup bears Street and statement of the following on a loaders tagh."

One of the not bout tales of the Sak mys that of the leaves of Phyllic a Demaphorn is tald this prop, of the A" thinds. "In Ey A are child culted for the boardy of the county of the county of the first is a for this reason, the counting of the abbertand disaster are professed " thinds

BITTER ALMOND Amyed, amarus, Rhind 331-2.

PEACH Amy Pensica

Rhind, 329-331

De. 221- concluy for China.

Skeat i fe In Persicum, the 1, to Kers, Vérs, Persia; of Reaches, Sie T. Elyot, Castel of Helth

Mr. Realize Peoble Reske Brown Parount 3.95

of Resche Limited Pesca volume It, pesca ishortened from of It, perica Al the stone for the peach, as genoing on In persicus, ie. I. arbor, the lenian tree. So Execup. pecceso.

Ellacombe, Rom god's instead I instr Eng; occurs 9 in Archbi-

13th cy, In de Gaelandsprowit, "In vieguto Magistri Johannis, possiones dest pessica.

1278, 481, note of purchases of Palace of Westmainsten has "Will le Gass denser ... pro i peschere vid." i.e. for I peach 6d: sga, Fro ij pichere iii s."

Prom. Paro, exerct, Peche or Peske, fruite - Pesca Pomum Persicum!

tilda, volke tree, trait a gre delicacy, +diff vors cult. But be alluder to it only in Meas for M, when the choose referred

suits of peach colored sating on now geather him abopter, and 2 #422,2, (one to Henry folias and peach solved stockings.

Partion Botanical Pocumentation

s an mual dry tusti

Buy, Why do I praise a P. Wre na may wallmon yet wa my reach?

SLOTE Persons symosa; this, P. institute, a Edometado, acceptat type carthe 2 wild element of the old toach; BLANNEHORN, De word, 20

Rhind p336

Eliac. The Sice is a should obvery manded agreement in our botpersons in early stag colored to it consection is given colire bluetime, but Bladithonia ensure were ladity emable in the right-pame of quaeteerstaff, if the 3 port towns than (Rugh pamb) or the right-pame of quaeteerstaff, if the 3 port towns than (Rugh pamb) or the right-pame of quaeteerstaff, if the 3 port town than (Rugh pamb) or the right-pame of quaeteerstaff, if the 3 port town than the world pamb, as a use last use

Sie hoogs 20 swerch "Obo" Low three thread not one Stoe! Do right all that three may!" Arrys & Arryllon, Elis Kananas The official scycle, Thys ys nowth Be God, that me der boothe. Het ys not worke a Solo The free a har Got - Riesa's hopedar loothy.

through array in a compagnitude the time in a sainest planty of those; But the end of Octop gather up Rose there time in ved the flex of timpelf or the con. The Theoret time advices The over as a fuir the Slove had its yame."

CHERRY E. Cerasus, L.

107 couchy for the Caspian to W Anatolia

Rhind 2 334-5

Ellace & 40, 41, sul 3 hlep extre,

Shear p 106, derives it to hore, ar Kapasos, to cy Cerasus in Pontuge

Bixtacts, Ship, Helena in M. Dr. B. 21 -Bixt Helenagn O how ripe in show

Sup Helenagn. O have sine in show.
The lips, those the mostly Chemis, tempting show,
Bulgo, hady, H 8, 5-1,

This as like you has Cleany is to C.
Shipp, Gorea, She wher need compases
haturels own stope of body birth branch or being
This even her art affects the natural reserharingle, fill, think we the natural country.

So we grew together like to a double C securing parted Burget a union in partition. Turn turnly barries modeled on 1500mm.

Nemes a advance; the bridge in pleasure took.
That some was by the bridge in pleasure took.
That some was sing, some offers in these brills.
World bring him Mudbenker or type Red Cherako, the shadown british is sight y they we him with borner,

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BEACH PLUM

BIRD-CHERRY, Rr., avium, GEAN, GUIGNE in Ir.

Rhind #385 ; consider be the only of Detend exercises wild whose producted chemist; it. W temper Asia a temperture.

IANKEL Irwas laws-cerase, one of them to feely perd everyone in East, but to Constants to File in 1676; there in East to Execute in a East to Enter in East to Enter it. Bay; now und in to shoutheasy. Let be contain a created poussic acid, are used to flavor but, but fidice to create is a visit best poison. Sot have but prisend by condition flavored to industrial law, Laurel-tooteen is distilled to the recent less, prisoneurs. Been a small red bury only it also poisons.

Roctuquese Trawel, P. Lucitanica, also a highly adoud expensable to be to Bag & Portu; prob not there a nato, but to Madeira, or S.

I.AUREL. of the ancient Leaved worest h is Laurus pobilis, of Lourus acces, an order oftees in the corter teories, regard in Europhy by Leaves utility sin the US by Persea the Allpatro Pear, see Pears, Sassafres, Bensoin the Spice busing the benies of a holm used in Allque during her.

Courphor is to Comphore officinarium to cool does alve by day distillater in China, objectly in Formus I, expected to Cauten. Rhine 489

Cinnamon prod from sol sy of Chunamomum Shind 182.

Cassia the spice, is teem some; never all good & Chinese Cas the bell Cassia Minerals.

Displies of the Mesercana of sorders shreat a livid purple of live flag of the resees to be Thomse last superior which Displies and the control of the re-

Decolapting a superscine of trees girld for charles in Start in Intelligence with tree and of Jamaica, a band, getter durable wood, O. exaltate; a griften constitutes were twents incertte Orinora, girlds set que of orbitile oil by single inciding its soil girlds yetter winescaloved account and orbital oil, used as limitary interest the limit of their

Laurus notifis, the Lawe of Ran, daying of Get, conserve to privite phonony used in the earth, and tree in S. Ir. profith in suchers flow strong; themes a deuter yet broken spicture flows of a vy dy ma incline to dive; there we have a sweet ple, or ble, is so that an oil is made by by its water. I we know have a sweet of or, a remark a stringent take foil yet one, strong but similar adm strake. The to lit alwar the BAT THES; as bean the caut the Garland Tree; as Chapteries in the orities And when & Dephasis two be plucked more Bales.

Rhina 453

Shaw, 82, 2, 2, 1; 107 is that the King is dead, the will not stay

The Bay-trees in our country are all oftborrel: the Roman superotts; and tised to dock the clof dish at high tooks, to Romansky see in the Soc it that The voided flawish so the green Bay tree.

torotor to Oleander of Cedar.

Saxabase. Californica, Californ

I.AURISTINUS Piburnus rious, and dock V, laighty ornand tobers, les orace oby wing the + robite, shorey,

MYRPLE the deprin everyon of classic associa; a most about about in Softener, problement introduced into Citic bet Shiter, kept alive to difficulty held at the emblem of reduced beauty, a delicate relegant carriey; in Bible association to peace & plenty; in Milton to the twenty of Adams Eve,

The crop Of thickest covert was incoveredade.

I awel & Mirtle, a what higher from the far bagrant lest.

In anote, dedic to Venus, hence in Mid Apes was the Ale for beidal for ids, (since replay transe-tlosms); as in Boxtughe Ballads,

The lover to Myrtle sprays Advens his relayed correspes.

And I will make the beds of Roses And a through fragret pooles,
A cap of Ars, & a kirtle Embroidered over to los of Myrtle.

Shakpe of Vonus "Then sad she hasted to a Myrtle grove of A

Venus to y Advais citty by her Toden a Mahade began to too him.

I was of late as perty to his ends As is the more dew on the M-leaf

To his grand sca. to clay 3,12, And so Virgil, .

ie the M, theires best no the sea.

True Mis of M Tong the fee of 13th on Marine communication of the state of the Marine Communication tested in the Marine Marine Mentation

crothery: anchy mediculates. Natur of Lewis, partyly in S. & Buris, 1. Her. Mind 600 Mysters corelaced, Susmada lod Mynato of Flyti, the Wiso Commons, My elegant rece, almo promp, the lake, 2 t a yr bank aromatic, what rings in dood in ages took red, of hard, fee for mill way, bearies it yess, used in only place aromae.

My the my tus communis on from for of typus, lydic

Wild mystle of Disservides is Ruseus aculeature havens silvarled of Cato is Viburhum Times Box. not & Sturnat Says the worn, yes says both;

I.AUREL. I runus laure cerosus, me of the me gently yierd everyone in From bor in Constant wo Hole in 1576; bust in Eng to Prolimpra; com in Eng sundens 50 g, later to Bay; now und in co thrustony, Los to contag a consider prussic acid, as used to flavor food; but jules to proces in a oiner level poison. Sot have be prisoned by condists flavored to infuent of her Laurel water is distilled be the recent los; prisonous. Benes a small red berry onto it also poismals,

Portuguese Issued, P. Lusiesnics, also a highly adend ever durch; best to Buy & Roctu; perto not there a nato, but to Madeira, or S.

LAUREL of the socient Iround woreat h is Loweus notilis, of Lour scear, on order oftrees in the cooler tropics, regard in Bur only by Leaurus Edilis xin the US by Persea the Alleston Rear, see Pears, Sassapas, Benzoin the Spice-truck; who bewies so to be by used for Allgine during her.

Complex is to Camphore officenarium to wood, the slive by day distillating China, objectly in Formore I, expressed to Cauton, Rhine 289

Cinnamon good from sol sy of Cinnamonium Shind 482

Cassia the spice, is bean same ucly all spot C; Chinese Cas-the bec. Cassia, Rhins 483 Daphoe othe Mesercans of goedens should a livin purple wellow this it the re-1 sico tona Domites out to Day to have much Direct political.

Medaghine a large school of trees vields val dender in film in franchise the Sweet a ord of Jamaico, a handy gellow durable wood, O. exaltato; a grifere constitutes part fracets mer the Orinor, yields sol qts of politile oil by single incision, its fairt yields yellow-toine coloned aromatic acrid odlatile oil, used as linimont inflow. Ta Canella de Cheiro.

Laurus usilis, the I awel of Ran, Japan at Gir, consers to prives & borney used

infliction autores aline shouss: forms a douses wet modern & ple, or blu, & 1 Kuto litable t Slepe oreiter Shky R2; 2,4; Sassafras MAHORANY, De no

Viburaum tinus, and doct V, highly ornand strue, les vace objecting as to volite, story,

MYRTIE the or prin evergen of classic associa; a most about shrub in Sut Eur, prob introd into Elik bet Shker, kept slive to difficulty held at the emblem of method beauty, a delicate x elegant marity; in Bible asses ator to peace & plenty; in Milton to. the bower of Adam & Eve.

The rook Of thickest covert was incover shade Laurel & Mirtle, & what higher poor of form, beagrant leat, In anote, dedicto Venus, bence in Mid Ages was the An for bridal for Ids (since cop) by Ocange blosons); as in Boxtruphe Ballads,

The lover to Myrtle sprays Advens his crisped cavesses. And I will make thee beds of Roses And a thrus'd fraget posies, A cap of firs, & a hirtle Then sad she basted to a Myotle grove of A

Venus to ye Aderis sittle by her Toder a M shade before town him.

I was of late as petty to his ends As is the morendew on the M-leaf

To his grand sea. to clegi3,12, And so Virgil, .

amantes lictora myetos, ie the M, thelives best he the sea.

Two Cis of the Control of the Contro Victors ar Dempir gs are greater it is some synth of with the Alle made trates; the x beines ton both infused in wine, the latter used in surti

cooking: analy mederalalea Nato of Persia, patryd in S. of Bur Si. J. Her, Khind 600 Myxtus circiacea, Sumada-lod M, noto of Flagti, the Wiso Crownson, to elegant tree, along proof, they late, I tay, bank aromatic, what what in short la age; od red, of hard, he for rail ook; decries the ress, used in conty; please aroms:

Lucies granatum the Pamegranate

My stars summer alaria little by och sords over Folded to mit the Physicish successful due so automorphism of the high no serie chumns 100-160; Eurosystem (attent which is how, 2000-en 100-high no sert chumns 100-160; me at may intercall, so pl that the truste interrope the view at a fore hunded s; elepting occurred to beg trys of the willow the Islinge; around?; plied in Alpag at to the amalarial chimate; yell out timber; E, wherea, red grum E, mannitt, a mauna, E. Gullerii, a coole liqua avende, in Tarm; ferrats a brown the book. Reindy 633-6.

Metrosideros, a penus of out timber, 3 out op it NZ; the beaut de tre cordid SSeald clubs is to it.

Glaphyria nicida, "Prec of Ingline" the Malage collie, Traplane also for edutitude a prob for grown se higher cleration others,

Psidium are, GUAVAS, pulsy fruits fr W world of projetul perfume nime 359 DE 291

Bosa-typle of the E, trube of vansp of the to Busenia DC 240 Janabasa Khind 370 DC 241

Cloves, direct the buls of Caryophyllus aromaticus especia conjugations, Litheres, Mind 182. Alls pic or Pinners of the fruit of Eugenia across Pinners Rind 1867 sets 80181

Callistemon, the Bottle-brush FW. Makay apple, Busenia minomonarity, Rhing 270 Dc 291 Nurmey Myristian, Myristica morchara, and 1887 Dc 419

ATRANZIACEE, order of Butsles of Ligg # 45%; 820, 8095

Thees, smooth, filled earths or lit tot receptify of colotloil 1 lvs st, and falso arthe to yether yetile where toinged, S3 5 P3-5 Stanne or too, C, Fire succellent. Petals imbricated. Rap be a Chalona usually distinctly, occaboutly, marked on the

Mossinas seen of corpols oft in Citrus perduct her ned ornopes & hugared citrons, the last of ook in the a Sarcodoctylis of ger Garrison

Multiple of normal no of carpels ting in Citrus, terns Or win Oc: 608 hyp 457

Home Elithence some to good were tropics,

23 sp nate to Maden; I will in woods of Escapabo: I in Braz, a will be, the laranja do teses, of mardish exceet taste,

The coly on tops of old & letty with, the fire an major of buried in snow, the Inimerium loucoola, Hill people of India call it Kidar-patel and Kuther down a thic that by fordy en'ts lux the bluck ages to peck flavor.

Propo, Fre pide alor soid. Low alor + of velatile, bespect, bitter, excetteril.

Wood hard & compact Rhind 347

Medent; Role; Bergera Königii, for that atmostics trainty Hindon; intuen of them regard stops vernity; you live used come in dysomorpy; the give, ion, as etimal, Fermia elephantum of we besided by delth aniente and, that in lade arministive Orange his used for hymerica extensible; it s pure by the gum arabic

Perference, Oil at North's Maple water, see distilled to the store; Codout's bo Tedest; Lemon essences.

Bison Nice the desided or as 160 vars of 6 gg Source, screener, Scopinments, Lines,

Succes Orange, India De 183. Leemonylodia, Cierces limonium Rhind 353 0c 179

Lime ludia, Cinnes ocida Rhind 353 DC 199 Screet Line of Infin Cities medica himetic DC 175

Shaddock, todia, cienes document Rhind 354 DC 177

Citron, India, cineus medica, Rhind 308 DC35 178 .

Warnece, clime Ind Archy, bighly cound, there; for of Cordia princetata

Odycosmic chaildis, benies delicious by Triphada

" extravely approable by Casimires edulis, be delicious be specific Seeman

Tighe Marmelos, Ceylon, for me deles, exquis fraget, nutricopart laxet ; mucas of send is a and concert for some logs, on Malabar want, et a bit a roundy for polyteringe; by for arthur ; for a little

Introduced resolute for by fee of the order but the climby be tit of Xanthords

RUBUS

RASPBERRY Rubus ideaus, as from Mt Ida.

Engrance or rough a bristly fruit

En com Framboise; or Ronce du Mont Ida, considerine it a nato of that Mt, oob Pling states

Eng: older form paspice, paspise, consuption of naspis, naspes, an old newal = rasps, used bot being; as by Bacca raspes, Passad Eng is still rasps, "Mrs an the Print to som super cinal printy to a resp, prob for the look of it, ook is regulity worth, "Shear,

Beny, MB berie, AS berige, Skt bhas to eat"; Edible Int.

BLACK RASPBERRY, Rubus occidentalis " a showy plant for large shrubberies ! Rhind.

RED RASPBERRY

PURPLE RASPBERRY, native hybrid THIMBLE-BERRY, SCOPCH CAPS, ELGWERING RASPBERRY

DEWARRY, Rubus cassius, of By fruit blue; continues till frust; is an edible being; but has no high flavor; bandom, or lk Blkb, but earlier; pecks sub-seld have whis admird by ma, as it must be the Titonia pohrfiding it we such fruits as Applicate Grayen Eige, & Mulberries Fred him with Aprilocules & Develories Readily his filled by the faint being of a few largest draipes, K cool on a glamous BLACKBERRY, BRAMBLE, of Eng. Rubus battimous a cocylifolius.

Rhind y 337

Ellocante p 28, 29.

Sheat, y 24. (As trembel, sur thrum)

Enteror 11. treating for processing a presently as Blackberries.

HIGH BLACKBERRY Rubus villosus of M US

Digitized by Hunt Institute and the form the following to the state of the state of

SALM(N-BLOSSIN), Rective Nichanie Marino, 3º80 plandelar pubercy, park becoming brown a storday, des 12 broad, confederacy transactor a seed on, trull large a planearity durrent, BETherent de in a Astronomy of time of indusers care and the seed on, truly large and the seed of the s

ARCPIC BERRY , Rubus arcticus, Rhind p 337

CLOUD BERRY, Rubus chamaconous (Grand Mulberry"). Rochuds-B, Knownery, Rhind g 337-8

STRAWBERRY

Rhind p338 Ellacante p220-5

Ship The & move underneath the Nettle.

And wholesome bewice their gripen best
Neighbord by twin at bases quality
And on the prince obscured his contemplation.
Under the voil of wildness. Hency V, set 1, set.

Sheat rags AS streaderige, as above to the res. of its runners to

market Milachera, "My veracobored" O marvel, scrit of bairet prince.

O marvel, scrit of bairet prince.

Orrection thee, I ask works care.

Set he so much of all him bests.

At one of earth, prince such sweets.

Neth san a give what warthat strength.

Which sat is durliness, leageth by length.

Spun all thy shining thread of wine,

Necting the bolds in brads as thine.

Lee thy therefold dirink by sign.

Lee thy therefold dirink by sign.

Lear thy worts dig down for wells,

Tagging the meadow's hidden cells;

While preserations experen things.

Descended from leaf lines of specing.

I see the crossing peoples so they receives jumany to and her of thee, Dolay trocks and left of thee, Dolay thee how her to the point of the point o

to the feet of delivery that went umentation

To make the empire thou hast ment.

SANGUEORBS, an aperations dura of Averacese; Ity units them on order, S-access, intermed to the Commerce (Researces, of 12 pen, 1858). Color has done of campet rate in Commerce (unit ook Apelmonts, which has perate,

The Cape of Official fact has perate.

In Cape of Official approach of the Commerce of the cape of the company of the complete.

And head the complete. Goal days assumence,

Alchemilla, Thursels, LADIRS MANPIRS; A. Dulpowir decector is styly tenic is at by Frele Hatterinan g its to resture the faded beauty of ladieste his contest recommens the

Sangulsorta, 1, BTRAPE; S. efficinalis, Care, useful todder in Exp. S. Canadonsis, over bitter, astringent, nausens, ametic, built stupeling, Bull.

Access Suprimers concer in Passer, on the ferming by fair healigen to stockes & duces; was ad the excit substitutes to.

Rotavium 1, GREARBURNER, for tea Avo, Bounetto; force of Bocsa; Stir 1 45,52 Ellea 33

Tetraglachina Pope

Margaicarpus his cel. M. setories a be needle-led bush to pearly succelest brief deep cha used beforeons age harastode,

entra score Stante South of a december being las xoting fore has coursed my sentral score of the Stante South of the Stante So

CALY CANTHACER, mr Rose E, Ber of t indice scales; should se steems to 4 wordy in your arcs away control one; we operational a cabrais; to eighte; the arithmy ording source soil Leolic April 20 mil ton the Hechy columnite. Lectic med themed Rotes, by sope them. Thousand to 2 general C's Chimonauthus (who has obviously diffe petals expediting 5 sp.

CHRYSOMATIAN'S are Chrysobalanaces of his arboraceoglessed to it by DC incord anoghetist have large states a present. Petanoghetis, they it gearing in horse transfer on by it Chrysolalana is in pinetraceard for.

Co) I care commonth the COCOA-PLUM; vort while live be begind prescribed and disable pleasures, caken some present propose by tipe cattles thereoff at a)r; prove well in result former.

(a) traffilling, the two sp.

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AMERICAN CINQUE-FOILS.

BY GRANT ALLEN.

YOUR American cinque-foils are to me a deeply interesting set of plants. Excuse, I beg of you, dear Mr. Reader, this abrupt beginning. I love a causerie: I love to button-hole my audience, as it were, and, sitting down with it mentally on a bowlder in the meadow, to discuss the matter in hand with it tête-à-tête, as if we two were old friends, which I trust, after all, may be really the truth with the public of "The Popular Science Monthly" on the present occasion. For, indeed, a recent visit to America has made me realize you all far better than I ever did before; it has made me feel your individuality as I never hitherto felt it; and it has also renewed with me the acquaintance of many dear old floral favorites whose faces I had not seen in earnest for many a long and weary year. Among them, the cinque-foils or potentillas are, it is true, but a feeble folk; very different from the glorious orange lilies, and trilliums, and Solomon's-seals, whose bulbs and tubers I have brought home with me to beautify a little out-ofthe-way Surrey garden; but still in their own humble fashion most interesting plants, from the implications as to their past history and transformations legibly written by the hand of Nature upon their very faces. I propose, therefore (having got you now fairly button-holed), to discourse somewhat concerning the American potentillas themselves, as well as concerning certain of their near and dear relations not included in the same genus by the artificial and unwise arrangements of our existing botany.

The first potentilla I found in America was by chance the very one that ought naturally to head the tribe in any systematic work, because it is the one which more than any other seems to preserve in the greatest simplicity the original traits of the prime ancestor. And when we consider that from this ancestor are also descended (in all likelihood) the plum, the peach, the cherry, the almond, the apple, the pear, the strawberry, the raspberry, the rose, and the hawthorn, it must immediately be apparent to the meanest understanding that the plant in question deserves the greatest consideration at our hands as the founder of a large and important family. Nevertheless, this rather scrubby weed (Potentilla Norwegica) with its yellow flowers and hairy stem, much resembles the founders of many other distinguished families in being personally mean, sordid, and inconspicuous. But in spite of its meanness, the Norway potentilla shows many signs of its high respectability as the representative of the elder branch of the family in the direct line. To begin with, its blossoms are a shabby yellow; and shabby yellow I take to have been the original color in every instance of the earliest petals of insect-fertilized flowers. Then, again, it is an annual

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weed, and herbaceous annuals were doubtless the earliest form of all vegetation all the world over. Once more, the leaves are divided into three leaflets; and this type I take from its frequent recurrence not only among the potentillas themselves, but in the strawberries, the lady's-mantle, the simpler brambles, and many other species as well, to have been the original type of foliage for the entire rose family. Finally, certain minute technical characters in the stipules and the styles, with which I need not trouble you at the present moment, lead to the conviction that we have here to deal to some extent with a fair representative of the old ancestral potentilla form.

The Norway potentilla, however, is distinctly weedy-that is to say, it is one of those unpleasant, dusty-looking plants which loiter about on the precincts of the road-sides and in the waste purlieus of human cultivation. It attests its weediness by its bristly hairs, intended doubtless to repel insects and to make it unpalatable to cattle and horses. As its name implies, it is an Old-World form as well as a native-born American citizen; it is, in fact, a member of that ancient circumpolar pre-glacial flora which was driven down from the once mild and genial Arctic regions by the vast ice-sheet of the Glacial epoch to occupy the plain-lands of either bemisphere in these our chilly and degenerate modern summers. In Europe, however, it remains distinctly a more northern type than with you in America, where it spreads as far south as the Virginia hills.

On the Alpine tops of the White Mountains I was lucky enough to light upon another member of the potentilla group, not far removed in essentials from the Norwegian weed, but infinitely prettier, more delicate, and in a word less weedy all round. This is the plant which Asa Gray identifies with our European Potentilla frigida of the Swiss Alps; and I, who have a pious horror of unnecessary splitting and renaming and tinkering, have not the slightest objection to the identification in any way. But it is worth while to notice, what I often observed of almost every American species said to be identical with those of Europe, that the two plants are not absolutely the same : the time that has elapsed since the Great Ice age effectually severed the two continents has sufficed to produce distinct differences in nearly every kind of plant or animal. The flowers in the American specimens are smaller than in the Swiss, and the stems when full-grown are far less

Potentilla frigida exhibits all the common peculiarities of high Alpine or Arctic plants. It is a dwarf form, not one fifth the size of the Norway species; it is tufted thickly on its low stems, and it has that matted, close, creeping habit which I have already pointed out in this "Monthly" as the distinctive feature of the glacial flora. It sticks still to the three original leaflets, but its flowers, as is common in mountain types, are far larger and handsomer than those of the wayside weed with which we started our examination of the group. This Old-World

form, however, occurs nowhere in the United States except here on the topmost summits of the White Mountains, and even there it lingers on in scanty numbers, rapidly diminished by the growing warmth and the incursions of botanists. I took but a tiny spray for my own specimen, from a spot not far from Tuckerman's Ravine, and left the remainder of the plant I found there still growing. It would be a pity if these last survivors of the Glacial epoch, pushed up onto these chilly heights by the secular summer of our own day, should be exterminated by the hands of those who above all others are bound by natural piety

to preserve and protect them.

All over Canada and the Northern States there grows a third and very common potentilla, the cinque-foil or "five-finger" of popular botany (P. Canadensis), a pretty, prostrate, creeping weed, with goldenyellow flowers springing close to the ground, and five leaflets instead of three to each leaf. Ever since the days of Linneus this plant has been considered distinct from the common European cinque-foil (P. reptans), and the differences are certainly sufficient to justify their division as separate species, as systematic botany goes nowadays. Nevertheless, it is quite clear that we have here merely to deal with the American descendants of the same old circumpolar plant. No European naturalist who saw the Canadian cinque-foil for the first time would ever take it for a distinct type; if he found it growing in an English meadow, he would certainly pass it by unnoticed as the familiar cinque-foil of our eastern hemisphere. The differences can only be observed when you look closely into the plant, and they are all of easy adaptive character. In fact, we have here just the same tendency as that which we noticed in the mountain species, only carried, perhaps, one step farther. In that instance, the differences were only sufficient for sytematic botanists to rank the plant as a mere variety; in this case they are sufficient to give it the dignity of a distinct species. But at bottom nobody knows what is a variety and what a species, and it is a mere matter of individual judgment whether a particular form should be regarded as one or the other. It varies "according to the taste and fancy of the speller." Oakes considered the White Mountain potentilla a distinct American species, different from the Alpine kind in Europe, and christened it, accordingly, P. Robbinsiana, after the first person who discovered it on these chilly hill-tops. Asa Gray regards it rather as a mere variety, though he hesitates as to whether it comes nearer to the P. frigida of the Alps, or to the dwarf form known as P. minima (itself a very ill-marked species). It is always so when you come to compare the plants or animals over a large area. However distinct they may seem in particular localities, they shade off into one another by such imperceptible degrees at distant points that the task of drawing hard-and-fast lines, so lightly undertaken by the systematic biologist, becomes at last absolutely impossible.

This very Canadian cinque-foil, for example, runs into two extreme

forms, which have each been considered by confirmed "splitters" as distinct species. The first (P. sarmentosa, of Muhlenberg) grows for the most part on very dry soil, and like most plants of arid situations runs largely to pronounced hairiness; for it is a general rule that water-haunting kinds are smooth and glabrous, while dry or desert types are intensely hirsute (the reason for this wide distinction, though well known, would carry us too far away, this morning, from our main subject). The second form, erected by Michaux into a separate species (P. simplex) but reduced to subordinate rank as a variety by Torrey and Gray, belongs to moister soil or to deep meadows, where the lush grass prevents evaporation; and this type grows less hairy and greener, and attains a larger and more luxuriant stature. The two forms differ also in other ways, strictly dependent upon their differences of locality. Sarmentosa, the dry type, creeps squat upon the ground, as if to avoid the sun, and sends out long, rooting runners in every direction after the fashion of the strawberry-vine; whereas, simplex, the moister kind, has ascending stems, which rise in competition among the grasses around them, seldom if ever creep, and never produce summer runners. Again, sarmentosa begins to blossom early, and ends early-April to July in the latitude of New York; while simplex comes and stops a month or so later at either end-May to September in the same district. In other words, the drytype flowers early in spring on its basking banks, but retires from the searching heat of your American summer; while the moist type begins later in its shady habitat, but is less affected by the droughts of

Curiously enough, our common European cinque-foil (P. reptans). the exact analogue of your American plant, and fellow-descendant of the self-same pre-glacial ancestor, has also two well-marked forms usually considered as distinct species, but merging into one another by imperceptible gradations. The parent-type (reptans proper) grows in rich pastures or meadows, and answers best to your variety simplex, though it sends out long, creeping stems which root every now and again at the nodes; it has five large petals to each blossom, and the flowers are identical with those of the Canadian cinque-foil. But on open moors, heaths, and dry places, we have a smaller, closer, and more creeping form, the tormentil (P. tormentilla); it is silky-hairy, like your own sarmentosa, and its upper leaves have often only three leaflets instead of five, thus reverting to the ancestral type of foliage, when the plant was rather a tre-foil than a cinque-foil. But oddest of all, the small flowers have only four petals, arranged like a Maltese cross; whereas all their congeners have their full complement of five, in accordance with the old central plan of the entire rose family. Still, the first flower of all on each stem, produced when the plant is in its vigorous youth, has occasionally five petals; a reversionary fact of great interest. The tormentil has also an intermediate variety of its

own (Tormentilla reptans of the hair-splitters), which sometimes creeps like the true cinque-foil, and frequently breaks out into five-petaled blossoms. Even Mr. Bentham, that minute and conservative botanist, admits that "intermediate forms" sometimes occur which can not probably be referred to either species.

And yet, though the tormentil and the cinque-foil are thus intimately connected with one another, by imperceptible gradations, so great is the love of petty distinctions in the human breast, that Linneus actually erected this slight, four-petaled variety, not only into a distinct species, but even into a separate genus (Tormentilla).

Let us return, however, to our immediate subject, the American potentillas. The next species recognized by Asa Gray is the silvery cinque-foil (P. argentea), a pretty little plant, with small, bright-yellow flowers, confined, for the most part, to very dry, barren, or sandy spots, and with thin, wiry, almost woody stems. It is remarkable for the soft, white, silvery down, that clothes the under side of the fiveleaved foliage. The use of this down I do not know, though I suspect it to be a protection from some caterpillar or other insect, which attacks leaves on their under surface. At any rate, it is an exaggeration of the usual downiness of dry-soil species. The silvery cinque-foil is common to Europe and America, and I do not notice any perceptible difference between my English and Canadian specimens. It seems, in fact, to be one of the very few plants which have not altered to any recognizable degree on either side of the Atlantic since the end of the great Glacial epoch. As a proof, however, of the narrow way in which this dry-soil species is restricted and limited to the very sandiest or most barren situations, I may mention that it grows on two spots, and two spots only, within reach of my own home here in Surrey, England. Both these spots are knolls of a peculiarly soft and friable sandstone, into which the rain sinks immediately; and they are the only two bits of that particular formation (a subdivision of the Folkestone sands) to be found anywhere in the neighborhood.

I was shown, at Kingston, Canada, a specimen of another more weedy potentilla (P. paradoxa), which has hardly, as yet, made good its place in the Eastern States, but which, nevertheless, possesses a certain interest for naturalists of the Atlantic shore, as a member of the flora by which before leng they are almost sure to be overrun. The species belongs to the western half of the continent, but it is already well established as an immigrant along the banks of the Ohio and the Mississippi, and it has been observed near Oneida, and elsewhere on the shores of Lake Ontario. My own specimen was gathered on a common at Kingston, where it seemed to have established itself in full vigor. Now the interest of this species centers in the fact that until lately the weeds of the Eastern States and Canada were almost entirely of European origin; they were the cosmopolitan pests of civilization, which have followed agriculture from Western Asia along

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the Mediterranean to the shores of the Atlantic, and, crossing the ocean with seed-corn and fodder crops, have clogged the steps of the intrusive white man through all his colonies and settlements elsewhere. These cosmopolitan weeds succeeded in America to the soil once covered by forest-trees, whose indigenous undergrowth could not stand the garish sunlight of the open clearings. But nowadays, the weeds types of the Western prairie-belt are moving eastward, as farms move west; and being accustomed by nature to open plains, they will probably, in many cases, succeed in establishing themselves side by side with the older plagues of the long-suffering farmer. Potentilla paradoca is one of the first crop of these weedy immigrants, and its appearance already on the shores of Lake Ontario is the signal for its future advance in a formed phalanx against the tilled fields of New York and New England.

This Western immigrant departs widely in one respect from the type of all the potentillas we have yet considered, and that is in the arrangement of its five, seven, or nine leaflets. In the true cinquefoils, and all their like, the leaflets are arranged, as we say, palmately—that is to say, all start together, like the lobes of a horse-chestnut leaf, from one point. In the P. paradoxa they are arranged pinnately—that is to say, they start in opposite pairs or singly, from a common midrib, like the barbs of a feather or the leaflets of a locust-leaf. The same arrangement, a more convenient one for long leaves, reappears in P. Parasylvanica, when (in spite of the name incorrectly bestowed upon it by Linnæus) is a Northwestern species. But as I have not seen this last-named plant in the living state, and as I do not like to write about what I have only examined in a dried-up herbarium (a bad habit of the old-fashioned, purely structural botanists), I will say no more at present about it.

On the rocky hills of the North and West there occurs in July a rather pretty, half-shrub-like potentilla (P. arguta), which presents several other interesting peculiarities. This plant has brownish, hairy stems, covered with a viscid, clammy exudation, something like that which covers the young branches and buds of the clammy rose acacia (Robinia viscosa). As I observed that insects are often caught in this clammy secretion, exactly as in the case of the common catchflies (Silene noctiflora Virginica, regia, etc.), I have not the least doubt that the potentilla eats and digests the creatures it entraps, in order to supply it with nitrogenous material for its own pollen, ovules, and seeds. This is the more probable, as the clamminess increases near the flower-buds and blossoms, and is scarcely at all noticeable near the base of the stem. How the potentilla digests its food I do not know, but long observation has fully convinced me that whenever a plant has viscid, glandular hairs or secretions upon its penduncles, pedicels, calyx, and flower-buds, it is invariably an insect-catcher, and an insect-eater too. The flowers are the part that require the

most nitrogenous food, and near the flowers the nitrogen-catchers are situated.

Another peculiarity of *P. arguta* lies in its flowers, which are clustered in large and conspicuous masses, and have petals that vary from pale yellow to primrose or almost white. This is a very interesting fact, because the native color of the potentillas is yellow; but the mountain species, and many other kinds, have varied to snow-white blossoms; and here we get a plant, as it were, in the intermediate or undecided stage between the two colors. Notice, too, that *P. arguta* is an herb of the rocky hill-sides, and therefore half-way toward becoming a mountain species.

Now, on the summit of Mount Willard, just above the Notch of the White Mountains, I found another very beautiful member of this pretty group, the three-toothed cinque-foil (P. tridentata). This is one of our most northerly and mountain-loving potentillas, unknown in Europe, inhabiting the coast of New England from Cape Cod northward, and the mountain-tops of the great chains, from the Alleghanies to the Maine ranges, as well as in Canada, Labrador, and the extreme north of the continent. The three-toothed cinque-foil carries a step farther the same characteristic, for its flowers are pure white, as so often happens with mountain blossoms. Just in the same way, while almost all lowland butteroups are golden yellow, some of the Alpine buttercups are white as milk, and among these very potentillas there are a few lovely snow-white mountain species in Europe and Asia. One beautiful kind that I gathered on the Maritime Alps at Mentone (P. saxifraga) has a blossom as delicately mountainous in type as the saxifrages themselves, from which it takes its scientific name.

Of course, I don't for a moment mean it to be understood that I think P. tridentata is directly derived from P. arguta, or that the latter species is now on its way to merge into the former. My Mount Willard plant has palmate leaves of only three leaflets, while the common P. arguta of the northern hill-sides has pinnate leaves of from three to nine cut-edged divisions; and in many other technical points they differ widely from one another. All I mean to suggest is merely that the yellowish-white P. arguta is now just passing through a stage which the ancestors of P. tridentata must have passed through long ago. On the whole, to put it briefly, the potentillas are a yellow lot; but a few advanced members of the race are white; and still fewer, like the ornamental P. nepalensis and P. atropurpurea of our gardens, are crimson, scarlet, or bright red. So far as I know, no potentilla is ever blue, which is the highest level of floral coloration.

The three-toothed cinque-foil has an almost shrubby and woody root-stock, and displays a tendency to assume the character of a true shrub. But its northern habitat and mountain manners keep it low and tufted, after the common fashion of upland vegetation. There is another of its kind, however (*P. fruticosa*), which really grows into a

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regular shrub, with many branches, terminated by large trusses of bright-yellow flowers. Asa Gray says this plant is "common northward" in wet ground, but I was not lucky enough to hit upon it during my visit to America. However, I have seen living specimens from Teesdale in England, and from them I perceive that, in general habit, the plant greatly approaches the rock-roses (Helianthemum), which grow in very similar situations. The leaflets of the shrubby potentilla, long, narrow, and silky beneath, resemble, at first glance, the leaves of the rock-roses, thus showing how similar conditions tend everywhere to produce similar results, even when starting from the most unlike organic forms to begin with.

One other potentilla, the goose-weed or silver-weed (P. anserina), I must needs mention for form's sake, though I have nothing special to say about it. It is a creeping species, growing close to the ground, with long pinnate and prostrate leaves, silvery white below, with silky down. Both in Europe and America it is very common as a road-side weed, and in moist ditches; but with us it is a weedier and scurvier plant than with you-evidently a sufferer from our long civilization. In America it grows mostly by river-banks and in brackish marshes; in Europe, it belongs rather to waste places and stony pastures than to streams or mud-banks. Few temperate plants, however, have a wider distribution. It is a circumpolar weed in both great continents, extending through Russia and Sjoeria to Alaska and British America, and it reappears once more, under like conditions, in the southern hemisphere. Nothing kills it out, and it will bear both inundation and trampling under foot to a greater degree than any other plant of equal importance.

The handsomest of your American potentillas, however, is the marsh five-finger (P. comarum or palustris), a very bold and elegant waterside plant, bluish-green in stem and leaves, and with loose corymbs of exceedingly pretty though dingy flowers. The calyx, inside, is lurid-red, and the large petals are tinged with a gloomy and peculiar purple. This fine ornamental plant loves cool northern bogs and marshes, being common in Canada and in the Scotch Highlands. But what gives it to me the deepest interest is its exact resemblance in hue and general aspect to a purple avens (Geum rivale), also common to either hemisphere. Both are plants of the cold swamps and peaty places; both depend for fertilization upon water-side insects; both have lurid-reddish calyxes, and both have large and dingy purplish petals. The inference seems to me irresistible that the color has been evolved in both cases by the special tastes of the upland water-creatures to whose aid both owe the impregnation of their ovules. Indeed, it is often easy thus to classify flowers functionally by their color and the tastes of the particular insects that habitually visit them. In Europe, at least, I believe the particular insect in this case to be Rhingia rostrata, which I have observed in great abundance upon both flowers. American naturalists, please verify, or look out for, the corresponding American species.

On the Alpine summits of the White Mountains, and far to the north again in the Labrador region, there grows abundantly a little matted mountain plant, not recognized by the scientific world at large as a potentilla at all, and known by the name of Sibbaldia procumbens. But you may call the plant whatever you like without altering the undeniable fact that it is in all essentials a dwarfed and depressed mountain potentilla, with the flowers so reduced by chilly conditions that very few stamens or carpels remain, and with the usual dense, spreading, tufty habit common to all Alpine vegetation. It is clearly descended from a high hill-side potentilla not unlike the white P. tridentata of Mount Willard aforesaid (only with yellow flowers), for it has the same type of tre-foil leaves, with each leaflet three-toothed at the end, and the same general aspect and habit. Both plants, I do not doubt, are common descendants of a single antique Arctic ancestor. But little Sibbaldia has grown so very small and degraded in time that its flowers have dwindled away almost to nothing; the green calyx forms its most conspicuous part; the pale-yellowish petals are very tiny, and in many cases are entirely wanting. In the States Sibbaldia is confined to the higher summits of the White Mountains; but in the Scotch Highlands, as in the far north of British America, it often constitutes for miles together the main element of the low and

matted mountain greensward.

Last among your American potentillas I may mention the wild strawberries. Though these at first sight seem somewhat different from the rest of the group, I have not the slightest hesitation in saying that to the evolutionary botanist they can not but appear as closely related species of one and the same natural genus. For the strawberries are only potentillas in which the receptacle of the fruit, instead of remaining hard and dry, swells out into a colored and pulpy mass, attractive to birds, who thus aid in dispersing the tiny "achenes" or nutlets (commonly, and for all practical purposes correctly enough, described as seeds). To us in Europe, the essential identity of the two types is made all the more evident, because we happen to possess a little three-leafleted white potentilla (P. fragariastrum) so exactly like a wild-strawberry vine in foliage and flower that few save botanists or close observers of Nature ever adequately distinguish between them. This white potentilla is, in fact, a strawberry in everything essential except the fruit; and the succulence of the fruit (or rather receptacle) is after all a matter of comparatively little importance except to the men and birds who eat it. I am fully convinced that if the strawberry had not been an edible berry it would always have been classed merely as a potentilla, and considered as very closely analogous to the P. fragariastrum or "barren strawberry" of Northern Europe. It is hardly more, indeed, than a mere variety.

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You have in America two slightly divergent forms of the wild strawberry, erected into species by American botanists, for small differences in the appearance of the berry. Had these differences occurred in any other than an edible fruit they would, I am sure, hardly have been noticed: occurring there, they have been suffered to assume a factitious importance in the eyes of systematizers. One of these varieties (Fragaria vesca), which grows in fields and open places, is the common wild strawberry of Europe; but it bears somewhat larger berries with you than with us, and has a somewhat more erect and noble habit. Apparently it is proud of its American citizenship. It is distinguished by having the nutlets merely superficial on the outside of the berry, not sunk in pits, as in the second variety. This lastnamed form (F. Virginiana or F. Canadensis) is peculiar to America, and differs from the European type in the constricted or bottle-shaped neck of the berry, and in the deep depressions for the nutlets, the ribs between which accordingly give the fruit a distinctly pitted or spiny appearance. It is a woodland plant, native to your forests, and far more forestine in aspect and habit than our English vine. In flavor, also, it differs distinctly, and your cultivated Virginia scarlets are its final product in the gardeners' hands. The Western variety (Illinoensis), according to Gray, gives origin to Hovey's seedling, the Boston pine, and many other cultivated strains. No European strawberry can at all equal these native American fruits in delicacy of flavor.

There is a third species of strawberry, undoubtedly distinct, admitted by Gray as a naturalized American, which possesses for me a peculiar interest. This is the Fraguria Indica, or Duchesnea fragarioides, a Himalayan species, established in copses round Philadelphia and at various places in the Southern States. Some years ago a plant of this curious species was sent to me in a box for identification: I set it out, on the off chance of its living, in my garden at Dorking; and it now overruns the whole place, so that I have had abundant opportunities of observing its growth and development to my heart's content. I am certain that F. Indica is not a true strawberry at all ; or, in other words, that it is not a common descendant with the other strawberries of any original white-flowered potentilla ancestor, but an independent development of the succulent habit all by itself. It has yellow blossoms, a very different calyx, and a most insipid, pulpy fruit. I have not the slightest doubt that this species has been developed from a yellow Indian potentilla, just as our strawberries have been developed from a white European potentilla, by the unconscious agency of birds in dispersing the nutlets. All that the two plants have in common (beyond their undoubted generic potentilla type) is the mere fact of a succulent receptacle, which might just as easily occur independently in the one case as in the other. If I had to remodel the genus Potentilla on my own account, I would certainly put

the common strawberry into the same division as the white-flowered European P. fragarioides, while I would put the Indian species into the same division with the yellow-flowered P. frigida of your Mount Washington range.

THE RISE OF THE GRANGER MOVEMENT.

BY CHARLES W. PIERSON.

COME wise men of the press are saying that the Knights of Labor D are like the Grangers. As the exact points of resemblance are not stated, the assertion serves merely to call up a recollection of the unique secret society, which, a dozen years ago, seemed far more powerful than ever the Knights of Labor were. The Grange still lives, but its glory is departed, and its history is recorded only in the distorted statements of partisans and of misinformed review-writers,

In the latter part of 1868 certain Minnesota farmers received a printed sheet which began as follows: "In response to numerous inquiries in regard to our order, this circular is issued. The order was organized by a number of distinguished agriculturists of various States of the Union at Washington in December, 1867, and since then has met with most encouraging success, giving assurances that it will soon become one of the most useful and powerful organizations in the United States. Its grand object is not only general improvement in husbandry, but to increase the general happiness, wealth, and prosperity of the country." As an aid in accomplishing its author's design, this circular was certainly a success. As a statement of truth it was a conspicuous failure. Instead of having "met with most encouraging success," the order had scarcely been heard of; while the "distinguished agriculturists" who had "organized" it comprised one fruit-grower and six Government clerks, equally distributed among the Post-Office, Treasury, and Agricultural Departments. Of these seven Immortal Founders, as enthusiastic Grangers were calling them a few years later, six are living. Nevertheless, it is difficult to determine just how much of the plan and its execution was due to each. The truth seems to be about as follows: In 1866 one O. H. Kelley, a clerk in the Agricultural Department, was sent by the Commissioner of Agriculture on a tour of inspection through the Southern States. Impressed with the demoralization of the farming population, he hit upon the idea of organization for social and educational purposes, as a means for these people to better their condition. An ardent Mason, he naturally thought of an organization similar to the Masonic, in whose ritual, secrecy, and fraternity he saw the secret of that permanence which all agricultural societies had failed to attain. A niece in Boston, to whom he first mentioned the idea, recommended that women be given membership, thus originating an important feature.

On returning to Washington, Kelley took the other six immortals into his confidence, and the seven set about developing the plan and constructing a ritual. It would be a long story to tell how, by two years' labor in the intervals of their regular work, they constructed a constitution providing for a national, State, county, and district organization, and a ritual with seven degrees; how the names-Patrons of Husbandry for the body in general and Grangers for the subordinate chapters-were finally hit upon, the latter being taken, not on account of its etymological meaning (Latin granum), but from the name of a recent novel. Suffice it to say that on December 4, 1867, a day still celebrated as the birthday of the order, the seven assembled, and, with an assurance almost sublime, solemnly organized themselves as the "National Grange of the Patrons of Husbandry." There was none to dispute the title, and they enjoyed it alone for the next five years. It is hard to tell just what were the expectations of these men. Kelley has been called everything from an unselfish philanthropist to a scheming adventurer. One can not but admire the pluck with which he persevered through great discouragements, and the unselfish spirit in which he and his fellow-workers surrendered control of the movement when it had become a power in the land. Their first step was to organize a mock Grange among their fellow-clerks and their wives, to experiment with the ritual. The experiment proving satisfactory, Kelley resigned his clerkship and started out to proclaim the Grange to the world, armed only with a few dollars and a sort of introductory letter from the other six to mankind at large.

He was not a success as a lecturer. Moreover, he made the mistake of laboring in the larger towns, instead of in the country. The four or five Granges that he coaxed into life at once proceeded to die, and he finally reached Minnesota penniless, but not discouraged. Even while the six at Washington were becoming faint-hearted, and writing to him that the landlady was pressing them grievously for hall-rent, and that it would be wise to give up the whole business, he could issue the circular with which I began, dilating upon the success of the order and the distinguished agriculturists at Washington who founded it. At his home, near Itasca, he worked on furiously, now dodging a creditor, again obliged to postpone answering letters for want of means to buy postage-stamps, till finally signs of success began to appear. He had organized a few Granges in Minnesota, and was able to detect a growing interest in other States. The prime necessity now was to encourage this feeble beginning, and by all means to keep it under the delusion that it was part of a powerful national organization. To this end every cent that could be earned or borrowed was used in distributing photographs of the founders, along with a mass of circulars and documents purporting to come from the national office at Washington. Every important question was ostensibly referred by Kelley to the Executive Committee at the same

WATER-LILIES.

THE inconstant April mornings drop crawled up the water-reeds, and, cling-

showers or sunbeams over the glistening ing with heads upward, (not downward, lake, while far beneath its surface a mur- as strangely described in a late "North ky mass disengages itself from the mud- British Review,") have undergone the dy bottom, and rises slowly through the change which symbolizes immortality; waves. The tasselled alder-branches the world is transformed from spring to droop above it; the last year's black- summer; the lily-buds are opened into bird's nest swings over it in the grape- glossy leaf and radiant flower, and we

Monthly Record of Current Events.

POLITICAL.

The official declaration of the vote cast for January 13th. Governor of each of the following States at the Novelaber (1889) elections was: Iowa, Boies (Democrat), refused the proposition of an amnesty to Boulanger, 180,111; Massachusetts, Brackett (Republican), 127,-357; Mississippi, Stone (Democrat), 84,929; New

The Senate, December 18, 1869, confirmed the civil allowance were cancelled to mination of David J. Brewer as Associate Justice. The Spanish ministry resigned of the Supreme Court of the United States The Legislature of Montana elected (January 1st cabinet, resigned January 7th.

and 2d) Wilbur F. Sanders and T. C. Power as United States Senators.

Carlos I, was proclaimed King of Portugal at Lisbon December 28th.

