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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.

7044

long 217

wt 48



30/1

I-3

Node of stem & leaf base ✓

Sierra Leone No 18

7197

long 148
(in anther cells)

Steth. dry. tra.
v. albicollis

2.4 ✓



1570
//
/

Sierra Leone N. 18

X

7076



1832

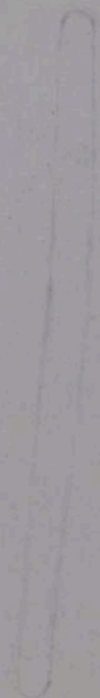
1

Nit. oblongo-cylindrica

Not seen

Sieria leone by Habita 1460 no. 6

70 49



1850

1

Rays

oculato-lobatus

[= canbriaca]

Not seen

Sima Leone 18 [= No 18 - Venian]
- from 24 list of 21

7102

→ *Pennisetum cylindraceum* f. *magnum* (H.C.)

(*crispum* (L.) Link.) ?

No constriction or sinus



1858/

44 x 13 (3.14%)

J: 6

Siens Leone 18 / 1859

2053

[I. 7. x 890]



Pennisetum purpurascens ✓

890/11

Lower Lemma 18

7054

J: 12/1554



1550 / 1

Clout. infra-stem v. rotundata [✓] _{**} *Guineal*

Bombally 1457 E: 1

Sierra Leone 1

2052

[J:13(V1550)]



1550/1

~~torus bacillare?~~

Clot intrad. + volut. 2
✓ HC

diene lone!

7130

[I:9 (1890)]

a)



+500,

C. h. h. h. h.
[282 x 18] (46)

I:8

b)



890
/

C. h. h. h. h.



[I:11]

1890

c)



890
/

C. h. h. h. h.
+ in T. h. h. h.

[98 x 19.]

I:9

Sieur e Leonc n° 18.

7130

b/

small, 2.
bitter
multicose desin

Cl. bellula

long 110 μ

[x22]

a/

long 70 μ [x19]

Cl. bellula ✓
var. intermedia

1150
/

Green leaves 18

7071

long 361 μ
wid 87

[126^h]

[5.14]
440^h



2 sides cell-
kern. gut-
ally membra-
ne all sides
126^h

membrane
glucan

chloroplasts
parietal, py-
renoid, but
nucleus

✓ 112
Chlosterium
Chromocystis
f.

obj 3 x obj 20

[420]
[47]

Steno Lema 12

✓
Claytonia

1520
1

Not seen

Sierra Leone
MS 18

7134

Ch. A. Ehrh. longi
v. subvaria
(ex. Kützner)

530
/

Steven Loomis 78

7048

[93.15, 0.443]

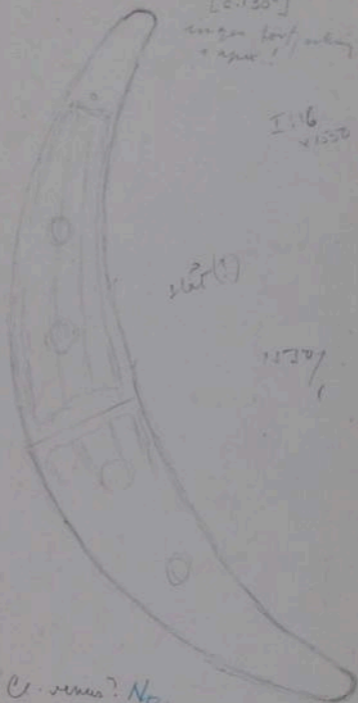
[c. 130°]

angular leaf, only
+ apex!

I. 16
v. 1530

slat (?)

1/2