Lord Salisbury presented an ultimatum to Portugal January 11th, demanding the withdrawal of all of the bark Tenby Castle at Holyhead. Eleven perthe Portuguese forces and officials of every kind sons drowned. from the African provinces in dispute, saying that a failure on the part of Portugal to answer within the Cleddy and Isle of Cuprus off the Isle of Wight. next twenty-four hours would result in the with- Thirteen persons drowned, drawal of the English legation. Portugal on the

reserving all rights of the Portuguese Crown in OUR Record is closed on the 14th of January.— those territories. The Portuguese Cabinet resigned

The French Chamber of Deputies, December 17th, by a vote of 338 to 61.

The provisional Brazilian government issued a Jersey, Abbett (Democrat), 138, 245; Ohio, Campbell decree, December 21st, banishing the ex-Emperor. (Democrat), 379,423; Virginia, McKinney (Demo. Dom Pedro, together with the royal family. The grant previously offered to the Emperor and his

The Spanish ministry resigned January 3d. Seno Sagasta, finding it impossible to constitute a new

DISASTERS

December 13, 1889.—Explosion in Belmez mines, Spain. Ten men killed.

December 18th.-Advices received of the wreck

following day yielded to the demands, under protest, the Lane Mine at Angel's Camp, California. December 22d .- Sixteen lives lost by a cave-in in

> sunshine with the answering beauty of the night,-tor it is the worst restone or the Water-Lily.

> the wild-duck has flown onward, to dive hilly and wooded shores of the lake sink for his luncheon in some remoter lake; into gloom and glimmer into dawn again, the tadpoles have made themselves legs, amid the low plash of waters and the with which they have vanished; the cad- noises of the night. dis-worms have sealed themselves up in Precisely at half-past three, a song-spartheir cylinders, and emerged again as row above our heads gave one liquid trill,

a night out-doors, that sleeping seems Days and weeks have passed away; such a waste of time, we watched the

winged insects; the dragon-flies have so inexpressibly sudden and delicious,

On returning to Washington, Kelley took the other six immortals into his confidence, and the seven set about developing the plan and constructing a ritual. It would be a long story to tell how, by two years' labor in the intervals of their regular work, they constructed a constitution providing for a national, State, county, and district organization, and a ritual with seven degrees; how the names-Patrons of Husbandry for the body in general and Grangers for the subordinate chapters-were finally hit upon, the latter being taken, not on account of

HE Drawer will still bet on the enough to suit us. , Undeniably it is very ef-

rose. This is not a wager, fective especially in masses of pergeous color. but only a strong expression. In its innumerable shades and enlarging proof opinion. The rose will portions, it is a triumph of the gardener. It win. It does not look so is a rival to the aniline dyes and to the aranow. To all appearances, this is the age bout feathers. It goes along with all conof the chrysanthemum. What this gaudy ceits and fantastic unrest of the decorative art. flower will be daily expanding and varying Indeed, but for the discovery of the capacito suit the whim of fashion, no one can ties of the chrysanthemum, modern life would tell. It may be made to bloom like the cab- have experienced a fatal hitch in its developbage; it may spread out like an umbrella- ment. It helps out our age of plush with a it can never be large enough nor showy flame of color. There is nothing shamefaced

sommet so see no nome, near suren, no normen on surroung, non dodging a creditor, again obliged to postpone answering letters for want of means to buy postage-stamps, till finally signs of success began to appear. He had organized a few Granges in Minnesota, and was able to detect a growing interest in other States. The prime necessity now was to encourage this feeble beginning, and by all. means to keep it under the delusion that it was part of a powerful national organization. To this end every cent that could be earned or borrowed was used in distributing photographs of the founders, along with a mass of circulars and documents purporting to come from the national office at Washington. Every important question was ostensibly referred by Kelley to the Executive Committee at the same

WATER-LILIES.

vine; the newly-opened Hepaticas and have come for the harvest. Epigueas on the neighboring bank peer We lodged, last night, in the old Engthe Water-Lily.

with which they have vanished; the cad- noises of the night. dis-worms have sealed themselves up in Precisely at half-past three, a song-spar-

The inconstant April mornings drop crawled up the water-reeds, and, clingshowers or sunbeams over the glistening ing with heads upward, (not downward, lake, while far beneath its surface a mur- as strangely described in a late "North ky mass disengages itself from the mud- British Review,") have undergone the dy bottom, and rises slowly through the change which symbolizes immortality; waves. The tasselled alder-branches the world is transformed from spring to droop above it; the last year's black- summer; the lily-buds are opened into bird's nest swings over it in the grape- glossy leaf and radiant flower, and we

down modestly to look for it; the water- lish phrase, " at the sign of the Oak and skater (Gerris) pauses on the surface Star." Wishing, not, indeed, like the near it, easting on the shallow bottom ancient magicians, to gather magic berry the odd shadow of his feet, like three and bud before sunrise, but at least to pairs of boxing-gloves; the Notonecta, or see these treasures of the lake in their water-boatman, rows round and round it, morning hour, we camped last night on sometimes on his breast, sometimes on a little island, which one tall tree almost his back; queer caddis-worms trail their covers with its branches, while a dense, self-made homesteads of leaves or twigs undergrowth of young chestnuts and beside it; the Dytiscus, dorbug of the birches fills all the intervening space, water, blunders clumsily against it; the touching the water all around the circutadpole wrighles his studid way to it, and lar, shelving shore. Xesterday was hot, rests upon it, meditating of future frog- but the night was cool, and we kindled a dom; the passing wild-duck dives and gypsy fire of twigs, less for warmth than nibbles at it; the mink and musk-rat for society. The first gleam made the brush it with their soft fur; the spotted dark lonely islet into a cheering home, turtle slides over it; the slow larva of turned the protecting tree to a starlit gauzy dragon-flies cling sleepily to its roof, and the chestnut-sprays to illuminsides and await their change; all these ated walls. Lying beneath their shelfair or uncouth creatures feel, through ter, every fresh flickering of the fire kinthe dim waves, the blessed longing of dled the leaves into brightness and banspring; and yet not one of them dreams ished into dark interstices the lake and that within that murky mass there lies sky; then the fire died into embers, the a treasure too white and beautiful to leaves faded into solid darkness in their be yet intrusted to the waves, and that turn, and water and heavens showed for many a day that bud must yearn to- light and close and near, until fresh twigs ward the surface, before, aspiring above caught fire and the blaze came up again. it, as mortals to heaven, it meets the Rising to look forth, at intervals, during sunshine with the answering beauty of the night,-for it is the worst feature of a night out-doors, that sleeping seems Days and weeks have passed away; such a waste of time,-we watched the the wild-duck has flown onward, to dive hilly and wooded shores of the lake sink for his luncheon in some remoter lake; into gloom and glimmer into dawn again, the tadpoles have made themselves legs, amid the low plash of waters and the

their cylinders, and emerged again as row above our heads gave one liquid trill, winged insects; the dragon-flies have so inexpressibly sudden and delicious,

whole shore and lake were vocal with lately discovered to be thus supported. song. Joining in this jubilee of morning, we were early in motion; bathing and revenue to the water-lilies, and these wa-Lily Pond. Will the reader join us?

presence or absence of other geographi- mer wind, in a regatta of blossoms.

that it seemed to set to music every atom strata of similar remains in mud above of freshness and fragrance that Nature them, to furnish foundations for a newer held; then the spell was broken, and the New Orleans; that eity having been The present decline in business is clear

breakfast, though they seemed indisputers are higher than usual because the idle tably in accordance with the instincts of factories do not draw them off. But we the Universe, yet did not detain us long, may notice, in observing the shores, that and we were promptly on our way to peculiar charm of water, that, whether its quantity be greater or less, its grace is It is one of those summer days when a the same; it makes its own boundary in veil of mist gradually burns away before lake or river, and where its edge is, there the intense sunshine, and the sultry morn- seems the natural and permanent maring only plays at coolness, and that with gin. And the same natural fitness, withits earliest visitors alone. But we are out reference to mere quantity, extends before the sunlight, though not before to its children. Before us lie islands the sunrise, and can watch the pretty and continents of lilies, acres of charms, game of alternating mist and shine, whole, vast, unbroken surfaces of stain-Stray gleams of glory lend their trailing less whiteness. And yet, as we approach magnificence to the tops of chestnut- them, every islanded cup that floats in trees, floating vapors raise the outlines of lonely dignity, apart from the multitude, the hills and make mystery of the wooded appears as perfect in itself, couched in islands, and, as we glide through the pla- white expanded perfection, its reflection cid water, we can sing, with the Chorus taking a faint glory of pink that is scarcein the "Ion" of Euripides, "O immense ly perceptible in the flower. As we glide and brilliant air, resound with our cries gently among them the air grows figs grant, and a stray breeze flaps the leaves.

Almost every town has its Lily Pond, as if to welcome us. Each floating flowdear to boys and maidens, and partially er becomes suddenly a ship at anchor, or equalizing, by its annual delights, the rather seems beating up against the sum-

the larger lake only by taking the skiff flowers are already expanded. Indeed, over a narrow embankment, which pro- that experience of Thoreau's, of watchteets our fairyland by its presence, and ing them open in the first sunbeams, rank eight distant factories by its dam. Once by rank, is not easily obtained, unless beyond it, we are in a realm of dark perhaps in a narrow stream, where the Lethean water, utterly unlike the sunny beautiful slumberers are more regularly depths of the main lake. Hither the marshalled. In our lake, at least, they water-lilies have retreated, to a domain open irregularly, though rapidly. But, of their own. Darker than these dark this morning, many linger as buds, while waves, there stand in their bosom hun- others peer up, in half-expanded beauty, dreds of submerged trees, and dismasted beneath the lifted leaves, frolicsome as roots still upright, spreading their vast, Pucks or baby-nymphs. As you raise uncouth limbs like enormous spiders be- the leaf, in such cases, it is impossible not neath the surface. They are remnants to imagine that a pair of tiny hands have of border wars with the axe, vegetable upheld it, or else that the pretty head Witheringtons, still fighting on their will dip down again, and disappear. stumps, but gradually sinking into the Others, again, have expanded all but the soft ooze, and ready, perhaps, when a inmost pair of white petals, and these score of centuries has piled two more spring apart at the first touch of the

finger on the stem. Some spread vast scarlet cardinal-flower begins to palisade vases of fragrance, six or seven inches the moist shores; and after its superb rein diameter, while others are small and flection has passed away from the waters, delicate, with petals like fine lace-work. the grotesque witch-hazel flares out its Smaller still, we sometimes pass a flotil- narrow yellow petals amidst the October la of infant leaves, an inch in diameter. leaves, and so ends the floral year. There All these grow from the deep, dark water, is not a week during all these months, -and the blacker it is, the fairer their when one cannot stand in the boat and whiteness shows. But your eye follows wreathe garlands of blossoms from the the stem often vainly into those sombre shores. depths, and vainly seeks to behold Sabrina fair, sitting with her twisted braids watch, day and night, the opening and of lilies, beneath the glassy, cool, but not closing of the water-lilies. Meanwhile, translucent wave. Do not start, when, in upon the waters, our queen keeps her such an effort, only your own dreamy chosen court, nor can one of these mere face looks back upon you, beyond the land-loving blossoms touch the hem of gunwale of the reflected boat, and you her garment. In truth, she bears no find that you float double, self and shad- sister near her throne. There is but

Let us rest our paddles, and look round odorata. The beautiful little rose-colorus, while the idle motion sways our light ed Nymphaa sanguinea, which once skiff onward, now half-embayed among adorned the Botanic Garden at Camthe lily-pads, now lazily gliding over in- bridge, was merely an occasional variety tervening gulfs. There is a great deal of costume. She has, indeed, an English going on in these waters and their fring- half-sister, Nymphaa alba, less beautiful, ing woods and meadows. All the sum- less fragrant, but keeping more fishion mer long, the pond is bordered with suc- able hours -not opening (according to cessive walls of flowers. In early spring Linnaus) till seven, nor closing till four. emerge the yellow catkins of the swamp- Her humble cousin, the vellow Nuphar, willow, first; then the long tassels of the keeps commonly aloof, as becomes a graceful alders expand and droop, till poor relation, though created from the they weep their yellow dust upon the selfsame mud,-a fact which Hawthorne water; then come the birch-blossoms, has beautifully moralized. The proudmore tardily; then the downy leaves er Nelumbium, a second-cousin, lineal and white clusters of the medlar or shad- descendant of the sacred bean of Pythagbush (Amelanchier Canadensis of Gray); oras, keeps aloof, through pride, not these dropping, the roseate chalices of humility, and dwells, like a sturdy demthe mountain-laurel open; as they fade ocrat, in the Far West. into melancholy brown, the sweet Azalea uncloses; and before its last hon- her fragrant court, with few attendants. eyed blossom has trailed down, dying, The tall pickerel-weed (Pontederia) is from the stem, the more fragrant Clethra her gentleman-usher, gorgeous in blue starts out above, the button-bush thrusts and gold through July, somewhat rusty forth its merry face amid wild roses, and in August. The water-shield (Hydrothe Clematis waves its sprays of beauty. peltis) is chief maid-of-honor; she is a Mingled with these grow, lower, the spi- highborn lady, not without royal blood reas, white and pink, yellow touch-me- indeed, but with rather a bend sinister; not, fresh white arrowhead, bright blue not precisely beautiful, but very fastidvervain and skullcap, dull snakehead, ious; encased over her whole person gay monkey-flower, coarse eupatoriums, with a gelatinous covering, literally a milk-weeds, golden-rods, asters, thistles, starched duenna. Sometimes she is susand a host beside. Beneath, the brilliant peeted of conspiring to drive her mistress

These all crowd around the brink, and this one species among us, Nymphaa

But, undisturbed, the water-lily keeps

ostensibly referred by Kelley to the Executive Committee at the same

from the throne; for we have observed and long-tailed Ephemeræ flutter more certain slow watercourses where the heavily by. On the large alder-flowers leaves of the water-lily have been almost clings the superb Desmocerus palliatus, wholly replaced by the similar, but small- beautiful as a tropical insect, with his er, leaves of the water-shield. More rare- steel-blue armor and his golden cloak ly seen is the slender Utricularia, a dainty (pallium) above his shoulders, grandest maiden, whose light feet scarce touch the knight on this Field of the Cloth of Gold. water,-with the still more delicate float- The countless fireflies which spangled ing white Water-Ranunculus, and the shy the evening mist now only crawl sleepi-Villarsia, whose submerged flowers mere- ly, daylight creatures, with the lustre burly peep one day above the surface and ied in their milky bodies. More wholthen close again forever. Then there ly children of night, the soft, luxurious are many humbler attendants, Pota- Sphinxes (or hawk-moths) come not here; mogetons or pond-weeds. And here fine ladies of the insect world, their home float little emissaries from the dominions is among gardens and green-houses, late of land; for the fallen florets of the Vi- and languid by day, but all night long burnum drift among the lily-pads, with upon the wing, dancing in the air with mast-like stamens erect, sprinkling the unwearied muscles till long past midwater with a strange beauty, and cheat-night, and supping on honey at last.

swarms with busy existence than these love. emidsummer waters and their bushy All these hover near the waterslik; banks. The warm and humming air/ but its special parasites are an elegant gant little Lepture fly with them, so gay into the water, and paddle away for some and airy, they hardly seem like beetles. subaqueous Runnymede. Beneath, the Phryganeæ, (nés caddisworms,) laceflies, shy and stately pickerel vanishes at a

ing us with the promise of a new aquatic They come not here; but the nobler butterflies soar above us, stoop a moment These are the still life of this seques- to the water, and then with a few lazy tered nook; but it is in fact a crowded wavings of their sumptuous wings float thoroughfare. No tropic jungle more far over the oak-trees to the woods they

is affed with insect sounds, ranging from beetle (Donacia metallica) which keeps the murmur of invisible gnats and midg- house permanently in the flower, and a es, to the impetuous whirring of the few smaller ones which tenant the surface great Libellulæ, large almost as swallows, of the leaves,—larva, pupa, and perfect and hawking high in air for their food. insect, forty feeding like one, and each Swift butterflies glance by, moths flut- leading its whole earthly career on this ter, flies buzz, grasshoppers and katydids floating island of perishable verdurepipe their shrill notes, sharp as the edges The "beautiful blue damsel-flies" alight of the sunbeams. Busy bees go hum- also in multitudes among them, so fearming past, straight as arrows, express- less that they perch with equal readiness freight-trains from one blossoming copse on our boat or paddle, and so various to another. Showy wasps of many spe- that two adjacent ponds will sometimes cies fume uselessly about, in gallant uni- be haunted by two distinct sets of speforms, wasting an immense deal of un-cies. In the water, among the leaves, necessary anger on the sultry universe. little shining whirlwigs wheel round and Graceful, stingless Sphexes and Ichnen- round, fifty joining in the dance, till, at mon-flies emulate their bustle, without the slightest alarm, they whirl away to their weapons. Delicate lady-birds come some safer ballroom, and renew the merand go to the milkweeds, spotted almost riment. On every floating log, as we as regularly as if Nature had decided to approach it, there is a convention of turnumber the species, like policemen or tles, sitting in calm debate, like mailed hack-drivers, from one to twenty. Ele- barons, till, as we approach, they plump

glance, shoals of minnows glide, black the stainless. But handle them tenderly, and bearded pouts frisk aimlessly, soft as if you loved them. Do not grasp at the water-lizards hang poised without mo- open flower as if it were a peony or a tion, and slender pickerel-frogs cease hollyhock; for then it will come off, stalkoccasionally their submerged eroaking, less, in your hand, and you will east it and, darting to the surface with swift blighted upon the water; but coil your vertical strokes, gulp a mouthful of fresh thumb and second finger affectionately air, and down again to renew the moist around it, press the extended forefinger soliloquy.

waters, and the kingfishers that still bring, a Lotus the brow of Rama. as the ancients fabled, halcyon days. Consider the lilies. All over our rural the dense forest; and there fly a pair of lilies of the garden. The white doe of in the waters, yonder, a soft mass of water-lily's bosom, and there it rests forthe season, a mound of earth will be his in beauty, so delicate, so spotless, so fraremnant of his banquets, -once banquets liken his mistress to a water-lily? No for the Indians, too.

But we must return to our lilies. There fair as that.

firmly to the stem below, and with one Time would fail us to tell of the feath- steady pull you will secure a long and ered life around us,-the blackbirds that delicate stalk, fit to twine around the build securely in these thickets, the stray graceful head of your beloved, as the swallows that dip their wings in the quiet Hindoo goddess of beauty encircled with

Yonder stands, against the shore, a bit- watercourses, at midsummer, float these tern, motionless in that wreath of mist cups of snow. They are Nature's symwhich makes his long-legged person al- bols of coolness. They suggest to us the most as dim as his far-off booming by white garments of their Oriental wornight. There poises a hawk, before shippers. They come with the white sweeping down to some chosen bough in roses and prepare the way for the white blue-jays, screaming, from tree to tree. Rylstone and Andrew Marvell's fawn As for wild quadrupeds, the race is almight fitly bathe amid their beauties. most passed away. Fare to the North, Yander steep bank slopes down to the indeed, the great mose still browses on lake side, one solid mast of pale pink the lily-pads, and the shy beaver nib- laurel, but, once upon the water, a bles them; but here the few lingering purer tint prevails. The pink fades four-footed creatures only haunt, but do into a lingering flush, and the white not graze upon these floating pastures. creature floats peerless, set in green Eyes more favored than ours may yet without and gold within. That bright chance to spy an otter in this still place; circle of stamens is the very ring with there by the shore are the small footprints which Doges once wedded the Adriatic, of a mink; that dark thing disappearing Venice has lost it, but it dropped into the drowned fur, is a "musquash." Later in ever. So perfect in form, so redundant winter dwelling-place; and those myriad grant,-what presumptuous lover evermuscle-shells at the water's edge are the dared, in his most enamored hour, to human Blanche or Lilian was ever so

is no sense of wealth like floating in this
The water-lily comes of an ancient archipelago of white and green. The and sacred family of white-robed priests. emotions of avarice become almost de- They assisted at the most momentous moralizing. Every flower bears a fragrant religious ceremonies, from the beginning California in its bosom, and you feel im- of recorded time. The Egyptian Lotus poverished at the thought of leaving one was a sacred plant; it was dedicated to behind. But after the first half-hour of Harpocrates and to the god Nofr Atmoo, eager grasping, one becomes fastidious, -Nofr meaning good, whence the name rather scorns those on which the wasps of our yellow lily, Nuphar. But the and flies have alighted, and seeks only true Egyptian flower was Nymphaa Lo-

the throne of Momeron From Egypt the Louis was carried to or Louis-cheeked, and the youthful hero Assyria, and Layard found it among wears always a Lotus-wreath. Also "the fir-cones and honeysuckles on the later clear sky was bright with the autumnal sculptures of Nineveh. The Greeks moon, and the air fragrant with the perdedicated it to the nymphs, whence the fume of the wild water-lily, in whose name Nymphaa. Nor did the Romans buds the clustering bees were murmurdisregard it, though the Lotus to which ing their song." Ovid's nymph Lotis was changed, ser-

like sweet gingerbread."

tus, though Nymphaa carulea, Moore's tion of Vishnu, creator of the world, was "blue water-lilies," can be traced on born from a Lotus; so was Sri or Lakthe sculptures also. It was cultivated in shmu, the Hindoo Venus, goddess of beautanks in the gardens; it was the chief ty and prosperity, protectress of womanmaterial for festal wreaths; a single bud hood, whose worship guards the house hung over the forehead of many a queen- from all danger. "Seated on a fullly dame; and the sculptures represent blown Lotus, and holding a Lotus in herthe weary flowers as dropping from the hand, the goddess Sri, radiant with beauheated hands of belles, in the later hours ty, rose from the waves." The Lotus of the feast. Rock softly on the waters, is the chief ornament of the subterrafair lilies! your Eastern kindred have nean Eden, Patala, and the holy mounrocked on the stormier bosom of Cleo- tain Meru is thought to be shaped like patra. The Egyptian Lotus was, more- its seed-vessel, larger at summit than at over, the emblem of the sacred Nile,-as base. When the heavenly Urvasi fled the Hindoo species, of the sacred Gan- from her earthly spouse, Purúvavas, he ges; and both the one and the other was found her sporting with four nymphs of held the symbol of the creation of the heaven, in a lake beautified with the world from the waters. The sacred bull Lotus. When the virtuous Prahlada was Apis was wreathed with its garlands; burned at the stake, he cried to his cruel there were niches for water, to place it father, "The fire burneth me not, and among tombs; it was carved in the cap- all around I behold the face of the sky, itals of columns; it was represented on cool and fragrant with beds of Lotusplates and vases; the sculptures show it flowers!" Above all, the graceful hisin many sacred uses, even as a burnt- tory of the transformations of Krishna is offering; Isis holds it; and the god Nilus everywhere hung with these fresh chapstill binds a wreath of water-lilies around lets. Every successive maiden whom the deity wooes is Lotus-cyed, Lotus-mouthed,

Elsewhere we find fuller details. "In vato nomine, was a tree, and not a the primordial state of the world, the ruflower. Still different a thing was the dimental universe, submerged in water, enchanted stem of the Lotus-eaters of reposed on the bosom of the Eternal. Herodotus, which prosaic botanists have Brahma, the architect of the world, reduced to the Zizyphus Lotus found by poised on a Lotus-leaf, floated upon the Mungo Park, translating also the yellow waters, and all that he was able to dis-Lotus-dust into a mere "farina, tasting cern with his eight eyes was water and darkness. Amid scenes so ungenial and But in the Lotus of Hindostan we find dismal, the god sank into a profound revour flower again, and the Oriental sacred erie, when he thus soliloquized: 'Who books are cool with water-lilies. Open am I? Whence am I?' In this state the Vishnu Purana at any page, and it of abstraction Brahma continued during is a Sortes Lilianae. The orb of the the period of a century and a half of earth is Lotus-shaped, and is upborne by the gods, without apparent benefit or a the tusks of Vesava, as if he had been solution of his inquiries, a circumstance sporting in a lake where the leaves and which caused him great uneasiness of blossoms float. Brahma, first incarna- mind." It is a comfort, however, to

know, that subsequently a voice came to him, on which he rose, "seated him- ble for which the Sanserit could not afford self upon the Lotus in an attitude of con- at least a conjectural cure? A dictionary templation, and reflected upon the Eter- of that extremely venerable tongue is an nal, who soon appeared to him in the ostrich's stomach, which can crack the form of a man with a thousand heads": hardest etymological nut. The Sanscrit a questionable exchange for his Lotus- name for the Lotus is simply Padma.

square, and the holy invocation, "Oh, the ed than the savans. gem in the Lotus!" goes murmuring over This lets us down easily to the more hill and valley, like the sound of many familiar uses of this plant divine. By bees. It is no unmeaning phrase, but the Nile, in early days, the water-lily

derived from the Anglo-Saxon pand or in those of Æsculapius. petthian, or the Greek πατέω? All the etymologists are silent; Tooke and Rich- isfactions in our flower. It has some ardson ignore the problem; and of the strange peculiarities of structure. So innumerable pamphlets in the Worcester loose is the internal distribution of its and Webster Controversy, loading the tissues, that it was for some time held tables of school-committee-men, not one doubtful to which of the two great vegeventures to grapple with the lily-pad.

But was there ever a philological trou-The learned Brahmins call the Egyptian This is Brahminism; but the other deities Padma Devi, or Lotus-Gods; the great form of Oriental religion has car- second of the eighteen Hindoo Puranasried the same fair symbol with it. One is styled the Padma Purana, because it of the Bibles of the Buddhists is named treats of the "epoch when the world "The White Lotus of the Good Lacr." was a golden Lotus"; and the sacred in-A pious Nepaulese bowed in reverence cantation which goes murmuring through before a vase of lilies which perfumed Thibet is "Om mani padme houm." It the study of Sir William Jones. At would be singular, if upon these delicate sunset in Thibet, the French mission- floating leaves a fragment of our earliest aries tell us, every inhabitant of every vernacular has been borne down to us, village prostrates himself in the public so that here the schoolboy is more learn-

an utterance of ardent desire to be ab- was good not merely for devotion, but sorbed into that Brahma whose emblem for diet. "From the seeds of the Lois the sacred flower. The mystic formula tus," said Pliny, "the Egyptians make or "mani " is imprinted on the payement bread! The Hindoos still eat the seeds of the streets, it floats on flags from the roasted in sand; also the stalks and roots. temples, and the wealthy Buddhists main- In South America, from the seeds of the tain sculptor-missionaries, Old Mortalities Victoria (Nymphwa Victoria, now Vicof the water-lily, who, wandering to dis- toria Regia) a farina is made, preferred tant lands, carve the blessed words upon to that of the finest wheat,-Bonpland even suggesting to our reluctant imag-Having got thus far into Orientalism, ination Victoria-pies. But the Europeanwe can hardly expect to get out again species are used, so far as we know, only without some slight entanglement in in dyeing, and as food (if the truth be philology. Lily-pads. Whence pads? told) of swine. Our own water-lily is No other leaf is identified with that sin- rather more powerful in its uses; the gular monosyllable. Has our floating root contains tannin and gallic acid, and Lotus-leaf any connection with padding, a decoction of it "gives a black precipor with a footpad? with the ambling pad itate, with sulphate of iron." It graof an abbot, or a paddle, or a paddock, ciously consents to become an astringent, or a padlock? with many-doméd Padua and a styptic, and a poultice, and, banproud, or with St. Patrick? Is the name ished from all other temples, still lingers

> The botanist also finds his special sattable divisions, exogenous or endogenous,

it belonged. Its petals, moreover, fur- even these give some recognition of liarity of the water-lily, but the extent and to take pleasure in the rain. of it seems to vary with season and lo-

ciscle to the depth though never stiff in sions, nor merely of beauty, but a creapean Vallisneria, which uncoil to let the day. Rising one day from the water, flowers rise to the surface, and then cau- a mere elenched mass of yellow prickles, tiously retract, that the seeds may ripen a leaf is transformed the next day to a on the very bottom of the lake. The crimson salver, gorgeously tinted on its leaves show beneath the magnifier beau-upturned rim. Then it spreads into a tiful adaptations of structure. They are raft of green, armed with long thorns, not, like those of land-plants, constructed and supported by a frame-work of ribs with deep veins to receive the rain and and cross-pieces, an inch thick, and so conduct it to the stem, but are smooth and substantial, that the Brazil Indians, while glossy, and of even surface. The leaves gathering the seed-vessels, place their of land-vegetation have also thousands of young children on the leaves ;--yrupe, little breathing-pores, principally on the or water-platter, they call the accommounder side : the apple-leaf, for instance, dating plant. But even these expanding has twenty-four thousand to a square inch. leaves are not the glory of the Victoria; But here they are fewer; they are wholly the glory is in the opening of the flower. on the upper side, and, whereas in other We have sometimes looked in, for a eases they open or shut according to the passing moment, at the green-house, its moisture of the atmosphere, here the dwelling-place, during the period of flowgreedy leaves, secure of moisture, scarce- ering,—and then stayed for more than

nish the best example of the gradual hygrometric necessities, and, though livtransition of petals into stamens,-illus- ing on the water, and not merely christrating that wonderful law of identity tened with dewdrops like other leaves. which is the great discovery of modern but baptized by immersion all the time, science. Every child knows this pecu- they are yet known to suffer in drought

We have spoken of the various kincality, and sometimes one finds a succes- dred of the water-lily; but we must not sion of flowers almost entirely free from leave our fragrant subject without due mention of its most magnificent, most Our readers may not care to know lovely relative, at first claimed even as that the order of Nymphæaceæ "differs its twin sister, and classed as a Nymfrom Ranunculaceæ in the consolidation phasa. We once lived near neighbor of its carpels, from Papaveracea in the to a Victoria Regia. Nothing, in the placentation not being parietal, and world of vegetable existence, has such from Nelumbiacese in the want of a large 'a human interest. The charm is not truncated disc containing monospermous in the mere size of the plant, which achenia"; but they may like to know disappoints everybody, as Niagara does, that the water-lily has relations on land, when tried by that sole standard. The in all gradations of society, from poppy leaves of the Victoria, indeed, attain a to magnolia, and yet does not conform diameter of six feet; the largest flowers, its habits precisely to those of any of of twenty-three inches,-less than four them. Its great black roots, sometimes times the size of the largest of our waas large as a man's arm, form a network ter-lilies. But it is not the mere looks at the bottom of the water. Its stem of the Victoria, it is its life which fascitheats, an airy four-celled tube, adapting nates. It is not a thing merely of dimenshallows, like the stalk of the yellow lily: ture of vitality and motion. Those vast and it contracts and curves when seed- leaves expand and change almost visitime approaches, though not so ingen- bly. They have been known to grow iously as the spiral threads of the Euro- half an inch an hour, eight inches a

ly deign to close them. Nevertheless, an hour, unable to leave the fascinating

scene. After the strange flower-bud has is transformed; it is gorgeous in beauty, reared its dark head from the placid tank, but it is "Hebe turned to Magdalen." moving it a little, uneasily, like some imfolded, quivers a little, and swiftly, before pure as herself. your eyes, the first of the hundred petals Nay, not alone in them, but also in still stands the central cone of snow, a cant shall come back to us again, with all glacier, an alp, a jungiran, while each the luxury of summer heats, and all the

fascinations and claim all senses for this Urvasi, sporting amid the Lake of Lotuses. jubilee of her darling.

prisoned water-creature, it pauses for a Nymphæa, never claiming such a hotmoment in a sort of dumb despair. Then house glory, never drooping into such a trembling again, and collecting all its blush, blooms on placidly in the quiet powers, it thrusts open, with an indignant waters, till she modestly folds her leaves jerk, the rough calyx-leaves, and the for the last time, and bows her head bebeautiful disrobing begins. The firm, neath the surface forever. Next year she white, central cone, first so closely in- lives for us only in her children, fair and

detaches its delicate edges, and springs memory. The fair vision will not fade back, opening towards the water, while from us, though the paddle has dipped its white reflection opens to meet it from tits last crystal drop from the waves, and below. Many moments of repose follow, the boat is drawn upon the shore. We -you watch,-another petal trembles, may yet visit many lovely and lonely pladetaches, springs open, and is still. Then ces,-meadows thick with violet, or the another, and another, and another. Each homes of the shy Rhodora, or those slopmovement is so quiet, yet so decided, so ing forest-haunts where the slight Linliving, so human, that the radiant crea- naea hangs its twin-born heads,-but no ture seems a Musidora of the water, scene will linger on our vision like this and you almost blush with a sense of annual Feast of the Lilies. On scorchguilt, in gazing on that peerless privacy. ing mountains, amid raw prairie-winds, As petal by petal slowly opens, there or upon the regal ocean, the white pag-

avalanche of whiteness seems the last. fragrant coolness that can relieve them. Meanwhile, a strange rich odor fills the We shall fancy ourselves again among air, and Nature seems to concentrate all these fleets of anchored lilies, -again, like

For that which is remembered is often So pass the enchanted moments of the more vivid than that which is seen. The evening, till the fair thing pauses at last, eye paints better in the presence, the and remains for hours unchanged. In heart in the absence, of the object most the morning, one by one, those white dear. "He who longs after beautiful Napetals close again, shutting all their beauture can best describe her," said Bettine; ty in, and you watch through the short "he who is in the midst of her lovelinesssleep for the period of waking. Can can only lie down and enjoy." It enthis bright transfigured creature appear hances the truth of the poet's verses, that again, in the same chaste beauty? Your he writes them in his study. Absence is fancy can scarcely trust it, fearing some the very air of passion, and all the best disastrous change; and your fancy is too description is in memoriam. As with our true a prophet. Come again, after the human beloved, when the graceful pressecond day's opening, and you start at ence is with us, we cannot analyze or dethe transformation which one hour has scribe, but merely possess, and only after secretly produced. Can this be the virits departure can it be portrayed by our gin Victoria,-this thing of crimson pas- yearning desires; so is it with Nature: sion, this pile of pink and yellow, relaxed, only in losing her do we gain the power expanded, voluptuous, lolling languidly to describe her, and we are introduced to upon the water, never to rise again? In Art, as we are to Eternity, by the dropthis short time every tint of every petal ping away of our companions.

FIFTY AND FIFTEEN.

WITH gradual gleam the day was dawning, Some lingering stars were seen, When swung the garden-gate behind us,— He fifty, I fifteen.

The high-topped chaise and old gray pony Stood waiting in the lane: Idly my father swayed the whip-lash, Lightly he held the rein.

The stars went softly back to heaven,
The night-fogs rolled away,
And rims of gold and crowns of crimson
Along the hill-tops lay.

That morn, the fields, they surely never
So fair an aspect wore;
And never from the purple clover
Such perfume rose before.

Digitize and low romantic valleys

And flowery by-roads through,

And flowery by-roads throads through,

And flowery by-roads throads throads throads through throads throads throads thro

Our souls lay open to all pleasure,— No shadow came between; Two children, busy with their leisure,— He fifty, I fifteen.

As on my couch in languor, lonely, I weave beguiling rhyme, Comes back with strangely sweet remembrance That far-removed time.

The slow-paced years have brought sad changes, That morn and this between; And now, on earth, my years are fifty, And his, in heaven, fifteen. R. lucida, more com som a of dry soils, Dwart Rose, varies proutly in wet soil; too same there having

reen descr as diff. sp. ; blooms May to July,

R. Carolina Strang Rose, blooms Luce to Sept. 25 Ela.

Re blanda Bury Rose, nearly unarmed; glancones colyx

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R. Cinnamurses Cinnamor Rose, closely related to But.; Ed in Eu and of Pr Barrero; nated in Ana is snow plo to Me country post-dens; to overlish and bank, two priddles, marall double trut badly chapted flor with cinnamortike papeause.

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B. rubiginesa, surrethier or Eglunting the last once applied to it.

R mickantha

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Lamanque, everier porder as a gentle climber; orderningel theory about Chromatella, cause up than their passet to.

ROSE; known as a splendid flower of the E, to the Great to of Honory kn, at 1st by pepert, then by their scented oils, then by plants, Felin; appear in Honory Heriod, who call Access racy-frequent; being anomal inchange of Hector in Medical collections are called May acmed. Did H, know the ruse inche? Homo Antoria is to they for History rose oil but not the case? Hymn to Demeter, benevold record to the and Electrical coordinate roseship of that godders; mentions the rose fort sell in strange dantastic guise. Recreasing plays ovid her companient in a blood of playing rose in coccuses, violeta, in see a Naccissus; tells her mother large how the following base in the chaming messay, a plucked cups of voses getilled too, a war vel to took at ". Some of her a companying my mphs are named by the king Khodera, Rhodera (rase face) Ouyere Kalykopis (o. with a lose like a ruse cup); recording is also appellative for a nample in the Hyan to Aphredite Rhoder case tracts.

Histor to Demeter, the rose is called bode's active, resycup "action attar", k, to disk, the improved full use from the wild; common until k, by twelf come termican. Deep, k rodured roll use from the wild; common until k, by twelf come termican. Peop, k to deal with the flower as if bode's the rosy. Helm suppress ponder speech reflected to the flower as if bode's the rosy. Tail blackstriveller in the Classification of the sustained before the last, Rose, Fore thicke k. 2. Rose is ode's Tree hagh "as It, popular last, under Classification of Comming to Macconding tras the fatherland of the could R, as regards four them, Hangelius says the Minhad a diff. name for the R scalled it affaired. "Modern fin bave as the bundred the could flow a say the thirty-leaved," in the rock plate of the could define any for the standard of the could flow a say the thirty-leaved, "Indiana plate for the last of the last flower." Notes in the passed for Albanian. The training Common training the last for the last of the standard of the could flow a say the thirty-leaved, "Indiana plate for the last of th

The Greek Mechilation a property called the Home Highers, processing to be constructed to the poet. 100 g, later it is Supplied familie Movement of the poets of the poets of the processing of the processing the proce

Hite says in the garden of Midar in 12 Hod acid [on of Gradius, at five of Mit Beronia] green spectramentally the 60 led 1000, or ones secret was name delictions than that of any of

Nicouser, so Alex's poet, says Mides of Odoria [Edorie, a district in There) attended as the leaving Asis [in Allian] was the let to plant in Emathian sardens [E, a district in Maccol] the 60 lnd. rese." Indicates origin from Bodylonia (they from Media); using the Old Babyloniah no. 60. Helm.

"Theophoseus mentos the ubried of Philippi, torods Maced, as home of the full rese, who he also calls "Tot led," R. contoffia; the inhalis exceeded to have be it on the Dit Pangacu, rich in silver spold,

My the of the hose in the flower of Diragna; the fraginalist of nature "Fifther. Dedicated to depending; is the flower of Diragna; the frailed both of love and direct; come into being when Attis [the Phayslan Admis]died; Vocated it over of Admis' blood; or V, heaving of Ad death, "Thinking that the throughold a counted her fort; a her blood turned the white rese red; or [true Phayslandard the Reprings of traffer has blood a passpranger of surround in Amilian cases). Since, "Erreach had drop the Sheds a tern; full his tothe province, both them.

hentation

Legy ye by the change Elman Extend at the loss of a tant avoigh added Jove to chighe body to also the changes breaty"; Anytio, trachous Pernamens a Emmana growth in word odditions of the son pretectors.

The sympton viewers the ance bett it see to execute it routed over the Ry or tour.
The sympton type that course the sic Trasers, on volors that twolf over exercise.

And became wreet increase our its lower.

In Origina. The Gre Star in an older form spotor, who deferry both seve originally Iwacie vocade; both names & plants thus come to Gr. then?

Armonia & Breggie born Media, "Teha, Media, to this the name is traced to Armeria; to Phrysia, to Theore, indicated by Proservine's rese building there, there con Rhadore transfel there; to Macdonia, where signs a resequent, shude to it, the myths of the R five an educ of the Phryglan vorsein of nature, Boutin, 15"; rayellutach can soft out of your means of spour, or source of a particular, Boutin, 15"; rayellutach can soft out of your means of spours, or source of a particular.

In the Bible. Hosea piv, 5 18th cy; "IS I will be as the decrusto Israel; be shall blown like the rose" Luther's vers;" he shall grow as the lily," It lanes; Fletz, susan susannah = Kolver = fire-lily. Rabbinical luter, = rose is town; it was followed by Luther regularly, Hobe,

3 th Song in 1, 2, "I am a thorner in Sharma, a a the in the valley" Lenther's v; lily of the valley, Eng., a fire lily. Rose of Sharma" a bunder Helps,

Thus no true retevence to the Rose in the Rible world the Aproxypha, of Gre clan age. Gr. were then cover age, on the R. than the Hebrary hours it

La Egypt, Absent in and pointing seculpture; bence not be it thank to Clayears caused the how of the bolt of Takens, whose she leasted many the covered 30 Brick on Re " Takens, B. to Egwere but to sell in home in winter planting."

Digitized by Hunt Institutive around out Round to the round. Another is it so extended to the Round to the round. Another is it so extended to the planted are stringly called another are officed or the R. would be a considered to the Round to the Round

Kpivov, an eagle or some other object"

hentation

In Syria Antivolus the Get, a true Grace microt despet, as beging now whome take the isles, traditiones at sike embradered to gold put up in the Euripus, whis a storing mater; a three enjoyed ev luxury, even it is vointer; the Romas seen drive him home apopals agrid by his own lux adds the Rom, su, "Those,

sarged of the R [parden rate of the East] into It by ar colonists winds it part the lity; from there both have spread without truther absorpt, we In It necessarieties were prid, succeeding each in the that of Companie hirse, of Praneste last thus keeping in blem may Mobile year; Capadouad the Resulfille; Pastum R borre toro

Chartas' Cornedies, in thews Rosa, mea Rosa, occurs as a term shoudowert. Cicero associates the rose with luxury, saying " The footitude of Regulus made him happier than A Thorius swilling and e over"

Vivil uses the note by which to have his highest compliments for the

Versea proposetor of Sidy in initarion of Bitogriso lings, rode in a litter the custions of who voere stuffed on roses, & held to his nose a net of fine

Bloring poets klordes show the rose in It eo, concerd as love x plass we; "the festive board is hidden under wees; lovers be on mores; the floor is son on witch; dencey three layer, boy who serves the voluse, all are rover school or R; drinker covers himself & voine cup both roll; Ra the rovel of the senses are inseparable.

R also the the of the trust; Rx teams openialded on the dood; proved to be tommore by was, epicartes, " Fire the case that issued for the blood of the degling god of nature is as decting as it is fair (treup); "It thou have passed by a core seed it not again, or per; It, There is no nose at 100 d." "The R vers the ground the long of momentary tulices at life , x for the sake of the say war and the Contracted to the wind of their, by the pining abadors in

Used in unknows ences, sweet waters gourtements; Raines River in pharmacy & epicuric kitchens; Reardens abounded, as did Lilybeds; perduce of took sold by Bowersellers. Bet fall Reput, Vours advises suburban cultrest Rxtillets as proposale; extense Argedna as for any as Campania & fasture pent in the R to the rich's everins capital,

Lower if Emp.; Severa complains "Donor those obodestier in winter live contrary tonature!" Macrobias mentions as pavallel vequirements of luxury some in summer & roses in vointer. Martiel reports winter & were brit in ships felig, & that Rallies were gro und glass in Rome. Emp L. Allus Verus invented a vew Kind of bed, stuffed to is we, be not the notite parts had been taken away, covered as a carpet of Lilly leaves, the whole enclosed in a fine net. He lay at table on cushims stitled to Hashed R and Lilles. Still more expanagant was Heliopatolis; emperor of Syrian origin; caused all the value rooms to be carreted in R, willes viders, Hysouths, Marcisno; his quests were so doly intedded in the while rectining at table, that some at them, bring pedb larry to voice, were another to vise, and sufficiented," The recent pre, horses of Holy, exhibited Leb. 88 in NY, starrag scare of the revellers trying bewildered music rescherces deep as a sounderfy, on wha joking attendant ignored by the limp ratio dis near is shovering more R by the tribal basset.

LIL MING HIES B a Lity continued to be culti; med keral pro make abundt use of Role in desir; both adopted for the Rigin, her beauty reproductivess symbolized by the R, her beauty purity their Gothic ob's advoced to engetic R at stone? Used in hevoldy , at the Redal White Rot Eng;

The Golden Rose of the Popes; on 4th Sun in Level the Pope in whit, would consecrate on the alter of a chapel advaned with R, bet the adequat Condinate, a golden R; this was afterds prestd as a blessing to primare & privasses, even to che atner Rope dipped the Rin talenn, sprinkled it to boly vote & incense, & prayed to Christ as the Fir of the field setherily of the Valley, Shilly bet Refer, Frede the Wise, elector of Sax, rocky the Gel den Roser me lately, to the illfated Carlotta of More, & Irabella II of Sp. Cur traitraccable to time of healt, Ith ag | due to ave Rom emergition of the Ras symbol of lite & perishableness, ook in the band of a care ex-

The Rusalka, female trivies or wamphe at the helds x woods in spring, among the White & some of the Little Russians, were explained 1864? I by Miklosich to owe origin & pame to the Ruman Rosalia, Rosavia, ur R festivals, still celebra shoretly betithe fall; in May & June; when the works ! 6 prese degreed to R, schoold trangers in the R, product to the sessen, were present Ested to the ribits. K So for Ranging of Du at Myring yours, 1 to 1 21101 Docuber ruch my & some destinate were beld, which wave fordwith tomer no doubt in contin, of Dimysiac sum, feetols tradtol and Thraclas papeles, & the enjoyment of R insepretale to them. In Chr. ers, Whitemstide out! in May & inherited the Rosslin; was called pasches results or resources? to this day is called by Roman populace pasqua nosa on by mistake, p 17 supiado; x on W-day, the so called Domenico de 2008, & voexe lot divou to the people to the works of che, Aft, when in 6th cy, Slaw evanced link ! the Midux Liv. Danube city, batting betwo bearbenism & Clary, the Chr Wtide, or Rose-beast, naturally fused to the heather Springerise of the Man; taxtarians: and was called Russliga amp the Slovens, Serbs, Whites Little Russians, & Storales The Gay x voring Slav maidens was bound . weesths & interrogated self-invented onscles at this fast; a out of this feast was devolved the Rusallas, their mythic counterpart, In Ger too the Sadho R & Itala R festive became mingled to the Old German

notive of a beht better Winter & Summer; & Gen record the testival & Rusalka-mogto thee' the Caltichoman Igrole Italy,

introder it. Old prosequied that to get 12 to 10 this for their than Constantingle, that the Rudes and not let a Rileaf lie on the god, belop the R syrang for the days of except that spring for Michamoodis been.

Vombery the trave sow enthe so called grave of Ali prese Messar, near mid Bakk x ne Bactraj the wonder wording Red Roses, gill sunder, the really seemed to him to excel all des in a live x s contra out home now been planted elsewow, as the local Islamite left says they not there wording.

Digitized by Hunt Institute to the form of the distributed by the land of the

The Rose of Edex

Fair Five hust by the gravided pates, in the slow of the Baxtern spring. She saw the flash of the Appel's sound the sheep of the Appel's wing; slue that as the had ber sitting breath, she could bear the happy sights. It the timy printer that fed the masses of Lanadise.

She knew how the birds over a futtering among the clustered flavour. And prepare flowers and arching trees that obadwolfdents bovers. And prepare flowers are sind in an appay of wild remarked prayer, Give me one budy but one, from the thousands that blossen there. He turned as he heard her piteurs orice, in his power angels pray. And he looked with a wistful tendenness on the beautiful orman's face. And he looked with a wistful tendenness on the beautiful orman's face. And because it was it so beautiful, a because she end dring at her knee. And because he pure white cycloment that he weary years must have, and because he lines this punishment that he weary years must have. That that all things sweet a prod of earth her beart would for knew meet, and hungle with first bads that she changed in plant in yet.

With her who ware it as her breast when she passed from life and poly. There is never a doughter of Five, but once for the toke of her day is done. She will know the scent of the Eden rose just once beworth the sun. And whatever else she may win at lose, put once hereath the sun. She will never faget the enchantment it gave to the common six, Fire the world may give her content on jvy, fame, somew or sacrifice. But the how that brought the scent of the rose, she lived it is.

O Eginhard, disclose The meaning & the mystery of the Rose! And trambling be made answer in good sooth Its mystery is love, its maning youth!

The odors beam the censers white Of wave-swang Lilles and of wind-svoung Ruses! from

Love comes like flowers in the right Anna Scatter upon me NOSC leaves, They cool under his feathers, My cochatro, creamy white, With KOSES under his feathers, Williamy, Chapata

entation

manufactured and property to the to deliver the bis to the

With sunbsams soft

May's silvery rain, Its tender petals parted;

Wooed roses crimson-bearted.

(The sky-lark's call) Thrilled virgin rose-buds sleeping: Pure, white as snow, Like vestals, grow Such roses, vigil keeping.

May's moon-light glanced And fushed, like maiden dreaming, Oped to love's tender seeming.

June claims the rose; But the May month knows, And yows it o'er and over To sun and moon, That May's the rose's lover. -MARIE LE BABON.

spec Athe & con byfets of

Al though they much sould not be to Of runshine in this autumn sir.

A DEAD ROSE.

BY MRS. ELIZABETH BARRETT BROWNING.

O Rose! who dares to name thee? No longer roscate now, nor soft, nor sweet; But barren and hard and dry as stubble-wheat Kept seven years in a drawer-thy titles shame thee.

The breeze that used to blow thee Between the hedge-thorns, and thence take

An odor up the lane to last all day-If breathing now-unsweetened would forego thee.

The sun that used to light thee. And mix his glory in thy gorgeous urn. Till beam appear to bloom and flower to

If shining now-with not a hue would dight thee,

The dew that used to wet thee, And, white first, grew incarnadined, because It lay upon thee where the crimson was-If dropping now-would darken where it met thee.

The fly that lit upon thee,
To stretch the tendrils of its tiny feet F. Along the leaf's pure edges after heat-If lighting now-would coldly overrun thee.

The bee that once did suck thee, and build the perfuned ambers up his hive, but a woon in thee for joy, till scarce alive— If passing now—would blindly overlook

The heart doth recognize thee, Alone, alone! The heart doth smell the sweet. Doth view the fair, doth judge thee most

Though seeing now these changes that disguise thee.

Yes, and the heart doth owe thee More love, dead rose, than to such roses bold As Julia wears at dances, smiling cold! Lie still upon this heart, which breaks below thee!



rouch of SWeet triar Ab my beart, he render trans unbidder start in millions of preced To weaver would worm eyes; And the scattered perch I kiss the faded, fragrant pray, The smilke a lover And momeries at a byene day Before my vision vise,

OE the ruse served Who is vocary, Hings

On the losely esoth When the day is dead,

Eslantine, Ellariges ; Shape MNDA 22 Cymheline 42

Rose in pal, Eller, 180-199 Shape 57

Hera lucida , shrance bed by blocking op a to bee shing reporter ; no account of the sellicing of we per types of laro re, was say in too B. As traper as the best old to B. Doctrior Buy armuch as son on on oy; the vac is in bedrag one next yetale, no of stocals a color que anstorts from of way of a post of proceeding, deprof plantaler habitrass, are charged our improve on vacins; he was no thing straight modeles of It angles in them; desci. M inter not amin Sealed Str, disappy in Worehan Mexas; by L a Die art Wildhore Jales Up as String Rose

CITALT OLD THE SECULTION THE WE HELD BY DE HIS OF THE

AWild hore to Sage "Mostly askens Till now they summer of delights! Where his the rough wish or ben be loid The bear on thing, these autumn nights?

" () will and for ! Proof run for Of runshing in this autumn six, O sweet voil were! O others much wind! The summy readside asks or ceases Why we such secret number had, Forgetting calendars & seasons!

monoretal road inapproval case

With secrets which no words director,

AROTHEYS SON ALL TO

and perfume.

Spenserre-

fers to this

tradition in

the lines.



Arabic word,

into Greek,

in the world is full

flower. The sacred books

The Turks believe that the red rose sprang from the blood of the great prophet Mahomet, and they reverence it accordingly. If a Turk sees a rose lying on the ground he picks it up, raises it to his lips, and carefully lays it in a

"The Voyage and Travaile of Sir John Manndeville," a famous book of the fourteenth century, gives yet another. account of the rose's birth : A Jewish maiden was brought to the stake by the slanders of an incensed-because rejected-suitor. As the flames began to crackle about her, she prayed that, as she was not guilty of the crimes whereof she was accused, Heaven would make her innocence

passage, "Hearken to me, ye holy children, and bud forth Vol. XXVIII .- JUNE, 1892 .- 31

of India, written centuries before our era, say that Vishnu,

lord of the world and god of life, found his wife, Pagoda

Siri, in the heart of a rose. In the apocryphal Book of Wisdom, Solomon says, "Let us crown ourselves with roses e'er they be withered;" and in Ecclesiasticus occurs the

which passed

thence into

The oldest literature

of allusions to the

^{*} The "rose of Sharon" was not, botanically speaking, a rose at all. It was either a sort of mallow, or, more probably, the wild red anemone of Eastern lands.

mown unto all men. Immediately the fagots about her ecame a bed of roses,—the burning ones red, and those hat were not yet kindled, white; and those were the first oses that ever "ony man saugh." Thus the rose became he flower of the martyrs.

In his "Travaile" Sir John seems to have met some Persian fire-worshipers, and to have utilized one of their egends as literary material. They believe that when the unfant prophet Abraham was thrown into the fire, by order of Nimrod, the flames and the glowing embers instantly urned to red roses, amid which the child slept sweetly, n "Lalla Rookh" (which now reposes peacefully on the library top-shelf, powdered with dust) our mothers used to read.

"The pitying heavens to roses turned The death-flames that beneath him burned;"

so among the many legends of the birth of the rose, Moore nelines to the Persian story.

An old Christian tradition says that a white rose bloomed at the foot of the cross, and the blood of the Redeemer, falling upon it, changed its petals to crimson. Oriental legend says that before sin and sorrow entered the world roses had no thorns. According to St. Ambrose and St. Basil, the roses of Eden were thornless; and Milton refers to this belief when he says that in the first and fairest garden there grew

"Flowers of all hues, and without thorn, the rose.

Christian art and story pay little heed to the rose, comparatively speaking. Classic art and story do it far more homage, and it played such an important part in classic life that one wonders how the Greeks and Romans could have worshiped, or, held gala-day, or dressed, or dined, without the litwist delifected to a function of I divinities, who, it seems, possessed the queenly blossom in common, in a sort of Olympic socialism. Flora, goddess of flowers, was porrayed crowned with roses, and so was Comus, god of feasts. The flowers were regarded as symbols of love and beauty, and so they wreathed the brows of Venus, queen of beauty, and of Cupid, god of love, while Aglaia, youngest, and preumably most charming, of the Graces, held roses in her and.

The rose was dedicated to Aurora, goddess of the morning; he altars of Bacchus were wreathed with roses. They were also sacred to Harpocrates, god of silence, whom classic art portrays with his finger on his lips, so the flower became a symbol of silence, and hence, by an obvious association of ideas, a symbol of discretion. Even in those long-ago days there were many times when "the least said" was "the soonest mended;" so at Roman feasts a rose, or a garland of roses, was hung from the ceiling, in token that what transpired at table, among friends, was to go no further.

This custom extended to other lands and into modern times; for in 1587 the hanging of roses over the tables in parlors and dining-rooms is spoken of as "a common country custom" in England. In the succeeding century the rose was a "make-believe one," painted on the ceiling; and some ingenious person suggests that the plaster ornament called "a rose," which doubtfully adorus the center of the modern ceiling, is a reminiscence of "the flower of silence" of Roman dining-half.

It is probably on account of its association with Harpocrates, the secret-keeper, that the rose has become one of the symbols of the Order of Free Masons; and we have a reminiscence of the suspended blossom above the feast-table, in the phrase "sub rose,"—"under the rose," or, "in confi-

In what is called "the classical period," roses seem to

have been required for every occasion, from birth to death, and to have made a part of every ceremony, public or private, joyous or somber. There were shops in Rome where nothing else was sold, and they were filled with fragrance and bloom every month of the year. The island of Rhodes obtained its name from the profusion of roses raised there, and most of them went to the Roman market.

Then there were the famous roses of Samos and Paestum, happy localities where the bushes flowered twice every year; and when the last autumn blossoms had faded, even in these sunny Mediterranean islands, ships came from Alexandria, laden with more roses, from countries nearer the equator. Many more of the favorite blossoms were raised at home, in the long Italian summers; and in the short, mild winters, roses were forced to bloom under cover, stimulated by hot water, which, it seems, was carried to them in pipes, much as it is in modern conservatories. In the time of Horace, just before our era, glass houses came into use. So Lucius was poor, indeed, if he could not buy Cornelia a rose for her hair, whatever the season.

Even in the comparatively simple days of the republic, revelers had their festive cups crowned with floating roses; and in the times of the empire, when Rome was pampering every sensuous appetite with the wealth of a vanquished world, the paths of her rich and noble citizens were literally strewn with roses. Gardeners and importers seem to have been wonderfully successful in keeping pace with the voracious demand for the flowers. In the reign of Domitian, the last of the Cesars, the Egyptians offered the emperor's court roses in winter, as a princely gift; but the Romans smiled at the offer. "In every street," says Martial, "the odor of spring is breathed, and garlands of fresh-blown flowers are hanging. Send us corn, Egyptians, and we will send you roses."

on gala days the states of gods and heroes, which adorned the streets of imperial Rome, were crowned with roses. The arches through which triumphing generals passed were adorned with the flowers, and wreaths of them were flung into the chariots. When Scipio came through the city in triumph, after the conquest of Carthage, the soldiers of the Eighth Legion, who had been the first to penetrate the enemy's camp, were ordered to carry bunches of roses in their hands, and thencefor ward every soldier of that troop had a rose graven on his shield.

The Roman bride wore a wreath of roses and myrtle beneath her purple veil. The guests at feasts had crowns of roses on their heads, and chains of them about their neeks. The making of these garlands, so much in demand, became a fine art; and though most of the Roman painters are forgotten, the name of Glycera of Lycium, a famous weaver of wreaths, has come down to us through a score of centuries. How must her artistic soul have been tried when she saw the blossoms and buds, so skillfully entwined by her deft fingers, surmounting the brows of a stout and elderly gentleman of biblious complexion;

Couleur de rose pervaded the classic feasts at which that stout gentleman was a guest. In Empire days the company at great dinners reclined upon pillows stuffed with roseleaves; more rose leaves and blossoms strewed the floor beneath them. When Antony was Cleopatra's guest she entertained him with daily feasts. On the last day, as a climax of hospitality, she gave him a feast of roses. The flowers, fresh and fragrant, covered the floor to the depth of eighteen inches, and a strong netting was stretched above them, so that people might walk on them without crushing them.

But even this entertainment was outdone by Nero's feast, at which he spent a sum equivalent to \$150,000 for roses,—a fine order for his nurseryman. They not only garlanded

the walls, wreathed the guests, filled the cushions, and covered the floor, but a rose-leaf pudding tempted the appetites of the revelers, while roses showered down on them from a hole in the ceiling.

Heliogabalus also invited some friends to dine under a rose-shower, but, through the malice pre-

pense of the host, or

the stupidity of his

servants,

success as to delight the critics. Heliogabalus bathed in a extract of roses, and he even had the public swimming baths filled with it. When a Roman noble entertaines Nero, perhaps in social return for an invitation to th \$150,000 dinner, the host went to enormous expense to have all his fountains flinging up rose-water.

To encourage digestion after these extravagant feasts the Romans drank a beverage made of roses. If, notwith standing, dyspepsia claimed them for its own, the doctor when he came, was wont to prescribe a rose-draught,—c classical example of the proverbial "hair of the dog tha bit him." If the patient died, his cold brow was en

circled with a crown though a Roman law

of roses, for forbade all or namental show at funerals, an

Digiti ed l'Doct

exception was made in favor of rose-garlands; and it is highly probable that his sorrowing relatives planted a memorial rose-tree on his grave.

In Oriental poetry the rose is mentioned again, and with it is associated the bulbul, or nightingale. The flower and the bird are lovers. She wakens at his voice, and all his melody is for her delight; and in her praise, Jami, the last great poet of Persia, says, "When the nightingales warble their enchanting notes, the veils of the rosebuds are rent." This may have suggested to Byron the pretty fancy in the "Glaour";

pretty fancy in the "Giaour":
"For there the rose, o'er crag and vale,

Sultana of the nightingale,
The maid for whom his melody,
His thousand songs are heard on high,
Blooms, blushing, to her lover's tale."

The flower was much loved by the Arabs, and a book on agriculture, written in the twelfth century, by Ewn el Awan, gives many directions as to its care. But in Europe, after the downfall of the Roman empire, the cultivation of the rose perished in the same grave with other refinements of ancient civilization.

When the power of papal Rome arose out of the rains of imperial Rome, the Fathers did not encourage the use of flowers for ecclesiastical or personal adornment, and the rose was

the shower became a storm: the flowers rained down so heavily that several persons were suffocated under their fragrant a bundance. This is the subject of a painting by the great colorist Alma-

Tadema. While the ar-

tist was at work his

daughters took turns in showering rose-leaves before him, that he might catch the effect of light shining through them as they fell. This he has done with such

"BARONESS ROTHSCHILD."
2. "CATHERINE MERMET."
3 AND 4. "GENERAL JACQUEMINOT."

rticularly out of favor, because it had been so closely neeted with pagan rites. The Benedictine monks were estanch and only ecclesiastical friends of the dethroned wer-queen, and wherever there was a cloister of this Order ere was a rose-garden near by. In the times of chivalry dthe Crusades, the flower seems to have been taken back to public favor. When the soldiers of the cross returned om the East, they brought with them roses hitherto known in western Europe, and some of these were anted and naturalized in France and Germany.

The beauty of these blushing immigrants seems to have ade a great impression upon the Troubadours, for in the Romaunt of the Rose," one of their most famous poems, e flower is given a lover. He does not even see the object his devotion, only her mirrored face in glassy water, yet burns and yearns and sighs for the rose till he gets it (at ie end of twenty thousand verses), only to discover that he bes not care for it, after all.

Knights in the Middle Ages were a rose embroidered on heir sleeves, in token that gentleness should accompany burage, and that beauty was the reward of valor.

Surage, and that ocality was the reward of valor.

The flower plays an important part in heraldry; and it is he national blossom of England, probably because it has een for five centuries the badge of

he reigning family. Once there vere two families, both

hield. The trouble began

a the time of Henry VI., a

nd, by the rights of primo-

" ULRICH BRUNER."

2. "GLOIRE DE PARIS."

nan of good heart, weak

vill, and feeble in-

ellect. His distant

ousin, the Duke

of York, claimed o be true heir to the crown.

esiring to reign,

nd both hav-

ng the rose

mblazoned

n their

eraldic

claim was just, as the king was descended from the fourth son of Edward III., while the duke traced his ancestry back to the third son of that monarch. The duke was powerful, bold, and popular, and in 1454, on occasion of the king's dim mind being altogether cellipsed, he got himself appointed Protector of England. When the king recovered, the duke declined to give up his power, and levied an army to support his claim. Then was fought the first battle of a dreauful civil war which embroided England for thirty years. The badge of the House of Lancaster, to which Henry VI. belonged, was a red rose; while on the escutcheon of the House of York, a white rose was blazoned; and, like the lion and the unicorn, the roses "fought for the crown."

Out of that cruel War of the Roses, which cost so many lives, there has come to us a dainty verse, like a flower growing out of the grim walls of a fortress. It expresses the admiration, perhaps the love, of a forgotten gallant for a forgotten lady. The attachment was a Montagu-and-Capulet affair, for he was a Yorkist, and her family sympathized with the House of Lancaster; so he sent her a white rose with these verses:

"If this fair rose offend thy sight,
Placed in thy bosom fair
"Iwill blush to find itsell less white,
And turn Lancastrian there.
But if thy ruly lip it spy,
As kiss it thon mayst deign,
With envy pale 'twill less its dye,
And Yorkist turn again."
Meantime the relatives of these young

people kept on fighting. Now one side was successful, and now the other, and the white rose triumphed so long that there were three Yorkist kings.

On Besworth Field, in 1485, the roses had

their last fight, and the red rose won. When twilight fell on the

day of the battle. Richard III., the last Yorkist king. lay dead on the trampled and blood-stained ground, under a neap of slain. Then they set his crown upon the head of the Lancastrian heir, Henry Tudor, Earl of Richmond, who became King Henry VII. Henry married the niece of dead King Richard, beautiful Elizabeth of York, and it is more than rumored that he was not very kind to her. After the wedding he blended the white rose and the red one into what is called the "Tudor rose." In the wonderful chapel of Henry VII., at Westminster, this Tudor rose is everywhere, -in relief



oundantly under their

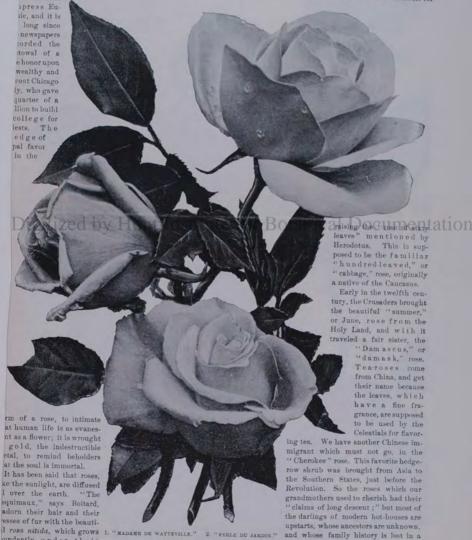
istantial purse of five hundred francs. The honors were towed upon her by the Lady Mayoress, and before all her sfolk and acquaintance, in the village church, at Whit-

The fourth Sunday in Lent is known in Rome as "Rose aday." On this day the pope consecrates a rose of gold, ich is sent either to a church, to a crowned head, or to ne person who has rendered Catholicism an important vice. The first golden rove was given to Queen Jeanne, Sicily, in the year 1366. In more recent times one was

stunted shrubs." In Iceland, where vegetation is at times so scarce that the natives are compelled to feed their horses and sheep on dried fish, we find rosa rubiginosa, with pale. cup-shaped flowers; and natives of Lapland, seeking mosses for their reindeer, find the pretty fragrant May-rose, which enlivens the bleak northern regions of Europe, blooming almost underneath the snow.

All northern roses have five petals; but those which grow in the warm sunshine of southern lands "double" of their own accord. So the ancients do not deserve much credit for

labyrinth of confusion. We have now



3. THE "BRIDE."

about three thousand sorts, shading into one another so that the most expert florist can scarcely disentangle them. Next year there will be more, for new varieties come into the market every season.

Sometimes these strangers surprise the florist himself by appearing as "sports." A plant sends up a shoot, which, as it grows and blossoms, develops individual peculiarities. The first "moss" rose branched out from a Provence rose-bush, in this unexpected manner. The lovely white "Bride" rose made its first appearance as an offshoot of "Catherine Mermet;" and fashion's favorite, the "Duchess of Albany," is a "sport" from "La France." The snowy "Niphetos" blooms used to grow only upon dwarf bushes of compact build; but one of the plants, fired with ambition, threw out a branch which grew like the bean stalk of fairy lore. Slips taken from it retained the same aspiring habits, so that the "climbing Niphetos" will sometimes grow twenty feet in a season.

"Sports" may change either the habit of growth or the color of the flower. They are constantly being produced, but there is much uncertainty as to the future behavior of the varieties which make their début after this fashion, "You can never be sure," says an experienced rose-culturist, "that they will not hark back again." Even the moss rose, which has been in cultivation for three hundred years, now and then reverts to the habits of its ancestress the Provence rose, and sends out a cluster of flowers unprovided with the green lace mantle which they are wont to wear.

When bushes grow close together, pollen is carried from flower to flower by insects, and thus natural crossing takes place; so by simply sowing the seeds of one fine variety, like the "General Jacqueminot," it has been possible to produce many distinct kinds of great value. Insects must have carried the pollen of some unknown rose to the bistilis have carried the pollen of some unknown rose to the bistilings, when it burst into bloom, proved to be a beautiful stranger, the "Ulrich Bruner" rose, with deep carmine petals. The "American Beauty," that darling of fashion, did not even give any one the trouble of sowing her. She came up of her own accord, from seed which sowed itself in the rose-garden of Mr. Bancrott, the historian, at Washington. Fortune and the bees seldom work such pleasant miracles as this.

Artificial crossing is mainly relied on nowadays for new roses. A bud of some favorite sort is selected to be a parent of the new species, and, as soon as it blows, its stamens are ent away to prevent it from forming seed with its own pollen. Then pollen from another choice variety is carefully conveyed to its pistils with a fine camels'-hair brush, and the mutilated flower is covered with gauze to prevent the interference of insects. The seed which is the result of the union is saved and sown, and developments are awaited.

Many of the seedlings die, as they are delicate and subject to mildew. Many more, by a strange law well known to naturalists, are single roses, like their remote ancestors in the garden of Eden. Some prove mere repetitions of established favorites; and even if there be a new rose among them all, there may be no reason why we should admire or desire it. So the business of "manual hybridizing," as it is called, is fraught with uncertainty. Moreover, it is very expensive. The delicate little hybrids must have warmth, care, and greenhouse room, which means outlay for fuel, wages, and rent.—and four-fifths of them "up and die," after all. Uncle Sam's practical nephews generally prefer to raise the old favorites, which are sure to bring the florist a return for his time, pains, and capital.

The climate of Uncle Sam's domains is almost too dry for roses, which cannot be grown very successfully except in the seaboard States. New roses are generally raised in England or in France. They are introduced, or condemned, as they may deserve, after the propagated plants have blos somed from cuttings. One can never rely upon the behavio of a seedling.

Yet, despite the difficulties besetting the rose-grower, so many new varieties have been introduced within forty year: that our grandmothers' roses have been almost improved of the face of the earth. We will find them only in old-fash ioned gardens, in rural spots where times and fashions change slowly. Where, for instance, are the once admired "York and Lancaster" roses, streaked with white and car mine? Most of grandmothers' roses had two or three rows of petals, and within them a broad ring of delicate golder stamens. Then "double" flowers came into vogue, and the gardeners aimed to produce an immense mass of petals no matter how crowded or how shapeless. Now they are turning their attention to the production of "artistic" roses with fewer petals, but with delicacy of texture, grace of form, and richness of tint. "Catherine Mermet" is admired for the exquisite outline of its buds; and the "American Beauty" for its size, its stiff, long stems, and the shapeliness of its thorns. Many of the new roses are described in the horticultural catalogues as "Hybrid Teas," that is to say, they had an old-fashioned tea-rose for their greatgrandmother, and these please by the peculiar tea-rose fragrance, which is like nothing else in the floral world,

The French are the most successful rose-growers, and hence many of fashion's favorites have French names. The name of a new rose is generally the choice of the florist who introduces it. He may wish to compliment a member of his own family, or some person who is at the time prominently before the public,—a painter, an actor, a general, a politician, a professor, or a famous beauty. Sometimes the blessom's name commemorates a public event occurring at the line of its first appearance.

"Madame Cusin" is just now the favorite rose for bouquets and is largely used for dinner and tea-table decorations and is so greatly admired that florists find it difficult to supply the demand. The flowers shade from white to shell pink, with deeper shadings of rose pink on the edge and in rays down the petals. These roses keep fresh for a long time after they are cut.

"La France" is one of the sweetest and loveliest of the tea-roses, and is a prime favorite for decorations of all kinds. Its blossoms are large and graceful, and the backward-enrying petals are rich pink with a peculiar silvery luster. It was raised by a well-known French rose-grower, from the seed of a tea-rose.

"Papa Gontier" is a deep red rose, much admired for the graceful form of its pointed buds, which are very popular for consage bouquets. It is said that these bads will grow if placed in water in a dark room.

The glowing "Jacques" are old favorites, too well known to need description. Their rich color is repeated in the "Ulrich Bruner" rose, but the petals of the newcomer have not the rich, velvety bloom which beautifies those of the "Jacqueminot." The "Ulrich Bruner" has a stiff stem, and lends itself readily to the present fashion of using very long-stalked flowers for decoration; and the "Perle duJardin" has ingratiated itself with the "four hundred" by a like ability to hold up its head in all companies. Its sturdy stalks uphold great canary-colored flowers, which would be more appropriately called the "topazes," than the "pearls," of the garden. The petals are prettily curied at the edges, and from among them comes the "tea-rose" fragrance which is at once so delicate and so characteristic

The flowers of the "Catherine Mermet" rose are shell pink in color, shading from a "tea" tint at the bottom of

he petals, which have the silvery luster and the backward surl so admired in " La France."

The pink, cup-shaped blossoms of the "Baroness Rothshild" are prized for their symmetry of form and beautiful oliage. They have but little fragrance. The "Gloire de Paris" is another choice pink rose, deeper in tint than the "Baroness Rothschild." The favorite white rose in the pring is the "Mabel Morrison," a "sport" from the "Baroness Rothschild."

The most popular variety for decoration is the "American Beauty." It is a lovely rosy red, its buds have the taper form which is considered so highly desirable, and the stems are very stiff and long, sometimes measuring four feet. But among all fashion's favorites none is dearer than the rose called "Madame de Watteville." Its cream-white

heard, soulless exotics, without history or traditions. But are not roses, like the angels' robes, too blessed and too dear to be subject to the caprices of the fickle goddess? They have been so long bound up with the memories of the race, they have been loved by so many generations, and they have bloomed in every cottage garden, gladdening the hearts of the poor. They were hymned by the first poets, the writers of the Vedas, who sang like birds in the morning twilight of the world; and so faithful are the poets to their first love, that the most modern and daintiest of rhymesters, Austin Dobson, has chosen the rose for the theme of the charming verses with which I close:



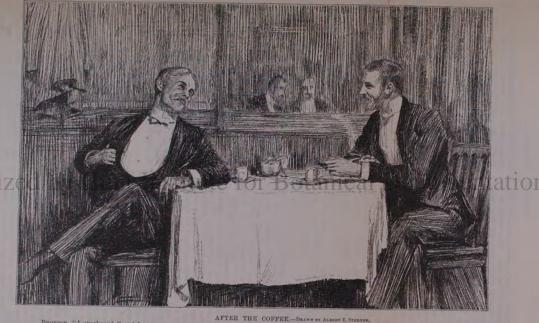
petals curl gracefully backward, and their edges look as if a painter's brush had splashed them with deep pink. The blossoms are very fragrant, they have the popular long, strong stems, and they last a long time after being cut.

Having produced flowers so excellent in all points, florists might rest content; but still they are unsatisfied. Prominent growers are now asking for a yellow rose of the size and form of the "Bride," and whoever succeeds in raising it may fill his purse and set the floral fashion.

But does not one rather resent the idea of a fashion in roses? It is fitting that there should be a fashion in orchids: they are upstarts, of which our grandmothers never

- "The Rose in the garden slipped her bud, And she laughed, in the pride of her youthful blood, As she thought of the gardener standing by,— 'He is old,—so old,—and he soon must die.'
- "The full Rose waxed in the warm June air,
 And she spread and spread till her breast lay bare,
 And she laughed once more as she heard his tread,—
 'He is older now; he will soon be dead.'
- "But the breeze in the morning blew, and found That the leaves of the blown rose strewed the ground; And he came at noon, the gardener old, And he raked them softly under the mold. And I wove the thing to a random rhyme,— For the rose is Beauty; the gardener, Time."

E. M. HARDINGE.



BRONSON, "I overheard Count Impecune proposing to Allee last night. He said, 'Mees Hendterson, I hear you had a big heart. Ees eet larch and chencrous enough to accommodate one so unworthy as myself?"

WITHERS. "And what did Alice say?" Bronson. "She asked him bow much he wanted."

Another suborder of the Rose Family is the Pear Suborder, disting guished by the fruit which is a prome, as the apple. Ever 200 species of this suboder are known The most valuable are the Hylle and lear ; other cultivated puits are the Crab-apples the bruince, and in the dd world the Sort, the Medlar and the Service berry. Among those valued for beauty are the Rowan-tree and Mountain Ash, the Shad-bush, the Hawthon. Those found growing in the VisNect are 10 in number 2 kinds of Shadtush, 5 of Thompey and 3 of Choheberry and Crab-apple, The remaining saborder is the hose Family Proper. Among its esetal hants we the Shandown Blackbudy, Down keting thought sery, Dimblesery, and many medicinal plants. among common wild plants here, belonging to this suborder, the tive-jupey the Avens, and the Indian Mysic or alleria. There are 6 species of hose growing here native or introduced, of which the Swamp hose and the I now hose are the principal. Iron 18 or 20 species of hose from and e and Asia are in cultivation, in endless varieties, Among the principal cultivated species we the Monthly Rose, the Jea Rose (including the Marchael Rich and the Niphotos) and the Hybrid Roses (including the Jacqueninos, La Trance) the Hundred leaved hose, the Dog-rose (atomdant in the English gardens and heageness; and found here on High Island) the Moss-rose: the Clinding Roses (as the Baltimore Belle, the Prairie Queen the Clambing Hermota Xc), The largest rose in cultivation is the new Highled Rose called Hermajorhy hinde before toraid the centre and 5 inches too

Brian, Ellac, 30,29 Base, Blind 535 6, 598-600

the Horticultural Society Lends Its influence to a New Candidate for Pub-

At a meeting of the Horticultural society Wed-nesday night, Mr. T. W. Fowler called attention a statement in THE STAR of Monday last that crocusses were in bloom in the gardens, and asked if the members knew of any bloom

surked If such were the case his ground must be suited 2000, hat before tribules subspected inspected inspected

Mr. Flelds brought in a basket of roses of the

ided that each member should for

Saul and Clark and Mrs. Quinn each west unculenced; wase with oach gene by ver Contemple inflowers of pute unswhele answord that they had some. Mr. Fowler re-

pocies called the "American Beauty," acquireless of 10000 for the administry a rome with g this was the third crop this winter, that reases of rose leaves for he feel frank in Egypt are cited,

One of the most remarkable new roses of 1865 vies the American Beauty", which is supposed to be a recedling of originally produced by the hostorian, Mr. Geo. Bancely +, in the city of Washington.

Arrang the oldest of the species of Rose in common cultivation intractica are the Damaster the Cimamon, the blush and Cathoge Roses The last; and the Mush rose are among the most programs. Of recent varieties, the American Beauty is remarkable for to programme, Many cultivated roses like the Jacquement, are ready or quite what paper. The owner to the rose is remarkable for the afrecable paparace of its leave especially prescribible street a former.

In raising from seed, it requires a year to repetate, and flowers are not usually hooduced with the fourth ourmer. This method is valuable chiefly for the production of new varieties. Budding is valuable in raising the more delicate precurhouse varieties; but the plants so from lack durability. Buds of any or all varieties can be inserted on the stock of a strong stemmed species. The application to roses is a modern invention, introduce from Hilandino kini, and thence into Bottain about 1700.

hose have been bonindered the chief of flowers from the carliest these, and by all civilized nations. They vary from white yellow, variefuted, pint, purple to scalet and crimson

The pregrame of the Rose has been long used as the highest type of the programmes there the somptiment, as sweet as a Rose; or their but onfold, Switche up the orders of the rose has sweetness held.

for Botanical Documentation

Le guminous Plants.

a leharacteristics

Beguninous plants are recognized at once if you have the fruit, by its being a legume, i.e. a had being by both suture tocasing two long for an asless or the leguments toward toward long for an asless pictil Justiminous plants are to be recognized when in Hower, by papilionaceous corollar of 5 petals the banner, 2 whys & 2 forming a Segummons plants are also peculiar in foliage; their leaves are, almost always compound, with entire leaflets; they are alternate, and have stipules.

Leguerinous plants are also peculiar in their Hamens, which we alinen always Siade Mars or united in a column of traited stayed From the obvious watere of these characteristics, a plance

at any plant of the fainly will usually serve to show that it is of this family; but to distinguish manbers of the family from each other regions b. Related Families

The Polygolacese or Milhurst family has flowers which sometimes resemble at friest glance he papilinaceous form, and has, frequently, diadelphons Hamens. - The latter however are 4 to 8. never 10, the petals are tret 3, and the pod is 2 celled. Examples are the various Polygalas, as the Sourca Snalle not a tringed Winterfreen.

The Rose Familian is also closely related from the Appendix of the Rose than a superior of the Rose than a superio

PULSE the Bug generic or vather ordinal name; Sheat delines as "grain or seed of bears pease, sc. " ; to. M.S. puls, "All maner puls is grade, the fitche ristable", ie. evikin of vulse is good excethe vetchy Palladius on Hackandry, b. i. 1,723} Late puls 12 thick yay or pottage made of meal pulse acretic primitive tool of the Romans betthey became acque or bread (Orbite). CE Colletters made particles [Overlook tokes it to be that pull, bush, a supposed word, supposed of our pull, bush, a supposed word, supposed of pull privates of outs, tridonical standary

Legensia va Dictoita, sa lig, p 546 ; stone & Equinoted 2 ne 1602, beyons, 321 N

for Botanical Documentation

PULKGALA vulgaries type of glands cys as P, gover over most of thus; to broky milk it surses, Gornor, of cattle, my most & be hormariers! some the low obs, sod in milling Jules at the worth, "Com a DILL KINTER & of of sei? or opp. Had velge assessed Africa beamles exchally gled it also and the homes; the 3d bet Bacter funday are AC me did Regarin Lays, a mocked by jublic religious economics. Was lover and Filkhore, only in your sussentitude de brences at it was awied , & hour its is ACarrier Fill. Sogarios de, coars in Exercise whey red it also set for technique cook, con MODICE & MO 24 PASSIONS FROMER.

P. Luten In had by Mechan; Veller Backelor's Button of the So 14 MJ-Flag co to Arch,

c. Importance.

The Leguminous Family included in 1845, 6500 species; is everywhere distributed; produces important food and timber products, also dypostriffs & important medicines & pams; and is an order conspicuous for says lindley, for his beauty, containing some of the gayest orload and most fraceful plants of every region."

Le Species of importances

Among the wholesome plants of the order are, let, those valued for their feeds, known educatively as Pulse, including he hed and Beary spectrum with the insulation and sea his samulation which got in the bodies feed through Leville, Pigeon-free, Howevery Beary Kidney beary Alphon, 2d, those values for these there regulating todays, as Charge Wednowsharender 3d those of politable residently , cutter as physatires , as Senna and the Stotch Brown, or as tonics, askingents. Ath, those valuable for dyes, as hiding, from the East Indies, Wild Indigo, from ou am country, used by the Indians, Feb, those valuable for fums, ann Tragacanth being produced from various plants of the Me diteraneau region of this family i Gum batic and low Sensit A trail for the countries where moduced to court free leaburning 6th, those valuable for thurber as the hocust free leaburning wood (green); and Rosewood from Brazilia Braziliurod: and some of Ma Greacise. 7th, among those valuable for beauty of their formers are the various Somet Vea, Evelating Rea, the various Vet chas, locust, Rose Acacia, Scarlet Learn Cassia, or uge and boom in Soft, The Acacias and Mimosas are remarket for beauty of their himse leant, which in one of them, the busitive plans and in others

of the tanning also, shrinks at the truck. I the largest tree of the it. American process on of

this transfer, some Brazilian species of Locustotress being reported 84° iron and 2770 years of the

is in giving a preference to "listed" securities. Many persons seem to think stocks and bonds must have a value if they are quoted at some stock exchange. On the contrary, such a position is likely to expose them to manipulation for purely speculative purposes. Stock-exchange quotations, as a rule, are unsafe guides to buyers. Every security must stand on its own merits, and purchasers have merely to follow business principles as taught by the canons of common sense.

CONCERNING CLOVER.

By GRANT ALLEN.

EVERY group of organisms, every genus and every species of plant or animal, has certain strong points which enable it to hold its own in the struggle for existence against its competitors of every kind. Most groups have also their weak points, which lay them open to attack or extinction at the hands of their various enemies. And these weak points are exactly the ones which give rise most of all to further modifications. A species may be regarded in its normal state as an equilibrium between structure and environing conditions. But the equilibrium is never quite complete; and the points of incompleteness are just those where natural selection has a fair chance of establishing still higher equilibrations. These are somewhat abstract statements in their naked form: let us see how far definiteness and concreteness can be given to them by applying them in detail to the case of a familiar group of agricultural plants—the clovers.

To most people clover is the name of a single thing, or, at most, of two things, purple clover and Dutch clover; but to the botanist it is the name of a vast group of little flowering plants, all closely resembling one another in their main essentials, yet all differing infinitely from one another in two or three strongly marked peculiarities of minor importance, which nevertheless give them great distinctness of habit and appearance. In England alone we have no less than twentyone recognized species of clover, of which at least seventeen are really distinguished among themselves by true and unmistakable differences, though the other four appear to me to be mere botanist's species, of no genuine structural value. If we were to take in the whole world, instead of England alone, the number of clovers must be increased to several hundreds. The question for our present consideration, then, is twofold: first, what gives the clovers, as a class, their great success in the struggle for existence, as evidenced by their numerous species and individuals; and, secondly, what has caused them to break up into so large a number of closely allied but divergent groups, each possessing

some special peculiarity of its own, which has insured for it an advantage in certain situations over all its nearest congeners?

Clover is, of course, by family, a pea-flower, one of the great group of the Papilionacea, a tribe of the vast leguminous race. Now, everybody knows the general appearance of the pea-blossom, a form of flower which reappears throughout the whole group, in such different plants as gorse, laburnum, peas, beans, vetches, wistaria, lupine, and acacia; and it is clearly this form of flower which gave the original ancestor of the papilionaceous plants its main advantage in the struggle for existence over almost all its compeers. In other respects, the various members of the pea-flower tribe differ widely from one another. Some of them are tall, woody trees, like the laburnum; some are bushy shrubs, like the broom; some are low, creeping herbs, like the clover; and some are lithe, trailing climbers, like the pea and the scarlet-runner. So again with their foliage: some have hard, spiky leaves, like furze; some have regular trefoils, like medic; some have long sprays of many leaflets, like the sainfoin; and some have clinging tendrils, like the peas and vetches. Once more, in the pod and seed there are infinite varieties of shape, size, and arrangement, as one may see by comparing peas with horse-beans, or the short, hairy pod of gorse with the long, smooth capsule of the vetch, the inflated globe of the bladder senna, and the twisted, snail-like spiral of the medic. In fact, there is hardly a single particular in which the papilionaceous plants do not differ from one another immensely, except only their peculiar flower. Clearly, then, it is the flower almost alone which has given them their fair start in the struggle for life. I say almost-not quite-alone, because, as we shall see hereafter, they owe much also to their relatively large and richly stored seeds. In this one point they early reached a state of equilibrium; in other points, they went on varying and adapting themselves to an infinite variety of external circumstances.

Though it is not my intention to deal at any length here with any of the papilionaceous tribe except the clovers, a few words must first be premised about this peculiar and successful type of flower. It consists, like most other blossoms of the dicotyledonous race, of five petals, inclosing ten stamens, and with a single ovary, or embryo pod, in its very center. But anybody who has ever looked at a pea-blossom knows very well that it is not regular and radially symmetrical like a dog-rose; it has its parts bilaterally arranged, so that an insect lighting upon the flower in search of honey necessarily brushes his breast against the stamens and pistil, and therefore cross-fertilizes the embryo pods by carrying pollen from one blossom to the sensitive surface of the next. The five petals have undergone special modification so as to suit this special mode of impregnation. The upper petal, known as the standard, is usually broad and expanded, serving as an advertisement to attract insects; and in many advanced species it is

variegated with convergent lines of different colors, which guide the bee toward the exact spot where the nectaries are engaged in elaborating honey for his benefit. The two next in order, called the wings, are generally shorter and smaller, and in most advanced types they possess two little indentations, one on each side, specially adapted to afford a foothold for the legs of the visiting bee, in the exact position that will enable him at once to reach the honey and to brush off the pollen against the sensitive surface. The two lowest petals of all are usually united by their under edge, so as to form a single organ, known as the keel, and closely inclosing the stamens and pistil. As a rule, too, all ten stamens are united into a single tube or sheath; or else the nine lower ones are so united, while the upper one is free. In spite of the general uniformity of floral type, however, many special modes of insect fertilization prevail among the various pea-flowers. Sometimes the blossom bursts open elastically when the bee lights upon it, dusting him all over with the ripe pollen; sometimes a small quantity is pumped out from the sharpened point of the keel by the weight of the insect's body; sometimes the pollen is deposited from his breast on the spirally curled summit of the pistil; sometimes it is swept off by a little brush of bairs, situated close beside the sensitive surface of the embryo pod. All that it is here necessary to bear in mind, however, is the general fact that the papilionaceous type of UMENTATION flower has gained its present high position as a dominant floral pattern. by its beautiful and varied adaptation to insect fertilization.

Such being the general nature of the pea-flowers as a whole, we have next to inquire what are the special peculiarities which have enabled the clovers in particular to fill their peculiar niche in the existing economy of Nature. Clearly, the positions which clovers are adapted to adorn are not the high places in the hierarchy of vegetal life. They are not tall forest-trees or bushy shrubs; they are not long, creeping trailers or climbers; they are herbs of low and procumbent character, best fitted for filling up the interspaces of taller vegetation, and for vying with the grasses as elements of the close, tender, delicate greensward. The points which have enabled them to survive, therefore, are just those which allow a plant to thrive under such special conditions; and we must ask briefly what those points may be before we proceed to consider the specific characteristics of the various individual clovers.

In foliage the clovers are distinguished by their graceful trefoil leaves which are an adaptation of the typical papilionaceous pattern to the special necessities of their humble situation. For the common form of pea-leaf consists of a long leaf-stalk, with one terminal leaflet, and with several pairs of lateral leaflets, arranged opposite each other along a central line. In the clovers, however, and in most other small field forms of papilionaceous plants, only one pair of lateral leaflets is developed; and this arrangement allows the leaf-stalk to be elevated

among the surrounding grasses in such a way as to get freely at the sun and air, which are necessary for the nutrition of the plant. But the chief peculiarity of the clovers is the arrangement of their flowers in dense heads. Instead of the blossoms growing separately or in pairs, as with most peas and vetches, or in long, loose bunches, as with laburnum and sainfoin, the flowers of the clovers, much reduced in size, are crowded into compact little bundles, for the most part at the end of a long stalk. What we ordinarily call the flower of a purple clover is, in fact, such a head of clustered flowers. This dense clustering of the flowers makes them, though individually small, very conspicuous in the mass to bees and other insects, and so largely increases their chance of cross-fertilization. For the same purpose they usually secrete abundant honey, and they possess in many cases the familiar fragrant clover perfume. Moreover, in most though not in all species the bases of the five petals have grown together into a narrow tube, inclosing the honey; and in the common purple clover this tube is so deep that no British insect except the humble-bee has a proboscis long enough to reach the nectaries. Such peculiarities are quite sufficient to give the clovers an immense advantage in the struggle for existence; and it is not surprising that they should have become exceptionally numerous in species and individuals, even among the richly endowed and dominant papilionaceous family.

Every race, however, has its weak as well as its strong points; and the weak point of the highly successful clovers lies in the unprotected position of their seeds and pods. Hence, in accordance with the general principles above laid down, it is in these particulars that we might expect to find the various species differ most from one another, since this is just the part on which natural selection of favorable varieties is most likely to be exerted. As in the papilionaceous family as a whole, the flower is the organ which remains almost identical throughout, because it is the organ which gives the family its true importance; so in the restricted clover group the trefoil leaflets and the clustered heads of flowers remain almost identical throughout, and for the like reason. But in any classification of the various species of clover, it will be seen by anybody who looks into the matter that all the distinctive characters are drawn from differences in the pod and ealyx after flowering, because this is the weak point of the genus, and the one in which alone diversities of habit have been likely to arise and to be perpetuated by survival of the fittest. The other organs have long since reached their equilibrium; these organs alone remain in need of further equilibration.

And why is the pod a weak point? For this reason. The seeds of clover, though small, are very richly stored with starches and other food-stuffs for the growth of the young plant. Such richness is, of course, in itself an advantage to the race, because it allows the seedlings to start well equipped on the path of life, with some accumulated

capital handed on to them by the mother-plant. But what will feed a seedling will feed an animal as well; and it is just these rich little beans in the clover-pod which give it all its dangerous value as a fodder for cattle. Hence, in the wild state those clovers which have their seeds least protected are most likely to be eaten off and killed down by birds or animals, while those which have them most protected are most likely to survive and become the parents of future generations. Here, then, we have the basis upon which natural selection can act in differentiating the primitive ancestral clover into various divergent species. Whatever accidental variation happens to give any particular clover protection for its seeds in any special habitat will certainly be preserved and increased, while all opposite variations will be cut off and demolished at once. So far as their foliage and their flowers are concerned, the clovers as a body are practically in a state of stable equilibrium; so far as their fruit and seeds are concerned, they are still undergoing modification by natural selection.

Clearly to illustrate this fundamental point, let us first look at some neighboring and closely allied plants, which are not exactly clovers, but which resemble them in almost all important particulars. These also show the same devices for specially protecting their seeds and pods from birds or animals. Take, for example, the genus of the medics. These are mostly small greensward plants, with trefoil leaflets like the clovers, but with the flowers in rather tall, one-sided spikes or loose bunches. Their pods are usually long and many-seeded, but they have this curious peculiarity, that instead of growing straight like that of a pea or bean, they coil up spirally like a snail-shell. When ripe they fall off the plant entire, and thus defeat the hopes of birds and other creatures which wait patiently for the opening of the pods. The simpler medics, such as the agricultural lucern, have smooth, spiral pods alone, and therefore they can be employed successfully as fodder for cattle. But this, which proves an advantage from the point of view of the farmer, is naturally a disadvantage from the point of view of the plant in a wild state, because it insures the seeds being eaten; and hence the more developed and weedy medies have acquired stout protective prickles, fringing their globular spirals, and making them very distasteful morsels to cows or horses. We have two such prickly medics in England, one closely coiled and rolled round like a ball, and thickly set with curved hooks; the other loose like a corkscrew, with two rows of sharp bristles at the adjacent edges; and both these, as I learn from farmers, are extremely objectionable weeds in meadows, rendering the hay almost uneatable. Indeed, I am assured that cattle will never touch even fresh meadow-grass containing them except when absolutely driven by hunger. It is noteworthy that our two doubtfully native smooth medics (lucern and nonesuch) both grow naturally in rough, dry places, and are only largely found as "artificial grasses"-that is to say, were introduced and maintained

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by human agency; while our two more truly wild species are meadow and pasture weeds, and are therefore amply protected by prickles against herbivorous animals. Again, bird's-foot trefoil, whose pretty yellow flowers form such ornaments to our sunny banks in summer, has a long, hard, dry pod, too stringy to be edible, and filled with pith between the beans; while lady's-fingers, a somewhat similar type, has an inflated hairy calyx completely inclosing the short pod in its protective and inedible capsule. Strangest of all, however, is the small, matted bird's-foot, whose pod never opens to shed the seeds, but divides between them into little joints or "articles," each inclosing a single bean, and so cheating the expectant birds of their promised food. These examples, which might be multiplied indefinitely, will sufficiently serve to show the importance of protection for the seeds as a basis of differentiation among the papilionaceous flowers.

With the restricted tribe of clovers the need for such protection has almost alone produced all the species into which the genus has long since split up. Originally, of course, we must suppose that there existed one united type of ancestral clover, differing from the other papilionaceous plants in the points which now distinguish the whole clover genus, but possessing none of the special distinctive marks which specifically divide one kind of clover from another. This hypothetical ancestor had probably rather large, purplish flowers, collected in compact heads on a common foot-stalk, with the five petals separate, and with a small three or four-seeded pod completely inclosed within the faded brown petals. From some such form the existing clovers have sprung by differentiations almost entirely affecting the pods and seeds, though they have also varied a little in color, according to the individual tastes of their particular insect visitors, as well as in the degree of union effected between their petals. Without going beyond the limits of our own native clovers, we will look first at those types in which the arrangement of the pod is simplest, and then pass on gradually to those in which it is more and more complex, till we arrive at last at that most marvelous English species which actually buries its own pods entire in the ground by a wonderful series of apparently purposive movements and gyrations.

Our common English purple clover (for convenience' sake I adopt throughout Mr. Bentham's vernacular names) may be taken as a good specimen of the simpler and less-protected kinds. The mere fact that it is grown extensively for fodder shows that it has no deterrent prickles or bristles to ward off the attacks of herbivorous animals; and indeed, throughout the clover group, it may be noted that birds and insects, rather than large mammals, seem to be the enemies especially guarded against by the majority of plants. Purple clover is a perennial, with long, hairy stems, the hairs serving to prevent ants from creeping up to the blossoms and uselessly rifling the honey

intended to attract the fertilizing bees. The young flower-heads are also inclosed in two papery wings or stipules, which effectually protect them from injury before they open. The petals are united into a very long tube, accessible only (as before noted) to the humble-bee; and in New Zealand, where our European humble-bee is unknown, it has been found necessary to import several nestfuls, in order to make the acclimatized clover set its seed for agricultural purposes. But the devices for the protection of the pod are here comparatively slight. Each pod contains, as a rule, only a single seed, and it is externally guarded simply by the wire-like calyx-teeth, which are long, thin, and awl-shaped, and fringed on either side by a row of thick-set hairs. The two lowest are longer than the others, apparently as a protection against crawling insects. After flowering, the petals remain upon the heads, turn brown, and inclose the ripening pod. These brown heads of overblown flowers have such a dead, withered appearance that they cem sufficiently to deceive all intending depredators. As a whole, the species seems to survive mainly because of its protected young flower-heads, its special attractions for fertilization, and its habit of inclosing the pods in the dry petal-tube. It should be noticed, however, that, though artificially propagated in meadows and pastures, it would not probably be a very successful plant if left entirely to its own devices. Man has intervened to give it his powerful aid by sow ing its seed, and by fencing it off from cattle, so that it has now become, in spite of itself, one of our most abundant and ubiquitous clovers.

Next in order we may take a series of small, wild, purplish clovers, closely allied to this cultivated type, but more specially adapted for protection against animal foes. Of these the little knotted clover, which grows in our dry pastures and banks, is an excellent simple example. It is a small, tufted annual, often growing in very closely cropped, sheep-eaten crofts, and therefore with an acquired habit of creeping close to the ground, and spreading its foliage flat against the earth. Its calyx-teeth are short and almost prickly, and its little knotted heads grow so close in the angles of the leaves that even a sheep has hard work to bite them off with his nipping front teeth. The rough clover is another of these dwarf creepers, much like knotted clover in general appearance, but even more prostrate, and with its flower-heads still more closely wrapped up in the angles of the leaves, whose wings or stipules almost completely inclose them. The greatest difference, however, resides in the calyx, whose teeth here, after flowering, become broader and stiffer, curve backward, and give the whole plant a stringy, dry, innutritious look. This species or variety also grows mostly on sheep-bitten banks, and manages wonderfully to set its seed in spite of the manifold dangers to which it is exposed. Boccone's clover, confined in Britain to the Lizard Promontory in Cornwall, is a larger southern form of the same central type, closely

allied to the knotted clover. It grows much taller, but has an equally forbidding type of pods; and I notice in Southern France, where it is very abundant, that the dry stalks and oblong heads of fruit are always left uncropped on bare banks and road-sides where goats and sheep have been browsing—a fact which clearly shows that even those omnivorous grazers consider it an unpalatable morsel.

To the same group, I think, but in a more developed degree, belong three or four other British species, whose protections are somewhat less easy to understand. Of these, clustered clover appears like a still higher type of rough clover. It is a slender, creeping annual. with very small, globular flower-heads, almost buried in the angles of the stem and leaves; and it has short, broad calyx-teeth, rigidly curved backward after flowering, and with hard, sharp points. This, I take it, is a protection against browsing animals. The sea clover, on the other hand, seems rather to guard against birds or insects. In the flowering state, it looks almost exactly like a small purple clover: but as the seeds ripen it assumes a very different aspect. First of all, the calyx-teeth grow out into rather broad green leaves, so that the whole head looks more like a mass of foliage than a bunch of ripening fruit. The lower tooth, especially, becomes very long and leaf-like : and it may be remarked that, as a rule, the two lower teeth in clovers differ more or less conspicuously from the upper ones, pointing apparently to some special danger of attack from below. As the pod slowly ripens, two lips grow out on either side of the calyx, and finally meet on the top of the pod, so as to hermetically seal it, leaving only a tightly closed aperture in the very middle. Thus the calyx has, as it were, a false bottom, appearing to be empty when it is not really so, and by this means deceiving would-be intruders. It must be noticed, however, that such a deceptive device would be useless against a herbivorous animal, which could crop off the entire head; it would only serve against birds or insects, which might pick out the seeds one by one. That it does effectually protect the tiny beans is certain, for in no case will you find a calyx without a pod inside it. At the same time, so thoroughly has the calyx with its outgrowth of lips usurped the place of the primitive pod-covering that the real pod is reduced to a mere papery envelope, and can only be detected as inclosing the seed by a somewhat careful dissection. In this sea clover, too, the entire head, when ripe and dry, has a very forbidding aspect, the mass looking decidedly prickly and stringy, like a teazle; and I observe that it generally remains uncropped until the calyx and seeds fall of themselves, especially in Southern Europe, where it grows very tall. Why it should be confined to the neighborhood of the sea and of a few tidal rivers, more especially to salt-marshes, it would be hard to say; probably the special danger against which it defends itself is one found only under these circumstances, in which case it would there alone have any advantage over its competitors. Indeed, it must not be supposed that all these questions are yet by any means finally solved. The sole object of the present paper is to point out the common principle running through the variations of the clover pattern, and to suggest such partial explanations of their causes as have yet occurred to a single observer.

Suffocated clover is another of the tiny creeping types, apparently protected for the most part against browsing quadrupeds. It is a wee tufted form, with minute flowers stuck close in small dense heads, as if gummed to the short stems, and very crowded along their course. We may regard it as the last effort of a very degraded race to keep up its existence in the most closely gnawed pastures, on sand or gravel, where only very dwarfed and scrubby plants can escape destruction. The reader will notice that under such circumstances two types of clover succeed, each in its own way. If the heads become very small, close, and inconspicuous, or tightly pressed against the wiry trailing stems, they escape the observation of browsing animals. If, on the other hand, though tall and noticeable, they develop prickly or stiffened teeth, they are rejected as unfit for food by the creatures which devour the surrounding herbage.

Reversed clover takes its name from a peculiarity which seems to be connected with its mode of fertilization, for it has its standard petal turned outward, instead of inward as in all other clovers. The meaning and object of this change I do not know; but its most marked feature is still one bearing upon preservation of the seed, for, after flowering, the upper part of the calyx becomes much inflated, and is traversed by large membranous veins. At the same time it arches over the lower half, leaving three small teeth below, and two swollen ones at the top, so as to form a sort of bladder-like capsule over the concealed pod. In this case, again, the protection is obviously designed against birds or insects. In the curious strawberry clover, common among dry meadows and road-sides in Southern Britain, the same device has been carried a step further. Each flower in the head is here surrounded by a long involucre of lobed bracts, and, after flowering, the calvx swells immensely, so as to transform the entire head into a compact globular ball of little bladders, each inclosing a single pod. This arrangement has been popularly compared to a strawberry, but it is much more like a raspberry, being a delicate pink in hue, and composed of twenty or thirty small round capsules. The upper half of the bladder is likewise thickly covered with fine down, doubtless very objectionable to the skin of the tongue, and the whole is netted and veined in the most delicate and beautiful fashion. Hardly any other clover possesses so advanced a plan for protecting its little pod.

Another type is presented to us by the large crimson clover, not truly indigenous in Britain, but commonly cultivated for fodder in the south of England. It is a soft, hairy plant, and, like other fodder-clovers, it does not possess any very advanced protective device. Still,

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even here, the calvx has extremely long, narrow teeth, thickly covered with smooth hairs, which serve to keep its beans safe. The analogy of a prickly pear or a rose-hip will show how very unpleasant such hairs feel in the mouth. The beautiful, small harefoot clover derives its expressive name from a further development of the same principle. The long teeth of the calyx project beyond the flowers, and are enveloped in soft, downy hair, which gives the whole head a very dainty, feathery appearance. As soon as the flowers are faded, the head looks like a mere mass of soft fluff, unenticing to herbivorous animals, and effectually concealing the seeds from birds or insects. The starry clover of Southern Europe, naturalized in England at Shoreham and a few other spots, starts from much the same point, but has specialized itself both against large and small depredators. On the one hand, its smooth, woolly calyx, much like that of crimson clover during the flowering stage, spreads out after blossoming into a star-shaped pattern, and forms with its neighbors a dry, bristly, interlacing head, thickly studded with sharp hairs; and this suffices to protect it from cattle and goats. On the other hand, the mouth of the calyx, being thus exposed by the spreading of the teeth, is closed by a perfect chevalde-frise of convergent tufted hairs, all meeting in the center of the throat; and this barrier answers the same purpose as that of the sea clover, though in a different manner, by forming a false bottom to exclude insects. I notice on the dry Mediterranean hills that these bristly heads are rejected by the goats and sheep, like those of Boccone's clover, and even donkeys refuse to eat them.

Turning to a somewhat different class, there are some clovers which protect their seeds in a quite distinct manner, by merely turning them out of sight. Common Dutch clover does this in a simple yet very noticeable fashion. It bears its pretty white flowers in tall globular heads on a lengthened footstalk, which renders them extremely conspicuous objects to the fertilizing bees. But each flower is stalked within the head, and, as soon as it has been fertilized, it turns downward, and fades brown against the common footstalk. Every head of Dutch clover thus habitually consists of two parts-an upper part, containing erect open flowers or flower-buds, not yet fertilized; and a lower part, containing overblown flowers, already fertilized, and now engaged in setting their seed. This plan combines two distinct advantages at once. In the first place, the bees lose no time in discriminating between the mature honey-bearing blossoms and those already rifled, which insures more frequent visits and a larger general average of seed-setting. In the second place, the fruiting pedicels and pods, being turned down and concealed, are less likely to be visited by small animal foes, such as flying insects, which might lay their eggs within, and let the grub feed (as often happens) on the growing seed. Dutch clover is a fodder-plant, and therefore, probably, in its native state does not grow much in places exposed to the ravages of large herbi-

vores. At the same time, the pod is many-seeded, and the plant spreads largely as well by creeping and rooting at the joints.

That the object of the turning down after flowering is distinctly to protect the pod, as well as to save time for the bees, may be seen. I think, from the analogous instance of the pretty little yellow hop clover. This common and graceful English plant has primrose-colored flowers, and (as usual with yellow blossoms) depends mainly for fertilization upon a smaller class of insects than Dutch or purple clover. But after the blossoms are fertilized, they turn down in the same manner as in Dutch clover, only far more markedly, giving the head a considerable resemblance to the hop-cones from which the species takes its name. After being thus reflexed, the faded but persistent petals close over the pod, and the standard becomes furrowed with deep marks, which seem to me intended to give a crumpled, withered appearance to the head. Simple as is this device, it nevertheless effectually conceals the pod within a closely imbricated set of scales or shields, each one folding over the next like tiles on a house, and entirely preventing the access of birds or insects to the seeds. The lesser clover and slender clover seem to me to be successively dwarfed and degraded states of the same plant, due apparently in part to bad soil, and in part to diminished need for special protection.

Last of all we come to the most advanced and developed type of UMENIATION any, the subterranean clover. In general appearance this plant closely resembles Dutch clover, from which, in all probability, it is a remote descendant. But, growing, as a rule, on dry, sandy, or gravelly pastures closely nipped by sheep or other herbivores, it has acquired a very remarkable and ingenious mode of escaping their depredations. Like the other species similarly circumstanced, it grows close to the ground, in small tufts; and it bears a few rather large white flowers, two or three together in a starved-looking head. Looked at closely in this stage, a number of small central knobs may be distinguished at the end of the common flower-stalk. These knobs are really the calyxes of undeveloped blossoms, completing the head. After flowering, the stalks lengthen and bend down to the ground, carrying the fertilized pods with them. Then the minor pod-stalks bend back, and the undeveloped central flowers grow out into short, thick awls or gimlets, with five finger-like lobes at their extremity, representing the five spreading teeth of the original calyx. These awls next begin digging their way into the earth by a slow, gyrating motion, and at last wear out a hole in which they bury the pod and bean entire. Thus the plant actually sows and manures its own seed, and so escapes all danger from the grazing animals. This extraordinary action may be considered as the high-water mark of ingenuity and foresight in the unconscious outcomes of natural selection among the clover kind.

In conclusion, it may be added that many of these clovers are very difficult to discriminate from one another in the flowering stage; it is

only when the fruit begins to ripen and the calyx to assume its characteristic shape, that they can be readily identified by safe specific marks. Throughout, in short, all the clover traits remain almost the same, except in the matter of the fruiting pods. This is the one weak point of the genus, and this is therefore the place where natural selection has been able to produce fresh differentiating effects. Such a brief consideration of one small group of plants may serve to bring the general principle with which we started into the definite relief of concrete application; and it may also serve to show the vast variety of detail with which Nature effects the self-same object, even within the narrow limits of a single family or genus.—Gentleman's Magazine.

THE PROBLEM OF HIGHER EDUCATION.

By C. A. EGGERT.

PROFESSOR OF MODERN LANGUAGES IN THE UNIVERSITY OF IOWA.

TIEW subjects have of late engaged the attention of the most thoughtful people of this country in a higher degree than the question prominently brought before the public by the recent attempt of the Harvard faculty to open the doors of that famous institution to applicants who might come prepared in all the branches hitherto required for admission, except Greek, for which study they would have had to offer an equivalent in scientific and mathematical work. It has been generally admitted that this work would have been more severe than that required for the Greek, but the opponents of the measure have, nevertheless, assured the public that to omit the Greek would be detrimental to American scholarship, and equivalent to building the educational structure on an unstable foundation. Some of these opponents have gone so far as to assert that the customary college degree, Bachelor of Arts, stands as definitely for Latin and Greek as the degree M. D. stands for the study of medicine. Now, inasmuch as the college is the school in which, according to the best authorities, our young people are expected to gain a higher degree of education than the lower schools, academies, and high-schools can give them, the question, What constitutes the basis of higher education? is answered by the opponents of the Harvard measure in favor of the traditional Latin and Greek course, and that only. But the very fact that men of such high standing in the domain of education as President Eliot and his associates hold a different view should be sufficient to entitle this view to respectful attention. It is, of course, easier to fall back on wellknown authorities, and the usage of the past, than to examine carefully into a subject that evidently has at least two very characteristic sides: but if the subject is one that so greatly affects the rising genLEADIT.

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LUGWOOD Hisematoxylon campechianum

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INDIGO Indisofera, van ep

Third & 498-9-506 Haveout & 1924, of I electrica the cost oft cult having simulty 120 high, he winged, remote self-de ato, and rodd hee, from a case to coals, 0 edge gods by exercised, two, or and yel coals, 1 legs a record which self-well tilled, not conday and native much be arrested to 8 social serva in Lussims 1° agreet, 2-3' dg, up in 3-4d, at these of in 2 mo, out to eidle a two 100 etc in a first a fet 6 m 8 mote a 2d comp.

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Rhind p 510 Genista tinctoria

SUMM, IMPIAN HEMP, Cootdavia juncea, Rhind 120

CA. SALPINAS a genus nout to both bearing for context of the Red directly to context pixels dry pla kurnings beer dog; he as BRAZII WOD, phread to Bran. foresty pixels dry pla kurnings of; twent inge, orderfield of thoses; me though the bes apply act, a straggle not in evidicate; these are some or and some upor thomas, loss are smal, nev in house in house religion; they be to the though the property of the property of the same of the property of the trends color mote; and a rused in turney, roller agd polish; oth use as a red dog; got a vy fleety or instanction; addy acids it perduces a lasty organ yell fort. Thereoff.

Alpha 4997 Most of the rad-degenous are of peace, thereoff.

Rhind page

C. sapan SAPAN-WOOD

Kbind \$498 NICARAGUA or PEACH WOOD

MIMOSA SENSITIVE PLANT Rhind 602

Evangation Ar at the transf of a horsels had in the truck of the prairies, Far in advance are closed fire leaves of the abriding Missoga. Whitein Like the Miners sprinking to the Alght of some familiar linger

of flows for in the matches elegance of the foliage!" "In more the tres extentes power or umbello shaped smooth Ik the of the It Pice, & the dy three they thing through there files to be define y rively the buest embedgy has an extractly

Sensitive Pite; large tomore of Brazil are also con to them; the trang of above sets the part one in morth x is it by magic the evaluate the embrongers this speeds in quiverpeixeles over the Bold, make I alox belo a Daroin & Duke-

chet that yets by beels,

Catechu, Acasia carechu, Rhind 5.30; an atteingt to a smal tree in Ind mens. Cum Arabic, Avera, Rhind 556, EGPPHANTHORN

Thomay Acacias; A latronium Brottale Places, a love should about in N Carpera, to bills troigs, beset at exit by a paint thouse set opposite each on, ile the shows it

A tomorrows has thorns to large as to be called Jungle-Noil by Ene, a Eleghant Thorn

snor, sharp as a needle, 2-31 lg, thickon at the base than the stem they provon,

RANUNCULACEE

Characteristics Some of the most com & mt highly der so of Pop Agdi . simplely ditt is some order, as Aconiscum, Phalichem, Kanshothiso was in sauce comes, is Russian.

Herebs varioter-shoulds

Ins yearly much div, we retide dilated a forme time about half clans the wa

S3-6 83-15 St+C+ Stamons on the receptacle

Truit of day achenia; or a bessey ; ox a follide

Juices ackid costery port wither

Related Families

Ruse Esm was the pent appro, the test a pictile; the bruse achones or besign tollide; the we divided; diff, in Ross the st. on colye watery Thice not acrid, We not sheathing, true seignles present,

Saxifrage Fam, like the Rose exc. w. definite etamens.

Small Closely Allied Families; the Ranake of Ly ind Mapally Annae, Dilleniac, Rassusc, Paraconiac, Paparenaces; see file conduct the Rancina. Also allied more distantly are Drosecoces, (Ly n 433) Aucantiacese (Ly p. 457): also linkers Barberry & thus Functory,

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Importance 1000 of st 41 good Ling; no bruits now editle ples; my mediat, as Aconite; many of ocusionents culture as leave Clematis, Lankegier.

Order suspiciones accidings courtis, exposisonous are not of the op; emorares The courtic prin (DC to Kcapten, in Lig) is so very singular as to be volatile, genly dissipated by simple dryp, include in voltor or boilings: it is straid our alkalise; is inced by acids, eyes, boney, vine, opinit, se; is effectually dested only by water & vestor acids,

Districts: Isrgest proports in Eur; wh has me thou /5; NAT /5, Ind 120, Ston 10 by, og two in Atr exc on Medit shows; It sp. D. in Austr

Climate regd is cool donox: new its lovolands; in teopies one no

CLEMATIS Correcta o flammants has used by Ever boppares one C is used by NAOs Indo says Geyer as a riversh to horses with drop due in the races; the serviced and of the root, held to the not trill of the follow poor, instantly productionable tobe and symps up, is led to wroter to

Clematic vose called Viticella by Dillonius, hille Vine; Vivena by Eves: er Woodbine, Wooden-Lines, in AS occasion 11th cy: (the small exect scented Clauster C. flammula, is still ate called throuting in En)

That every Clausetis, at all cogetrals deduced a test In most seedy extate, Marith Jackson - Wesselv woodland stranders flow, Gushing down a roday bod, Where the tasse the allows grow,

highly meeting overhead: When the dillest august doug aire the richness that they know, Goodale. Then the Will Clematis comes, With new wyeath of tonglod blooms, heading up x drooping low Dorahead - and her feet his only shade That with is within her former like a out in, lightly made, toltre hide her visin drown in - When the autumn days are here, and the words with of autumn burn, I have her leaves are black proce, ... and the smely cluster rise as from free of secreticer Sacred inconse to the dead !

Classatis a leafelimber; so the Passion flower; the latter discrim is as new to coil and isself; does will arolling C has profreshing its ultimate bandes & internedes to arms extents Dawin pr the rate in sol of the splat 3-5 hi athe sensit petitle and there a small of it trucked in a few house tolor2de

PHALICOPRUM Poursefect; called Printerina DC, 6-2 outs bouts & twomen with by Spack & toomene Flowers. First by Weeken and a

Wind Ar Mdw Kue, for T. an.

T. mormon oides the first by M.; RIVE ANEADONE stockness by L., Down, Wild, Euroh, Bureau, & Lectury Group: Mechan colle it & day normared the two Decomies " and as illn of how overly dia science. her in its assigns them gus Western's repease, 12 to grant it to dra, 16 to Thale Strictly Am; Ad see, to Webe; my star Sof Mo Re Wor Whis is Ade. Import in culto in partel obsite much shower than will; many wattobades be out toroug & double are at be wild not be imped by cultur, Peter collision in the to balloctron In 31/1738, ments but at a pit to different to know De Basetra, Pelly "volves duplicates of the petals bague, the pits are highly vel for culto"; comple Able has to be fit in Mich; Beet Be Protes Dec 1895 in Bre 622. saise of a stack of plts to orde me havela "cohs thee by usely all seamons court interpretals; no oring in my pardon; servy besut a delie, a lle lk ministr tobt ruses and tinged to wink! Frank to but m entry aglected by our yorts." At.

ANEIMONE Haller, the Pulsatilla of Connectice, the Campanaria or Riela Romer & Anom or chuz Wind Brown of Entlither; our indde Digitized by Hunt Institu Ciatus; cuch is feath, justifice Sicken fractions

Vouth the thin Assence, displaye This ciller lest & in a worn decays, Mentis Anomores, the control of the brightest oping ornament of our woords" and A. Pubatilla, the Passe or Pasque Fly is, the Flo of Elaster, one of the not book

of view Bort fles, but advite to fil on the challe farmation."

Mechan rays A was belief by the what of Blue to prison the wind out blow over a fell of it tage sormalairs on the vote breathed it; or can got it there le now toto; so Recens mit the A the emillers of sickness; Romans on to be had such an idea, but belod they had the ports appeare the and spirit rule the A; bence the be A's we enjectly led for a gathed to spellade x interest resementes; a aft web propiets the fix consthet a god satepd age malarism diseases,"

A Nivericiano, to bed by Mechan as PHIMBLE-WESD, a in S; PALL A, ka in book; the Is for Can to S.C. most N, there by tear complety cores the continent. Grah, but ice to pure who has, and or two sandy it sweeted der; see block in p 95; and be study of his daythine tone "o coolerating a returned; is mad as a transference of the Ger Repetrous 1860 suggested the involuces of A was as be true a single it clarge the second not AGREGY showed in Silliaman's Journal May 1906 claim real nature to the present of.

A Pulsatilla A hotier symbol still in seel even Sweet April took of kingdom most divine, When Christ exeroded, in the time of birth of opining accommon in Palestine, If H. HAMADRYAS Commers

IFEDRASTIS, L. the Warreria of Mill.

Hi Canadonois, rut has step a smucht navortic small, a is excelly little used in Namasa traic and a FEILLING Korp, I.G.

ADONIS Dillewice, the Surpedmin of Adonson, Adonanthe at Spoke. The penemoial sy are commencepoposes, Bullion

CALLIANDAEMUM, C. A.M.

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APIFANOSTEMMA SOFTIL

CASALEA SEEL

ISOPPRUM, L. Thalicholo of ArRida

EICARIA Discoins

CALPETA I., "COUNTY of hear, MAKE H MARGUED for the significant and country is to higher the significant and significant and the significant and significant and the significant and significant and significant significant and significant s

ANEMONE

BY W. W. BAILEY

Awake, Anemone! awake again!
The sunshine sparkles on the dripping rain;
The sky is azure, and the storm is o'er,
Awake, Anemone! awake once more!

Awake, Anemone! awake from sleep! Thy sister beauties from the mosses peep; The tasseled alders dust me o'er with gold. Awake, Anemone! the day is old!

Awake, Anemone! Dost slumber still? I hear the music of the lapsing rill; I see the willow's silky tufts appear. Awake, Anemone! the Spring is here!

Awake, Anemone! Why sleepest yet?
Thy tinted sepals by the min are wet;
A dew-drop lingers on thy trembling leaf.
Awake, Anemone! the time is brief!

Awake, Anemone! in beauty rise! Reveal thy wonders to my longing eyes; For thee, my darling, I expectant wait. Awake, Anemone! ere yet too late!

Digitiz

HELT FRORUS Adanson. the only evacuant still is use in the fam, his H. riger, BLACK II, CHRISTAMS ROSE, Rhind 546"Survo-rose, of some Gex brooking. Hiteridus, BEGRS FOOD,

B. ringer. The hote, is may it Banacheed a rest initiate to appear at the inners by this brother to come as a soul little god who had a droom on a beauth I say ploing her these droom in the violation. The child's secon stuy bublich the secreme. From this plane come at tissee since. Dryn Karr the CA? in fat car it mover our and iterators in is the to enchild. To so ye it is old the Oh, Savorre, in the Hekelman it is old the Ch ber'it hims abordinetide, It's you cays whis stras large as the wild rose; s somorable parts oversynd on a delic ad it a more move-bold as supportione unaged to the blooms appropriate ord the it for the child of our factoff eras to consecutably besieve it is "The the was precover in the legits of the body green - we was in after all, For Sevette- tive series & martipled in the land, & occ. to constrainty where the is been to provided many a

CORTIS Sales, GOLDTTERRAD c. tritalia, root a pures putul bitter, out any estringency; popular remainable for agtithous affectors in mo of con ly

AQUII.EGIA Townsfore, Sectronics

Bllse 45 Ship 2

Chapman in play of 1600 reterrer is as contleas of ingrational; What the - a C? + No, that thinkless dower grows not in my pardens A for quity Herry, The City wady wanderows taken

I selve a scribed to such as and forsakon.

Designen Make her a fordly chapter of saure Ca had execute about her covered of with succeeding flowing Ophelia, There's termel for youx columbines

Assaure Culvert wort to As cultre a dree was therey; to potate reg a circle of doves drinking for the same dush? or oach yetal adove? Herry, Latiname, some very to Aquida to cluster of boot sques res, talons; or aqua elipo to

collect, by petalors it water reservices; but petals long doora, & seed pod somly and le Firm decembere despos a border to an illum, DAS in 19 ca 1 once was combined w the red rose as brage of Leaners & long bet that to Berom as and a of Plan

DELPHINIUM Tournefi the Staphis agria &DC, D. Staphingria is vermitural, courtic drastic emetic in seeds,

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Misariva, seeds our off used insert of pepper; it is suited the purposet SIAH DANA a seed used by Alymon to favor curries is a Nix the Black CUMIN of See,

A. Magellus, dimetic; shown by Dr Rienning to be the aster one als odo has any values very acrid Rhind 555 A. Cammanum in prost vegute but feeble compared to see.

A of India Bills on Birth a virulent winer oce tily 429

SeEllac. 1

Shler to, Reddy Pol, & 244;4;4; Tholie do mark as strong As According or rash comproveder

Ramos A-3 thung, with cy, mesos primarily mythe prisoners Gr, AUKOKTOVORV, Worldstone, to belog amostigged to juice, or batte diel in it, wil k ovolver,

Gralian, accourse, Acadia, now survive in Eng namendature in the Whoter persite, product because, a pretry, and y they well. Sig Monks-hood & Helmet Flower.

KNOWLAUNTA Salie. K. vesicatoria used as vesicatories in SAfo.

PARONIA L. Permi souds are emetica cathactic; not is solto be antiexparacedit. Genue inventible for perfuce in its of Moutan the import team of disk

Blac. (62 Shape, Demp. M4, Thy tranks with Pionied + Lilied trims

Which comey Ageil are thy been betwien Branake other proper deaste opening Wild Fromy of Cal, I. Brownid Payl, in her plain of Sal to move the in wet o day wile; E HThayer Ed a trush here & there at Paradina, "be's lying on the good; are, cut I in graveth; for smaller but my rich cher crimeres. The is smorthy about the bloom at a wild I cost remained one of a burners from a to this me w its face tunned troused one I telt the applopage for distracts it?"

ACTRA L. Christophyciana of Town.

A racemosa a simple artringent; nauserus bitter worts held in Us remely for his of vatherik A, spicoto, its blu bowies, BANTERAN, are potemous, poots and grammatic, exprotoment, estringent; reported to so marked velict to cotomb, same qualities are

XAMPHUR RHILLA March wit - X. apritelia, wood strule a vy pure bitter, toke, Shrub; con both a gum & rein, each of while intersely bitter,

CERHALOMUS, see P.

AND C CHAIS I whe expendence over a seminant of cities in ship yet, margin a white yet, margin a white is a property of the property of the calculation of the seminant of th

R. Hammada, and petul epigoptics; are used as such in Hebrides, produce. R. scelentrus ling a bilister in Lithur.

R. Phona not extily acrid applicance; juice the once used by Sivice. hunters of bearts treavening the javeline, the varied thus very lists.

R. derie, BUTTERCUP; in Eng BACHELION'S BUTTON, the divide; acc. Ellace p. Est and p St Charptoner, the windown B agrassia for it, or CROWN on; Cucker-bids of your me" of Ship, a cucker flowers of how I, 1 is not bythe terrocan this for I; but by Jewis to be the primouse. Rhines 573

R. Asiations RAMUNCOLUS, Blind 572

R. aquaticus, WARK BANUNCULUS, Rhind 579.

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MAGNOLIA FAM.

So constituted by Justina 1789, DC, 1818: 21 Waters a 1918 by Record, Fine tweet or Analos. Least bud scales and of stigules face to face so collecting. Less sit, and pollurial detect of conface and distinctly jointed to the stanc; usually to decid stigular polarity, are rolled too the three so talk the bas to ringed across who couptill sit.

San Karat Style. Another admits length for the couptill sit.

Finited by so succeeding to take couptil of the conface across sociated. Seeds sitten as follows.

Close upon Dillowinds och kar nortfjedes, kone in 55; k An anade, och ave ext stysse in 35; Dir into M paper 2 Winterese, the Winner Back trong och he de no stipules.

Order focus as Military where counds, swamps serides of hills and to the sy: straggling-thence into VVI, it into Ind. China. Jayan. Name is Afanc aging is. Planta stitus tonic facts; frager firey to decided acts on secures.

en 11, or 65.

Dalauma Just for Blum's Deci

Accounted them, such the of the marrenith of the trains successful annothing it is a successful annothing it is a successful annothing it is a successful annual time is a successful and in a successful annual ann

MAGNOLIA Blanca L; was called Gewilliania Rottle Syach dies it into Livingeis

Migheica So relimitate as to produce passed of two greves an attack of intimingent. Book intensely little but not taxada a gollic ac ; an annatic; vol as trait, resembling down closellar the Chachana; exp useful in charac downa, ex la taxal socie accases. Kinas STAME SASSAFRAS of BEAVER TREE a LAUREL M, SWAME BAY, LAUREL BAY.

Burgaria.

Manglistia Bluss. M glows has a white solid-wood, largely used in Java superd to Presidency of congress in aftern of it.

Michelia, I; the Champaca of Rheed, the Sampaca of Rungh, Anog the not mapment it we order is the TSJAMPAC or CHAMPACA, the delyte of the people of francoston; putally the magnetic in all pt; sp M. Tejampa,

M. martana, back ced for officery to Cascaville; less litter.

M. generals bk smalls somethy of Competer to be businessed in the Dotsoger one of have trace in Miral; yield an exclete fraget wood much used when the marketing to make their

Licensdendown, L. called Puligiforn by Horan, well adopted as openior um.

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M conspicus, ITLAN, unclusted any mosts times for the surgassy brilliancy of its large x rano other two or group x naked big, by.

M tripetala is induces sides pladado, DG UMBRISTIA-PREE. Rhind 408.

M grandiflora one of sublest of everyones; Rhind 251

If pumils when in probes for its trabpen thes

M excelled has a visitivative called CHAMP at latgrade, some class to palegel; fine tensore

M. Frezeri (nuriculata of Bacteria) "ODCOMBER PROSE La.

M. decuminate CICOURER-TREE. Sitted 2 mosts advante insura of the process in existing a branchy is extrady used systement sures & m. who was affecting the Alima 400

Tarmannia, BBr, pilippans, tenderto be diver ; with sourcealus; close selo of Driwys. Recommittee of hote irred, its taut, is suppose by Teno.

Drivings Winteri, WINTERS BARK; colled Winter Mur, Winter and Sol, Magelland, Commerce, Canella, Pomb. Boique Milin. Bark to frite is to Cinnamora,

Dr. gennatonio, CASCA d'ATITA o't Brazil, the would used age action interior

Dr. axillaris of NE, similar to prec.

Illiciam, L.

I resistent, while the one for, have glear an anathe flavor of Anive sweetich, rather quageant; a sugether Chinese both a standale x canadiasting used as a spice in the ordinary; for assault, by distily yields an oil, of most at yags of oil of anive, for which of allowed bulleting the factor lights.

I. foridoones x or sy by simbor spicy quel.

I. religionum, seeds so hager, Chin, hurs them in the temples

Tronge, Merlin (Gy mounthus of Juny b) ; bas Damile west,

ANOVACER

Constituted 1700 by Fusiter. Three or closure; flue for no bour Of tropics, both worlds; few SEN of them. Gent close is noted as-constituted a small in all pts. 26 gr 300 kg.

UVARIA L. or ANIMINA Advances the PATAN Shind 379
U. triggeraleides, the yields being topped a violid ante, on bacdone
in the from of a frepting sum.

Un tribba; seeds-emetic; los used to beglanguid abscesses to a head,

hetratupe. Ve febritogen sivie eld Franto de Burro, ebellado en brinco use et as an exte

ANTINA Is, Rhind 376

A squamera ter her a heavy disapell deet seeds one a highly social yele fatal ne issuests; so Attador product than a solicition to disast of Grosso or Close scriptions for actly unality thicking, SWEST ST; SURM AFFEL, so 162 CUSTAG AFFEL so the Control of the C

material scall more good for desert,

A transferia, Edicagnos tall art in acciphenciping.

An Tergerala, Chicinonya of Recuj fee a variety piece of Netwel Hinter, its toste que incompractly Reducted at Historicary are 14-16 th heart sope based taken the re; vint for so tost subjected; cover a renormal juicy pulp wracy the kernels. Peltful dec to be a de, 200 blake i bread dull ceroon.

dimericate Sour sor; Custano Apple of Ami DC 173

A. PETIGESTA CUSTAND APPLE VEWS, BULLUCKS HEART of ES; DC 174

XY LICETA series, large true rankio, PINDAIBA | highly armostic built, to have ut regen see light pass

X. globra, BITTER-WOOD laWI, see Lig 421,

PORCETIA guitamenais, I.AMCR-WOOD of conde unlarg, the 2661-PARI
of Guina , stop, clastic

MONODORA Engristica CALABASH NUPTURE a rival of true N for accounting LANCE wood, Gualeheria rivata, Rhind 497

DILLENIA MM.

Constitute DC 1818. Proces through "under thrule , voicely broke, That to the his voice a conget transment to Russel to Exchal allience, More la Australiaina India e equipped transport to a definition of Ass. Gasty associations 469, 200 sp.

Dillenia I., sol of sectore trees, with band durable, collitioners, lading, and also of put bounty; would be produced things a majority of thes. Ye carried to the sector and the had curvies. April acid; added to represent a cough moints; sign has least of companies.

Daville elliptica, astringens, businebes the vulnerary old SMMBALEINHA in Breadt; D. rugosa used in Breagli in sweller chine les

Tetracera used as Dirugean; and is LIANE ROIGE, disretic xc.
Curatella 3 anabaita used by tonocus in Brasil.

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PAPAUERACEA.

Consults by his 1789. 18 3, 200 sy, 130. Electron ob nuts of the written, two step of stigules. Reducates by 1 flad, Bernis occumyled in Ord.

\$ 2 74 manthing 5 + 1 Fruit god or congretare, Soods + ,
Agentacias Samue in Brownia to encoded Thalichum-like firs, vot petals

Agentacles Barune in Barrenia w exceeded Phalichum-like fles, we petale Geneth in siliguose hair of Eschedulicia & Glancium.

" Macochilles in Poppoer

" Cistacore in Dendromeans

Seat Gur; 3 of order is it; sol in NAOn, 6 the tax Aon, 3 to Chine Lapan, 2 to Siberia, 1 to Cape, 1 to Bustation Most are around the persons or ming

BOCCANIA Please, B. Intersecting, PRES CELANIAN, PARCOC WED SWIT, Hermandon cally SCHILL Super terms out to be a control by another manche in the producers also in get and wind, descripent, exclusively, decreased there is exclusively to be and already by the superior of the producers and the control of th

Sarguineria La Canadensia, PUCCOTTI Zy, BLOOD ROOT, contacy grapa in large desces; in analog stimulant diaghosetic expectionant.

Chelidonium, Tournet CELANDINE juice a o'uleur acciderium, etimulades, aperient, diment, audocide, a geld derbetwent; popular seum fre ooket; employed aucocorduly la operites de the corea.

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There was never unjoing But His bigured in the planer

Stylophonum Nues

Acceptione There A. Mexicana, PICO DEL INFERMO (See Ly x 1811) of Sy, of Bry

Meconopsis Viguies IM. Nayalensia vy roisens esperate

Espaver Trumb Promiterium the OPHIOL POPPS; noto co unlar; one lot songe mage its culta in goodons of Doeg Superbus. See by p 431, Otallo 33 Ellac Dr. 2: old Engras, Cocaress, Cheese took, Jone Silvergio Minist 547, or 357

Composite Planters.

a Characteristics.

Composite Plants are peculiar, lot, in having their flowers composite or compound, i.e. in a head, with an involuce beneath. 2d, they may be known by their stamens, for they have their 5 authors united in a tube surrounding the single firstil; like a cylinders from which their trostigmas project. 3d, they may Hen be recognized by their fruit, which is an aliency often middly, most of our burs' belonging have the they may often be known by their calyx, which is reduced to a fringe of hairs called a rappus surrounding the base of the florey and standing on the vary of the forming an aid in blowing the seed's about, and finding anishar bramples in Dandellon-down Thister down re. 5th, often their heads of blossoms contained 2 sorts of flowers, the owler called Rays, or Marginal or Strap-shaped or Lightate Horrers, the central called Disk, or the Tubular Flowers, 6th, they often possess tracts between the flowers called Chaff." Ith, the receptably's necessarily much enlarged to afford basis to attach the Glovers; often broad and flat , sometimes conical; and pen juttled or honey-combed with sockets 8th, the involucie, composed of scales tracts called scales," usually resembles the cally of ordinary flowers. I, there are no stipules, no prisonous plants, and in or climate no herbs and bit 3 or 45 hubs, in this order.

Condition of reder was chars till in 1830 an surport of which was proposed by the Gur both Inssing; & at a later provided DC the older spile Tils acute x lagion which to the elucidation traderists & some DC to worth of termined; lessingly, it essentially fillowed; gry 3 subroders, Publiflerse, & 1. publiflerse, & 1. publiflerse, & 1. publiflerse, and I tabbatiflerse, and the perfilles see & liped john all to 2 AM boyding pict.

Justice make the Cynonacco a sopri subroder, I by fillow him.

Milly fluid of Cichorocone is of same nat, as in the Alled Labelias & Belltmones. Peolicy of order is porast a unexpirative in to each getol.

Pirecib in all per of world; so many now has so of all plant Line; Humbeldt computed they are 1/2 of the phaenogs of Re, 1/2 of Ger, to though 1/2 of North 1/2 o

Habite Also bents to the N forces t and equating even arbitescent; in Still they are obthy trashes; in Stillena trees,

1223 and to 243 bien, 2431 genous,

72 and trees, 4 large trees +250

126 twiners on climbers,

DC has 3530 Amer, 2224 Abr, 1827 As, 1022 Eury, 349 Oct

Cadillary

1540, Wex 925, Erse 722, US alon 678, hadia 681 Km.
No cratins abt ho of kn-pits: I had 185 cs, out at 8500 or; 1838 De bas.
8523 and \$500; 1845, have give extented 9500 out of 9500.

Correction, Rubullance of Election and colin, and otherwal of a cone has the Correction of the Control of the color of the

direction is he has also useful in ducing; some his root + wo gum; in many the feels are rily a prospective at a trace of the Dorma alterna or prevent their the roles.

Liabistifferer, ter of inacto ; at Cod II, Printain we used for tra

Light dress in age, all about the a said bitter, a sering the converte in

is a nemody bulk softenshe like sexponential 2 allows of NA, little willy contes to regul

Musedium finidasum GAII, WORK SARVII to its birtenness Charadailla juncea gields in Lennius Kodda, a deug lk lacturari

Chandrilla Juncea Fields in Lemans Kodder, a deng lik lacturar Creeks lacers hald venous in North Jan Hieracium viron

L sabaredum

There was never uneter But the bigues in the planter in

6, Distinctions from Related Families.

The Teasel Tamily has the compound flowers and the implume The Composite family, but with distinct stamens. Examples are the Tearly the Scabious and Morning Bride of factions; they have always of printeleurs Some of the fregueriousae, is the Red and White Clover, are oftenal mistaken for members of the Composite Family by those who thereford an invest Some of the Valerian family have a feathery papers, and a little tod to four heads. Examples are the Mountain Helistope or Bulm of a Thousand

Howers of old gardens; the Greek Valerian, and he Saule Valerhan of High Island.

a Importance

The Composite Family is important principally from it numbers wer toto speces, being the largest family of favor-ing plants; and 2d, from its beauty, but besides ornament, it and the production of lettrace, salisty, chicay, artichohes, amica and wormwood. The order is of loss use to man than night be though from its numbers, and it contains a freat many troublesome weeds, as the Thiotles, Korseweed, Stick-tight, Cochlabur, Burdock, Ragweed, Mayneeds

Our largest genera in the composite Family are Aster, 41 will and 129 foreign species, and Solidage or Golden rod, 32 with and 28 Ameticago species, and Helianthus or Sunflowers 20 native and 40 foreign chacies, The largest James, Senecio or aroundsel, contains ready 900 sh why 57 American represented here by the Goldenthagwork.

d. Particular Species.

Against her anales as she tood The ludy Tittle My did not I beened agains upon the fate to see; The owner thing worked but dit not speaks, of double came we when theely, and all surplicant was gone from me, gean Ingolons it to his s, Mechau, Sweet are the laws and the hodges wife in vyin stru the frethe made rederith The doner, With tall field sorel and daisies volum reviewe and golden tillevelly glowing; my Ad coase Sweet of the way through the woods hinou, itse live, where at sundown maiden and lover Lingue by still and by bank where wild clematis is growing: Pair is on world when the dew & the dawn thill the half shened 10865, Pare when the corn fields grow warm with poppies in mornlyhit gleaning Fair Know the long afternoon, whenheapes a happields be decoming, have as in les egging light the last (DWVIIIII) aloses Scent of Geranium and MINI That in cottage windows run rich. Breath from the Ital that is down but the meadows cache side the beighway? Murmaring wind thre' the leaves Bent over the meadows by way? ex P, Woods tov st Deeps of coolshador x ylearns of light In high CIM tops shiring, Such peace in the dim green trake As the town seve in dreams knows never! O my heart impleant, To be out in the sun sing! Xe O bride sing loud in the step : " There are none to glad as I. Inal Colbirth. alle It the Dairy Oh happy day, refuse to go! Hang in the heavens prever so! sy the is of applied to Forever in midaftenvon, - At happing hoppy trune!

Pour out they sunstine on the hill, The finy wood with perfume fill,

But tid gray evening get her tack with all the stais whom her track,

and only s pread try internatings While summer her lackaut ment fligs.

a garden Souther ever vegrom and like that you would it great It be about

Every Well receny hand Twis home below a the T securism Makes married

And long not for they thus hing next in the orft bosom of the west;

was never unstron But his bigued on the planter

Sweet as the jardens that they hass, Where dildren tumble in the pass.

Land-scented beegegthat shall be

The mystery of the midnight blue,

Hamer P. Dayford

Proported entito

And breathe across the singing sea

Ah holyly day orchuse to go! Hang , aco

Forget the dash forget the dew,

Brow Dairies that there tiles the right humand or and grossy lane, they picked as many as hands can half

" (with nonverse gooding of air Enestit

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TANDIE, D. linavifilius of House, Actor 1- of older buts x upo monty Grajesynell perh be appear 1640 in harfs (atalogue, as Actor ling the name resembly-leaved Attent of Will", Ray port reasy it to his o But a Bambers, Was the Arling of le, A righter Mx; Chayengo's lited by Naccall who incl this as Col Diplopappus tolded by Carsini 4810 in a Paris paper. Name strictly shd be linanisefilius, Mechani

After any pretty but less in devot its axial but into bee a these against they much ancest it provide in me then secderates that & bee," By a graded impelse down, starty the axial buds; "some effect by pindy not towned bud of any ret"; "I was on induce these rhythmic growths are not underetd " Mechan,

Beaut ply highly croud in pardons; "one of the last of the horal charmeto leave us sends or rige in Pa when severe thous come begins to the stept beight of stopt, but In dry billy exthese opens counts, Come to Fin, als old coast, less Need, Winethood Miss. Rather abbe in Sea there used as subst the express in poliche hora, its less whence M are as a name locic SANDRAPER SPARWORD, box it p 13 olg

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ERIGERON belliditellium, alublandy, figd by Mochan und a PUOR-ROBIN'S PLANMAN, in his for it is we may ye go where it grows in US, to No to Can, " singer in Bot Magnifige it; when appres in Gray to Robin's P, Wood Robins'P, Darlington as Porc R Bert's Plantains orighn unun, Or is you by out are Daloyleary i, Larry Flowering Flowbruse; to the Flowburse the Buc, both box the Bux. Fr. acres, be its live resty that it Copy so the true fleatone. Badly so called, So bellifolium also ill, hop some, but lit, acto les of Mrs. George, spring govern (or old man) or soverio (In tran of g) be corners whit propersition stilled Disord for K E. Philadelphicum by my organiumos, I my tutted rectands; Plator dure to try in to, while beyons ead of age is M. pathod it associate more. Of to 6" forms the patibles tyde in exity logish and inverse by the over from streen it bluesh-purgle the grapete laste with spot upa even other seen to by littles; M. Het calls it the Dairy E. Abila delphicum Rat. bas a speed chapt, on its med victures rays they were less to the Kan lands by the or of ocash on Squareveed, as menapopue & directics; "as reporties" they he raved + lives; Vy useful applied to sands atumora the matted eveterche

E. acre, Bluefleatise of Eur, abo, of och calebo ple Meg rays But this bad however climbs the hilly Hides in the frest, bounts the gless, Plays on the margin of the still, Peces round the fox's down

E. muchantur, OC bot by Mechan in the; society in US ; yvery to op, in Eng. pardew in as Virtadeois tellow. The matted rottle. at intermed betwo first of Pa-x bet , trails barren has, 8 mits waty, snots pely excet.

TOTONS BADIA Serves, the hopfight by the han, of Arche very up at Sofin handle of some of 1823 them that an Assert more plates in the little to many the soft some the soft some plates in the little to many of an Secretary 1824 and 1824 in the soft of the soft soft soft of the soft soft of the eason of the five of a of whice later and artifician was free, led 22 April 663 20 10, 2 sect 1858 20 70. 2 1 or test tols of the of easy in Astronomy pleas

miliar metrical forms. Some of it is poetry of a theme is often perfect in its way: licate and penetrative order, and all is plainly he work of a true, if somewhat uneven, poet. There are technical faults here and there which the finsh and melody of certain pieces forbid us to attribute to any defect of Mr. Albee's ear or voice. Taken together, his poems have the air of versel composed at different stages in the life of an imaginative, sympathetic thinker. Their inequality may be the result of a disinclination to revise the outgivings of former moods, lest the honest expression of those moods should be lost in the process.

FLOWERS IN THE GRASS. By Mary Gardiner.

After dandelions, buttercups: After buttercups, clover; One blossom follows another one, Over, and over, and over.

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loved

er and ilyl, the And the sweet satisfying green ed to all Is round about them all ; vintr the First to be here in Spring-time, Staying last in the Fall, the do-

Just as God's love is first and last. With human loves between. Successive blossoms which He sends Through His all-present green.

Only when cometh the clover, Lifting her honeyed crest, Always within our heart's choice. We like the dandelions best.

So here and there in Autumn time. Their lonely faces smile. Like likenesses of vanished things. Which we had lost awhile.

After dandelions, buttercups; Then daisies and clover ; One blessing touches another one. Over, and over, and over.

But O, behind, beyond, around, Between them and above. Rises the satisfying green. The Everlasting Love.

JOHN ALDEE, 16mo, pp. 213. G. P. Par- blank verse, and a good illustration-as are "Th However the verse contained in this volume may measures of the author's close acquaintance with feet readers of opposing tastes, it is as far removed mother Nature. This, it may be added, is a maniom commonplace as from the fastidious modelling fest quality in his work; he is one of Nature's lovers, which our younger verse-makers-British or, and his sense of out-door life and beauty does not merican—seem devoted. It is written mostly in come at second-hand. His treatment of a simple

Now dandelions in the short, new grass, Through all their rapid stages daily pass; In our old country yards where thickest found.

Some morn it opes a little golden sun,
And sets in its own west when day is done. In few days more 'tis old and silvery gray, And though so close to earth it made its stay, Lo! now it findeth wings and lightly flies,

A spirit form, till on the sight it dies. The lines in italies are very charming and origiw of a nal. The image which ensues may be compared with the with Miss Ellen Hutchinson's exquisite and still t form, more subtile rendering of the same fancy, in her andling poem of "Harvest";

In the meadow grass The innocent white daisies blow, The dandelion plume doth pass The unquiet spirit of a flower

It is perhaps more strange that Mr. Lowell's poem to the Dandellon should have stopped short of the -Hamp- migration of the flower's soul than that his two a worn- successors should have thus conceived it.

> Tavaxacum Dens Loonis the Dandalum (Dant de Lion) of constil medial use 25 surdene de botonin aperient, & diunetic; very useful in chargic des rboce Halton, Taxaxacine is sold frie in and boxescent or stax-shaped crystale toy M Polese Klind 556

Percival, Obe to spor The exotion but see breaking, The flow in under see blowing; and somete winds are playing Alvap the grassy only

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amiliar metrical forms. Some of it is poetry of a theme is often perfect in its way: elicate and penetrative order, and all is plainly he work of a true, if somewhat uneven, poet. There are technical faults here and there which the finish and melody of certain pieces forbid us to attribute to any defect of Mr. Albee's ear or voice. Taken together, his poems have the air of verse composed at different stages in the life of an imaginative, sympathetic thinker. Their inequality may be the result of a disinclination to revise the outgivings of former moods, lest the honest expression of those moods should be lost in the process.

Mr. Albee's poetry, in fact, seems less the product of a life occupied with song than the overflow of a nal. The image which ensues may be compared finely poetic nature, usually at its best with the with Miss Ellen Hutchiuson's exquisite and still best occasion-successful, also, with the best form, more subtile rendering of the same fancy, in her masmuch as a marked excellence of bandling poem of "Harvest"; appears in his blank verse and the kindred rhymed measures. Few poems have lovelier thought and movement than "The Perfect Gift," which opens this volume. "Chauncy Creek," another and longer piege of blank yerse, is a segene-jelyl, the musing of one keeply alive to Nature and to all human associations, as his wherry drifts with the nide far up an estuary upon the lasteric New-Hamp. migration of the flower's soul-than that his two shire coast. Here is a realistic picture of a worn- successors should have thus conceived it. out fishing village, occupying ground once the domain of the Chauncys and Champernownes, and now passing away in turn:

Here new the squalld fisher lands his boat, Calls wife and children from you little cot, Perched on the rocks and imaged in the stream, lis scanty fare upon the flakes to spread, oo small to sell, too little for his hoard. Where once men canvassed oft of Church and State, And ladies, stiff in low, laced bodices, ossiped of men and merry wedding days, ated in porch or window's embrasure, Pricking their samplers with some much loved

Which gallants, o'er their shoulders looking down, Saw well-pleased; new rough speech is only heard, And dress undone for tugging baby lips, now limp and hungry breasts of leathery hue hich starve each year the yearly boy or girl.

The softer seas which murnur in their tops; and soon the old familiar beat far off. And morn to crystal chambers of the deep.

he onve expression to his confidence that year. With the zeal and lervor or yourn Mr. Auduber, now in his eighty-second made by the venerable pastor, the Kev.

'Rose-Gerardia" is another attractive poem 1 By JOHN ALBER, 16mo, pp. 213. G. P. Put-blank verse, and a good illustration-as are "The Swallows," "Arbutus," and other lyries in lighter However the verse contained in this volume may measures-of the author's close acquaintance with feet readers of opposing tastes, it is as far removed mother Nature. This, it may be added, is a maniom commonplace as from the fastidious modelling fest quality in his work; he is one of Nature's lovers, which our younger verse-makers-British or, and his sense of out-door life and beauty does not merican-seem devoted. It is written mostly in come at second-hand. His treatment of a simple

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The lines in italies are very charming and origi-

In the meadow grass The innocent white daisies blow, The dandelion plume doth pass The unquiet spirit of a flower That hath too brief an hour.

It is perhaps more strange that Mr. Lowell's poem to the Dandelion should have stopped short of the

Tavaracum Dens Lemin the Dandston (Bout de Liva) of constil medral use 20 surdique, destations aperient, a directic; very useful in character obres, Hellery Taxaxacine is Arth frie in and boxescent or stax-shaped organic, by M Polex Kleind 556

Percival, ODE to Indi

The yellow buds are breaking The for in mide are blowing; and gentle winds are playing Alvap the friery only Annual the sicy is mentaling Bod down the postsy only

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13. 1886-DOUBLE

JEFFERSON AS A NATURALIST.

What His Influence Did for Science in mani America.

HIS CONTROVERSY WITH AND VICTORY OVER BUFFON-BRINGING FOSSIL BONES TO THE CAPITAL-WHAT MR. GOODE SAID IN HIS

Mr. G. Browne Goode, president of the Blological society, in his annual address in "The Beginnings of American Natural History" be-fore that body last Saturday night, referring to Thomas Jefferson, said: "Had he not been a master in statecraft he would have been a master of science. It is probable that no two men have done so much for science in America as Jefferson and Agassiz—not so much by their direct contributions to knowledge as by the immense weight which they gave to scien-Immense weight which they gave to selen-tide interests by their advocacy. Many pages of Jefferson's "Notes on Virginia" are devoted to the discussion of Baffon's statements (1) that the animals common-to-both continents are smaller in themese words, [2] that these which are secular to the-new are on a similar to the-new are on a similar to the second of the second of the in both shave degenerated in America, and (4) that on the whole America exhibits rewer species. He successfully overthrows the speci-ous and superficial arguments be remembered when at this time considered the highest au-thority living in such matters.

HOW HE CONVINCED HUFFON. "Not content with this," continued Mr. Goode, "when minister plenipotentiary to Europe, a few years later, he forced Buffon himself to admit his error. The circumstances shall be related in the words of Daniel Webster, who was very food of relating this anecdote: 'It was a disfond of relating this amediate; who was vely fond of relating this amediate; 'II was a dispute in relation to the moose, and in one of the creles of the beaux-erprize in Paris, Mr. Jofferson contended for some characteristics in the formation of the animal which Button stority denied. Whereupon Mr. Jefferson wrote in the Paris to General John Sullivan Jonetra and sind Durham, New Haupe of Milwan Jonetra and sind Durham, New Haupe of the Jonetra and sind the formation of Milos and Justices, in a knowledge of the Milos and Milos and

JEFFERSON'S SCIENTIFIC FORESIGHT. "In still another matter in which he was at variance in with Euffou he was manifestly in the right. In a letter to Mr. Madison, of Wil-liam and Mary college he wrote: "Speaking one day with M. de Buffon on the present ardor of chemical linquiry, he affected to consider elemilisty but as cookerly and to place the toils of the laboratory on a footing place the toils witchen. I give the second of the present stitchen. I give the second of the present literatury of the second of the present literatury of the second of the present of the literature of the utility and safety of the lumma race."

PERE, WILD MANDRAKE: Les most valled

the overlappensity the idea that someonemuse line corners have been provided in the control of the proposition. It is not some provided in the control of th

CARBYING BONES TO PHILADELPHI "When Jefferson went to Philadelphia to be inaugurated Vice President he carried with him a collection of jossil bones which he had obtained in Green Brier county, Virginia, to-gether with a paper in which were formulated

gether with a paper in which were formulated the results of his studies upon them. This was inhibited to the Transactions of the American Hollow child a coety, and the species is still a control of the species in the

Go, wretch, resign the presidential chalr, Disclose by secret measures, foul or fair, old the wild wastes of Louisianian for where the Othorolis his turbustream. Dig for here the Othorolis his turbustream. Dig for hege bones, thy glory and thy theme."

A CARVIA T-ESTITULIBILES
SEL TO THE TOTAL THE SELECT THE SELECT

Fill the party of the property of the party of the property of the party of the par

MANNEARE of old world, Mandragora, Shilly & Ellac W.



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MANURANE of all world, Mandragora, shire & Ellac 177

ASTER of Dieserides was pert Inula Butonians.

not Play parts the Atter Amellus grows in the Picex 1 at Alberta. In 1737, described to 19 sp; told 1886, 103; DC, 1836, 1837; sina, M, 200 in Amellus, to.

A patern by the Mechan; Firsts let I has according a steady pariete; at one, or cloude broughter 2.6' by with our horizontally a at it apply to me stans; potent according a confidence of the property; potent according a confidence of the property of the mode of the property of the mode of the sy beautifuld. To the year all a cry effect bosonic in one bout, arts scenery. Hotelman, from, showing webservary provides in Arch, Group, day god; while, day soil No; word modestered; Durating ton, units woodleds. Unsure who water in open modes.

A longitudius had ty Sprague a describy Hervey, is A Novillagii?

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O secent blooms lye cluster so In quaint twoce-covers o in selects
Of bodger that a dream absorrer be seen; soft, dainty civities
Of chaining some formed its accordingly Observe that some shall pather those, When winds shall from more seen is eade, And clust in assect that less habe.
One shall contale.
Usual in with he are either board. I wall the lively world mod thee?
The smales have above my board. And spaces where the wind has abed Above my feet the living red.
And exceeding close also the way The pumple Actions bloss makes;
In full production, have withen.
They full the path on every cide,
In love conduction, multiplied. To endless have offered the sties:

Along the purpling wayside steep She bangs her temper passing deep, And meadows draward in happy steep And lit by starry eyes!

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GOTOENROD LASTER,

Bryant, Doftbe Ples, The Wind Re & the Villet, thousand base, And the Brian Rose of the Orchis ded and the tunor plane; But on the hill the veldenzed, who Aster in the voved And the gollow Sunder by the brok in autumn beauty stood, Medachem, Accersy Goldenred" in Vouses"

With all the autumnal than of Gildened; Andergrowhere the Runde Astors Hot mud And bend & wave & flit.

But oben the names I bear Spread out in tender stateliness of priise The fairest of the gran

I only see me nock A worded nick-balf sun balf shade-And orbigreved, Darling lode!

Two osk-barres, vivid sceen Tilke faces reeved between.

Like maiden faces set In vine wreathed window, vositing thy & plad Por joys cohose dim, mysterious permise bad. But promise been, as yet And rueple Arters of Corbers Like suntie erse top go so in tradi

Great beauting stalks at Gulden Rad. The gotten red is yellow the In every mestow nock; And astems by the brookside Make arears in the brook.

Whiteier hast with in autump Almothe river's summer walk And twentiles on its said stolk

And like proved lovers best In repal courtery, as kings might over, Tall Golden Reds, barebeaded in the deep, Above the Asteres least,

Ah me! Lands will be lit With every autumn's blaze of aldensid. And purple Asters everyobere will not And boud and wave and flie;

Until like xivened seed, This little earth itself some non, shall that Where one I love his toutsteps sudden Hayed, Off into space, 2 tiny shining mote, Which home but God will beed

But never more will be Thing low between the forms a preted will Sweet Arters preering that that branch of oak While purple Aster Stars, close side by side Bose such precious owner as deserting spile That supply day tome

> Like a music of triumph x joy Sounds the vill of the ocheels; " I lean not of the windows x and To the lott & the right, To my briends in the fields of the owner

The a sace up I raviss:

The revert defer's and terround had that stray clematic, pecus exthe Hills,

All'is lose for Summer! Doubly now she showers By trocks you ber white squeyle stars. And litts in all the bolds her Golden-Red Sept", Itt.

GOLDEN-ROD

Says Machan "No just or doke of Am setumn libe vod be complete ove these as an east | part thereof, n. The rich get the of the G mire to the dily lor do much trook the roun for unsured beauty wh Am 'sut so project."

In Ald W only lop, S. Vigna-aurea, which has a vigore chang a was leken there as Godden Rod; it is also nate in our M. Our Ad portin has near 50 sp. only 7 in Cal. Gunoo' Floca Disginites 1962 n's 3 op; Mublenby in his catalo 1813 no 43; tox all NAm Nettall no 49, 1812; Wood's Class Ble decars 48 BOE Miss.

N Solidage gen by I is by him are died to Vaillant a got bot of the gen, beli ed to be to L. solidus, whole solids to nacedal repor Salmon, bootstise of 1800, "It is 1 at the not while Wound-Herebs; cures Wounds x Vices," Alor quite tams as a dye. Says Culpopper, "Venus sules this beet. Tele a balancie vulnor my bort, to famous aget incod burts a bourses. No prepor interior than a tea of the best for this service; extery was gen or dry, bothe me Victue," I line. puts it in win Materia Media as a vulnerary z-diwetic.

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S. Whatifdia Muhl, fight to Mechan; leves to grow in half should woode the tradit mit strilly chase is its large open tranchy walter. While seem out this say, x willdearn yuth, it. De als it start to a.

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GOLDEN ROD.

BY MARY CLEMMER AMES.

I've reached the land of Golden Rod,
Afar I see it wave and nod.
But yesterday in fiery street
I heard the tramp of tired feet;
Now on the heart of August noon
Wood waters lapse in rippling tune,
The curtains of the mossy burn
Wear fringes deep of fragrant fern,
The arches of its shinting sluice
Are slender spirals of the spruice,
While far above I see them stir
The lances of the stately fir,
And on the down I see it nod
And beckon me, the Golden Rod.

But yesterday it seemed to me
That I could never turn and flee,
Or ever find that quiet spot
Where greed and gain and noise are not.
Now far away the vexing strife,
The turmoil sed men misname life.
Now here I wait till sunset dyes
Steal through the azure of the skies,
And soaring hill and circling plain
Flush radiant with their rosy, stain.

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wait till twilight, brooding deep, Takes earth within her arms asleep, And only low half-tones are heard: The flutter of the dreaming bird, The brooklet's rune below the pine; Low-leaping trout that spring and shine; The squirrel's rustle by the road, The farm-horse bearing home his load; The patter of the dropping burr, Grasshoppers in their holes astir; The cricket and the catydid Calling, in leafy houses bid; The bleat of lambs upon the hill, The cow-boy calling, keen and shrill, The cow-bells' answering, tinkling trill-The murmurs of a world at peace That stir and thrill and softly cease.

O, peaceful realm of Golden Rod!
O, kingdom of the clovery sod!
Thy tiny people of the ground
Do reign devoid of jarring sound.
Thy murnuring nations of the air
Fulfill their fate, all free of care;
They carry into God's good plan
None of the loud ado of man.

A correspondent of the Dakota Farmer, after having tried "turf," coal, wood, and sun-flowers, has settled upon the last named as the cheapest and best fuel for treeless Dakota. He says: "I grow one acre of them every year. and have plenty of fuel for one stove the whole year round, and use some in the other stove erest of the empire held a eard bordered w year found, and use some in the other stove besides. I plant them in hills the same as corn (only three seeds to the hill), and cultivate the same as corn. I cut them when the leader or top flower is ripe, and let them lay on the ground two or three days. In that time I cut off all the seed-heads, which are put into an open shed seed-neads, which are put into an open shed but little from another, the place always being with a floor in it, the same as a corn-crib. The the large park of the temporary palace, and stalks are then hauled home and packed in a the flowers being always such miracles of the common shed with a good roof on it. If gardener's art that no comparisons can l out at the right time, the stalks when dry are as hard as oak, and make a good hot fire, while the seed-heads with the seeds in, make a better fire than the best hard coal. The seed being now complex yas the yashie to grade as the place and whiled through them to the the seed heads with the seeds in, make a better fire than the best hard coal. The seed being now complex yas the yashie of a great data. very rich in oil, will burn better and longer, bushel for bushel, than hard coal. The sun- rial household moved to this yashiki until flower is very hard on land. The ground select- new palace could be built. Necessary add nower is very mard on land. The ground selection of the property of the land of the property of the land of the la in the interior of Russia and Tartary, where the winters are more severe than here in Dakota, We walked at least a half mile through the the sunflowers are, and have been for centuries gardens to reach the imperial tents, with p

Digitized by Hunt Institute past, the only kind of fuel used.

The Use of Sunflowers.

This plant is a vigorous grower and has been extrolled as a preventive of malaria diseases, also for horses. It is said that there is no kind of feed that will keep horses in health, give them sleek appearance and make them lively and spired life and anomalog. It is partially a precious dowers, and curtains of red brocade ling half a pint night and norming. It is partially a proposed to the proposed by the proposed life and beads, after the seed is worked out, also make the proposed proposed life and beads, after the seed is worked out, also make the proposed life and the propo heads, after the seed is worked out, also make good inaterial for fires, and are especially con-venient in summer, when a quick fire is desired roulent is anomer, when a quick fire is desired and an enduring heat is not wanted. In their growth they make a showy appearance about a growth they make a showy appearance about they make a showy appearance about the short of the sundown of the poles. We have seen thom started in that way this season, and as they grow the leaves are removed, thus forming an excellent stalk for the mains to be seen. The roots must tax the feed fing capacity of the soil quite heavily.

Helianthus selected by it to restablishe discret the sun heries was willing. B. is then. Sunfo at marts is now Promote, why a not Seturns to put it of a nots was Cliftia, a beaut uppied in love withochest to seeking the promoved To I of Rholes, and of great on holy be distorn return his love; ing i was I. The 3 towns or here pel or be be sets

The name look short she tunned owner persone" stowner, he OUG in at Complet Pholes, super shifted rates to B, says "the fix of this of the leaded the to the sum, bec in being beings its risk heated a softened on the rectified him is muse mostly incline there may ?

FINE JAPANESE CHRYSANTHEMUMS.

The Mikade at a Chrysonthemum Party b the Park of the Palace.

Tokto, Nov. 9.—The chrysanthemums in the palace grounds having reached their per esterday their auturn garden party. The is itations were issued five days in advance, as

ace guests in sear new uniforms standing like states and the standing like set their silvers. It is a standing like set their silvers to the standing like set their silvers and the standing like set the standing like set

Half way from the palace were two long tent filled with superb chrysanthemums, bamb fully opened blossoms spreading out like

By some of that neeromancy by which they do what they wish with growing things, the gardeners keep them all at an even beight, as even spread of stems and flowers, and all the white and the pure golden yellow with which the primeval chrysanthemun began have passed on and been merged into soft ferms, shading into brown and red, into illae and pale blik and bluish pith, into dull red, with the under side of the petals dull orange; into pale preside and about 10 to 1

Rhind 588

of one plant being pure white, and as of amber beads, thickir set as if it were one great snow mound. On another side of the chrysanthemound. On another side of the enrysamine "The Queen of Autumn."

"The Queen of

"The Queen of Autumn."

more in diameter, and exhibiting such wonders and exhibiting such wonders and exhibiting such wonders are such as a considerable. But do not have escaped the notice of the least observant and the such as the su ful colors, shades, and combinations that the to the cultivation of this exquisite flower cancorps at Tokio, shook hands with and received graditude as the chrysanthemum has, which saintations from the other foreign Ministers.

The Empress, who walked alone a few steeps shades, and surpasses the filly in the purity of behind the Empress, were a gown of pearl-the whiteness. In fact, all colors but blue may gray silk, the front in plairs with duchesses has be found in a collection of these flowers, so that laid between each plait, and a full back drapery one does not know which to admire the most, of gold brocade. Bright and warm as the sun the cream while, two yalties, mow white or was, the antum air bad an edge to it, and the the yellow, burf, sulphur, crimson, cherry, care was, the sulum air bad an edge to it, and the the yellow, burf, sulphur, crimson, cherry, care perpetes were a manue of brown stripes bases, man, peace, peace, purpe, scarlet, broine and of shrimp pink estrict thes, and her gloves The cultivation of this flower in Eugland matched the delicate gray tones of her dress, began, we are told, in 1754, the plant baving The Empress stands the change from Japan-been brought over from China, but the loss of see to Parisina dress better than any of the line plant through some accident soon followed asset to Parisina dress better than any of the line plant through some accident soon followed the control of the

the edges of whose flowers are involute and coherent, Icolcing like small tubes; and the anomous flowersd, which have a constitution of the small custom of the constitution of the constitution of the constitution of the constitution of the superh chrysanthemums which our florists cultivate should have come from Chustai, an island on the cast coast of challed love and the constitution of the constitution and close observation of the constitution of the constitution and close observation of the constitution and consti in their cultivation and close observation of their habits of growth, is able to do in the pro- Mello and Josephine De Molines pears, wine duction of new forms of floral beauty. It were apples, walnuts (American) and persimmons. worth the study of years to have produced a flower like the "Mrs. G. Bundle," that splendid white bloom so well known to most of our readers, or the "Mrs. Haliburton," with its Mr. J. T. C. Clark, presented the society with the Mrs. Haliburton, with its Mr. J. T. C. Clark, presented the society with forces slightly quilled, beautifully incurved, and its deep bloom of a primrose-white color, or the "James Saiter" with its rose-link, curied with "Mrs. Haliburton," and the present the color, and the said of the "American Color of the "James Saiter" with its rose-link, curied florets, the admiration of all frequenters of the

The Japanese variety of this flower is of a much later introduction than the Chinese, and, to our mind, not half so lovely, though the present fashion has decreed that it should prove more attractive to the general public. The first specimens which were sent to England struck everybody by their oddity; some were spotted and striped; others were fantisti-cally formed and called dragons, while one was an exquisitely fringed white bloom, looking more like a Japanese pink than a chrysanthe-mum. The petals of one were like long, thick hairs of a red color, tipped with yellow, like the fringe of a shawl, while others were remarking. The distinctive attraction of the Japanese sorts is claimed by the growers to be their speaks of sceing the memory are the second s addition to their large size, peculiarity of form fuller than be had ever before seen. It, too, was or strangeness of color, that they bloom later and remain longer in bloom than the Chinese recently a two horse wagon load delivered at kinds, so that it is possible to have their flowers one of our hotels.

We sail said that the bloom this year was exup to almost midwinter. For decorative purposes they are invaluable, and this is, perhaps, one of the reasons why they are being cultivated more and more by our florists. Chrysan-themom exhibitions are as popular abroad and more by new York and Philadelphia as are the spring and summer rose shows, while our three pring and summer rose shows, while our American growers of the plant are not excelled by their foreign brethren in quality of blooms, while our provided that the chrysanthemour can be a provided to the success.

Mr. Clark remarked that the chrysanthemour can be a controlled to the success. lowever it may be as to the quantity,

It ignover of the chry anthemum. Any one who and he hoped that more attention would be has a small conservatory, or even a large, well, has a small conservatory, or even a large, well, has a small conservatory, or even a large, well, has a small conservatory or the flower plant to it.

By the definition of the color and seem of the flower, he certainly did out-of-doors during the summer and moved in the side after the bads are tipped with color and before the sharp frost can fouch them. After that, with ordinary care, they will do well and that, with ordinary care, they will do well and prove a source of great delight when other flowers are fined and gone. The growing of this had read of some with flowers six inches in flower, in its improved forms, has really but diameter, but he would be salished if he could just begun in the comotry, yet a great degree of get flowers occhird that six occurs the salished of the could be grown success has been reached.

Chapenspermen bands all in Irolanzia They needed shade and all the rain possible and could not be kept in the house under glass a proven is upplied on a live one day a 175 a.

Cheys suring segences, CON MAISTA Che book Say the rays of the sun. week, by lider, the our owns the Foulteney late not the Al of there as not the or hites - little in helion

A TALK ABOUT CHRYSANTHEMUMS The Discussions of the Horticultural Society-Rare Plants from China.

A regular meeting of the District of Columbia Hortfeultural society was held at German hall, 11th, near F street, Wednesday evening; Mr. John Saul president, and Mr. W. J. Cogan sectary. There were on the tables, from Dr. W. Lee White, plates of Lawrence, Baronne De

Dr. Basil Norris, U. S. A., (second vice presigarden seeds. These vegetables were regarded with much curiosity, most of them being unlike anything ever seen here before; lut there being no Chinaman present little could be learned of their quality or uses.

learned of their quality or uses.

Votes of thanks were passed to Dr. Norris for
this exhibit, and to Dr. White for his truits.

Col. S. T. Sult, of Suitland, Md. Dr. D. J. Hussey, of Fairfax county, Va., and Mr. James
Beall, of Uniontown, D. C., were, on the recommendation of Dr. White, elacted members. Mr. Clark offered a resolution, which was adopted, expressing sympathy with Mrs. Mary Quinor, one of the oldest members, who is

Mr. Saul, referring to the Clinton grape exhibited at the preceding meeting by Dr. White, said that it had a tuberous root, and came from Cochin, China. It dies down to the root and puts out again in the apring, but this climate was rather too cold for it. He had, however, endless diversity of form and color. One writer had some success with it by taking up the roots

however it may be as to the quantity.

It is not necessary, however, that one should be a protossional florist in order to be a successto ligrower of the chrys anthemum. Any one who and the hoped that more attention would be

to produce flowers of six inches; that it was a native of the Andes, the climate being humid. He would recommend the use of slats to break

Mr. Clark said that he had noticed that when Mr. Clark said that he had noticed that when he died off his eyelomers, he lost many and was troubled with the black ants, but having logotten to dry them off last year he now found them doing well. He had lost but few and had no trouble with the ants.

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TERUSALBUL ARTICHOS. Hekasetus tuberosus, weter Brazink Swets 7. Abind 283 De 42

ARTICHORE Cynara scolymus; flor ester in Calon.
Khind p 305-6 The Jerusalem A, sac under Sundr Skeat p 35 who traces it only to be acticioeco en articholte.
De p 92-94; concludes it is nowberse wild; or is by calo it Cardons,

CARDOON Cypaca cardusaculus; leatotoko esten. Rhind g 306

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TANSE Tanacerum rulgaris Rhind 204

COSTMARY, ALE, COST, Costus of Mary, Balsamita vulgaris, Rhind 193

CHAMENILE, L'y 1706 Ellac 35 Ship p 144, 24 Rhind 526

Ly proy

ELECAMPANE, Inula beleasum

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EVENTRUM, BONESET, THOROUGH-WORT.

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CALIUNA salist, outparis the common HEATHER, "estiment, and by fallers SALAXIS Safet. & dgons. Its tough tres are the com not of wah be booms are only fire are pectry grateful ERICA I, inclo Evanthe ratio, Seether the Bearing Alyre, ration thermany bearing Areans points, In the wilde of the corresponds there is no modical of for E, antone, one that slexipharmie tobecs" Ly, IIN & is the name it bears in soften, a name for in Not Englishe atten gaus, Brigheroun (orgination); some read Ling, Heath, boron Euras, ve, to Longt ve, in Penne ! was but a superstitions and " lig. Elec 89-91 Shape, Peopl, Klind 606 Digitized by Hunt Institute for Botanical Documentation

MENZIESIA Smith Boganthus and, Phylloding Sally, Cardolles Jamy Brootty, West.

ANDROMEDA Le fritoc Politelle et Barty Lypois et Rachous, Baumaunie DC, Chamsedophne Burty Lenchia Des Cassiphose Robb, Maria DC, Pickis Dos. Muly so Amg.

A polifolis will in bots, NEw, NEws, social narretic; fotal to sheep in Eur; much est tongothe Ova-exil of barbalists at Randall's Fly, Chaut. Co, NY,

A evaliblis poisons goats in Nepsul: 42 shorts

A Mariana cimilar qual to A poly to 40: 44 by Mar JESSAGE + 008 for was kinest of the his pet is lately process shirest the placeses of the light place or white then sharpen to the title way seeme! " of pine into ! lips, more about anniely will Against the processing the eggs of the eggs of the end of the eggs A, to Javanese used to go a vy volat bento oil of rypodo dag und in seemsatics

the stages. Porter says the honey and frit is stely points. "Ditford rays" is a cone for the ground or toe-itch," who says it is also Ku as Moorwort a Wicke; the last is her com n for or Legumes,

CIFTERALL, the Cuellaria of Ries of Per, Pinus of L. Volkameria, R. Br. Junia, Adamson.

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F. P. J. A. The Memocylon of Merbell, raid of his to the loc flows to who kindly Nature gave the Playing proving in the sunny days of their lit group, Herreynthe continues Whittiers pren his incres that they intoled a little from at astrugues stage from the owest broath of this confect wanted thereis

Park Besjamin Three comest when spring her countd weares And there hidest theyself a thid deid stream leaves; Where the game grass lifes its tonder blade, The home & the certine place is made; And in the spet of the lovery birth Unseen, thou bleemest .-

Fricest grandst louely From the world apart Male far beauty only, Veiled from Netwer beart, With sich unconscious price as maken to diverso of are (Jillano)

MENHathaway of Daunton

Our way shop the selds wererk, Climbe & broken tona & looseved walls And assessed the shallow stiding brook, We reached the nills beneath value best

The river flows with accepter sound, And uneventer cardianted port Kuch with our bocco to the forund,

For those orbe once with later eroad And cometes, undiscerning egros, May dee powirth empty hands

Nor and this treasur where it lies. We boushed the colleged lower gross, Odremnants of a cores out years And showled with ecotatic gloe

The fleroce is here! the floroce is hore!" WH aitors in Paterral Days

'Pill at bot the owest Aubutus Nostling close on Natural transcy Felt a thinky a consum pulsation House it sone its dreamy next, Throwing wide its little protots

Town the conference of show lato a valley white below.

"An I deesning? Shall the coincer Stille & freeze my cooky broath? Nay Hack, I bear the blue-bird singing, Syring has come be answereth .

Mr frost flower, in they protte youder Coystal surgem, white & cleans They reign must cease when I mothen; Farewell sale blam they forte discurrences Blezu Winter is thine, Love Springtime is mine!

PERNETTIA Gaudiob ARBCOTUS Torumet, the Unede of a Kaptapas Diagnoside, STRAMESKE TREE, Rhind 530, 606 Winds the 24 special are res that of wine wind is conserving in the security A Andrachne of to horsinly quals, to A. U.

GAULITHERIA L. the Quetiera, Kalm, Glycyphylla, Roly Amphicalyx, Blum, Ko.

ENKLAMPHUS Low, the Melidera Soliab.

ARCHOSTAPHIAS solves, the Vouteri of Downey, Mairania of Neckus, A. Washest, I've used by Now had to wive to the con in property of hy U.

COMAROSTAPHTIAS, Zucc.

Rhododendrose; septicidal; scaly buds 16 cores

ANALEA Is, the Isis deuria less, Chamacistus aray, Chamaeledra Linch Mint 606.
A pratice, halas this was that all princed the 1000 acts grows when the is no tilevely effects of house, or the the less than tax. When well lusted deletering effects of that there was the destering a charactering of that there was the destering a charactering.

At the brilen wordledge the frage describe Herry, with que pour on Arid Anales by Dora Read Closedolog in who the the brilen wordledge and Little light replay bash Save the play booking in That the destile he would be store above! "A ridden presence this the alexen word, I seem to have always a ridden presence this the alexen word, I seem to word wordless grade the three seems and the save an

for Botanical Documentation

OSMOTHATINUS DO

KAINTA I stream the boundary of the princip but the place the could be to be interested to the place of the p

K. augustibella, L., Clayen souly pte to George, 1920, rended "an cylinion is pressent that this op it prty impurious a shoothy writing still Medium. Thecuse or probab, Raf that "a few deeper is a suffernited". Aspect of the used a wark to real last or come entire parallels on dogs them. Let exide a set to make the file, note it small back to begin a mental freeze or begin from the proportion of the suffernite in the symptometry. I are duration "thereof.

| RHODOLHAMBUS Keidels the Adolesators & Noch, Chamseoloug Pas, Ledans Midel, | |
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| RHCDCEA | |
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| RHOVERDRON is trasportant before the second | for Botanical Documentation |
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MONTROPACIENT populates on comes of pines & types flor in toward splear occur 1: Sq-5 Eq-5 Stp-10 4-5 Stier to soel objet, succeedent, 00,45 collect at trace 1 at apres pro 5 4 Seeds + Sound to Pyroles by dehis cause of nother; the curious In Eur As, Kitmin cod of cap his woods. 6 8,10 19.

Schuringitais HIV, the Monorapois of Leberchoits

Pteraspora Auce. Man had use ad truss ft, and No bees their white bells seek,

Hypopithy ? Dill, the Orebarchoides of Mount,

M. Hippopithys, prooder of in Geogra to sheep who

nate; racemes or scopes, people to perceitt; \$42, Stic, alt

Affairer or Dienses, Ly. All Chillian Frances, Car, Juices to be beld in Chilias crolly & sedato Tetilla DC, called CULANTHILLO & TETA DE CAPRA; acde to F

PYROLACKE 50 20m. berbs, rovely undershouts; princeto sugle occle a declinate styles. In Fing NAME, NAME,

Cladotharanus Burg, C briticonis is concto link to En Chimaphila Purch. Coursbellata mit acto diuvetic; applied to slim act as aft resignaturies

Consculate , son An de say is oblig inect; and who palliate in > smy narrotice. But Rurch ways is active; bence Wood & Backe this same

BY MARY E. ATKINSON.

THE woods are wet with dew, It hangs upon the leaves in glittowing

And see, the damp dead oak-leaves pushing through,

A group of flowers appears.

Flowers cold and deathly pale,

No flush upon their alabaster cheek; They feel no sun nor bend to any gale,

They do not smile and glow, Or wave green leaves upon the summer

Their bended heads are still and white as snow.

And exquisitely fair,

They seem not real, live flowers,

But phantoms of last summer's lilybells-

Pale ghosts, revisiting the forest-bowers, Haunting the lonely dells.

Where are the leaves that played High over them in fresh and breezy air, The green delight of that last summer's shade?

Behold them lying there,

Brown, dark, decaying fast; And these wan spirit-blossoms chilly

Where those dead leaves were scattered by the blast

And trampled by the snow.

Do you wild-roses thrill And shudder, think you, when they see their white

And ghostly faces, and with inward chill Turn to the sun's warm light?

Rather, they bend and say, With love and pity: "Ah! dear souls of flowers,

Ye bloomed so fair your fleeting summer

Come ye and look on ours!

"And if ye come to call Us where our heaven, the rainbow, spans the skies.

Joyous we seek, while rosy petals fall, The Flower's Paradise!"

Shortia Dorre Ge.

A good many years ago the doctor was stilling in Parls, and in a herbarium there across a small, broken and imperfect specimarked simply "From America," which is ested him much. From the fragments be him he reconstructed the whole plan work was approved by the botanists about and he named the little plant Shortia Go plant could be found. Years passed on had never been seen. At last a botanist at in Japan found and named a plant

anists.

Romance of a Little Flower

But twenty years after this, as Dr. Good and Prof. Watson were one day in the Ilbra Popola Torond, the Benypathalmun of Elmoy from the herbarium and rushed to find by the leading on act at the res the the last face of the parcine"; Gray waving a small plant about in the wilde drive? Takis orvine (ESB, in oblige our scaped of proces & bed of "Look at it! What is it?" he cried. in English should by Tribupy the deboytety to ther Window Their in

and choose; to got use of the expelle; take they ment want this water discussed plant.

seemed to be of a genus closely allied to Shortia. Dr. Gray corresponded with the benist and it was concluded that the doctor is

Where Could seeb the coldsele beight o'er told of Whitespeep A. The specimen had been sent by a house in t A Stindent be we being a parular apple to store Danling on as medicinal heros. It had been brought in i A plantage of the state of the

in scure Colyalober of Pollin: not anstant, AL, FA AS to Rotpman, to be Bla B.

Galax by the Beyduchiza Al Chick, Sulenandria, Palin Blandfordia, Andry Viticella Wich. Bolvodera, Bond

A SERVINGE ETHERESTERACH TRANSPORT PER AGATE LINE, EACH INSERTION. OF ADVERTISING, Shortia Dor. o. Get. MONTROPACEE promittee on cross of piace stages; steems tro or about; sooly; (voo; Sevalz distant, in a epical. five in toward splease me or! Sq-5 Pq-5 Stp-10 9-5 Stig towned they succulent, 00,45 colled at tase, 1 at exerge 5 poplated placeater. Capsule dry, localised Seeds +. Sept to Pyrothe by dehis come of nothers; the curcious tree scaly leathers Ryrda aphyla comments then In Eug As, Kamin cod of con Fire voorde. and small of Villets or Pools. 6 9,10 00. Schweisitais EV, the Monorepois of Schweinits Ptersapora ruce. Nan linds are ed to use ft, andromaden as enthelminite a displacation. Hypopulay: Dill, the Ocebanichoides of Mounts Monotropa, Nette M. Hyporithys, prooder of in Gergen to sheep other atthet by carely, Popola Pourod, the Beyophtaalmun of ElMeyor, Salmon the Dop bertalit my it was called? by the faction, on act it the no the the los & Bus of the post time"; Gray, "town some familed was in believe which driver," Tobig Orion (ESB, in thing suche count of present bet of end, I Winterproper praymy to I would the to Eggs as, sight of Johnson we of the goods to der Windows Digo The Windows Port his the left Charlestocks; M. ou like it for figures the program where the pair on you con make the first in the last to he for the form of the last the form of the last to be the control of the cont nate; racemes on sages; retals to persoitt; E42 St 16, ale ones radiots; C stig 1 Wed Seedst Affinited to Dimana, Lie. All Chillian X Simtest be les teing & prouber applicate stres "Darlingerape strong strip plaster for any plaster for any of it Examon, Car, Juices of to be held in Chilias crolly & sedeta Riot dyes black, boder, com sone Eng peasantly, the soin tous origine him part of titial. Tetilla DC, colled CULANTAULLO & TETA DE CARRA; orde to Poppie, If other are very solvinger to reside to E. Mipties, word, hed by My soph to P rotunt by N, 1876, "com and Phile the rode of NJ col, rot, buy indus Works dirgs in by ontight being lader, the math outs, advance, peests all morely of in leagth to stames on because between colors. When send over published; season acceptly triquetions, made convolute stigned a mondate, I love a son discourse published; season acceptly triquetions, made an analysis stigned a mondate, I love a son discourse published; season acceptly triquetions, made an analysis of the season acceptance of the season acceptan PPROTEACAR 50 20mg, berberemely understants; ed maked stems; simple, on tice or worked log; the I or intermed excesses; So Con to Co Seeds minute. Differ to Bricais than I not; postiles govery there that that are the present for, Son wars of I not also be die low. Son bots that work, dillow minuterryle seeds & declinate styles. In Engranz, MAsis, in Pin woods &c, in scarce Colyaboter of Pelly; not austant, AL. 18 to Botpora, W. to Ma B. Cladethamonus Bung, C barticones is concto link to Exico, Chimaghila Purch, C. unobellate not acto diuxetic; out trace props, Lux see bitter meetilate Conscillate som Am der say is orbide insect; at to be polliate in atrangury general with the alleviate the arder wines sone narrotic. But Ruch sage it active; bence Wood & Backe the same quals as County, Galax L. the Brythoorling of William, Sylenandria, Palice Blandfordis, Andr., Viticella Wich. Belooders, Brond F. PACKLEMONE 30 3, 326 op, should be send trees; tre salt, cartine, weather.
Blow what a group's soldern thue, in spilled or to rund razunes, not; Soft of Cool

Diff of Hearth's chilly in author being toolled to out logicity; in we have oft endogen-the veins; in stone one adhers conide a conide. In these of diluded, outcombine, installation or the etem.

All in Americal years or faction arriving with the artificials about Couldy to the for 2 would whe consecuted to the form of the surplus of t

Astrolome humituano Parmarrian Cranterry to all over that citray; for you a could, mater ally red, as the consum; crackey of a vivid or flower pay include a lape seeds grove simply on the trafference of the ple, who was Juniper, it bears beaut search has in winter.

Stypbolis adscendens a sml prostrate shoul, res prec in appea

Lieucogopea Bidei, Native Curraist, lovge derise strut, only no coast, 4-7° type; besides and, other, of body flower. In D'Entrecament's vog in coards of baloverise, i Fr wall mod Riche von the 3 don't coar having had clothy on these bearies, whence specify name.

Lieranthe Ker, Pracophyllus, Cab, Re. Cornelis, Rec Exicotes, Rose, Rosels Soviet.

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HUMINACSIE, hu 2 cells anthous or lemonstrans connector, tweez or should no baleanic juice, trapitus,

APPANDRACOE, Edd on a sy of A tod on Amagon by Sprice, afece

RUTACSK, twees or strubs, beneseeds, 47 g, 100 sp. Sq. 5 L, 5 m o, 2 teg, 2 to 2 t C g Bold ober bitter, Bin S. Burds, rave in trapical cover another shi in equisized Any resin there (Cash is no in a state Picema.

Ruta, CommanBUE of the commangingue, such deduction, and refer is no consist Picema.

Bloc the hands of who gether it the 2 gres store, produce exprise, a decreas gustales who assepted to raised hand.

Bloc 2023 Ships & Khind 1929

GENTIADACEA 60g 450 pp. constited by fuscion 1789; bender, mostly, about twing.

The placed in trut. S5 B5StyC2 Seeds +

See Ling 16 63 for gent rembla

Gentians rower, the Vermuster of Sana Cyanea of Son. Crelartha, Book, Asterias, Ren, Dany cophala, Books, 150 respicting Mobile.

Salucea turness are at the cora securit of the drupts, by, a pure xinterial billy, heels to exillarly yet whole, com on Alps, prin as time, intercluses bond, w nausea x a limb of intext, Rhind 524 Charling to the army which discount is of they white surend evaluate force presely in his army. Many all y awares

a compession com or hearth whills of my pt of Buy.

G. Colesbaci, doints

Q. Kurros in Hieralogas do, Q. punctata monther to

G. pannonica, " "

G. purpuced 1 10 " 11 Rhind 525

Received to have be superestly belied to bedroyed virtue bee its less are in from at a cross; I of the 1600 years as to luideoperates it. Or substitutes for a difference Circuide hypospital a cross soil. Apachicae Chicayra in Himstograps Evythness Centauchum, Chlora perpetata, Listarchus op Tachicay Sathalia sy. Controled sy to

G. Andrewei Gelesbach, C. LOTED GENDIAN high by Mechany novely opens; bed in moviet god, NB e law to Sadar, S to tope to. Mechan results constructed or edges go workers bed of them open go a november, the product of the state of the state

G. civinita FRINGED GENTIAN; also Jadum, "Fice bringer day, The gentian operade them not in sunsydays,"

Frozert water beautiful and for a give gold a code bitter out around fielly equal to Gentian. Whom to this side to be encir's catarde. Roots to be impeted into Five an a proof Calanda in ranged in compete an and Amelakrator.

Menganthesteristicis, a com topyte BUCK BRAN (quasi Rach on Bech in Brook Boan, light 3 loshets, shaped the best lost,) is intensely bitter. This over of most od in trice; large dieses prod comitting, x' poply getal displaces. It is occase in intermittent exemittent ferous, yout, he greate coughts, thouse, drysy, savny, ecornie, Witherier says it may be used as a subject for hors in inter bear. Brind 505

Villargia Vac also Mymphocourhe of Robb; Vinymphirdes not the Menyauther; but weaker,

1 1 1 1 1 2 2 2 By Hunt Institute for Botanical Documentation

Erythropa Roon the tauther of Reichant, E. Centeurhun, Continuing, a besut lite will ple copied by by

Chippina, C. Centaurium, CENTAURS, Rhind 525; see Contaured in Compaine,

Centremed a Chick FARTONIA Mintent, the Andrewsia of Spring, Containin Pors

Holenia Bookh to Totogonasthus

Obolavia

Oxhdia Ro, the Monobothrium, Hochis

Stallura Jury. Chieronia (Method Miles) Orphium Prog. (Februardia Utal) Brazallidura lassic, Lapethorani, Vigoria al (Humbolde, Med. Igolom Prog. Ixarenia, Indue). Giornalia Mana (Hippocochumena John) Chieral (Xarethom thad brazil (Humilia Mediallura) Bustines fielda (Hapocochumena John).

PINK FAM.

CARRUPHYLLACEE Jury 1789, Sileneze, DC, 1824,

stems woulden at its, lus opp, endre, At connate, 54.5 PAt, et 2 dio, two 25 Ovarige stalled on a synghetic Seeds + Albuman mesty Free central placents. Incomple Diff to Purslanes in symmetrical Ars; or Gerspiels in thee central placents.

Natives prin at temp & frigid pts of the world, there as mito; bedges, rooks, waste places. We the tropics om are on high claims a minatracts, alm also reache to the eternal more, on thisits of on on our exclusely. Some Site made wide scattered, Humbeldt hind: Co mit 1/22 of the fleg ples of Fig 1/27 Cher, 1/17 hapl, 1/22 NAm. G. 53, 30 1055 Remell for insigidity. Dicurthus alighnis one handom; port mese weeds

SAGINA 4 the Alsinella of Dill, Phalve of Dumny

BOFFONIA Sawas. the Butonia of L.

QUERIA Lift, type of Queriacese, DC, 1828.

RIFODALSINE Gay ALISINE Wahlant; see growyms by p 497; mg thom Isammophila, Fensl,

TRIPLATEIA Perel ine Hymonella of MAS HONKENPA Ebrb, the Holianthur Fries, Hallia, Dumm, Ammoralia, Desv.

ARENARIA L. con no Bayonine

HOLOSTEUM / con no Sagnine

STELLARIA L con un Saponerioine

CERACTION Lyry old g name to respons , born, alludge to breadle scedule or born arely rige, the ane breatic. Conserved to had by the as Field Menser air Chichanel ; spike of idean Johns it wites chosen fire " the lam in surmised by had it ign competentation But write blessons of the word be prouge beatle the pathone street, in a president of from Dankhis capt is une fil alming as energy of peoptings is other report their is in sim at a green us, size as a tal. Cultisanist of Chilian alfus, Catomaterium of Grantas, C. E'che cerim to Kin more, C. Mary Wim to Og my closely relocks 22 are cult in partieus; Carrense blooms 2 who couler by end of The state of the party of the p

VELEZIA

G. P.P.S. OP. HILA I; G. Struthium is smoothat acrid; con Saponino, while in its note, ken as the Eggeptan Scarroot

VACCARIA Medik. Vivulgaris 'ed to incr the milk of cover fed to it; coas. Saperine; seeds d'unotic

SAPORTARIA L., the Romin North, Pertriologue, Soney manthe Ferral. Has been used in syghilis, SOAP WORL BOUNCAVE BEES, Poismous; con, Sarmine,

SILENE & the Ruplings of Otther's on anen, Alieny tikes in starton, estimation and viscous is order as it you had rought birtime". nutans can at least as much Sagonine as Sagonaria; but bore diffused the whole plant out the seed.

S. to flat a con & aproving . Ce Parvin "The foll Silene a ber sisters foir, Skilled in destructor, opered the vitine; must."

S. Virginical decoots of rest is so to be traused in Nom as authorized; FIRE PINK of Gray was profiger. Lit vireid,

. Otites, litter, arthingent, be to used in droppy,

3. Vingining and by Machina as Vingen GrebAy; sp in to Clayer al Va sendy in the total buella simile & below to Will Myor Wis. S. stellars Alian; bet kn or Curubalus stellater, for stellate orberte upr login to, Nottellyone and Ca output There; S. inters was Court Schen threatforth by this year could be interested to hate shaded colder a C-mass "any tad tree of overed" in any more of the second by locky the honey ordernally the seed. CANTION; to being a hold-wood, from the comprision a builterhold the in being used in chapters wish crantines in poll general the create thick; " since writer buy a things may be at this torn was which is used by section has held gordina with forthrough; home Grand hypering for dispris a lamp " Mechany who his this go I of let An other a separating partent, was in by a Mowather 1636, stiene Wild can - Go, ID to Indian - ty,

DIANTHUS L, the Caryophyllum Eodl. Saponine is fd (chily in roots, less in his not est all in the fles 9 seeds) in D. Caryenhyllus, D. casius, D. carthudanorum, D. proliferus,

Carnatina. D. Carrey bythe ; coas Elakas, 2 chrs, Bizarre, 3 not chrosingh spare, Platers protection Ellec 35 Ship, Bhind 583

Your carmine flakes of bloom to-night

The blue north summer over it

Hermit antiphoual hermit calls

Coblink a large P intermed betwo pink & wicotee, Rhind

or Botanical Documentation

Pink D. hortensis

British Pink D, deltoides

Ellegier Shup 2 Rhind 585

Pheasant-eige Einle, surd to be derived & Diplumarium.

AGROSTEMBIAL the Richard Dock CORN-COCKLE Shown to be potroused by Molarcet & Miller and but who swrite to their contra supraine. Say mine were only in roots, orules a seeds. Ship & Ellacas

UE BELIMA Hochsh LYCHNIE Mouroch CROWTLOWER of Shiper (Eller, 51) RAGGED ROBIN and in Eng. In divice con Sugarine; as to In chalcedonica, & Res-cucall. L. divice & L. chal. are sugaracous.

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CUCUBALUS Prescot. C. Behen con Saymine

ACANTHOPHELLUM CAM

SCLERANTHACKE; constituted 1821 by Link; Lg. 14 sp; small in waspic berts; diff for Illerets, by absect perals r stipules; Lig this than, rather, perippans Chengods. In Barren Gelde, Bus, As, NAm; in sterile pli in Shemi boyd the tropics; I so in from "All uninteresting weeds of no knuse,"

Habrozia Forel, and Guilleminia HBK and Daniaxum Korot, (Ditora, Banks).

ILLECEBRACEE: constituted 1777 in Cat. Garden of Paris, as Hermineice, as Illecoberry, 1210; by RiBcoma; as Parenychiese, by St Hilloine, 1815; made an order by Lindley, as KNOEWORDS.

Howbs or half-showing; his sessile, coative, att fascided; scanious atjudes; minute these or scanious bracks; So Pr St. Cy Seeds tool. Dioted to Carpopa by stipules; br. Europeas by position of the stames bet the sepole net before the petals; for Housdecks by no discrete carpels; often agree in babit; Spergulovia is link to Links. 240,100 80

Sof Bur a Not Af one the bome; there group in most barren de covere on the vege will whis in capable of smytheelse. A few at Cape a H, NAm & Mex bace sol. Only sensible property is a

trace of astringency,

Herniaria Thurset

Illecotroum Bearing, I. Pannaychia was could by Sibiliary to be published of Eligocrates, at and muly of gles of and

the most listerer, it his Addition in the section of the Richest as becoming a fee time formers dispersion.

This against a fact, (the Anagolis of the Richest Hypercolog & found, ITT to a training an and Anagolis as go comedy for Paragolista Just, (the Anagolis of the Richest Hiller contributes on the training and the section of the Anagolis of the Richest Hiller contributes on the training and the section of the section of the Anagolis of th . AS, Praka recon nemero a principenta properties of the comment.

She appropriety from an entire to be desired to be the comment of the comm

Ortegia Liff. (the Ortega of DC, Juncaria of Clus) Admicia Mart

Degmaria Willd.

Stipulicias, schilly and Polycarpeg hiffer, and Polycarpes, Low, and Pollichia Suland and Levethingia, 6, Spergularia Pers, the Lepigraum, Fries, Stipularia, How, Delile, Dumort, Balardia, Combess,

Spergulagh, S. arvensis, SPURRER, and cultd as food for sheep.

PURCULACACE & so constit Just, 1789; succedent, berts or shouls; lus entire, alt, l'etipules; oft to brushles of hair in sells. Eles replacement, expands only in bre suc, \$2 Pg Sevariable C. Not easily diet for links excly the separal 2 from the pay firs in one because increasing, the succedence was increasid. Alw in dry, parched play esp at Cot Gd H & Shon; 1 op in Guinea, 2 in Austr, lin Eun one elecuteren Deus qualities are insigidity, want of smell, dull promitolisse. 120,181 sp. 491.

Poetulacaria lorg (Haralez, Salist) Anacampsenos L (Telephiasteum Dill, Rulingia, Bhen. Avoria, & May) Grahamia Gill (Keranthuz Mierz) Mente conmia Fenel, Mentia Stine (Alzinoides Valli) Taliagniz 1609 Talinum Adam (Phemen anthus, Rat. Talinachum, DC, Talinellum, PC, Eutoman, Sat). P. pateux in Bengil is of a significe qualities to the close, PA 100 by diagram; it is, Androphical force a local. The Scandidor mass for one of the Androphical and Proceedings of the Control of

of Perchant. - A botanist has attempted to esti-Portulaca, Poura, (Meridiana, L., Merida, Neds, Lamia, Vo. P. oleroces L. PURSLANE, the avdsarry of the Girls; the antiques a per-back, a in solads, in set of its cooling a specie con

steeped in wine, to be an emmenagogue,

Claytonia I. (Limnia, I.); the tuberous root of C. tuberosa 8.000; common thistle, 65,366; cham-C. perfoliata in NAm. has similar qualities to Purstane.

mate the number of seeds found upon a single specimen of some of the most obnoxious weeds of this country. For shepard's purse he makes the number 37,500 per plant; dandelion, 12,108 wild pepper grass, 18,400; wheat thief omile, 15,920; butter weed, 8,587; rag weed, 4,336; common purslane 388,800

CHASSULACRIE, HOUSE-LEERS. So countit by DC, 1801; but by Just, as Sempondiae 1989, and by Vents as Succeedentiae, 1989; the Sedeon of Syconomic

Superstant, bests or shows; 'we eating (originateld). Ortifules. First in express, settle, $S_{3-20}P_{d}$, S_{eq} in two C_{d} in P_{0} suggests that and althoughes we Sandrigue then Sententine, a worlder-left film Allinon. Both these rotate last that happened so soles (these I at twee of endricancy P_{0}). Determine we list so extentions of lists.

Ly gate them in Violat; his greate results on the nations, p. 345.

Distribut, see Ly, p. 345.

28 g. 450 og; esp at ColdH, who DC fd out if 272 he known 183 or proving at ColdH.

Tilles Mich. [Bulliarda DC]

Crasada How, (Petrogetta, Saxedijes, Tetraphylo, Purgotta, Lyrgotes, Gamara, of authors). Citetrapone, heatige boiled in mill, used it Cold High dysentery.

Boches M. Cyrtopyne, DC Pietreinia, pc Processula Gris Aithales jweb. Brypphyllum salet, B. calyconum is that a outnerary.

Kalanchee brasiliensis smorte from an exen to the goal acrid a stimulate means of recless, but not to door relief erones, the Brazilion was it so.

Cotyledon DC

Unstilicus DC, (Cotyle, DC, Cotylephyllum, link, Rosularia, DC ve)

Echeveria, DC (Lachyrhytum KI)

Sedum & (Rhadialah, Amaranya sera , Towand ace agai, engra,
5. se charakteriana, the antigar to perion, the laste & repline, at his contact estable with a caption of the services of the serv

S. acke, wassed for its seridity; a vubefacious contic apusposive.

S. Kosea, an esculente its log amp Graldes.

3. describblions his of in hel, rube supports that a cerem cure for commis in bases.

Sempervioum I. (Jovidarda PC: Monardae, DC. Chemidium PC: Alcheyem, Evalum, Gramovia fetrophys, of Wake).

S. glutinorum file Shirido, fideran of Maleira rathocasts or its Subdue, by one they are conducted as durable as if
tannes, provided they are absorped in some challent liquor.

Setectation, HOUSBLESH; made acid init combot to hime; exhibs also contractly the circular phenoms of satures reading reads larve register. Adodullars copy a sound structure, My p. 345.

PRIMROSES

Constit as Lysimochia 1789 by Juss; Primulacese, 17899, Vont.

Herbs, and or perens, Ive radical Ortifules fire umbelled scapes, S5.P5.Stg C1 . Pyxis

Diff to dieg to Andiriada, a woody town who are drugacous; who atom oppose petals, Belenship held by thy on Nightabades and Diagramiads: ha parts L in Constructed & 660.

Impree, not, 29 g, 26 cp. chary as pretty step of impree in assume in case of the.

Supercurse or 5 apper man Leagles due to supercurse of other 5 who are alternate [and who are first and other or on a supercurse or supercurse of other step of the supercurse of other step of the supercurse of other supercurses. In supercurs, in Supercurs, Institute of the supercurse of

are at fast in on outer circle); atill the baccon, in Samulus, Lyrimschie citate, pepride.

Con, in Ne older yt; in marches belges proves, by time a rivulets, even any the more of cloud-

cond in the colour gro, in massing, nearly proper, by this knowlets, even amortic rapport of cloud conditions; uncons amortic place, & these usually in sea three or summits of lefty-bills.

Culture, as beaut bired culture, there exall scapthers who are not highly prised, both as acct of the bet but medert lights, the earliest hundingers of ope, & slooter sake of the bear, "hig.

DOUGLASIA Ly, fel by the travbe D, blusmy vold cov or source, on the Rocky Kitos of Araa,

ANDROSACE Tourset (Andraspis, Duby, Aretia, L.)

MACROSPERINA Duby. GREGORIA Duby (Arctia, to a sudin, Vitaliand, Sessi) DEONYSIA, Fenzi PELLETIERA-CORTUSA/Ligus a to Lifu siliana Cortusales next g. to Pe.

ASTERULINAL bink et Hfs. LUBINIA Link et Deto. COXIA, Endl.

CORIS, Tourif. C., monspelleasis was used in motion of 3p minastic octors as a more efficience valueracy, when dried a reduced to prooder; also be prescribed in symbiles.

DOPECATEBLES A. (Media, Cuterbline is, the HOOLNE STAR access the fact that I a can there the Catalogue interpretation of the catalogue in the

SULDANTILLA Pourant. Sp. are slightly purpotive.

PRIMOLA L. (Auxilde, Endl, Alouritio, Rodl, Augusthus, Linsk)

P. verio, CONSLIP, fire posses od roled sodoto & displanetic properties, & role a pleasant sopocitic voice. Fresh wet has a small res, mise; formerly used as a traic peroise, also as diwetic

Ship 6 Blocks, 53 und Cuches-budy Terrois toky Ship meant the C by C-budy but the Breezens, Bloci 1 3 June 581

P. auricula, AURICULA, Ivo used in Alps as a romedy for courses Khim & 581 500 varieties.

Day's hartinger Come descripted please with her The Movey above only from how from his type the throws The other Courtly atherate pulmarise agreem

Profficinalis PRIMROSE, early called Fragewille when that name ona applied to many oncet act the, Blloc 175-180 Shkyr 8 Rhind 580-1

Her modert locke the cottage might adova, Smort as the Printing perp a beneath the thorn

Tisce orders y Spig here quested Winters And david the soundy blustoner to the fight, Thee on this brank he threw There on the grant he three the formulat is victory. It and a virtory to the White DC(1) offergrings to a definitely had been motive from so definitely had been motive from so definitely had been a definitely for the formulation of the whiteless of the same and a definitely had been a definitely for the whiteless of the whitele

Pielating OKLIP, Shape 2 5/40 148 Rhind 581

Prouleris, PSTPANOPHUS, Rhund 580, cutt of + vars, we scape bearing an umbel, will be Primorese its arc. cob bears its Ars on nos peduncles frame was

Digitized by Hunt Institute for Botanical Documentation

CYCLAMEN Power. Space called SOWBREADS becategy are the fourt find at the will boars in Statly; yet they are my parid ples, ery the crot volus acrimony is not much percurd at the lift table but seen secure interestle. Used medialy; acta, a drastic purpate; formely one much extent as an evenen scopes; whother regula was one of to actual powers or placentitorm post is upe.

Coppersioners, mod archs use the bruised root as a mount to drive the Sepira octavodia tim its bules: roots, ziebs scilly are estable xinnos when dried anaeted, Rhind 590

GLAUX Tournets womkel as Apotalous

N. thyreiters produces on its retals the brown linese eyets it on Addistra, by,

LYSIDIACHIA Minch (Busepale, Nedysia, Bernardina, Alwa, of Boudo, Pallatia Ephemerum, ret) Rom had a per they less to have insuction, and in so the Literacia at the "Windows ort's trail except of with they in the distribution. To the book little in who reported from becalite and information. Pling once summer, was gon to a presistance in which operation its Alechan super bit post aim the hard of in the resolutional. Pling only it for white it we wid on a gold of quarreling ocen in all quiet themed studget out In Wand Hoshor Engle is to doors release from Hary stribe; adopted by Paxton & Munter & all Arm. bot, philologists.

In quadwitdia, I, by a ty Meeting has ceces provocused ; internal acception the distilled water is cometic, it its smake of wes away mosquities": (it describe thatenet as trapallis what want, w dotted we, (& puncteda, Mx) x to having seems, (h, hirsoda, Mx), w lus in 25, 35, or vary for some ple; & petals may be 6 inold of 5, food All to SC; was mich.

In munimisaria, The money wort for seasond in oil destry braces a women infects framovier" Porther,

STEIRCNEMA Raf.

Digitized by Hunt Institute

ANA GALLIS Towner

A. avoracis (& A. narriles) MOUNTON of the Eg had seputa in cases of moders by our ejetic per; Or 612 to 2 dos to 3 deschars of expect, wh informed the naturals member of planish; arenier did time. Used in opilapsy & dropsy.

HOPTONIA L (Seratiotes, Vail)

SAMOLUS Yours, (Spotheldia, Fort) Common in Auguralia S. Valcenne i a lieuce

PLUMBACINACEA, is plan Irinaroses by hig; llg, 231 pp. largely & Medit sak-marshos, & Alloban, & Russia. Start of MARK IN KNOWN AN I Consecution Town of the North in the start of the person of the start of the star

Principle Micros Lidgerity R. Layland a. Ad fo Carpen to Redicison. Reserve is used by largest to rose along in the desiration of the holder on the holder over the desiration of the holder over the model of the holder over the holder over

VIOLETS

Constit as Violoriese, DC, 1803, Juss, Mixe; as Violacene, Ly, 1829.

Herbror shrubs. Lus simple, salt, stipulate, involute in bud. Ss P5 Sta C,

Sepols persistent, impricate in bud, usually chapte at base

Petals hope, wither, thinly canodute in rud Stamens on a hyper dick, at uners. Bathers close carrowy, bursts haved, cohering as sepet , 2 calld

Filaments dilated, lengthened by dthe anthons; Z in the imples, appended at trace

Overy + sected (varely 1) to 3 perietal placentes top the 3 vater sepate.

Relus; RockRoses, (Cistocea) diff in indef stamens; Sundaws by O stip, + styles, discipate lys; Passing flowers by adjacre of patris to tube of rally & the lattle of every. w Russifloracea, Frankeniacea, & 6 ton towns, dirty by parietal glacentie to be Hypograms Forms; to only allies he adde (tody) the confessedly deful fams trassular, Pamarie, mycingar.

imptee; a no of medent uses but print value for beauty & associa to thet,

Districta; & subredece; Alsodese are in SAm & Afc, ere Pentalo to ba Lour, while of Malayan Flores. Violene chily Bur Sit, Am; few may in Asla, there in troples, Many in sam, there

being may shouts, whil in the N, beebs.

Nos, 11g. 300 sp; +40. Properties, roots emetic, SAm strongly so, Eur smooth less; bence they from part of the bents in as Inccacuanha

VICLA L. (Experien DC, Macmion, Spach, Cittaronium, Rolls, Hybanthus, Jacq, Solea, Street, Pigea F. Eller Passey, 151 (bks 3)

TUNIDIUM Vent (Soles , Pombalia Vand)

L. paroidocum a cos, called COCORUNCHULL in love, are cillent purpostud semetics; by a pre reported care of the disease old Cocobay in James Mal de Shararo in Sylva, the Elephanties is when cutared The top spora as subtle too specialistic (the true to the over it the except Cophibilis Ipecacuanha, of Braz damp freezes, of Cinchenacese)

I. Pozya used by Braz. as substitut ly, the RUARA

I. Itubu Kunch, PEASA de ERAM, POASA BRANCA, stood come and as there is; vy me it in props; at Burners buce that the oy best remedy apt dysentery; inhabs of his Grande del Morte this it a specific apt pout.

NUISETTIA Kunth (Bigelovia, PC, Diolacoides, Michx)

ANCHIETEA 34Hil. (Noisettia, Me 2). A. solutaris, a copp bush, to mal as Calburge a valuence tack, that in Broz

SCHWEIGGERIA Spreng, (Glossanchen / Ma2)

CORYNOSPELIS Maz (Calyperica, Ging.) Provining stem; perds a benny; the link to Passiflere. the singular symmet expresente has he'd Phyly, a 338, of C. Hytouthus.

AMPHIRRHER , Spreng, (Amphirrhage, Rehb, Spathuloria, StHill, Bradleia, Fl. Flum.)

ALSCOEIA Thours, (Alsodes, Mr.Z., Concheria Kunth, Ault, Dripax, Mornh, Physiphore, School, Rianz, Andl. Passonea, Auth, Bienro, Auth, 1 Cevanthera, Palis, Eastalis, solond, Exosthesia, Blum.

Ar (Conserve) 4 (botobo, tvo used in Braz as Spinoch to us; boiled, become mucikyos,

TETRATHYLACIUM, Popp.

PENTALCEA Lour. (Vareca, Roxt)

HYDENANTHERA, A BA

The itized by Hunt Institute

LEONIA RP. (Standelia, Mart)

PARPARRULA axon (Periclistis, Benth)

VIOIAA. Redonie riperthe sides conneces on the steds smeditames the couple in the theoretiche pit break fleas. Vicanina that a period upt occurs side die 1500 its dissipalior life poly declaration in Braz. I so Russ.

V. opata ad to be seen for pattleanh bire. V. hir puta, HAIRY V. Rhind 586

Virtidian braised by read the Beach terroll; sught to one Brussic and brace; once that useful to three shind distribut; at used in it in those cyclist Rhinds 500,7

Vi adopata, petals used as laxate for cla, I decachin operate que tracky, aceda he similar pegas; more emetic, pagas.

Aquesus sineture of the is a world character; uncombined acids chys-the blue trized, a alkalia to fra.

Roman had a wine made of Vilen they are ad to be self used in preparing the Grand Signest's sherbet.

Some this the his an analysis I they certain produces thinkness exhibites in the constitution, as his had wined to Trillen merits a case in whother produced agostery. SWEST VILLEST Asked 516

V. podessesses the total Viol Call to 10 hours. I first secretical age to Alemand Lock & Secretic proving his a problem values come rouse behalf the polytanes tensed to the firm contact meanly years of pormula! Play large or Violation, form contact, a cape poster from the house to meanth, stress hear, how years, or year, consultating

VIOLETS

Antitioney, have traile Roms oft an entire the Viclet tog, we the Rose & Lily, as an own ament to the garden & the person. Vano, beh the tall of the Reput advised those having land near Rome to plant V and woses as a probable speculation, a name of the best season for doing so; Heliogolalus had his palacenooms conjeted with violets, among other florous.

Origin in culting was from Allianc; it as a gordon flower & in its impole from; Gr. Pay originally viaz; I, viola dattless from it; honce coloclusa that its cultivative canno from Asia to Ore, there to It;

However uses 102 in describing the roadwars security rand Colfest's care, there it gains in moist meadows with the parsley i bad congrany that it breas; but even here it means any darkitedarid strong, thether scental or not i Helm. He uses 102 also in descriptive affective, is cides, is dropped, io-cis, but a reference to dark offer, not receive. When later, the variegated lightedwed videt was distinguished from the dark the light generally carent both the filly flow of Marthiele means, it the reality over Cheire authors chief.

Priorite song Horroy with the poets over since there were of it as he had seen it way a thing in the far often by my mid "of the Meles. "To why appeared With whether it has a time to they make the whole of the whole of the whole of the transfer and altiple."

NOISETTIA Kum

ANCHIETEA SHH SCHWEIGGERI

CORYNOSTYLIS the singular spunces

AMPHIRRHOX /

ALSODEIA Tho Passouca, Mitt, Ri Ar (Combacia)

TETRATIFICACI

PENTALGEA LOW HYDCEN'ANTERRA ...

NECKIA Krebla LEONIA RATE

VIOLA, Seedpile

Viopata sd to be V. hirmita, HAIRY V

ekin disin Bur; sel u Rhind 5897

V. odorata, petal Aqueous tineture of the Roman had a wine m Some the the firs and ments a case in whit

V. pedunculation brn contres, 2 upr ye

He kisped the child a called thin by his sw

In the grass before him kneeling Saco His Thursthe villets carted ambition, And & Carried violety sa a rollen " Corried in

The of Ald woods where facely the vielet

Al March; we know threate Kind besite And out of sight, act mossing April's viol Villets sting Achitus wakes, Claytoni Arryal road, on seals et sold. Rolins call edins the sad showers; The orbit April oceans noblithase among pay; Whope like a c And Faury to violets, faintly specet Presented the April 16, '88. - Marie Le Baron.

The ever it brapased but it to less in time, The Violet sweet burget And reliter name in minutes were met away. Dogide A single tillet transplant, The strangthing along the size All total

Scores had the winter crosed to shed 3 Thy rd The reser that from upon his face, When from I found thee in they bed, While the Diet al the parity corse. MATTER the sturies is the opening ray Ax 640 sparting eyes with disducts bight What sames night has passed away Hope

Goddoes not sendus strange howers every year; U The same dear Hings lift up the same fair to 4 It all comes bady the odor grace, the; Kach sweet reli Vicarios that ago He danked lete, no looking for is cheated; It is So other the death-white it must be; God will no

The Adding shall look out from the address.

HUMILITY.

BY J. WILSON WARD, JR.

THE violet bows its lowly head And bends its pliant form, While overhead high-towering oaks Defy the embattled storm.

The tempest o'er, while shattered oaks Their desolations mourn, The violet lifts its smiling face, Without a petal torn!

The boisterons winds, that sway the trees Touch with the lightest touches these That are but shaped for dreams;

And grasses cross, like sabers bright,

From careless human trend.

Ah, frail, pure flowers! the angels know They malt with love the winter snow To greet thee with glad kiss:

And human hearts are blessed by thee. Thou harbingers of Spring, Born from a year's sweet mystery-God's floral offering!

Her hands are cold; her face is white; No more her pulses come and go; Her eyes are shut to life and light: Fold the white vesture, snow on snow, But lay her where the violets blow.

But not beneath a graven stone, To plend for tears with allen eyes; A slender cross of wood alone Shall say that here a maiden lies, In peace, beneath the peaceful skies,

And gray old trees of kugest limb Shall wheel their circling shadow round, To make the scorching sunlight dim That drinks the greenness from the ground, And drop the dead leaves on her mound.

When o'er their boughs the squirrels run, And through their leaves the robins call, and ripening in the autumn's sun The acorns and the chestnats fall, Doubt not that she will heed them all.

For her the morning choir shall sing Its matins from the branches high; And every minstrel voice of spring That thrills beneath the April sky. Shall greet her with its carliest cry.

At last the rootlets of the trees Shall find the prison where she lies, And bear the buried dust they seize In leaves and blossoms to the skies; So may the soul that warmed it rise

If any, bern of kindlier blood, Should ask: What malden sleeps below? Say only this: A lender bud, That tried to blossom in the snow, Lies withered where the violets blow

or Botanical Documentation









(Germany), near Hamburgh.







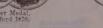












For many years I have cultivated this lovely flower which, on account of its endless variety and the charming shades of its colors, is generally prized as one of the endless variety and the charming shades of its colors, is generally prized as one of the most beautiful flowers and is a great favorite with many people.

By the most careful selection and treatment of those plants which are set aside for seed-bearing, every Variety is being constantly improved, and beautiful Novelties

are produced every season.

are produced every season.

The extraordinary perfection of my flowers is attested by the highest prizes which were awarded to me at all the great Exhibitions held at Hamburgh, Berlin, Vienna, Paris, St. Petersburgh, Antwerp, Bremen, Stuttgart, Cologn, Erford, Dresslen, Leipsie, Prague, Stettin, Breslaw, Frankfort on the Main, Lubeck, Kiel, Cassel, Hannover, Lüneburg etc., so that since 1869 I have received 85 first prizes for the beauty of my Pausies, among these at Berlin 1885 the Royal Prussian State's Medal, at Hamburg 1886 a silver goblet, at Paris 1887 the Silver Medal, at Hamburg 1887 the Gold Medal and at Cologn 1888 the Gold Medal of his Majesty Emperor William I.

| Pansy 8 | Seeds. |
|--|---|
| Those marked with * are adapted for | carpet bedding and arabesques. |
| Brown with gold bronze. Black with gold bronze. Black with violet. Dark Fine sorts. "Dr. Fanst, jetblack. Five-spotted on white ground. Five-spotted on yellow ground. Five-spotted on red ground. Five-spotted mixed. Large-spotted mixed. Large-spotted on white ground. Large-spotted on white ground. Large-spotted on willow ground. Large-spotted on red ground. "Large-spotted white. Large-spotted white. Large-spotted white. Large-spotted white with blue edge. "Large-spotted white with blue edge. "Large-spotted will with blue edge. "Large-spotted white with blue edge. "Large-spotted will mixed. "Large-spotted white with blue edge. "Large-spotted will mixed. "Large-spotted will mixed. "Emperor William, ultramarine blue. "Purple wiolet shaded. "Purple violet shaded. "Purple violet. Rosa lillae. Striped on lilae ground. | Striped mixed. Bronze. Bronze with yellow centre. Velvet brown. Havanna brown. Havanna brown with yellow centre. "Deep yellow. "Pale yellow. "Pale yellow. "Snow-white. "White. "White. "White spotted with violet. Silver-seam. Purple with yellow edge (fiery[colored). Purple with white edge. "Purple-mantle. Marbied, dark. Marbied, white ground (White edge). Marbied, yellow ground (Gold edge). Marbied, yellow ground (Gold edge). Marbied, yellow ground (Gold edge). Marbied, Jellow ground (Gold edge). Marbied, Jellow ground (Gold edge). Marbied colored. |
| Each sort separately: Per ounce (30 Grammes | |
| An assortment of 40 Fine sorts of each 1 ph " " " 30 " " " " 1 " " " 20 " " " " 1 " " " 10 " " " " 1 | 0 |
| A mixture of all sorts (Nearly all these produce of the pound of the produce of the pound of th | of Sample flowers. nly the finest flowers.) nes) 240 Marks = Doll. 60,00. 15 > = |

Per 1000 seeds . 10 Marks = Doll. 2,50. The prices are quoted in Dollars and cents or Marks and S. (1 Dollar = 4 Mark,

1 Mark = 100 A.)

Amateurs of Pansies are kindly invited to visit my establishment and inspect

Amateurs of Pansies are kindly fliving to Visit my establishme the cultivation of these plants.

Lily of the Valley, Novemb. and Decemb. delivery, 1000 strong Pips incl. Emb. 63/4 Doll. = 27 Marks.

Ordres are only attended to on receipt of cash.

Lüneburg (Germany), 1889.



German Pansies. H. Wrede, Lüneburg (Germany), near Hamburgh.

NUISETTIA A They put in his hands on his bosom some Pansics and Goldenred, And lassed bim, proping settly, a lote bim alone with acd. Thegrande him a grave in the garden whore the Pausice bud & How " ANCHIETEA 8 And she funder roben she sees them that they are her baby's eyes, E E Rexhard SCHWEIGGE the singular spur AMPHIRRHOX Passouca, Aut, 1 Ar (Commercia Color of Flus - Pansy Swastyr. Elid cabo of elet popular TETRATIFECAL Und who exid is a large of compact cells PENTALORA L " this last age of my of only cells we conspice HYDENANTHERA interelle spaces itized by Hunt Institute for Botanica Documentation LEONIA RE. C. Where cho is violet, due to yellow (on may be almany do in diff (it of flo) VIOLA, Second Vicanina that as Who pidle yel and com fle colors V. ovata sd to b V. hirmuta, HAIRY V. tridar; bruis skin disin Bur; sel Rhind 589,7 Vi odorata, pet Aqueous tineture of B Roman had a wine , Some this the Ars an ments a case in wh V. pedunculation ben contres, 2 uge y

NOISETTIA K

ANCHIETEA S Lyugaro & remain a SCHWEIGGE

CORYNOSTEL the singular sym

AMPHIRRHOX

ALSODEIA DI Passonica, Mutt, 1 Ar (Conductio

TETRATIFICA

PENTALGEA L

MECKIE Kutte

tized by Hunt Institute f

PAVPAVROITA

VIOLA. Scotes

Viovata sd to 1

V. trieder; truis skin disin Buc; set Rhind 580,7

V. adopata, pot Aqueous tinewo of t Roman had a wine Some this the Ara an ments a case in wh

Where cons mone to

From Irene E. Jerome's "A Bursch of Violetz"

Look as us, said the vislets,

All last winter we stort in seeming death, as your dead are sleeping now, but at the right time God awakened us, and bere we we to combine your E.R.Roe

Once more full foliage express the Spring, s by been rapic spell. The shadows dark are channed away which vie my spirit fell. I been here low voice as she halls the Violets on here breast, Or constribe Philetones shroing hair upon the hillings creet? I know her hants in glade after, for when here breatypass Springs up in Eden brokeness, the wadiance of the grass. Bach tree she knowless broken track hunts into testy slames. And the desort-truming bush, and spresence there proclams.

Hack you the east wind piping, creeping Comes a voice all clamators with despair; It is April, croping, some and everying On the child earth or brown and base.

1 Botal my relections are transderible ntation

Bloom and odor from the fragrant over?

Thus she plaineth Then ten million voices. Ting inconverses like the doops of vain, Raised in song as when the owned rejoices, Ring the survey We are here again."

"We were hiding, April; did you miss us?
None of us were really gone sway.
Store the pretty head and gently kiss us
Once before we all come not to play."

Little points of green push out to greet been Little excepts grass her greenents been; Hidden sweetnesses grove even expecter, As she bends and brightly smiles at them.

Every test is answered by a blossma,
Every sigh with songs and laughter blest,
Apple bloms upon the breezes tuss there,
April knows heneva and is contour.

Susan Coolidge.

NOISETTIA K

ANCHIETEA &

CORYNOSTYL the singular syur

AMPHIRRHOX

Passonura, Mutt, 1 Ar (Conserve)

TETRATIFICA

PENTALORA L.
HYMENANTHERI
NECKTA Kriste

LEGNIA RE.

VIOLA. Seedes V. canina that a

V. ovata sd to)

V. tolder; beni skin dirin Buc; sel Rhind 5897

V. adopata, per Aqueeus tinetum of the Romans had a wine Some this the Ars ar ments a case in wh

Where conscious to

The villet gleoms thro the older surbeams, And whispers, Crose look the me kers

in the beautiful spring of the poor,

O rounders of God! O Branceans & Good!

We feel that they presence is here.

That they sudible voice is abroad in this round,

In the bountiful spring of the year, And we know that our Fother is been Jan P. Fleds,

Violets violets, sweet April violets, Sure as the Spring comes, they'll constro First the volute a then the blue - Beetty Violets, White with just a pinky dye; Blue as little baby's eye;— So like Violets

Springing up among the press, Saying, Pluck me, as one pass, - Scented violets.

Dineh Mulock Craik

It seems a consecrated thing, This early blossom of the spring ... A grace of soil within it lives, A charm too deep to understand,

Icerse E Jevans

A daintiness about these early florous to the A daintiness about these early florous p.
That trucks he flike protegr. They bloro
With such a simple loveliness during.
The common herbs of parture a breathe out
Their lives so most truswiply like hearts

Take of my violets! I found them where

Whose beatings are confentle for this world

I have found violets. April both come on; And the cool vinds feel soften, & the win. Falls in the beaded drops of summer time; For may bear birds at marring and at ever a

Amumus like the bearseness of the sea Tells the sclease of maters, and the earth Sends up a pleasant smell, and the dry leaves three lifted by the gessa: and so I know That Nature with her delicate ear, hash heard. The droppings of the velvet fort of Spring.

ArP. Willis,

Leaf hidden violets! Tragrant young violets!

Meadows and brooks have been lonesome for you!

Thro Winter's darkness, sweet-hearted violets,

Have you been dreaming of housen's own blue!

Is April stril, more shrevish than tender?

Still you smile on in your violet way,

Roses are writing tune's passion and aplender.

But you are like true-love this cold roiny day;

I found a sty little violet root

Hatt hid in the roods, on a day in Spring;
And a bird flew over and looked at it too
And for joy as belooked, began to sing I recent, terme.

The sky was the tendenest blue above, And the flower like a bit of the ricy above belove, - And between them the randerful winds of God On heavenly expands went to and so.

Arony from the Summer, and not of the on the The bird had followed an instinct true
As out from the boron and devolate sod
Stopped the stop floraum with eyes of blue.

The limit south value for the transfer of the state of th

Valle the Spring and be bent over her, Lerior Chandler Montan.

What will the vislets be;
There in the Spring of Springs?
What will the bird-sing be
Where the very tree-brigh sings?
What will the Easter be,
Where never are dead to mount.

Where never are dead to mourn, And brightly the faces ask O when will they all be burn?

Brighter the Easter shines
On the faces here below.
That our door ones are behind the flowers
Shut in the living flow.

They know the secret novo And by and by shall eve, Hove in the Spring of springs The Violets come to be!

PASSIFLICIACEE; consert by Jues, 1875; 128, 210 sp. -climbers; lvs alt; stipules stillacence, 3g Pg Seg annuallyhous, wantly t.C., styles a males + 33 parietal placentee. Fruit atalked; bacaste Seeds in sulfacentee, we writte sculptured testa soured by pulpy with Cotyledons Asteleaty. Que as termal mature of petalog disch by Luy, p. 332-3.

The gride of Show a WI, which the covoid excelled to the eg, with climb at the tree to tree, except one time first of the rite at the fooding is of a sing, appear that the zooleke who disk them adapted them trades to those invade of the SAM wilding K at in to freight to one of the palater. One of a ext N into NAM. Set in Afore inoon to a few in Ch."

Frair estable; props drovise act wrather dangerous. Rhind 375-6

Paraposia Moonsh . Reduits of Madagoscow, shrub, has easen fuit. Municuja ocellata, Willelimber, ed. to be antheliminte, displacetic x anthyskeis. Smeachineminghot.

Deidamia, Thousa

Dysosmia, pc

Tacomia, Juss (Distephana, Juss, Distephia, valisti) 3 or he bitesters.

Crossostemma, Planch,

Passifora, Jusa, Coranadlle, Murnet, Cieca, Medik, Astephananther, Bury, Morachineirma, Buy, Anthactinia ling?

P. quadrasseudacing for the spec GRANABILLA switzer asses in one has his; rost ensured to produce provedictory moralictory moralictory

P. Kuben tinchuse of Around by industria wines opirite, and n of DUTCHMAN'S LAUDANUM, is used in Jamoice as a rate narotic.

P. luster, 49 to he impe call thits; see uses et evi or, lig p, 393.

Draw to the complete the call this tell by Hunt Institute 1

CRUCIFERS

Coastit by Jussian 1789. Ity calls thous Brassicareae. els them any listales, next at Wildles. Horbs, Ivs ate, Avs yel se orbe, seld pueple; racamed; we bracks. De Per Steps & Co. Fruir a silique or silicle, & celled by talse partiting who remains after odors tall array. It Tetrains.

Reltachip to Papaverse, by the siliquose genera Glancium, Chelidenium

" Europeiac, " Seed structure diffe, " Liy guts it a Cistoceae, C, Reseduceae, Cappacida cocoe.

Imptoe ; its centry the genus Snagis, Murtand, Cabbage, Running, Cauliforne, Secreti, Kale Barry; and many fles of accounts outer

Mos, g-173, sp 1600 Plateitution, Blind VISE

Districts: "aminerally Eur: 166 in Novaid Eur; 178 on the Nichard on icht of Med; 15 pedro to Arcant; 184 to Spria, AM, Daveia, Persia; 99 to Bensia Siberia; 90 to Castly, as to Nota incressor; 20 to Castly, as to Nota incressor; 20, pedro to N, 100 to S bensi: 25, 1821; NAmmunh

Pens, antiscochutic, etimulant, vo scrid flavre. Con + nitrogen, to vok due port the animal oder voken rotting.

MATTIFICIA RBC (Leugum, Minch, Lupecia, Dc, Linaria, DC, Kc) STOCK

unt Institute for Botanical Documentation

PAROLINIA, Webb, Fruit Equied Ly p 352. CHEIRANTHUS REG WALL-ELOWER Mrs Jackson, The Wall Flower of the Awas of Arme in versely O adden-entered, on pused at countled pote And follow wall of emperors and kings, Whose very names are now forgetten things, They standest boxe, in faithfulness to wait The contucies theo; & of the ancient state Keep up the semblance. Never forestop rings Bewose the stones; 2 yet, it sun but Aings One way, a please, like please of burnished place On mailed men, thy hands have lit, & sout Along the way & tottering buttlement, trad Hungout yellow towners, prided world Which need not shame a word honge to spread Ah orleastoinged the words of they does well I cannot bethroug & chore with not tell. Rome, Icaly, May 7, (169.

ICDANTHUS T.G.

NASTURPIUM XRe (Cardamiano, Minch; Cardi-Genelina M. Wetter, se) N. officinale Water-cress Rhind 2009

BARBAREA ABZ B, sugaries, Winter Over & wind 300) bitter subaramate, whole plant so; used as a winter rated in line. well be ferent these com in shady most pla tel fits are to be proble our lin as Pollow Rocket By praces, Smerican Cress, (Rhind 315) colled also Brench Cress (note of Br, annual, we make no vos lle prace use

ARABIS I (Cardaminopsis CAME) A. Chineasis Reeden good prescet by land des as etmaching egently stimulant; improduct we they the bur

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CARDAMINE L

C. pratensis, CUCKOO-FLOWER; dried Ars by ton a popular sensedy for exileyay in ch, Elt of to be stimulant, disphartic, direction. The the Cucker Put of Shiper this bee no we getter but originated; not bis Cuckertorous hour bec, not graving any cora; his, says Ellag ir the Successing; his the name to now in Eye also por to this Moo Colled LADZ-SMOCK; DINK, SPINK, SOG-SPINK, MARELOVER, & in Mortafile, CAMPERBURY BELLS"

The bosey aucide round the porth has worren its wavy boxers, And by the weadow treaches thew the faint proced cuelera flowers And the wild march-marged Shines like his in strongs shallows gray,

DEMIARIA Tourseffer nost; provides had applied it to lot ordinately what the scales of the root resterts , D. bulblers, CORALIRON of the woods of mr S wo d'Ene. Culpeper the quaine old beathfire It is under Mare & it a good vulneracy. Is it recens to ten all leds of fluxes & honor-; help to compelidate wounds & freshold, en the not? Salam, b-, t QuA, "they are dedicto the coxing of wounds."

2 D. Ischaleta, Muhl, 200011- WORD; Muld sent over x regeted some to Willy who so deary 1800. Mr descrit 443 as D, concatenate. Northere side; "hartices for 145 mt lixtim cyns" diverset seed berly; deplarmaly on rests for people. Across antite Nix three most of Atl U.S.

4 D. maxima

& D. beternouylla, these I last "undtilly sun tof in this locality "Couler, sol be liver! Statem remiss this

6 D. diploytha, MIN PEPPERWORT, Frotohira purpt mustand the total just by natural works to Fato Can, insted of woustand, und is of Pa" Prowers of Bot.

LUNARIA L, HONESTE

DRABA L

ALASSUM.

CUCHLIEARIA I. (Armaracla, Rupp, Raphanis, Monch.) SCURUZ-GRASS C. officinalis, once in get repute no antiscorbatic; etimulant a divertic it eaten week; in ext coken dried Rhind 300, 532 C. armoracio , HONER RADIEN, Rhind 300 PC,33-36

TITLASPI Ollen.

ANASTATICA, Goeta. (Hierocontis, Adons). ROSE OF JERICHO, A. Dierochuntina, and, wild in E. deserts; full grue, contracts its rigid loss into a tall, caught & bla by wind; relaxed effectioned on expusince to moisture Superotto tales told of it; it to but let blorosed in Chartons ever; salute the birth if ide Redeemer; paid homoge to his Resur, till Easter by comog exped. Fo. Liy, p 353,

CAKILE Power SEA-KALE; hertage is subdem food

MALCOIMIA REZ

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SISPMBRIUM I. (Sophia, Hall, Alliaria, Adama)

ERYSIMUM L

CAMELINA Comp. C. sativa, actual of PERBASURE; an diplont; its caked tobe too accide has cattle; brownes ace mak the day stalks

LONGPSIDIUM, Reab.

IBBRIDELLA, Boiss,

LIEPIDIUM, KBE, (Cardamon, DG) L. sativum, Abriden Cress Rhind 299 oc 86

ISAPIS 4. I, tipeteria, WOAD, fromly a fav. blue dye in the co, Rhind 4506

SINAPIDENDRON Lowe.

BRASSICA L (B, Mounet, Raps, Towner, Napus, Towner)

Cabbage, Brassica deracea Ellac 24 Sbky Milv! Rhind 295 DC 83

Turnip, Brassica rapa Ellac, 226 MWrs of W, 31 Rhind 492-3-4 DC 36-38

Brasslea Seracea breezes brocki Rhind 208

Brusselsmouts Brassica Revacea subauda var. Rhind 296

Savay Brassica deracea subanda Halad 295

Brassica devaca sabellica, or Borecde, Rhind 2987

Rape Brassica ragus Khind 299

ERUCASTRUM Prest.

rate mever when brited

C. maritimum, SEA KALE, Rhind 299

S. chinensia, saeds that by Hindur & Malham. drs to be remudently etempeling brother,

Blac 122-1 Bullet 15

ALL ABOUT MUSTARD, L'r, Dor Co 1

"Where does mustard come from?" responded a wholesale spice dealer to a Mail and Express. reporter's inquiry. "Most everywhere. It is of two varieties. One is white and the other is black. The first is called English, and the other masquerades under a score of other titles. The English is full of flour, lacks pungency, and is seldom used alone. The other kind contains a large amount of oil, said to average 25 to 30 per cent. The best variety comes from Italy and is known as Trieste. There are many varieties of this kind grown in California, of every shade of quality; also in other States. That known as Kentucky is very pungent."

"Do farmers generally raise it?"

"If they don't it is their own fault. They can. It requires little or no cultivation, but most of it is not worth handling."

"How is it prepared?"

"Usually by compressing the seed to extract ERUCA, Truest, UELLA PC, CILLA, Forth, SAVIGNYAthe oil because the seed is much more easily worked when the oil is out, and because there Change formet. C. Tatare, TARTAR BREAD, e is now a ready market for the oil as sailed oil, it being in many respects equal to the best olive oil. To extract the oil requires very powerful hydraulie pressure, and a suitable HAPLANUS Towners. RAPHANISTRUM, Powers press would cost from \$1500 to \$2000. Large

dealers in the principal cities operate in the switch and sign being whind soo or seed or crude stock and press it and supply the trade with what is know as mustard cake, formed by the process of extracting the oil, and which contains everything except the oil-

the same precisely as linseed cake. After this the pressed seed is separated from the bran to extract the flour. Pure mustard cannot be ground in mills, and unless it is very much adulterated it cannot be ground at all, on account of the oil retained in the cake. The usual process, therefore, is to take say 160 pounds and put a quantity of the broken cake

in a pot of mortar and pound and sift it so as to extract about 50 per cent. The machinery used for pounding the mustard is a simple contrivance, called sometimes a stamp mill. being a battery of pounders ranging in number from two up to sixteen. The process is slow, but very simple. After passing through the pounders the mustard cake-now reduced to the consistency of soft middlings-is transferred to a series of sieves, the fine falling into

a receptacle below. This bolted flour of mus-

tard is strictly pure, and is as pure as it is possible to make it from the stock you have

used, whether it is good or bad.

SENEBIERA Por

SUBULARIA, DC.

CARPARIDACERE constit by Juss, 1789, 28 g, 340 pp.

S4 PA nog St comby a high multiple of 4 C1 Not tetradge; det to Cr also in her seeds renit. Colly in tropic straders; these strucks consular or fleshy fruited, is a pod or buckets of copyrions 1, Cleome videous, in britis; 1, Idontia provellens, to Canada: 1 or 2 of a in S ofts

of becoate, Com Cayer, natvel over Spt. Eug is obbat appropriate tell: Africa + without Brins res Cri, pungent,

Cappacio Le (Cyaopballa, DC, Vterreria, Bort, Ec) CAPER, Flo-bude of this, C. Spinosa of SEWS Co cupertris, Gry C. Fontoneein Barbary, C. Repypeiere in Ep.) are stimulant, antiseconditic, specience, a form a well-in picke. Book of root a wormity dia wife, Rhint 401

C. cynophallophora, amygdaling ferrigines, back of rere blistons lk conthadles, C. Soladay naresticodor; its acrid stimulos finder are used by witness to promote secundity by

C. _ nr rely of prec, FRUTA DE BURRO, hit vy point, fil no Contagone, 5 Am

Crotaeva L. C. syriandra GARLICPEAR, bark of not blisters lk Canthariles.

Crexcels a dd VOVEN POVEN by Maday, who cut plas it 4° trood.

C. Papira brieved tra und in Bragil apt inflam, bark bitter, tonic 10 Nucosta juliar beniss of the world and

> Colico dendron Mart CYeo donsours to unles « horges. Polandia Rat. Pitersandra in US is used as verniture, in tochin (as sinapism, by, P, smon to he purpout taste as mustd,

Cleane, De, (Atalanta, Nut), Rovida, Res, Rovidula Frak) Sun he pungent talle 16 mustd.

CISPACER, constituty Juse, 1783; 98, 183 sp; too after viscid; lus entry the my tupos; volot, yet accord, 53, 27, 32, or at Creek. There Chee in curved embryox x periutal pluration Date modell to Ville. S Eur , N Afr esp; care in NAra, or ia 3 Am, so ka in As, No marked profe,

Cochlaspermum Kunth (Maximilians schie) fet in Ac, Afr. 3 Am; rendell pte; not highly devel of the order; by many por min Theode; C. arraypium, trent ijelds the pun Kitterra in New min used inthat impacantly is include roots, decoch of, eld in Boss. Butua do curvo, used in intl point, in to heal abscesses; xtor cases of amenowhere

Helianthemum Jugare, Front Weed, mone H. was Pseudorlitus of Dan, Croconthemum (pach, me) " ordere race had an repa as vulcerary; now forth.

Lechea 4

Cistus France (Ladarium, Sysch, Rhodocshes, Sysch, Erychnollers Dung, Loderie Sysch, Stephensonfra, Sych) C. Croclous not of yield the regiment tolern eld leadeness; much estand as estimate a community; resemble C. Berthelot lanus, for by Lin p 340.

The exquisite fourtress to be the frame of order by no other than a forest that physical first than the forest that physical first than the forest than the forest that physical first than the forest than th

ERUCASTRUM Prof.

ERUCA, Trung, VELLAR, WILLA, Food, SATIGNEA BY DRUCARIA, Glaster, SCHUMPERAS, MELLICANIA MA CRAMES, Promer. C. Tatarka, WARTAN BEEAD, Ester in Hung, the fire hashing very pooled efficied to eliving a rate or even what brief. C. analysis and 2004-0005, Robot 600

Engitized by Hunt Institute for I

SENERERA Poir

SOBULARUS, DG

CAPPANNACES constit by Juss, (78), 28 g. 340 pp. Honos, checulo or trees.
\$4 PA not strongly a high coultiple of 4 C, Not tetradya; diff to Cro also in two foods reads.
Cody in tropics & broken; there abrush; copsular or fleshing-fruited, is, a pod or backets.

of captulars 1, Clerme violaces, in Enruy; 1, Mounta provedens, to Canada; 1 al des in 3 to.
of baccaste, Crom Caper, naturel most 5 pts Eur, is orbat appromoment the N: Africa + robban
Rouge see Cu.; punjout.

Capparis L. (Capaghalla, DC, Uterrevia, Bort, Ke) CAPBR. The bude of this C. spinesa, of Brus, C. currerrie Go, C. Fortonezi Barbery, C. Buggerinco in Eg.) are stimulant, anti-suchetic, speciere, a form a well-kn picke. Book of root a morning similate, Rhin 131

C. cynophallophera, armygdalina, fernyinca, bark of rort blistons lk Conthades,

Co Shiladay narrock oder its acrid, stimulate fracts are used by vitroen to promote fecundity by

C. no rely of prec, FRUTA DE BURRO, He vy poicne, fel no Contagone, som

Crotaeva L, C. gyriandra GARLICPEAR, bark of not blister Ik Cantholiles.

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Botanica de la contraction

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Polarable Ref. Petersandra in US is used as verneting in locking as simplism, Cy,
Beauch on the pumpent task as mustil.

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There x N 66 eag; come in lithous yeigh in lithous, when in the N convince yeigh;

Coches persuant Kunter (Marindiana Scha) of in Az, Afri San, rendal pt, not highly dend of the relay by many part with Theads; C. G. respectively count, chiefle the pane Kateeray in Northelia used instal of trajecount. C. incipies were accordingly in the last of the pane of the pan

Helianthernum Villane, Trivelived, man (H. was Frenderlins of Dan, Crossathernum Leich, Kr) . newborne, roughlad en vege as subservey into fresh.

echea 4.

Citata Trump, Ladarian, ippi, Ahada cita, ippah, disphaecita Jun) Ladini Japh Sephan cofun tro de Committe Commentaria de Comm

RESEDECEM. conside by DC, 18143; gE, sp. 81. Sole bends, a few exist clouds, at two control or proposely dis; etipoterminate pharalle; receives or spiles; C4 Panc 3 con a disk 9,4 Wholy accepted. From a disk 9,4 Wholy accepted, Various views on Archaeland year. Various views on Archaeland price display. We do it flug no year of heir, Ned basin eadjac is, vy four in Not India, Cad H, Call, West, were manyed as sodatives, hance Resedo. Caroly subsocied.

Ochrodexus Belli Olipemeris Carrison (Resedella, W. o'Elimia, Nut) Helegetestum, Pares. Astrocougus, Necke (Sessmella, Acht, Sessmeides, Thomps) Caylasen, Settil. Rended, I. C. Luzzela, Tromps Erecka, Systh) MIGNONSTERS

Reneda, L. Chureda, Thunfi Eresda, Frich) MIGNOBTES. Remedicenses, Bod Ley & 356

R. Phyleuma, the drierper of the und acks, is entere as a kitchen excelent in God Acchip.

B. Leuteela, WELD, wields a yellow dye

R. odersta, MIGNONETPR, sengthse met fraget of plts Rhind 591

LABLATES

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Belationship: 7 closest to Vectora Faus who diff in undio nutlet;

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Maclina-Permularias, Lacaritulas-Instrumenta

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Econs; quarry are oil as littless beets, for succes, a favor crolled dishes; same exact by review over comes out for beauty, esp \$4.887; teme tunds a what was Compley; teme over astronge; a very few accessable, the methods worth extra verte of. Starky: Colonization, the large Colonization of old conviewed, and an ay related to Dogomena; constructor are cert to be come excell in they. Alim 4.91

PLECTRANTHURY Hority (Germanou from Lood ray School) PATCHOULd belos here we to Colone; sp unc; also called PUCHA PAT : Ele depth in large que de fenanç to staff mattices and a pillower its say smalle be suppleted by othe contagina. Latchauli profume made to it. Rootham mite the pit Patchauly.

COLEUS Louis

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LAUANDOLA L

I. Opica De, FR LADENDER, less traper, are at medical user glelds volume is called Oil of Spitta; while used by painteness on percelain, to in groups of variables for autists.

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These VI Talaga Ethan 1993

MENTHAL, MINT Altro stary; Horis flet be you list larender, Mint, Larender, Mary and Mary starter 1024, DI. viridis, MINT, STRAR-MINT, used as a sauce, & as aromotic Accommunitive, in form of Sycarmint and Sycarmine Water Khind 492

M. piperica PEPERIAM sacre useful sy, an account to stimulant, most pleasure of all the Mij in modern used in very cody so-expl flatua, to cover the uspleast caree of in mode, to return mustace kerfup points of wholem canal.

White is a non-time as a careful momental z in flavor of bloggoges. A bird 4-92.

Blicittara, eil externely kapaur, wronie she alert of cit of leaguest. Mireturdiolly Migapatra, Mi aronie, have sheder quals to the viidle, Mr Religion (PENNSSME Akind 192

HEDEOMA H pulpioides, the lennymyal of Norm hospit popular report as commencyapae.

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M. Celemintha, CALBRIEVE,

LEGIURUS 1

Le Cardiaca

OCENAUTA I O televituguan of Sienalionac, a televituge, BASIL, varis spot O Rhint 193

BRUNELLA Wind & vulgario, SELF-HEAL, a febritupe,

IXCOSTIS 4 In Europeans, a febrituse, also gields and till days by who propries are ad to this the faces

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ORIGANUM O Dictannaus DEPTANY of CRETH, a televilege MANURAM, the w. Majormus congress the genus by asome Educal Statement 493

ROSMANINUS B officinalis, ROSEMANY funciones betthe complete tungstine. Of put regute; a stry decorta of the med to alway beat of this in every , used touch beadance excussion to represent the property and the respective of the property and the respective of the property and the property and the respective of the property and the property of the property of the property and the property of the

STACHES Realis S Betwies, BETERY, we perdeved produce society jacto set to be mechanil, due to the minute stiff bairs to wh covered.

SATUREIA 4 SAPORY, & Saturdia thin It Saverappia Ellac. 216 Shkp 1

HERTIS, Jacq, + sy + sypis, lig p. 661,

S. Mainalis, SAGE, Rhind 192

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PYCNANTHEMOM Bonh (Tullis Leaven)

Ellac. 97; 3 by 1, Othero 13, lago raying "Set Hyssop & weed up Thyme" Klind 527 LOZHANDITUS Bench

COLLINSONIA the growman's love collinson of Long tot in bils of Don But, a Quesker, who is 1762 spect 14 states in concless parts. Had a the further; hetget + man gles esp to White da Farterin. De voug to 3 sept 11, 1736, "the charter of the box is a specime at votent one ports hav dubhad Coffee I this is that sether be Bear comming for I had in the sy or made thee sour me. Willen is mister in made it can a me." Green every algrey. the courts for the rich all foll bettern. In via Call in 1284 a publicate of specials for in 1287, this army shows . To find a public before the latest of the courts of the latest specials for a latest specials for a court of the latest specials for a court of Defend that I am island an a got promotion to the property of the antion may make be file will forward to the semination of the antion may make be file will forward to the file will forward to the semination of the property of the propert is required to the side of specific around The session their features their forms the Sainty W rivel fore for Callins sight Kine the the bown will the analysis and specific around a second and the second around Motor process the strategy below processes, their contents of the process part of course.

But forther experience the interpret contents of the course of the process part of the part of the process of the part of the part

SCOTTEL LARIA L, (Casside, Bunef); liak to Scripbul-by by a curved por strip contrye, 150 op, 1 of larger Ala order, Home-centre US, mr sy beretten suprobrolse; in temp x ald no; a few in motors of Brez force, me in table list of Mex; many in Rusandsia decey in Eur 2 sy only in Eng. Calyx has on its up tobe a had concern apolicy langed, not rober the falls, cluses over mo ut ralyx, proverigeese of seeds; an five op, has its up half instead debiseret, to half persistent; M; so ares ask, object? SKULL-CAP bevieto Bag mane; but in four to Lat not imag a dish, rather; to shape of only , and; to shape of only app appelling; to exolerhield, Le for head, helmet, ESBr

S. Wrightli, AGray, diec by Win Pers; prinos prettily in pardens; axillary in Ar; God by Mechan

DRACOCEPHALUM 4 (Moldavice, Minch; Zeroiado, Ruysch sna Mill)

PEPSOSTEGIA Bouth

I.AMIUM 4, then as type of fam by live,

PEUCRIUM 1. (Chamacdrus, Toward)) P. Polium it so es be petul aun tre As chalena,

THOMUMS. SAGE 2 Bluc 233 Rhind 292

Beplace Latin tropics, there can & in temps Am; became about or even givente timber; berker in odder britishes; rare in NAS, NAma, Bur,

Bone as habs but less, of hie impte wednil or economical,

Callicargo I (Porphyra Lour, Sphood of occum, Mir, Burchardia, Duham, & Shursmis (afert) C. landta tark subarma rolly tie c tare, obcurd by Chaplese when no total lis; Maloys the it diurceio

Stocky taxpheto Vali (Melasanthus, Poh) S jamalionsis the Brog folsely atti proposts. 25 did Bur to Hervins, her souts adult of Charles; a are sold in Angerian dorms and ni of BRACHIAN TEA. Expred fuice of lot is for in Portola as a collepungate to the doze 12 tablesportate. In Fill used in decooks for clysters x 25 duffelminter. It has one promote for promote the monotoned didy, he Biog. its fresh we are applied to ulcows it is then called URGERAD or JARRAD.

Lientana L (Charachera Forthe Commana, Plum) Sol by the amoraticles of fee used in englishative cheum I. pseudo-theo highly estured in Bree is intuition, artes; Settilaire to it my spot; armetic; con all nor CAPITAO to MATTO, or CHA DE PEDESTRE. The labear designeers for esten.

Lippia L (Platrais, Rof Moysis, Ores, Dipterocalyx, Cham)

Incitosta romatic, Marius aps to Page & Chymre Viter L (Malvethis Rett, Limit Paul, xo)

V. Taruma, used in S Broz und n at PARUMA in syphitis

Vitritotla beautry aurit drapes, colled in lad Filbl Burece on WILD PERPER; ws a pull directions

Negurado " " " ja lad a desorta at les apparatie les hely form de novembath et vormen after delivery; trained are apld to temples for boadsche; pillions stuffed writion set jut und the boad to como catanda + headade attnde

V. Agaus-Cartus 4 has sime acrid danger. Seeds that at Emman to be ceren somast cak, it providered a severand over balk an oring aploto the stomach,

Verbena, Rhind 531

Mints Carthing

sed in Ind for

TEAK, Rectiona grandis, in Verbena town, or INDAN OAK, intur dut esce at lad, no timber egle it to shiptide; the ship is new in the wat or cause; atty a the termite on by eg avoid its stone settly dose and ourd, Wild ober which of Brit Ind, in notice of Malabar, in augurat, se. Took forcets to decid by our to are of trac of tre, away out I does not predone, Goot has apth for- particles it ofler; esters to match or it at last; since 1843 milhard plan to vaised to seed in digitally it is per but as slow to seav as our oak, Hartwig. Ahmd 450

diuxetic, lvs grot

'luns, Torrey 2, Spray

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racked close ooss alo 10 25 in 1847,

a chen they blesseit past finst found take thee to the found W. Pennshmaclers, Arch. mitunes are from of it. wis 1778. Sul bots tried pelba, I genus est by s ed. But not as delic man a beautivine light

Distp for Labinte Res Lab, closel Replace Labin in adder britude; Pages as Labs b

This it diurctic

Stachytarphi Diagites fresh lus

Lantana L (CAPITAO 40 MATTI

LippiaL (Plat

after delivery; buti catande y headaube

V. Agnus-C * servered over ball

Verbena, Rhis

Pataproula L. P. oulperaria, IPEBRONCO, Marring rate above inflam.

Conclina L (Original & Amous) Gaparolliona, who water muchens; we to sher, and a Consea Rock (Roscrea, Rock) . C. villors, los buy stop dispostamos, used in had too

Premna L. P. interritolla, was contial & stomathic in documen

Wolliameria Le (Diplaceta, Houst) V. inermie, L. x voo, by tra used in meder out conseq; Ally

Decrera I. TBAK, for me improfender; T. grandis; energe-tree, to decid la, our to unaborts; in facetes t excess pts of Malsber Popula on districts in C1; timber abde in particles of siler; modulin Aria for durability; much the last crause makegony but the x my step. For ship blde it is por bout the best in the world. Wood the only useful pave of it, Noxburgh; but fire directic, les gra a red dye, & Malago we the decection in chilers, and lichen

Clevidendros I. (Apricolsea, Schok, Siphmanthus, L, Ovieda, L, Voldie, Plum, Parrya, Spor Cornacchinia, Savi)

tized by Hunt Institute for Brown and the contract of the

DD, a sacred berty had his little cally used as an amulet a lackfirstory exercises" bankin 1596; Sibtling identification or Rothernalis; But used to to cleanse take used in testivisties in humor freus; hence an dente of the voc to to sweep brush dear, one for kerba, herby Ving, 8th edmentions it

Blue rundy water, but these alters round With fillets, & with Versin sesses the ground".

At feerols it Vegue Victory corpete, be yee, one used to one concepts sinche age Varbone oco; its racked close was also seen in the process of sendy a roal partin of the pit as a NF present to holy, Eft count 7 of 1900 ps in 1847, Emblem of sensitility; hencelos ;

Even Vervain ed cabe to old leve ferface, means of deanger remorg pr. Derbess, in thy pensive grace The emblem of the feeling beart I exace,

English of use for book wounds; when regarders " first they cross the best with hand, I then they blessis Hallowed be they Verwein, Arther pervert in the found, Even the Med Caluscy There there west furthered

Then rested to our swiner Jones about And stranged on bleedy wound; In the want of the & S. el Blove. I take thee & the prince V. Authoris, Anthorist, Led so by Meebong Gull of Mexico Center Ills, Morke, Penerg SW Penny house less, Ack Elec May sure to brast board her for 174 by Al Rivers; vore inutes V bisinarity Volandulora, V mortuna are form of in Name to Analog , the of rave, to Salva Revence, 1225; cell cap in Mouritius; gut Hire of Fr Guillet 1775; & Faris 1779. Sel beet ended to u a geous too line; saguin is this A, tre graved to be a V; Spect need & govern a Source of of Myetsax; Lowerer's de grand Paliana the Christo Phorn; Richards proved Monnievia, of Rutaice; Schwebers on Apolta, 2 geous est by dester blasselle, But that, bring two a beaut fire may source for him a set produce from the extrapenus ed. But not as delle we will ar the Brun on motors gently cult "Wild Verbeud of Cal is Abronia umbellata Lam, a beautivine light povenden

MEORORACE E vert Verbonac- in Answalls; shrubs; 98, 42 sp; res Verbonse, exc for mice diff in 6.4. Bois manters the AVICENNIASISHOCE trees by the Mangroves in selt extrangs, to copy worts at 60 to med against bet stickpints it, have a single agre; as also the naked Aganque the orchers they throw zer.

Arizonia towerter, WHITE MANGROTE of Braz, the pretty used in Ric in toug; exceed a grow aromatic rain wh turnishes a miscrable had to Wilder voto calls it Manawa. Acata water ble its saline muches ins port is an approdicio. Tracipo seedo used in India dor profices; pipe, they are boiled resiten by poo

Mygroun & S, Boatis Plum (a penus obequired bas) rose No sec in Hanains; rest of fan in Aush or trop

SELAGINACEA, con Vs as CGd Have; diff in the localed anothers; 10,0, 120 sp; books a and anounce; at he Hebenstratiz dentite st to be securtless in many stry swelly at mid of sweet in ever Globularia L (Abotaria Atous, Alyoun Thurs) Eur or chity in Syllight Halo,

G. Algran is a bitter destic purposes nice sayd to be the Albrer of Dissocides, chera called Exutex teeribile; but the A had the orrespect as exteriously was theretyeld some Euplandially.

Ger ruleacis, similar quals; brekemetic,

agmosphy s. All, a Stberist repus.

BORAGINACE E consist 1789, July , 54, 80 683; prin of S. Buy Leront & wind Asia; Less Nived, alm O in temples. Yush to be 22 in Nam, while Sicily has 35.

Seen ed veryptosicy; by st; (deposition) I when pede; stam 5; they not labore one Rebinary or othered to make Proper site, unicitying emillion; some description thereof in her od to be to covere wither,

Posses True B officinalis are arther of beverage in white les are stocked, while the bas down of Cucamber a Burnet; there is said exhibitor qualitical caused & to be reclied sing the 4 condid his, all to Alkaner, Reses & The Lets, may justly be souted, "hy. Once there a pecural wed; a decerta it is les maked in honey with a send prima Its ye lus mil a pickle in mesteem.

Anchura & (Englishin Rara) Activororis, ALMANET; vest yalds the doe, a redt ben relate, also the in Elium return, Onoma echicides, bithooperment throwing strebuse in hier that to be a pedr chees prin apprehense resine Rhind 513

"Prichodesmy Nor, sythot directio; one of the cures for maker tites in Ind. Cynopherum L, Cofficinale manay innanotic; wasco bitterish, Held a bar step sounted oil.

Symphytum ! COMPRES , 3 rollings, once that a vulnerary; it path well tender, the live we exist othere to Synage, a the of shorts Hundred by being forced to prove these bears of earth (see exten the Agreept; be invest power patied by person at rebard take. Restrate in muciliage; are successible to an activingency, by,

Oxyghalodee, Prura, Allama, Zausch (Bartirtiga, Link Arachia, Firsk (Menephria Erth) Motivia, Lehm.

Morton sie Roch (Hippeplossum, Harrin)

Bordaniosyermum Bunga Laydegela 4

FORGET-ME-NOT; name to Pa gon to Polem, reptaus; DC to Blusta; The fle wh has a fly as bot as non Renvian Legit, of an unpel cohe falls in live to a fair girt seem And look as delicate as suffert satin, seated on the tank of a R," twing in hor getten hair arrays of a could Called the Finen but kn as well blue By that green luxuriantly no the margin,"

By 20 names I count stop to tell!

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E.HRR TIACEL, covering so by Martins, 1828, a view by ling; The Color Color, Endlichalles, 1140225? Degrisst there observe words; diff to Box- in the & suce becay conducted. Note Not 450

Brecha, L. E. trixitalia, west in had tax hafeful in cacheria & spekills. Some Bo teased like druges, Powerspheria Rose (Littoria, Kull). P. unsbellets, los in Mexused to ally inflame 25 a levelige, Providicus Lohn, (Heliophytum, DC, Scholera, Scop) 1. indicus used " " to desire ulare; arthront

Heliotropium, In H. Europeum wowere formerly used as Travidium If leavoisnum, HELWOTBOYE, to lever & delicionidos

SCRIPHILARIACEM, country land 1989; 176, on 1814; disty for hat by healed orany, orderessed, their is lab, could be, could be.

Directs, adde in all yes, to added to they give, I bering bed at Meled Id; so bottesse; case in Europe day, in distance, so the second the second address of the dat Finger.

Roys sould, bitterich suspected.

Mich by permise their Sulfiglians home to Stanacen; Celsia, Verbaseum turing cross city licks?
Miled to Ordandiseum by Stripe, core if not all its of being parasitial, a two budness hydrabalenie, while there

" Leganization by thibes Mitranomica a Philliam
" Leganization (41th & his mile, and here control planning)

is Bigoconter— (is the allowed weds to real or

" Pedalise (" glacement new perletal ins")

11 to Commercial Con ...

When he rigins of thighly insist places I gluene the bids I to figure of the; on emolla copyly they std aport & even alle runned trebs when suched they obliges suddenly a in an torce.

Schoonkin 4 has clavate glands groups for edge of petalit soyals, a are the real conde, stone opp to them.

Scrophularia

S aquarica kperb & nodora, los exerts are purpato y emetic

Calecolacia Fault om as eneric & juegato; cooks of C. aradonided are hegly will in Chili and a of RELEGY to drying willow about winners, Thin 4593

Digitalis 4. D. purguera, ochecleura, leolyata, tensignina en brothe ensellen serid qual so intense as to be danger. Perodeced has ne the expect, produce vorning, dejectry verilge, mer rativa euring, brothe rulige se even courte dans. Rhind 554

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Vector occur. I V'Chapan of mixim approach Digitalis in quals; seeds used by practices to prison fish; for service of V. Ingelentis ones used to Kinder

Minardus L. M. guttetus, We exten as soled (Uvedalia, Br. Erythranche, Spoth) M. Jamesli, To a. hed by Malani & Radiots.

M. nagriculus, MISE FLANS; genus M. bek is use in Exploració, hylomachique sigitaled; Miny telle et a Minnoralus "a vy tra

Toccins 1. It solution, juice of his thoram Maletar want a cute for governors. Superior 4. Solution, juice of his thoram used in Sy Am by finds to come against in Day! afternorthists.

Buphrasia 4. Both institut of the bitter a eventing Kranishfeld used for once in catambet intermotions is the intermotion of th

Melanograms L. Me protence covered to food of it; Le 1245 bere expellences toller is and

Pedicularis 4 Speacoid; eaten by grate; my all Hachen in doing.

Botanical Documentation

teride her grown

in current diabete

Gray

C. L. Mars Doc 8-

to by Wan Clarabel in belia; everyou about 24 ar ba a cap a botto col; or now eye, the topped the true truetage of me Rio bet its high pits are.

Francisces Mr. F. marthres, the Albert's Evalue, a sex one to the loge root; at one cal in except the hymphotic system. Located in rightle, beare called by Borry & Berchilo Will Tale; that he is the hardest set nauteonisty stay regard as a parater, martin current again, along the continue, in continue of the continue

SCRUTTULARIDETE, consistly has 1981; 176, op 1814; disty to hat by hickled very, thatean;

perin bh. coulds.

District, able in allyty to collect viding step I being to at Metal Id; to hat east; com his work by, had fingles
Roys accid, bittered, suspected,

Middly prevaint the Messale flows of D dat Ringes
Roys accid, bittered, suspected,

Middly prevaint the Sulpjania from to Sitanacea; Celaia, Venebareeus trong consacts licks:

Middly prevaint these Sulpjania from to Sitanacea;

Middly prevaint the Sulpjania from to Sitanacea;

Middly prevaint the Sulpjania from to Sitanacea;

I be accidentatione. In Holding, control is with being approximately a time Budancea hydrobadenic, which likes

I be accidentatione. Cally by write, are restend planears

I be accidentatione. Cally by a write, are partered in Sitanacea;

I Resalvae.

(I) glaceate are partered in Sitanacea;

Many law retipms of Midplus instity plates, if them the bala, I to have of the; on emella ergdy they std agont a core alternacea bein; when enched they calayee suddenly a co-many for the partered took; when enched they calayee suddenly a co-many for the same of the; on emella ergdy they std agont a core alternacea being when enched they calayee suddenly a co-many for the same of the;

Schooling / has clavate glands grang to edge of petalit sepals, & are thereal conde, stone upp to them.

Scropbularia

S aquarica kperb & nodosa, lus krorts are purpaturemetic

Calcolacio Fouill on an emais - en

Digitalis L Produced Wa Rhind 554

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acold binevia

Minatelus M. James M. mosch

Separia A

Bughrosia 4. B otherwater, other bitter a summatic; Kranichteld used to a new in catarrhal luttern of eye ix the inserted in cargoty hearsens, carache a headache to cotarrhal ditte.

Melanggeness. Me pratone covered to food of it; I says terr excllorest bulker is mit

Redicularis 4 87 acrid; eaten by grats; noly all Hachen in dujny.

Hexpestes assets H. amars, of hidison, intensely litter,

Picrochica Royle and brotherness of 151 tyc thence used as natured in Ind.

Vandellia & Vidiffuse object val in aniana as an antibilis emeric, excepted BIMER BLAIN by Ducrelles, & Maimarada by Aronak inds.

Linaria Poura (Etatine, Mound)

La digni e litter, escript eta e programatination de programation de programat

L. cymbalavia has a voerm ereselle flavog recom as antisembetic. Sue in India ve sugar in cure of diabete. L. Elatino sel tobe bitter a purpoto

Antiurhimum I (orontium Pors)

A. Epoclotics Group, Bod by Nectors as Garabell Stage day I at revene a tree beave U. But file by this Garabel in 192 on Carolinal off Calif. most 1807 on award stages which by a Carolinal stage of Blues. Bits of called it disable in a family of the second stage of

Francisca KA F. traillers, MANICA of Brades, a segment of the last of the executive University and in executive University and in regular parameters and the brades of an executive University of the Control of the Con

Bearing : Bearing in Braz used in peoply boths for obcumula patients; bas sty perchang oders

Gratida L. (Sophoranthe Bout, Nitora, Nati)
G. porcurana L. has purpor remote los crosts

Ge obcination framerly old a BANA DEL, or sect of use as moder by little villent purpotracementic, so the basis of the faces gent med Law enddirinally at to be services the in by yechondrice; in new doce a villent point; Italian experienced by its above on it the framework usel as postures.

Brownellia, L. Ildebrusis Garda, Mergania, 84, Acagea, 1981, Ocurisis Comm. Hucroya, Horb, Legeofesses, New Penergessis, Men., Limousella & Chamub unculus, Italian) Salpyloada & P.

Sobizanthus, Ker

Lenthe Gelech Benkon's proit next co Verlas cum.
Maurandia Jet (Usteria Cher)
Maurandia Jet (Usteria Cher)
Wightia Beu Holleria 4 Chimaghilla Beuk Russella Jag, Kiandher B
Pauloppia Zucc (gl by Benton 24 Chelmon)

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CollinsiaNan

Chalange. Lymbrotism to Differing come to Transmits 1907. We have mystiffine ones and such as the compressed on membranament rism anticided not contained. Capitaline as 1943 to 1917/2018/1960 type of prossess from the Cabiffine on children beneatly. Of the land has a second being a second first great containing a the capitaline beneatly of the containing a second first great containing a the capitaline beneatly of the containing and the capitaline beneatly of the capitaline b

Pontstemon Lher, (Dasanthers Rafi Elmigera Robb)

Vernica, L., (Hebertus, Leptondra, Men, Collistadora, Map Eustachya, Raf, Aidelus, Epo Omphalospora Belev. Diphythyllum, Lehm, Cochidiospormum, 166) Gerardia 4 (Virgularia Rep)

Castilleia Limbil. (Buchumo, Mut)

or Botanical Documentation

Rhinanthus 4 (Alector dophus, Biets)

LENTIBULARIACEE; constit, by Richard, 1808; \$4, 80 175.

Herbs in water or marches; radical undivided was no and x bladder by. Files lab. ste, nothers (celled, or of 2 valvate fronthe ticelled. Seeds to minute, Espin teopies com in all pts,

Genlisea Settil, exclusively Bross o. Polypompallyz, Lehm (Tetralinia A,OC.)

Rouledris, bed by Lly, r. 686; has year of gog emoistence to milk, and of yearcating its separate into cobey or excessed?" Lyt best some not from thickening wilk but by p = fat, it the clippeny feel of the los, say all textiles, in M. Leve of trace sheep when boush are stelly purpose a victoricasy. I imi's copy our solid will at the happer and by round it warm a fresh be the own over a strainer on ook field les at fabrora laid. The milk, after passe and them is left a down to std; till it bonne to down it therewas up no crossin, but become compact a tenece & ant delice in taste. Not nee that the brock los be used aft the mill is once turned on antrany, a smlpt of this solid with rol act on that with it sinds, in war of great it by Meetian by be verys of the used by Conved George of Querich Swo, publy at Bask 1591 his Hier of Plez; had by his was as Bucker were by Bry for of rapidly turns or into bate; house rom is sayed soi, at. I to the soft mit bair ob or the If, secrete 2 glutinous fluid; the firm tuttery mass and to reindeer milk by Sweden in mo more as descreter Lapps teas a regular article of died the. General calls it Butter-root; unlikly to duto if to wo, deemer that it the ple Pliny colled Doderathera, a troused by I to Am genus. Daywin's ch. velotes to this sy.

Politica Malese, VE Litto BUTTERWERT, had by Mechan," I of the exerty open his only wouch a channe to the early scaton of the S.U.S. Glacker folit at Patrika Thybring 16 fot; and by H, in Fire of Caeding Mily & Companish by Lamoret 1981; the in imm patries in ranky decay pis-opp in line turness these from in It are brille protect about at them, has chamophalogicalistic of Vitriculario Le (Lecationarie Vallatt, a genus since aborted int.)

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ACAN PHACEA, constit (785; Juss; g 155, sp 1450. · Purpled, herbs mobileubs, Lux open Fins usly conceled in order three leasy beacts. Peals in the placests, oth expands into band every, thouledy processes, & S4.5 P& Sep Ca Stom sout & x dilya Ovary of & carrels, brong scalls, each cell fortisals Coastit a trape prof the weedy her base of trapics; but in wave justices and to M. as & Acoustice in the 2 a few or in US: many are of you beauty cop. Justicia, Artholou dra, Ruellis.

by the imprise to write a peerly unrecitable telefy bireso, some my biresy a pectural needs some discounts of whenthe frequences in a peerly account to the proof ments of the solid.

Thumberg to be carried to be counted to be come long, the plosupplied by branco in acta and so Cliebre. and Blandosia.

Ruellia Lydomoldir headlit Avaluable of the dee called Room is obtd to Assaul to a tepperatural after priced Ruellia Lyd moldinerabilitar valuable do tine doe called them to beta no Alconsis a special termine. Richlosophoring for by belasance by the bold humbs; "The rop beaut" it to last-but let it is much be + flopes a fine will them in during the horal of humbs. The horal of humbs a fine to be the will be the horal of humbs. The termine that was the horal of humbs and the termine that was the horal of humbs and the termine that was the horal of humbs. The termine that was the horal of humbs and the humbs are that was the horal of his property of the horal of humbs. A property of the distriction of productions that the property of the property of the property of the production of the productions of the production of the Cuppliaconthus, Stehonscanthus, Stemonaconthus, Onychaconthus, Outsthalmarenthus, Neuvae-Asteracontha, Isac Echmaconthus, Evythraconthus, Petraconthus, Starbya conthus, Telacothus, Lenterathus, Adena conthus Disteracouthus Wees, D stropens has les subscrid,

Justicia 4

Paulo Willdmia, Hochsty Sebastiano-Schaueria, Nees, Blegharis Just Dilivariadus Exantagram / Chamerathemum New Henrya Whitfieldia Goldhuria Acanthus of ELANCIAS THE its bequestably labed a superated by trayer from the or want of the Confedera cont, Bee constituent, Legel various in the food one; the dischiper Callingon, page in the court of all when whe is a few a bet her comments by ity came up to state the of the one tribute sie there, to bee muse he collected the des intended for hen made, a que them we the impresent in a tiel bashet, on the proseque a pit of Armentons, Kthen cord is we a tile. In each spectite less of Are hed gen and the talket ; at the tile they recent red & surround its creds, Calling surprof at the resol decrease, wh smd the ook of the Graces in tours, "conced the capital of the Cocinthian edenne". Stray not reliable, say existing

CASSESSMAN COS. TO succeed by Bord-challed fruit; uniques acols; let that, trying commander, Manfres 11 , 34 ap.
Conscientia L. C. Cujete, CALBROSS tree, elding per private took, the is altered, put order by agents; have the lived as both.

produces and fitting a certifica, cample the control of the contro sirtisfacit baccate, successor, of estable, is yield a dye; its repulse, telemines transme is the by Frolation LANCE in 1809 of theory in Are. Savenienta Art (Ure floria / Faill) envillent in Will .

PEDALIACER herbs, lobiate diff & Bigumiac in no wings to seeds: 819, 5725 trop, espate. Sessamwan Lylus conflicing reads on there oil, expressed bely inport que; testes as Oilvely a used for it jants old aingilia billy the vy go qual is need to adulterate Oil of Alumdijis oft to get vanis

Managaria perborcidas, OPERA, MACORN PLANT, old in the Peats diquelles poir of le holled home is noteding for buy late of dist Vacaxia procumbens, QRAPPLE-PLANT, at Cold Hy has fruit con whether spiles, who catch as Marty

BLANONIACER Instit. Jus. 1889, 124 my 250, Wind seeds . Sy & St. Cy order + Eles donet seget it to kinderd order : Will to Aconthac - in high a.

Proces shrubs; too berbes of twining or climbs.

Wood scaly artidic into I crucis tore, cay in Blya, carredaty good in woody or. In imagaquil these twicees are as to he let I done of the twedg aget, att of att 16, att 32,

With the order, chily in tegrics, the transpet shipl five are the chif glory of their babicats.

Vin Few wild; in Am North, S to & cost of Chili.

Best kee for the gay bearty of the flee, white the loge or, pay colors, put abile, oft any the rest objecto

8 Chica; by toile les of it in water , Chica (also called Carajucu) is On, 2 red feculous pite; whire proprecipity addy bark of an union tore, old Arrayona; Indo use it for pto this badianted; of impte to dyers evs re-red to cotten,

B. Chevere tough obots are women into coldies rouch

S. autemphilitics took of ope bes in Bear I of my good van get opphy decerting a clos burte direct a presided externity

3. leucosplon, He that an satidrte to Manchical poison

B. echinate, set to be used in adulterary far saparille (bes)

B, and Breez of trans large trees in freety felled for timber; I do lipe-tabacco tucks durable chip. timber; one old Ipenney is bardest ord ins; one old Pao d'acro, gro one of the best corner for lover

de the first of the first of the state of th

I the similar used in fraz as gagle for use where

T. species, diametic, cathartic, T. radions, one derite tone by our or bosepe laborage appets that seeds in T. radions, own Thinking the his seed in the control of the con Streeted by mingle ase of currenter, as in to fire were to one, ruly the Bear three men lotest wantly seed "Thebes of current staying word? See a beauty in oid allow synit of see any states. Should be sayd the bling across + in stopping

TROBANCESCE of composed of wester vampines; M

Oxformation Girls in for a pit" the remarker of retrier beach to be presenting & from flow, olde his time of the the from sally to cote of brown & rape, rape, twenty, to be its clathy, talbornes stone in what the Barn but god for age, when, when

Existing out Ving to may Sware, sol in Michina is France days; may be dan ofte ker, manual to William a some, Marrison, or to odd it Octomise the stores the low and it is Existent Archana, on the is not wall to its over a sporter or at Brech days by what this site is writing by to being many possession whe very of the beech, Figues of willing a ferraginen". Butter in Compandium of the flore of Philag 1818, colled in Extrige partie seems as being there bether; spetty changed so only they wholly break today. Cost live slove, my insum littles to its read. Exists of our tier of specifickers in contact or framing plat virtinized root". In E, M is a section like thread once at I'm and of sound but of medicaple, who make evident that the fit is for constating there also are not being it prote personal asset yet larger inde, also be discognished accompany port for the or has some in a south and where where where we had not the chair ! M. sufer that upon at that I be lost the wielling thank left term is the letter out the course, which it they see Edo Tout will pet this it may be trimorphic. Cleaning for age son att mid ram i alguer who ally usuaged; somender she sept. If Bo to than the proper stage me id a ram. Conservation all now lefer the attring electricity electricity of the real for supervising ends rather or conservations we white will of account.

Figuriary inclus abusinist or Meder Dair, is so to be appear is quals of the me fromidale a increase a nature. Albein

I OBBLIACE is still by Just 1811, 270, 375 pp; hearts; writty juice; (verale; orlin; 50% tts Ces. Fire capsular deliver aroper; seeds to minute, bome on living oron axis. Anthers symponenius, the late. Prof empires or the brokers; + in Wi, Broz, Himalayor, Cadth, Hausilan 12; many in Chillie Musselin All danpre or sugges by the excely scrid milk. 23 Lebellas la Georgiage & meanings

Controvogen Prest. C. surinamensis, succeedent their estable

Cophie Flondulitera, Atyss, tarinscons Ribers cuten by the poor,

Tuyor ston Khyna petalum, in DIBARRA, extly venom's; single of its wood, intoled, causes is mite; its etmorphere is ed to be stal; its seeds mader butter, bacilitate partition

T. Fewillaci wields a doper poison in Chill

Siphocompulus Cornetchous, so and by inhabs of Ropayan frehe tenacity of its juice.

Isotoma logiflora, of WI, I of not venous of plts; Sp d'it PREBENTA CABALLOI becit is insec that ear it, smally them ill they bust; then we, it is ident cotherine, no remady can a straste its effects a they and ind; Ive are act vesicants

Labella I (Dertmanns, Ruds, ee); a pour by Munice, ou on the girs 1633-771; in these or 1. I had before 260 up per also de I., weeks, a week thus piter warned of the listed by, we see we way I when keep companies to be seen as see

he instate, MOIAN TOBACCO, must activate of NAM Moteur Wedice; emetic, sudvibe, prespectionity on w view to empty the etem, it exercises exceeding a moveduly; produce got relaxator, debility, pertyinder

In exphilitics, GREAT BLUE LOSELIA; anti-seventures ason to it are anyd to in resides in its directic qual; they are howev gently discordited, Rhind 587

In candinalis, CARDINAL-PLOTER, acrid, that on anthelimination + TO RAWALTRY to TARR A TO of Ballborner Herbert, 18 500 June 14 west rome programs to to in fig. Ventle it & and must fire, since referred to a few continents of first on this I sedice bester is long on at the printless of "Definition"

Vice by Checkers A Box Town as Intholoringte Beele, 1833 1343 "I atthe me bosats ples stone Nive" "Valethy a pay Art bur ten of stands of the bear," 11. Mes Syremy " Lobello strived like agreen in her fields" much in auten; wrong finite in cot of Mile in by a NB to Sarks, in N; those of Cot, Mig, a Tex he made any on the the In fulform, Interfered one is port in for thex, are all some. Vary fel write white, were, yell in, commonly as well as the

1. exchang DOWAR I of one produces to Colly printly purher than march polley than expected its dipmentings.

Downlorder thank i remove be forth by int; "their is in certainties or in sent metry when ins betal for the order of high proton to a dis-

In Fearmon array, I of last diet; in Set Flagt Privay, Dr Etalmer, Mothany Treat; high by Mechan, Respect

Attitled to produce pain in the treast & diffice of treating in person once feet is in hence in Bot Goodes hours of the Manty Dr & Brenches winter and fell to belied sufficiently breaths hoads the dank pinion of the gate with death.

Librila, Flemink by birch has little, see Fig. to been be guild sed travel but executives your syste Box to the Tail a his play to have a distribution of the Marking destillation to be ting that to classes him early as only a fill white products to define a mortalization of the state of the s

MUNADELPHUUS PLANZS

BYTENTACKE, toes, should, car we stell seem broked baice, occur scurts; disty to Malu by another being Acuted, to Sterculine - by anthory turned invois. Toudy to loss of potals, atmen of ream, & oft products of monadelphism, G. 45, sy 100,

Phetroma 4 (Carao Rowert) P. Carso, CACAO or CHOCOTATE tree; see Maind 336 oc 313

Waltheria 4 W. Down dinha, my mucileps; used thek in Braz act sych. Dombega Car, Dispectabilis, ble und into ages in Madagisy Africas.

STERCULIACEE large trees or sarahs, & 34 sq 125; 2 called anthors turned outwels; etabo column Durical or in warm clim. Chilly remable for + muciliage,

Live direct, purched, into halo, tart art w hor, whether mix w therfordy to dim the excer postpirate due to climate, Eur, find it serviceal in dlamby fevers x4 Buly of truit stely and sport are estens the juice pressed trie, w super, mus a dok valued as a specific in puterld's pestilential fevers. Dried puly mixed w water is used in Gg in depending; they god a from the Germ Seneral, a supery matter, a startly war acid ah approximate motion

Bombax L, CEBA; notable up from lite aspect rather than ulitity; seeds of t are invested in the cetting but cannot be manufed frether being no adhern betwhamm Amorn he emote banks

B. pentandrum, COPPON-PREE of India, yields a gum, gm w exices in certa bowel complete

Salmolia SEE; back emetic: honey of Ars of S, malatarica ed to be purpor edimetic

Durig Rumply, DURIAN, see. It in is of Ind Ardy; the exmely aulth Och and Fine of the free new need + ; it and used inter of core of the intimple; work from

ut to fruit group, by a tomate water water they a place Chocisia Hek, C. speciona, ARVORE departity worthy cost of seeds is used in diff was to shall cushwar.

Eriodendron, OC (Compybuthers, Schotty Erione, SeE, Gossampinus, Rumph) worlly art stuffing" Existery S.E. Reversio, & Neesia, Blum, Monatozuma, Mrs. Astonoricaling K. (Bleyharntuman) Cheinsternon Humb, (Cheinsontwaendern Laurad) & C. platanindes of Mex, HAND-PLANT or MANTA, no socially large angular caryx, res a leather cup, or course of whices up a column by 5 nar coursed and wa conved style in mid; consideres to a hand will clause

Helicteres A. H. Sacardha, SACAKOLHA of Braz, decreen of root used apt syph; muclans. Moresdia school M. angustifolio se to he since prop.

Sterculia, 4; many uses of +sp, Ly & 361-2; 3 eaten nuts.

Tragacantha, prods Gum Tr of Sicustione, Si wens 11 11 not Coronandel,

S. tomentors K. KOLA of Africads whened or suched render flavor of water evenit half justily agost.

Thedrema L the CACAO or CHOCOLADE TR, of Malvals, order Byttmeriacer. Interd traged; shows his esteat of reads; notito Mexicotopo cultos bol discipolar that the plane bev to it of loads song mot please builts it ogt, & love no time in mily it that to OVO; tould now to 20 "N to at track; time and Babie; in After As also, 80° kypy, by loge, of ptch, through see, on tense larger long even to roots , There says thurstilly the I foget the do ingress on me by the lux of tray plates or lot safe a C plates, Aft a damp at the large thomas of the I some to the most at a consideration to the transh or dich weeken quiting exemple the day till mortid, American example of the expense pres of the runnited and me life can be dry bemoet or in agence nat! " Equitorace large, not, got gods, 5-61 lescon in 5 cells 20-40 bears Proposit to seed gody severand be winds can't bear searche our, ear whon yes bananas, make, manice a it but the pleasure some between rorty and who chade they enjoy the dang souther boot they seg! registoremer dim than cother or supere. 2 or abt song it is 30 high sends art my bes; valy 3 4 lety let hote conthe 3d or; in tell becording 6-Pite, + till +20 y, An Ind who can get a few thou

cacantees photal can pass an idle life; weed the trees 2-3 + a g, pather characters, Live me a dry the reeds in the trus. Chily used in form of Charolore; besigner respect, fine god, into a peet mouth paster flavor import by able give as vacilly

mucilege; stom

prix offices to Hazy

NI are called Questo

by xold coughs.

BYTANERIAL
being Acalled; & Stew
products of monadely
Placebrooms 4

Waltheria 4 W Dombeya Car, 7 Lasignatalum Sos

Trapical or in wood

Adansoria Le, w then food, to dim Ruly of their after putril a postilential of Gum Senegal, 2 849

Bombax L, CE but comot be man B. pentandr

Salmolia &E.
Durio Rumphy

Chocisia HBK

Eriodendon, i Exclothera, Sal Cheinsotemor no petalla large any w a curved style in v

Helicteres 4, 1
Mycrain Someh
Steventia, 4
S. Pragacan
S. wens

S. toment

DIALVACEA; coattictuss. 1789; 339, 1000 sp. bertstrees charts; + in varietiese; otom columns. I colled anthors turned innot; no unvolvem quals.

Malore is a link to hamme, in larg sep carget over a control torne, Mudgas pro elluste the, Vo + in topp; ding S; in Sic for or Augusts, in Sic 1/45, in Sice 1/45, in Sice 1/45, in Sice 1/45.

Humbold congueted in Am they are 150 of the flaggitts of try; 1/200 of tours, 0 in chrotic.

Malva 4 MALLOWS & MARSHMALLOWS; the use in Bue is rollen; and pit of the ity cap the cort, glicis in decreto a ploritial, testels, check-march, solutary for instalus; clemalcent freely force and wife also use it constitly in produces, lessenges, ex, and n of QUINADVS.

M. crisps, bk to by counilles to be be tomanu intrande

M. alcea; petals one astriogt

M. Sylvends, Maldiow, Denger & Eller 116

M. wreunditalia; "oh cat extrem the moving boult, and moving the string of mothers, sport trybas place which, dechar, quiting the older. Then string of mothers, sport trybas place would a checke."

Atthoca, 4 (Aloto, 4)

Areosca, HOLLEHOCK, Matary of Diosencides, thus officinal in the tre use of Marchantlers, live me a the colony patr of egit to insign

tized by Hunt Institute for Botanical Documentation

Sida 4 (Malvinda, Medile)

S. conditolia issed w rice to used to allevibloody flux.

S. mouritions Hinder dramk emobilento brit.

S. microsotha It start stems used to me rocket sticks S. abutila and tobe cultd in China for home

S. lancedata root by bitter, that a val. etumachic,

Abelmosohus A

A moschetus, invity seeds that endial & semachic; by drains mixed or caffee, InWI are called Questo musqui; reduced to produce stooped in musq that protect rem, for sall bites.

Ar esculentus, set old Ochro, Gombo, Odrbo, Bandikai, so, favre in sour, gry its muchosus to it.

Sphaerates Stille

S ciralyina platina used in Broz. 12 decorte, too inflow of brook; a fee Marchile

S. carginifelia; chewed he in Book applied to mappings.
Raponia lay & dimertica in Book a dimertic (condition ?)

Then a le Ultrata, decorat of roots stamin Braz the windy cilic; firs expectionant for dry sold coughs.

Abutilon Tours A esculentum , BENICAO DE DEOS, Avo in Broz used as a boiled reget.

Thiseus Litrasphino soing sol sp in trop wed, tok, to mk woodspe per per of ord is in this, Makrasing, son this. H. arburcus; clave- iter orbigs and to its alone of bk, in vol ; at ald MOHOR or MOHAUT Hearinatinus, 200, anded in India for being ; back called Wask; coarse oil pressed to its seeds. The Rosa Sinessis, CHINESE ROSE, claim use yetaloto blken the eyebrory & the leather of the obsers. Electropere dought is yell of columbia regularity des

The Saldovitte, Hi Suratonsis, ec, are ofthy said, The concious for the Meeting of the here by Prebatiother All 1288; port latered into End on t bet, for leter Collision worts 17th to this Backers "The eriorand It is a channing the . I de his no perfect idea of it but to they elegt utge Reay desire they f, (In B) to grave us points whether seeds to Charleston outer I done say it ripens needs." Nater in garmers but does well in parties, it is Dom, + Bot G, Cambre. Natu in dy marches me the crast, Fla, Ga, & W.

H. osculentus, L. OCHRO, GEMBO, Africa DC 150

Nayxe, Navæg Lavatera Lawrencie, Caya, Cristoria, Mostela, Mahaviscus Mahaneums, Gos sypium L (Xylon, Pricest) Rhind \$ 205-413, OC 402-411 G. Ditibelium, in Pros, 48 Wa a seed rused in dy sentery; eterped in vinger are applied to kend in hemiciania.

Callier hoo want C. a mynyb & sea & oceans Detry atter her mornamed a beaut to at Alas, at lexis, to och I stome in dill Cinvolucista, namy, and marchen; deserves perus in an its depresental affect; replay was at let old Mil va lagaver to us to lagaver Rhomo (the Bidd Brown of Coralhage of Roys a to polor) or form at everying the fall W), he are M. Lyrs Martall may as argue in to M. his called a Beautiful Rhome, Callisher. I have a continuously in Ray, * second by Viely Book has a yearning; cause by the India, " Soundhay, Ends it is his fall hear, 1849 Jales in the Kie Wiche.

TERNSTREMINATE Constituty Mischel, 1973 191 by Lly and autidescales; tees a struct ; Aus volta and the covered; 55.7 25.6, 10 5 4, monologistics plays higher or details; C2.7, a capula, we contribute abuse ; Send on any how large, 83 of 130; these call in Durgerdees are Carrellia a Generalia a throne or Chica a US; the home charles is linear who 65.00 some case a structure in monologistic of 100 and 100. The chica is Many all through the abuse of 100 and 100.

Kielmayera Mez, K oyerions, lus in Bras used in formataris, as web sol adapted in act of ably in minilage, acrosh sol adapted in act of ably in minilage, acrosh sol before the trainers in us,

Senactia Casest. Comollia L. (Sapangua Noca, Kissi, End)

Choseitees seeds yield ancorde table oil Rhind 60%

C. Japonica, the diff wars and the plony of pardeners. Rhind 602

Thea L. 2 283 12 yield the Tea; its sitty stimulate groups become necotic in my hot cos es levengs.

Mint 388 DC 117

DIPPERACER, of Guttiferales lans stam willy distinct, but must stuy a integly polyadelyshme. with 47 or 7 or may fold grouns, daman talomos, increase oil, so; entry including includently from the largest sheeter

RIFICOBULACEE, of do, stam stly many by nos; 2 p. 8 sproh are longetimes in SAm forests; the Carrocae trapportuna produces the humanour Nata.

HYPERICACRAE of do, stam uslyt, one man, almalo polyadelphore. Easily recognish by the unext sided petals to disciplism threedges goodly diffused; in moting calleys, marches, dryglis, indees, butte, 13 p. 296 og: distillagra, Live 406

Ascgrum & (1soxbyllum sports)

Elodea Adams (Martia Brong, Triadenia, Spach)
E vigeinica; US; a stomadaictincture here and fire

Vicinia Vellez; sy ma bu exitan get juice, energethe jeges; V qui nomais of Mexi surinam yuldirde An Guessari Austra of commerce; V univanthan laccifera ytald red other of diastic juna resin only. In gambaje.

Hypexicusa & (Brosonthe Webbis, Crossophyllum, Olympia, Androsefilm, Myriandry are some of Specks negacity)

H. connatum, Bear a gargle for some there is endly and be it; called O wella de Gato.

II. laxiusculum, "Allection brabe, decretto of lather in Braz a specific age bites of soles.

II. perforatum; con a yel juice volgas in or Bu ap, is in soil projector to the easth oil; and they be bused actions xarrangents; who the yel juice is more exposure as in Schar, sy are two energetic in actua.

Digitized by Hunt Institute for Botanical Documentation

Parnassia L

Rhind 513

BEAUMIRIACE. Disted to High by shapey seeds, and should be fleshy scale-likely, at overloyed so residence make planting the Medic case of set plant in 1886, and so alice water; then many or propagately age to grave water in the second of th

CUCURBITACE dimbers bears grand-frain; GOVED FAM; & stone, coverly 3002, distinct or cover; at is continued that I find in poirs & the but remains true, bothers a collecting by extrauries, Soily Sty C, Related to Passiforman, who diff by havy no sinuous anthors, adverent owney, asomal fire,

11 to Cansyanulaux (St Hilaice)

" ENONSPERIESE, " is not I woder, which is no on; or babit of Cuto " Lorancesa

" " Lesedizabolado thro Zannia " " Eughorbiacese, & Papayado,

Placental structure goo, Ly y 313. Diston only to trivia; esp bad; many in Lecux Boscil, Pero in Eux , NAD; set in Catt; tow in Austo; 1 in Mrchilly the simust so readily softmate in N last, beace are can in Swepsedows.

People; in advo, escable fruits, some of och at least, are active paisons wild; as Bottle and. Sominary & divadic tendry pervade many, be intense in pulp and the seeds, out one themsto wild soily. Some of the truits are good orthousies, arts even in soldones to precoupy on nely other ine of the almentury could,

Lagenavia for BOPP LE GOORD, DIZH-RAG PLANT is L. outgois, CALARASH, GOURD, DC 245

Cucumis L (Melo, Dourat)

C. Wardoukii anig int cathactic zg mit

C. Colocopathis (nos Citallus) COLOCAMOTE, source of the drug inc of me val medias Ship othello by "The food that one to him is as listion a Living shall be to him shortly as bitter as Coloquistide" Rhind 538

Rhind 376 17 C 258

C. sation CUCUMBER

tized by Hunt Institute for Botanical Documentation

Cucumis utilisinous, MELON

Cucurtita Le Pepo, Towns, Melopepo, Threat) acomps; De 250 Comparisons, RED GUVRD; flesh volum boiled certaste of a tender Caurt; De 290

C. pepo (ve Benincasa cevitora) WETTE GOVED in hid proofed at even feart, being and to inture perspectity to the wedded pair DC, 268

Crovitera TEGETABLE MARROW Justler extend lot our bases culinary vego "Ling. Rhind 375 00254

C. alteullus, WADER MELLON, ested for the and colores by fuice of its large for Rhind 379 to 262

C. peps, PUMPKIN, Ellacys, China 378 DC 251

Comolopora, squaret Rhand 349

C. Moschate, MUSK MELEN FUMPKIN, OC 256 C. Acifolia, FIG-LEAVED PUMPKIN, DC 257

Livetta Private tom so villently cothartic fruit; or mound by Toy & 314.

Bryonia, I, BILLITE, BRECHT, one vy collegeic, as Bratta, B. Stoice, juice of the von song one south while yet she the chit, , used as Arganapus, cas it in flare; purpato; me yetul than Jalap.

B. smericana & B. science sd to be similaryage

B. exignes, nort once send to be the fams Columbia

Estalium ICHIAN E. agreeren (Mornocolica elaterium L. vinus appros) SQUINDING CUCUMBER; note of hotter Eur; poions pulp sadly forcibly expedled in instructionist when gu vipe a stall is loosened; tempois, see Ly, p 314.

Momerdica L 1 some if not all the line sp on to be safely exist, 2 are pidded; 2 8 mm , poisone Micylindrice, 4, TOWEL GOUND, DC 269

Telfairia and I judges of Ato; seeds oily, from coulding loge a chasmut; so to begd as Atmis; lover

Sicus, 4 (Sicus ides, Town, Badares, Berter) I'm a Cumber-Hows ched by I in set of his rule no giname is by

that to the Br. Mr Use of be Ana pits in They fredered in carriers 1640; ment of Ray. Villenius (732, makes a 2 courts -; Aitea C. scallatus or Stanforce ; Riddl, God agreed have; pressed, yield to il, equal to that of finest clives; puly is + bitter, prod a violent headache oransetrus, the "Small Gred Bindweed". Easily disty be bother SiMI and on by three-When only syplied to the torne, Sochum edule, Chorche Dise, of 101 tubed walls a pedical shorter throbs" M. queries as to re laumosa, so rong "tall of holes, ples or litelakes," not by apparent in ples he less i system in lider by as lacune, Zanonia 4 2 indica, BANDOLLER THUIT, so colled del fr from of seconds; teste armi of la cumber Wes SIN. + da book Ands, K to Irak Ela; + alongo; Araba, Kr, Was in Sa, to Pa, artin British live are infused in baths; mixed w butter, sense as a prepri for on artispastic liminent, sto are in Col? We I is the on lacitic stope, but closely alled powers replace in they bet,

CONVOLOVILACEE; twiners; noted for this exply during morning or order in tain weather; my take their closing bet rain indices proven to look the Pos Fo St + 208 - 25

I lacuness I had by Meetin as White-Star by race in Parche M file it eyes durg

I PONORA L Bo ver to Convoledus, Bindweed, & Town a Bindweed, & George the diaged to C by stigmes being two-libed expresses involve two a linear.

raing Curious in disarticulation of pistils; who in our first day of produjer present there bear

segree by a few the tase on after touch, some aft signs has seed pales, In more to five sees

least large as los; have los large as any but fire my sunt, while expende extens abor an; when so, as? The rock we bout it Am to Engular yet carry in, accord well in troing babit, up

a nich elepase to its render provide." My "Nature core too intere on the list of which

ex; sol used as

Digitized by Hunt Institute for Botanica

Ernsey's party July 1836; since in WK E Wh in the dry randy tarron expr vortexed by the Platter whole Roy x to Mexico "Sterner often exect bury, " high " porced; soil of the years it apprairie raid to stately very many coastes not trees; + buffslopes, + case in endlowang ky wavely that opposited the itse I is als by the human. Man- xoot, be similarly dearl in 12 keppto a man; edible; a Col, arrang, used 2 men. and so pides x como tran a bull a to disuy a nove for the content Exp. Root der 6-7°, a towak below god to about maisture; the of wave beauty; IM cas Merthumono. of Muser Park rate or such in Abr deserves

Why are thrusten in they beauty east, O linely, lineliest throwing Where the sound it snights never passed. From human boare or borrer!

Live nor elptd xiller

In tuberata, h, enormous roots, notestalla, in anamonoca, Chairy, not estern a locking linear DE 57. SWEET POPATO, Convolvables Batalley L, DC 53-58

Bryonogois Arm, Sigidiam Schlecht.

independent of the property of the property of the following the dependent was the property of the property of

Prichatanthes anguino & ENAKE GOVED 222 De Sechium edule, CHOCO, CHAYOTE, PC 273

B. cyiosca, vout

Estalium ICHida E natu of hottox Eur; po torpois, see Ly, p 314.

Deformation L & some

aprecol Azor; pressed. When only syptled to the

Bruised was are infus

Brienopois Am. 5 Sicyos 4 (Sicy day thin some thin some thing of the sound thing of the sound the sound

Sturby morning glocy.

Mrs Jackson's "Macring-glocy" in Docers, It verse; Wondras interfacement! Holding last to throads by green & silley times, With the dawn its prede its white armyle voings, General's in its them, a sheltering while it olines,

150 F2 Se+ \$ 28-369

ex poen los txe

Digitized by Hunt Institute for Botanical Documentation

Trichermother as Sechium edule

Leasts Present L. Recovery to Brygain, I, 12210 fore the property as B. B. abyserias I. B. abyserias I. B. appearaici

Robalium Ichida nazv of hotrac Euse forgois, see Ly, p314.

Macquidica L & &

Telfairia mon "
agreed Azor; prosswhen only applied to
Dechium edul

Bruited Was are in

Brionopole Arn.
Sicusos, 4 (S.
Brionopoletus I.
Long thin covered, In the
20 g. Bridge of testings.

BEGONTACEE starm distinct or in a solid column; backs or our inder should; so acid juice; all toroided oblique based we; type seasons attitudes; philadies, discolored by the temperature scending day 319

Com in NOT, Sangel ; and no end sto; sol in stady, to for sorting I mit obtained in Max. 2-34, 153 of: Bf Eugeralust's Digitalisation Hy.

Proges werts artringent, - triter; vel models that; some dwaring purposes in Max; sel cood as

Digitized by Hunt Institute for Botanical Documentation

Tricherothe

SCITAMINEE. BANANA VAM, = Amorral Atlance of the.

Scitamine of I, 1751; considered bere of - Dues cese of Ly, p 166, Murse of dues 178

Muscocce are also to diverge reins; stems or ody; nimes row; blade rend be tager petitle by a rd tunaer; 6 be rolle tomagia. Eles in spatha. \$3238t6Cs succeeded indebts.

Waters of CadH, Is of the SB cost, teoric plas; not!

Lors of gigantic size used to thatch Ind cotges, for eathir book, too basket mile, for gieldy a val the

Stems fromed of the listles on one we will the the rest pulled out by habits; so to be collect in WI a sold as a tinder volutor of these splice will make to 1+22" Ly.

Yeshoots that a deles reptire x catera.

MUSA Lower, Juice of fit & lynsph of steam Musa sagientum BANANA Rhind 260-1 ve 364

Music paradisiaca PLANTAIN Rhind 260 00304

Digitized by Hu

ESTATE IN GEORGETOWN, D. G.
By virtue of the last will and testament of Caroling D. Giesking, decessed, D. Datrict of Coloring, D.
By virtue of the last will and testament of Caroling D. Giesking, decessed, D. Datrict of Columbia,
Birth of Caroling, D.
Birth of Ca

THINTY COLDAR piece or parcel of ground situation and lying in decoration, listeries of Columbia, and bounded as follows: that is to say: All that portion part of let of ground known and distinctibility of part of let of ground known and distinctibility of the part of let of ground known and distinctibility of the part of the pa

from of the premises, all that piece or parcel of ground in Beall's addition to decreptiown. District of Columbia, being part of Lot number of the properties of the being part of Lot number of the Lot when the Lot

eaventy-niae, in Thomas Health addition to Geotratown, bistrict of Columbia, fronting twenty feet more or less on Greene street, and extending back sixty, five and a-half feet deep drips north of the property lain wartell's and now said Giesking's), and more fully designated in deed from William Bedin, trustes, to Proderick W. Giesking, dated 22d day of January, A. D. 1862, topether with the rights and appurtenances

belonging to same.

FOURTH—All that part of lot multipred one instruction of the control of the

RAVENALA Adans, (Urania Schooler) TRAVELLER'S TARE.

R. species a magnet falants pro, called by the Br ARRE DU VORAGEUR; seed of the estable; gulyy and, of use britt the edne yields an esotloil. Juice of be used in during. Seed a tute of by balos.

PHENACOSPERMUM Endl.

STABLATOLA Banks (? Heliconia Boerto) Flo pentandes, timeg. Seed to tutt of & bains

for Botanical Documentation

HELICONIA Le. (Bihai Plum) Only genus to solitary seed. H. Psittaconung, for catable

H. British in and Ly pier

SCITAMINEE. BANANA PAM, = Amorosal Attione of the

Science of In 1751; considered bere so - Muraceae of Ly, p 165, Murace of Just 1841 nine stor; blade repd to experience by a rd tumor; the porable voice opte, at it and be mile tomagio, Eles in systha, S3 P3 StoC3, Fre 3 celled lacidice espende no

Water of Cade, Is of Abe S.B. cost; tropic ylas; not much buyd exc to Japan; 4,,20 op Valuable & must as bood for the built

hos of jesstic size used to thatch Ind corpes, for a natt doth so toh a track may eat his food, for basket mug, for fields a oal flax to rob om of buckt muchos of bad,

Stems fromed of the listles rob one membel on the rest nor of spinal vols con took may be pulled out by habile; so to be called in WI a sold is a tindun. " Div of threads in each one-To butto of these spical wie varies to 9 to 22" Ly.

Youshoute dart a deles veption content.

MUSA Inwest Juice of be a lymph of stom are ofthy articipet a diaphretic Musa sagientum BANANA Rhind 260-1 vc 354

Musa paradisisca PLANPAIN Rhind 260 00304

Digitized by Hunt Institute

RAVENALA Adans, (Urania Schneber) TRAVELLER'S TREE.

The Bananas of Colombia, magain Robards pit, called by the Br. ARBER DU POYAGEUR; seed of the color yields an esotloil, fuice of for used in during.

o the Editor of The Evening Star; in your issue of the 27th ultimo I read with leasure an extract from "Good Housekeeping" troble fruit I take piesaure in seeding the folling particulars for the information of the
form of your paper: In Colombia will be
form of the paper of the piece of the paper
form of the paper of the paper
form of the paper rable fruit I take pleasure in sending the folproper of Colombia roast, bon, or fry cy supply the place of bread and vege-ney areases in Sound mixed with free areases in the place. When green it cut them into four side as the fritten as an when dress a deal a sua. When dress a deal of the place of the when they are ripe they are serves used to the place of the in, and when done a much is made of along in milk. They are also preserved, and served as deserved. When there and at the point of being spotentially and a served and at the point of being spotential of for two or ture weeks. There they only preserved and ready for use on the words fall me to praise worthing a served to the served and ready for use on the served and ready for use of the served and ready for use on the served and ready for use of the served and ready for use name actions constitutes the staple food and millions of these countries have written many cattled poems on the merits and userimest of platano atone. On, how grady I would change forced here for that benoved platano of my mary, the republic of Cotombia.

Documentation

M. M. DE MEZA

ZINGIBERACEA: constit as Canno by Juss, 1998, in part; Scitamiaese RB, 1810. Salata Stanhy I ferrile C3 seck; a single middie, to with the oy +, pingle, crowded rains diverge at alle angle,

Text capsular, occitented, Roscochas a volum them,

Allied by Alpinia to Luidac-

11 11 Mantisia to Occhidac-

Nos 298, 247 sp. Genly Aprils of got beauty, to high dovot flow, Hedychium comminm, Aprile notions, or se rich aglowing aboved bracts, as Curouma Roscienna on to ownered foliage

Value, chief, be exemple vimuelsty people obvood or chieme, cop in Ginger, Galongole, Zedrany Cardamnoss, Grams of Paradise,

" 10 " " " " " " seeds 11 11 " dycing properties, Durmeric

11 for editle truis Globba uniformis

11 for edible storch, amove with amount aspertifile prepared at Travanine, Elial, tube-ke

11 for mederal purposes

GLOBBA I (Catimbium //uss) Grusiformis, fit and to be corable

COLLEBROOKIA Pon (Ceranthera Hon, Hura, Kinig, Sphaexocorgus, Gawl, Maritia, Gieselle)

ZINGIBER Taevto, (Jogers, Gestla, Dictrichia, to, Casumunar, Colla, Lampujang, Rumph) GINGER. Shipe, 101 Eller. 78 Akind 189-90

CURCUMA , (Zerumbet, Rumph, Stissers, & Exadie, Glesela) C. Roscocana, Existed for its victo uplong colored heacts

C. Zedoskia, ZEDOARY, pred for acrossic stimulogy quals of et

C. Zerumbet, ZEDOARP, do

Calonga, TURMERIC ROOF, yield I, a subste kin for its dyear peops; it is condid actionaddic, extrere by nato Ind does an excet proder for cleanop where,

Crangustitolia, in ARROW-ROOM, com sold in its of Benaves, a form or stavely, entable, rescellent, experted at Provance & the a large yt of inhabe tood, Genly theof the order has ever there is too asuch accompatic oil present to pensit use of the atat stancia

C. rubescens, its pendulous tubers, & the of ord or op it had giolds in boot your stamb; natus propane keat,

C. . Fields the seeret Mex drug dd Cascara delingue who abds in tamba.

The Might the transport framen and gentlement party outright in that 1011

AMOMUM 4 (Condomnum Rumph Maringo Salist, Alexis do, xc) CARDAMOMS. A aromatlaum, but on E Donte of Bongal, violds C seed,

A. Grana Paradisi, GRANS OF PARADISE a hot a crid seed, traced to go a purpt have to spice ituines liquors; are win the fir of this; inferior has fe. A augmentifilium, Amueropermun, A maximum A Clusic, A repens, CARDAMONA, Rhind 489

ELEPTARIA Rheed, (Materia, In Cardommum Solist, Geanthus Beinw) CARDANOMS

En majore " Ceylor Cu an interior sort

Donachodes Blume Diracodes Blume, Gamochilus, Lestib, Repecidium, Ly, Leptosdens, Porcel, Mondophus Wall Condophon Blues Gastrochilus, Wall. Jacuange, Levil, Honocystis, Ly Kourocating Pred, Nyctonbylax Zigipel Hitchesia Wall. HEDECHUM King (Gandardium Rumph)

II. coronavium, of bour firs

REPRINTA & (Aprilia Many Geologia, Salid), The Am Ro one show her have marked by one wild in gain of the Mante.

PACO

P, secoca, used in Broz as comminate a semachic, its sweet annuatic root

ALPLINTA Le (Recumbet, Jug. Costos, Pers, Ethanium, Relieb, Allughas, L., Buckin, Gereke, Catimbium, Lewis An exertans, at beaut, Are; used in many col Galangake trains to deep.

Arracemens, produces G. ALANGALE & is so colled

A Galanga, " GALANGALE do.

A. p. yr smidseum Bl. | yield an interior } At Allushas Galangale.

A. axematica Root sweetly armatic, used in Bose, as comminate & stone dic!

HELLENIA WIld (Albina Gieseke, Martensia, G, Heritiera, Retz, Iranguas, King)

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COSTOS I. (Psjana 6 mel, Planera, Giesele, Bankaia, 18mj. Hellenia, Letz, Glissanthe, Selis)

Root roy bittoe; had a pre cepu tre trains; but are not at use.

All the Braz. (Fit by a sub-soid naucipas)
june, used in acquaitic dianders & parambood.

MARANDACEK. Comme of Trus, 1789. 6 g. 160 sp; bends, tropical, we acrosse whis, let tuberous, abdy instants. Steen let bounds. They despitate as they of Lip sops them so other Science by char of by I stemmen to be an author of the blant is petaloid, entire or I likely one of the libes bearing the I call of the sother off one edge.

For copordon as in ling. Seeds rd, we art ; album rd, smooth drung. Discuss of retenship Ly p. 16873.

More wild begd tropics; sol in lad; most in trav An & Afo.

Zing any those to armedic books principle, a class in Max who are east world but the altrove root, starts about to which knows a call as a delic antel should be

Maranta arundinace, M. Monyla, M. pobilis, in WI, M rumostisima in El.

THALIA L (Peronia DC)

MARANTA Eum

M. Allougia, tubers old to repres sealt are cateniall

M. skundinsece, finice of to be efficied is soiend ords; devide order herby, reduce the stime, excito the value value observed. INDIAN ARROW REVY (aboryledded by M. ramericains) Hainde 60

Production will (Phyllodes, Louveler)
Productions of plats a rough these
Productions of the production of the production of the plats of the production of t

MEROSMA I. A.

CANNA Le (Commacone Tours) INOIAN 8807 Plant. Florky comme of some are cater in Fore Commontiace, glauce &c, tubers discrete, diaphroche, not until tradition in acts

C. Achiras is that to be the op to vol in WI the Amore part de Tous les mois is extracted,

C. sp. (od), the seeds, colled INDIAN THOP, are used as subst for lotter, & yield a jumple dye,

WATER-LILIES

Ly desser as the efficience of Mysophaley the Mysophaenore, Warrentling Laboushoese, Warrentling, Warrentling or Netzunbiacone: Let a lid have ecology of loging no relate of a large norms of albumen, a singular fact; a dittor to; Il has an emorgenophumule. This amposed highly leve of girs; but wounder etwas 0. Close upon Ramoundersee, a result to Ramal Alliance at overt; alliance also no Gettifersome. Standard of establish of hypopos towards.

MYMPHEACEA:, conseit by Salish 1805; many-celled buit; 5g, 50 sg.

Hooks in quit waters; to trunk youtrate; les peltate or condate; Art luge, throug, de fraget.

Four + colled, indebiset. Seeds of +, attacked to spage, parties, Albumon favinaceous, Embryo amall, Cetycledan fichige, oncover plumine diffuse. My place it may Endegous, & seeing he emperate promote favinaceous favorithms a mention for a conference of the conference of production of Richard to the took the 2 contributed on a number. Visa Marcine fig. him: Burrows Decomposed proved Richards orbitation of contributed on a citalian. Lay still quickly the 2 cotyledand being Exop; findly those in M. Carvalian in Milmonium not vinduly constructed at base literace Exop; and plumine of Neturn placed in oblique discense or ego to lober to be exceeded orbital and condition manner. Company of the contributed of Orbitals of particulation of the contributed on the contributed of Orbitals of particulation.

Temporal stage of the prescripting?

Mkes Housel this gove Ny- to be Budge of gone of Nymphies (c) he deser as oval, hispid, turner die links endy a link polen cube; charce of Bod, Harrel

Milk present DC take perves them Brog ; but Ly aboves Limmochacis, a Butamad End , is lactescent.

Los are Fixog , in spice ; but Lig exps of lie value, a suffely lk Hydrocharis amy End -

Vernation canodute, Ik + Exog- x O Endog-

Insection a distinct articulation to stem are la Brog-

Eles was Boof, esp Magnoliacese

Finds ver. Papagee

Bhianne of Castalia can collular tissue to evaluate distribut of fibrovasc, below threin port at all like Exog-but me those in successor Endog a Ligh

her to Mushar luthum, has Marter had a bundles of those are placed in concentric cords, the get outer; as in Experted Light sported should be small of a summer of Energy corps, (so states due to second out

because of taxally as Lyts out exectly in exogy tender radicte is city indiction, as laterator the extra the tens to along pumble to escree in across, Expe-

Affinity to reders discussed by Tig, \$ 410-41

Example of gradi transto of sepals petals & etamons & pistils.

Floating plants of the N house; occ at Dad H; race in & Hemi; repr in & Amandy by Victoria.

Excess and to be antiaghandinian sodution, manacric; generally oxedited, but quite imaginary, regists around in the dually "in the midst of and a placid content, constituted on the dualte violateness of the flats."

Watertilies

VIO PURIA regia disc 1837 by Rot Schomburgk in & Bertice; its is queen of co-ples; and it greaters 6° diam, sure by an elevated action of his exhibits the ple carrier red of in ruch. That other looks days introposate, of an build petals; He diama of their act the Amazandiscript but new in the retired; playing the inhet; less, or by quiet bes of the retilly expressed who evens.

or Botanical Documentation

Ily dasses as the son Netzunbiacone; lot of 3d has an enommentum maculacone, a would the obligant the overy, when I

DYMPHEACEA

Heches in quiet a
Cotypedan flashy consuct
and findy a citallus (au
a single cocyleden by Rich
perrod Richards ortyleden
Nolumbium not mudwhy
laben odn be goven ceren
take it may be called me
Mlen Ispand this yeu
Mlen Ispand this yeu

this it way be alted an Milk per Holand this you a single pollen cube; cho Milk present DC the Live are fixed to a Verbation coording, it is Verbation coording, it is loserted a direct artic fire cas Sxof, cap Mi Fudi see. Supages
Rhiene of Cattalla con

in succeedent Endog - L.
Roter of Nuchan Luke
but Ly says the friend of be
accordance of Panolia at

Leapthen the base to allow
Affinity to rede
Example of the
Eleating plants
Props at to
Estimate of the dwells."

WATER-LILIES OWTHOmes" The Star etho W Lily"

Lalla herdely Phose or Bother their teanties in the bake, That tay may rise my broke a lat When the beloved Son's sovoler

Juguin 11: lies.
The lity meter cater eleging Emercetted with years, & bossed with gold, Ancestion is, my love of thee.

Shelley Elaring water-like, brief beight Who lie the rak who werking the bedge. It was not because of the over watery light.

her Frances Lines to the WI.,

O be beautiful thru are, Plant superwelike a storaly River Queen.

Convoing the depths as with the light series of a gure boart,

Fright filly of the course! Rising in fearless gover with every small;

Thru seconds as a spirit markly bear. Develt in the cell,

Litting alike thy head Of placed beauty, ferraining, yet feee,

Whether with trans or pictured source spread. The vocators be.

Longholog Brougaline,

Lary in the follow me, the lates of the Atchafalaya,

Whosellies is inspried, wided in the elight cumulations;

Whole by the pairing rais, territerative in beauty, the lotter littled ber golden corrors above the boods of the training.

Scott De waterly webs night Har chaline reare of silver light, WWS truy, Chagottes;

These devoting in folder audight Le'reces the love, serveth Nile; Thee' deader yarger that cover The elegang reacoddie; The letter letter the water And goes iter heart of gold. The letter is book left yargeomete. Nevec a right walled.

Monostellan by this shapewagers, White water by occur second planting sit graits thing to you have been by occur second planting sit graits the state of the second second

Machiner pariprient white glide soft flowing over a bangail bed;

Brace cretical on the dissipling tide, through great per a bangail bed;

But contains of the earliest beauty he ripes from he trumid neet;

But contains of the earliest beauty he ripes from he trumid neet;

Jill the bright-daystra to the wear Declines in occasio scape to lave;

Jhen filled in her modest west she sumbour on the tooking crew.

Howar bright be like to be beauty and starry moved bods grape to lave;

And around them the soft shown destriptive about With a water observes small a radiance.

The water lifts to keep the rehalice reased salver bright. Sent of he he hadries

The under little her art, Then Sculpturalitie a statety Kinoriqueer!

(The treatities then art, Then Sculpturalitie a statety Kinoriqueer!

(Comming the depther as with the light screene. Of a pure heart?

Brifar lity of the wave! Rising in features grace with every excelpt

Brifar lity of the wave! Rising in features grace with every excelpt

Then sounds as it is opinist modely brace. Duralt in they call i

Then sounds as it is opinist modely brace. Duralt in they call i

There sounds as it is opinist modely brace. Duralt in the call

The waters be.

Whether with from or pictured years opered. The waters be.

r Botanical Documentation

Lly dasses a or Netrumbiacene; 3d has an enormo maeutrone, a well sideant the overy,

NYMPHAL Hexbs in a q. Fruit + celled, in Cotyledons flustry, ce and findy a citelle a single cotyledon b perced Richards on Netumbium not so labors to he a serve

take it may be calle

Polen Hoseal th

Milk present D Live are Expe-

Vecnation considered in section of the sees Sxop.

Fruit ves Bapage Bhisme of Casta

Roots of Nuch

Recogingto of Car-

Example .

Eleating

assumed to the de

EURIALE falit. (Annestega, hode) type of tribe Buryaldae, och also och des Voorde; tribe has tube of colyx adheeme to dall; petals distinct. Mughavidae (Carrellas Nymphaea) have both distinct, and Barchandae (Barchan) has colyx bee but could adhering to the dist seconopetalous.

Euryale seeds on a lare quest starch, concertens a facest from a linker & Chinese.

VICTORIA Lindley
seeds those called WAPER MAISE.

"Most gigantics beaut of water plane"; it Show, he its edible. Hath-adherent overy produced, reput being advante to disk of the

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[RAFFLE SIA Annoldi, of Asarina, Bo, even larger in he than Victoria; bgd & 100 thind, derive po 536

C. alba WITTER WITTER LINE of the NV3, (Rained 55%) expands abl Tim, closes 4 pm, low overace Rhannes better than valo gill for doing gray, Fee; long used advanging the tourning leather; a tillerable me. of been has been prepared from them. Here by acting titler tone; used in highlet of Socke to due det be agrade.

Lords in a view avil. Digaginas dentata, a white so at Old My has also a ked war,

Nymphicaletus, EGAPTIAN WATERLIA & Shind 200 Deposes in vast que in the plains of LEBP no Cairo when the ld is and ovater, Flor abt mid Sope, ripe and bot, Ac call it Workar, Has whe the & for the a perpy fee, full of tood secols, Well deser new Shaw by Herodotan & Therebec. high away Met Lig & Benington in the moutain governot of Procurate. Res. Malba, maly los are troubed at edger; in hottest yes of Ind Atra Am nato; t'in minds & rivers of Jamaica." Rh.

ANCIENT PLANTS AND FLOWERS.

in hot water the dry cells swelled into their original | bread of the Arab. There is no place in Egypt ne betanleally identified, but the intricate venation | trans-Mediterranean commerce. of the flower petals could be plainly traced, the coloring of blies, larkspurs and other flowers was this most ancient horius siccus-grasses, leaves, 1740, Ref.

water Illies (Nymphwa carulca and N. Lolus), identical with the beautiful flowers so common now in Lower Egypt and which have often been exhibited at the monthly herticultural meetings here. What gowers in Pharmon's coffin resembled those which now passes for the lotus (Nelumbium) is a plant of much later introduction. How the particular spe- a marvellously slow process. cles of Mimusops which furnished the wreath leaves

is now nearly two years since Emil Brugsch | was determined at last by its microscopic structure ley while prospecting for stray mummies struck and how the different blies were distinguished, and he famous lead of royal collus at Deir-el-Bahari, how it was decided finally beyond question that out ardent Egyptologists are still studying the re- certain other leaves were those of a cultivated mains, and every now and then some interesting watermelon and not of a wild colocynth which morsel of discovered truth is given to the world. they closely resemble, all show how difficult it is Animes I, founder of the Eighteenth Dynasty, was for any secret to clude the search of modern science, and animes I, founder of the Eighteenth Dynasty, was carefully folded up and laid away 500 years or so Dr. Schweinfarth concludes that Amenhotep I was t M.f. a century more or less doesn't count-before the probably buried in the spring time, inasmuch as the sear well-greaved Grocks were drinking delight of battle /leaves of the willow which formed his funeral aleas. on the ringing plains of winds Troy, but leaves and, wreath (salig ealsaf) were small and pale, thus far of leave nowers and fruits were found mingled with his dust, dicating that the year was yet young. Another de- - 1-5 %, and Dr. Schweinfurth has been investigating these duction is that commerce between Greece and no. 35 mi remnants of an ancient flora with striking success. Egypt had been established as early as the time of the sec. Wreaths and votive offerings and funeral repasts Ulysses, for in the coffin of one Pharaoh was a rest. of garden truck would naturally be dry and juice- basket of a variety of lichen which is to-day sold in ext. less after resting for 3,500 years on the bosom of a every drug bazaar of Egypt for its supposed meddesicented king, but under judicious manipulation | leinal qualities and as a flavoring for the daily, plumeness, and the leaves, attached to cardboard | where this lichen can grow, and the supply probably and trested like recent specimens, were sent to Sir came from the islands of the Greek Archipelago, as we the Joseph Hooker at Kew and exhibited at a late it does to-day. The seeds of a Greek juniper Phussoirce of the Royal Society. Not only were the (Juniperus Phanicea) which were also found, fur-foreign forms of the leaves so far restored that they could nished corroborative testimony as to this supposed

It is worth noting that the specimens in its displayed, and even the distinctive odors of some and flowers of many widely separated genera -do not show the slightest difference from process, From Dr. Schweinfurth's interesting memoir it the same species as they exist to-day in the appears that the wreaths were made of certain minutest details of form, texture or perhaps leaves folded to hold the petals of bine and white even of color. No doubt the men whose bodies were buried in the nineteenth century B. C. were very human and resembled men of the nineteenth century A. D. in all essentials as closely as the acacia now bloom on the banks of the Nile. Evolution is

INTERPRETAL Salishory (& Nuphan Same, Bermphonauthus, link, Denny hor, Hayri)

N. Luredon YELLLOW BOND-LILLE

Los reported to be styptic. Purche prepare a cooling drink to the dies, who they call PUTER CICEGHI. The stome we bitter & astringent, there prescribed in dependency; one + stored, & attes repeated touchings, are used fire fired out danger. Seeds eaporder out for in to of scarcing tribe wild people in comuse countries they peop; taste like poppy seeds, are track either boiled or raw like Miller. No aril present, flanctions, "Has a viy beaut, spec in swthel ponds "Rh.

MR. L. W. GOODELL, of Dwight, Massachusetts, has flowered this year a plant of Euryale ferox, a native of India and China; and, next to its near relative, the Victoria. the largest aquatic plant known. Like Vic. toria, it is an annual, with spiny, stronglyribbed, circular leaves fully two feet across, and armed flower stalks and calyx; but the flower is violet in color, and not larger than that of the common wild water lily. This in Pekin, where the climate is not unlike that of our Northern States, so that there is a chance, at the South, at least, that it may become naturalized. Otherwise it will not be very often seen probably in this country, as the flowers are neither sufficiently interesting nor sufficiently beautiful to justify any great trouble or expense in raising it. They are less beautiful than the flowers of the Victoria, which many of the Nymphaas far excel in charm and beauty.-Garden and Forest.

plant is said to flower freely in the open air

C. alta WHITE WATER-LIES of the NWS, (Raind 597) expands abt Tampelous Aprophets overach Rhimous better than cally all for decing gray, Fee: long used advangly for towning leather; a tollerable or of been has been prepared from them. River by astringetitier tener used in highlet at Societ to deep cloth of him a page, Beeds in a true will

Dymphose dentate, a polite sp of Old the has also a red vom

Mynophace lotter, K. G. P. P. T. AN OVATER LAW of Rhind and Favores in vast que to the places of he Ke me Cairo when the ld is und orater, Eles abt mid Sept, ripe and bot. As call it Warphan, Has whe the a be the a perpey fre, full of tom seads. Well deser ways Show by Herodetter a Phosphe; and and Much By & Bibliopia in the mornic purcont of Promuete. Res. Nalla, my live are toothed at edge; in hottere yes of Ind, Afre Am naw; + in ponds & rivers of Jamaica. "Ah.

C. Nymphica varrelea, BLUE WATER-LIER

Nousebox flow, Leitner; AUDUBON'S VILLEON WATER-LILY in the u. by rob Meebox fight it. Auderbon's Birds of Arm, 1843, go a colored rape of it a snon floor snog a let of it; may the lilie 1. 1. 1. They by Ger lot who ordered in the was kety land, But's that As fir a force skepth tol Mrs Prese reducing to an over the eyest stop, 40 55 p. 65, proporting doc it N. luteron ; undertest some; the fel involve it removed in the first hair seches to be a treated vaking sect (tot a store to s, von, box a yel the" "tes board to his title on the other in May, when the flee apper it is not the pade set I ar behald. It persons in water to 1-5 of length of thatiles destiles deply to depth ... I be traced it 40 mi alothe felles; it serves all att Jackson, 35th below us! Rhis fleshy, not coppas to alla but overt, anny and of scoles; the next y write on out be these so, the in-fill full & weach scale pitted; from some of these bover one therapy point, at let as the a root as the very proceeds on, & brothy wales a griph appoint of fire it suty of some y; proces it " or so, the a short pest, mike a cluster of ensul tubers, with many lost but season at least & are of unless of; & prospers apra, end is a smally to cot tubers; prolang thus 3 yeyles omical could,

Discopbice Lever of the Girles, the one tols, dedicty them to the raphylos who presided over the oursess"; so desire by Phonolog a Diane for by Eliny; "still proves where they one is, in the lakes a product of Thesiaby a 15-th-Natha of make between. Then of N senara skills prove tokener they save is, in the lakes a grand of their lake in breaker stable fields and the same of the same of the same by Carriers by Carriers. So . Bits of a rayly with the formulation, Water Can, Witten with a rayle and the same to the same by Carriers by Venus Chile, Venus Player, Myapipas chartes Allera juice to alle be larger in order to the same by Carriers by Venus Chile, Venus Player,

Dispussions advista Altra ; disty to alla by larger ciaes buy larger; usly a grote ne of stipmatic rays, a me steply neared in som with The recog N. exotremis Water st. winds to sayed rate; But wild part I Are, Detector, chloring (gotton read)" Have had var that Oled x Fahronitality took, Mischan; at Hymnite Mr. 518: NY, O, Ref.

Ration and lust on red sepals, or book story. Vous on Silver this would have

Tryer, prhildell, famed bot of last sen, rays "Ter fulle it good age inflow, busing ralds; seeds good in thirst, prairies diam breas, " Rat, says "matter proporties to Malba but much move to; more aboly used; new inchange in Mr. Her in it storch multipe, super certa ammonia, ubular, tactacic acts," "dyes a die tro a blk wine ve lina", "leaves ace excle feed for course cattle, in fanida they are extendingly british, for press " " foresh juice of the cross, solved so lessons juice, is said to be a good commercial to remove proples who date." But aids it has to he have up Toucottily Come cot-

by those present at the amory that the color of the color

the West for the Sage and Try and Try with the Washington light and another section of the Sage notice of th Ind condmin ogini a syss nosnos odi 10 AND EDGE TOOM OUT FURNIT PEGG OUT MAN

NVMPHASA Salisbury (Duplay, Smith, Depaybonanthus, Hak, Demayling, Hayro)

N. Lurcasa VELLOW PONDILLY

Two regard to be regatio. Purks prepare a cooling drink to the fire, on they call PTTEN CICEGHI. The stoms are bitter e astringent, therefore prescribed in desentency; can + storeday a atten repeated washings, are used for frod out danger. Seeds eagarity out his is to of searcity by the wild people in whose countries they pero; taste like poppy seeds, are rused either boiled or raw like Miller. No acil present flanchers, "Has a vy beaut, spec in swiftel pinds "Rh.

MR, L. W. GOODELL, of Dwight, Massachusetts, has flowered this year a plant of Euryale ferox, a native of India and China; and, next to its near relative, the Victoria. the largest aquatic plant known. Like Victoria, it is an annual, with spiny, stronglyribbed, circular leaves fully two feet across. and armed flower stalks and calyx; but the flower is violet in color, and not larger than that of the common wild water lily. This plant is said to flower freely in the open air in Pekin, where the climate is not unlike that of our Northern States, so that there is a chance, at the South, at least, that it may become naturalized. Otherwise it will not be very often seen probably in this country, as the flowers are neither sufficiently interesting nor sufficiently beautiful to justify any great trouble or expense in raising it. They are less beautiful than the flowers of the Victoria, which many of the Nymphaas far excel in charm and beauty.-Garden and Forest.

cumentation

BARCLARA When Betals are rawied up to the termine, on the central dick, on outside of on they even observinte a ruber simply instance of indexior calque a superior cords in susception.

CABODIFACULE Sr countie by TAG (838; as C-bear, Richy 1808; a vection of Edgety) lacese, DC, 1821: an order Hydry driber, Schleiden.

Dith, to My in bear distinct depelo for white true; + albumen)

Flores personelies; the sollery, sollery, yel or purple, Szing France Lang Song Ext indchot , tipped by harded starte.

Diff, by Nelaust w in hor + allowner, more than seed in a curpel, lit tower.

By ideanis by small is a vy strick layer of ovell defined invaluate politice, in whethe cells of the epiderani are introduced Schoolden: as trace of opinal vale in get submode

Steam, Life to consist of a mass of soul celled tisone minds 15-16 large wir tubes, our make ones; in centile of och is a proof wooder handlet, exercine chaped in the wante sects, we the conversely die invole. These hundles are of dain-volled straped tisme, to a solie (air)) cute in middle.

Am be Noto Coverney & in cover of Austr byd tropics.

CAROMEA Aut. (Mectria, School) Coquation is hold by Ling, 1982

Digitized by Hunt Institute for Botanical Documentation

BRASENIA Purch (Tydropekie Mich) (Rondachime love) Depurpures, ever seen bol fill

INFLUMBLACION, WATER-BEAUS, constit by DC 1821, I genus 3 sp

NEIVINBIVM. Just (Nelumbe, discret, Equato, Sallet) Provided to the linguist voltage, is whe setter fletby, thought to. Rhi comperced the pet, so builded to the honogramatical under to whe extressioned gast tunder from his first linguist. Start in solvers; themse the first linguist, enlarged enaloughter while it was tallens; they are leaded they to be to be to be to be to be to the cavity, and the cavity, anathord. Altimate U. Einster large or a fleshy totylars to be to

Described the control of the plant is an executive the would improve of all unserved a mark of affinite, have not in Nyroghalance a crace of it; but its cateful accommand to stand plant a crace of it; but its cateful accommand to stand plant all the function of provide the insett personned is excited, to bik in My at the control was feeled.

In temp or trop of N, Od Nover; most about he SI. For why can in By but and extra so, Delic.

Fruit of N, specimens. (6 pund the p 44) is believed to be the the By Boar of lydrogeness. Mutantil of are could not be believed.

Reich 599

Fle of Marcionum is below to be for that Mythic LOTUS out so the occurs on the manarment of Equation 60 desce. 3 by white way, & blue.

Root or Covery stem used for food in China; the tender about of the worts between the ester in Ind by nation boiled or in courses,

Finite is not the Levius of the Levyhord with was the feet of the Leve-brech, the Lizgybus Levius, at Rhammaccae for nome grows as onjude, the please of drupe of 4 hours of). In Lecis trethis of his, coll, for the dry Andreas Brakers, which is a point of the set of a feet of the Caustin has point of a correct received by Chinese as selected, a syperiferm is call forced and interior to a correct received by morres; one is known in meet a class of free forces of the force of meet a collection of the feet of

IV. Luteum

Nuttill sign its tubers us the distribute, are as fair inacous a special te relies to led, used for fived by NAma Bods. Endlisher sage the nilling visit since of tenths a firstle is easily and a manually application, a the perallember and of Aprice flow, are after artising a most used the flow first. In the first and a first and in a spiral role, see flow, are after and a first and in the first artist and a first a first and a first a first and a first and a first and a first and a first a first and a first and a first and a first and a first a first and a first a

Rebind rays of it p 270 it somes away plet can't be elicing, and in the morale persented.

Presented: was called by Herdernes the My-rose of the 18the, by Pharphratus the history of Artimus; "Are of a lively had a be flagelle the more of a watering-year, pirted to dr. bullway sails contag an objected as large of a real libert; but of the planes to a ways note; peed in vace by member of the flagelle to be to be a ways per persent in had, and to be by

or Botanical Documentation

PINES

Note trees backed ably in man, one-bry, simple by, needles; wood cells with backered pite. Frances by Juss as Contrese 1789; Liv collections Pracess, a bet, Consesse, 1855.
Dion of chars, Iny e 220-2

Die iats Legge (maers, Bentham ar) Abletes on pillen concretion), die grandlar ends, intermed band; Copiecastas, spherodoli

G 20, sp 100.

En part in to not the time to bottert of Laddady. Bein yout in temp? + in Bus \$10, China, temperan. At pert in N vy differ \$; in N, Pines, Landy, Coday, Syruca, tuniper (10 \$), heavening Poderous, Parmars Butessas Parcyds.

Gigantic, fastgoons, nother robusts

Digitized by Hunt Institute for

THE STONE PINE

Renel galmond-like tree, Pinus pinea, a clegant passad-like roots editle

Fistory difficult be. the anc. do not distant betwo the contern; exc? grays, elarn the P. pices; the other has the 2 names of Times and Teurn; the Pine it it occurs comes under these,

Homor kn the 3 wedarn a tall aspiring tree to epitheto loty two eving, because high, = the Fire therefore

bis times occurs in 2 pls, in Iliad

Then arthe note add or poplar and Or pine (to mark for some great admired) Note to the are till to a greange and It books a proceeds its honor on the process thus honor on the process than the king.

Here the adj blood or yelloody, a the associations of the control of the con

to take s. poplary leads more naturally to the larch for (or Pinus pices) Pinus prices. So Chysses on Catoprote loke tulids his only at elm, poplar x be, every.

Same considerations apply to 2d passage.

TITUS & TREWOY have as four demental measuring = pitch-receives tree: Pheophe says when he called revery the heads cold TITUS: gives details, but two definite; O to choo while the cult'd pine had cold represent the Cir notes, one was a foreign tree. Is caugh from a or a tree for the cold.

the values for the nuts on the cone one one at let good, for all kinds of pipe of the cone confined to pine her month or mantioned and doing the start of the confined to pine her mantioned and doing the confined to pine the confined to pine the confined to pine the confined to the conf

pigable or pine-nets; The continue sides of Pinuts being a favorative dalacty in Sicily i describ a pleast resting pl, where there size, birds twitter, trees speed acrol chade & pines drop the next (for other the cone has hung for the seeks open natty a drop the nexts to be then still edg to be cracked open)

In Italy Cato sike of the pine there; tells how is sono the knownels; Pling begins his enum of tree fruits to 4 edible cone-knowns, angethern Pinus varing, it he pinaster on villed pine, who must be Plaurini boiled to honey a called the mixture aquicels. Pling the ye very his celebral te to Pacitus, oper the endle is ring out of Verat to a Pinus, we very out of Verat to a Pinus, we very out of Word to a pinus, we very out of Word to a pinus, we very out of words to a pinus. Petro gike not as a forcest but a parden (theref forcign) twee; Virgil pinus inhortis, Ovid aulta pinus, Petranius distinctly points its bare, topening touch a voding rustling roof. Marcial voasus the trache reserved beneath the Pleas the heavy comes follow ye board

of facing any the test climbs bight nature now gets far he the share ! and put of facing any the test of the heart of the share ! and the share to cold far it art Turia; from the campie administ of accretional to goodens as know; lardy extensity planted in the sich Campugna of Naples aby white words vice change muchnism shaped convens of tuffed her

o sion, corner for

Ser in ships we

such clear of

Noble troop to Dio into 2 geps, (n

G 20, 50 100. En perpet man

Gigantic, fastger

Correttion belown is it to this or, by, we use it in the this life life . Novo & their denser groups (most on the electroated proctum. Founded by Just a preprince of Ravernow; to this R over its saluboious air the own by Disa of charge, is manches Poter, is an a transver sea forting \$ +6 mile alo show 3 bod marshes; P-toc. is as a farmer sea-bottom, ++6 mi ale share, 3 body in wh form we are accusted to see the pine, we here had many builds of grand old trace to the strangest & most curiously troisted bas; & betwo the rendant work a tuxurisht provoth of should a creepers covers the damp & sertile ford in woonderful variety. An author of last cy ctd +300 kds of plts in the P; & smoogst them sing & chiep x breze innumerable binds son voinged overtures; who far abo, the breezers the netrasea to hisyers unceasely three the best the Ps". This ye glelds 9000 bu. p. kernels a g; the empty resinous comes afford the best beauto-fices. Mainly on new formed ld, see in t Romans: ed not no bapted bet t Processius, Whole territory was no doubt pich in P bet; Faenza no R had culted Ps ook tovoered aborde soon fields, in ds of Silius Italicus. Austs chose R as lof the 2 stas for his fleet; prob bee of milit prolit reasons, not be trees, A pl called Pinets was sig Rat + Bothic invasion; sous to be by NW of the city, not where it is now, Tigeter cas ped to write the best at a t when all I two secret

openature of constitutions & or moveres of technical still, Danie savo & adm it, calls it that of Chiassi, ie classis, ie the old harbor of R; Boccocio so too. It was once people so clock monasteries; then of the love; on union of It, It ce he ceded it to the canons of St John Laterson, there to a private indio; wh contracts were to Aulibed by It courts; It goot have paid a reldy moderate sum & took post of the P; capital of the P calued at 4-5 miles brancs, Citys of R bo by and custom, extenso rights of use; beace complet that afterde casy livelihood it attracts vapabrads; still the? is considered the palladium of R, stield the cy a district to poisonous exhabitus & tides, & is valued a operished according," Hebre,

pensine, comes friel by an in shipted

or Botanical Documentation

Founded by Ju Discuss of chara Dio late 2 gr

> G 20, 00 10 En porpor temperation.

> > Giganticità

PINOS I Blue 158 SAMPTO RAINA 456-469, 40

P. polution ting inian 2, so begaty west in many the wares by Dit of the position comes with

R. balogenies, recogs & Diore says My with Sun line, von largely used by the in the the

P rylverer's yields Euro oil of twee, and & Burgundy witch

Prumilio y Kimparian taleam.

2. Pinarter q. Bordon tunpontiae

Prinsignis a well ken Cal commend sy ne Monterry

P. Lranderrianz, the STRAN PIPE, 200" high, state, a dipoled in its bearing, trunk clean of limbs for 20% step 20% for base,

Digitized by Hunt Institute for Botanical Documentation

ABIES Towns Rhind 469 A. Nectionate, SILVER EIR, Pions lices of L, gladds Serasbe turgestise

A, balsomea, BALIN OF GILEBO EIR, BALSAM FIR, glelds Canada Balsom,

LARIX Tourset Khind 270

Com LARCH gields Desertion turgentive; a section note, Manna of Suc Briang on, exides to bes; when hum land bockets the live, a pun isones to hump week in as Cumpit Occubergiouse, vola la guna-avabit is volatly truble in votes. Barle and trbe as week

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CEDRUS Mill.

I Carradensis, Thim LOCK; spouce beer for its bis, 2 of Ables algo, 14.

CUNNINGHAMIA & Be (Belis, Salid)

ARTIFROTAXIS, Doo MICROCACHRYS Hosla, GI, SCIADOPITYS, Zucc,

ARAUCARIA Juss (Dombeys, Lam, Colymber, Salist)

A brasilionsie evs a unt boart coin

A. Bidwilli, only A in Auste; BUNEA BUNEA, Mr. Bidwill fd notice of Moveton Bay beed on seeds . It.

A instrict seeds often when book Rhind 476 SIR J. BANKS'A.

A-exceles, NORFOLK I. PINE, Khind -126

EUTASSA , Salist. (Altingia Lord) Exerceles, the North I dand Pine, an imm tree.

DAMMARA Rumph, (Agathis, Sallet) D. sustralis, the KAWKIE tree of NE, 2000, have I it compact only as knots, for volutional boart of the nory are now inade, Gus a hand brittle regin ik copal

DACLED LUM; ma on in NZ has higger than Mosser" D, Tariffines & RAKATERRO ANZ to 2000 high

I oxycedous upd to by he the word for vola Gar carved the imager of the proto, letid it, is veteria, practe. J. Sabina, SAVIN, benies scinnelson, diversite Rhind 477

J. communic, pareales on of Savin vers; berries directic, used to door fin. Rhind 105

J. process, RADD or THE DA of Atyssinia, of timber val, lot begen been there, ward durable tim builds; same or near as J. phoenices THULE CARPUS, Trauto,

> PHOJA Town (Biots Pon Platy oladus Spart Cypacissa, Pra) Practidentalis, bencies postale of Savin qual. ARRA VITAE Shind 775

Digitized by Hunt Institute for Botanical Documentation CRAPTOMERIA PM

CUPRESSUS Privat (Chamaecypanis, Spech) CRBRESS; once that fetrzitujal, xitt iil Gales of Cartane, Lonard for stip 110 y, Constantine to Engelingenest, were of it life, C. they older, lot eaten poisoned 2 in in English

C. macrocarpa the Callypress; magnifigure at Cypress Pt; val to the State"

C. quadrialvia, of the the SANDARACH tree, the ARAR PREG of Barbary yields a plant 20 wide, wood that by Bucks independentle, used too the ceiles Ales of the mosques, S, a whith, yel, · Found on MtAtlas. . brit, indeantly some, substee, to scrid aromatic take exides to it

PAROLINIA Endl. (Pacylegis, Brongo)

PAXODIUM, LCKick (Schuberting Mint, Condylocarpus, Salist)

SG - WARRED A Syder Release Reliance to TOPPHING TONIA LINE SAND-GOTTERA Linear LIBOCEURUS Eng.

SE QUOIA Endle

TAXACER, constituRich, 1826, Dg. 50 ap.

Dill to Conition in hove huits not calketed in cross, cach wide privage singly unproddy barde scale ; organizate to than that of C." Low muts copid, then the vensto Ferralle, is, british fee, obevon thens,

Milder climates or on the or ord ; one troops six devictions; com Levo the my of in Euris. com in Not Asia, Most in ne no Asia.

Tryx elasticity; Ivy fetid yit, k that it was oy a to man hu aprille that dor in too tope dopes. internot dangers,

Rhind 473

brit, indant, none, sub

PARCIANIA Endly

TAXUDIUM, LCRIC

Digitized by Hunt Institute for Botanical Documentation a mancin to Taxade g. winde

Resigned Ik Cenifens

TAXACER, constitution, 1825, So, 50 sp. Diff to Conitions in have bruits not collected in once, each once promp or ingly unprody harde scales; organizate in than that of C." Low muts copid, then the romato Foundly, ic, firsted Ecc. obever thens,

Milder climates over the world; von trans is indeviding; com Year was only or in Buris con in Not Asia, Most in renn Asia

TAXUS, L, YEW, Comsen timber out, unemented for duratility election; Irs held by points exe to houses a coops; Cacraw relater that K cathrolus work by it, a that it was by able in Goule Gorn; an It physica says Por live gra in and dreet oman he aprolle that of Digitalia on heart exercises preduce circulates, total it too by pensisted or in tortope doves; but pretito D to its effects not a commutate in the system. Ben'tes not dangers, Seeds at the condesmo

Ilac 261 Shipe, Name to Wa, I, whence to Wy, Rhind 273

PODOCARPOS 4 Her, cloberegenus map in tero Fam; 3 Eder Clid H.

P. cuppessina, CHOMORO, 1 of best timber trees of Java

P. Totake a the not val timber in N2; purp of the tree bas to cause of coase any sovage natur.

DACERDIIM by I's bose.

TORRESA Senete (Canyotarus Luce)

T. nuts are my astronoporate s are used by Jap, interpreture transporter wine, values likely to be by detained land the Emp.

NAGEIA Gaceto.

PATTHEOCIADUS ACRICA (Tholominopring Robectis, Min, Brownerers William)

P trichoma poides tack yields a red dyes

P. Khomboidalis, jassed form-veined xhomboidal was fied by 231

Digitized by Hunt Institute

CELHALOTAXUS Zuce

SALISBURY IA South (Ricko Kand) Frair at large as Damsong seeins, achieges, hereast art by tops to promote againg tree algae transprayer and in Bury by

GNETACKE Constit 1834 by Blume ; 2 8, 15 sp.

Sand traces by much bold, or reconstruct charles; Secreta volter, but resigned; for open clustered; jes this soft scale; for a speciality of the secretary, retic; would reconstruct on circle aver; this separated in cutting at break; to wary; read druppecents; such cost tickly alter leathery, or shelly an fibrate one. I succellent out.

Brokeys of 2 cotyledness, Mela Ans to a colyx of the depolyx of 2 cotyledness.

E. PITEDRA L., navor it temp Bux As, et som; al experiency Meyer 18 by a firs of the As ex tracky here in the shops as exercise, und a America Ura maxitimae. Emit would precede a shocky subscied atty purpose. Forms a link betto Confless and Casuarina of topentales, of Australia Acades Casuarina conference.

CANDETTICL (Then And). Genemon, Rumph, VIa, Rheede) 7 sp. Kallicher. Erwar the link beuw Craiters a Chinausthacow and Tiperales. For hortest India & Quiona. Seedent lived to actual woody tissues can adouge; outer fleshy integ; then the layer of needle-like wordy ti ry condity seprety beach when dittly lighthairs of Crophage. Funculus reather of Cycas; both contract it in coster; it is commonly by, evaluate, Cellulas, Cellulas, Cellulas, cellulas, traited, while spinolly our incepty twisted; seed I in 18,18 unless \$3.51

Grucens, inter of perting lined to etaping bairs; seeds executes; steam exides a tyte

ra Botanical Documentation

CYCADOCK constit Rid M. ; 6 g, 25 se; oberg Equipopers to simple evationares temp problet related plante loss, authenticens cone-scales,

Saal traces or cheeks, the laborals; seem cylind, spheroidal or dichorly breig, also strong to state lexespectars of had overday thatler. Mass of firth worn stress, treated by voordry transluss rings, seems and had overday that sands large single south in replice a tomoster, clinically also pleased by conditions.

Personal Word definition overday of a sylved ord. Live pleasants lad voordry persons from the first in body letter or fine along tomorph order, and the periods to the periods to the periods to the periods to the periods of the per

Thre at let coted to Eccus; by Adapter to February L. bare adopted idea of A, there to Eccus; and day Ventenant suggested and Cyras & Zamaia a sept tribe; L. C. Birbard, the lote, let nod voem an order, 1842, Other it ross intercaged bette Feens a Fabrue.

Deo, orde sea lig p & 724

Natur of trop or topay Aso, As; are in equipped Ase the at Cod B, and adop ance Immed a a consider part of Boxa of Got Br.

CYCASI

C. revolute is Tap a led of super project for colluber inter of steen; ed by Physiology to be in highesterteen; officer able to be carry and quest le a let; aft lowed I to the a tree rice of the or. Fy. hy p 805

a marco . The first car of special to the first occasion the Minness of provident of the Best of promised in a marco. I placeful of the transposition of the special of the

DION Lindley (3 latysamia, Ruce)

Diedule come in one pls in Mexico; the prt seeds there from a kind of Boron order

2AMIA 1 (Actornamic, Rist) Ang charite veget of & Carold, esp in the got tract of thicket on the Coffee function.

Expressila x or downtage yield an excit Anavart in Bahamas x or WI.

ENCEPHALARTOS Lebra; CAFFER-BREAD the various op at (6d H

MACREZAMIA Mig.
M. spinalis supd to be the or on the cost Autre groves to 30 high

or Botanical Documentation

DIESACOZAMIA Lehm

CERATORAMIA Ad Brong Diant.

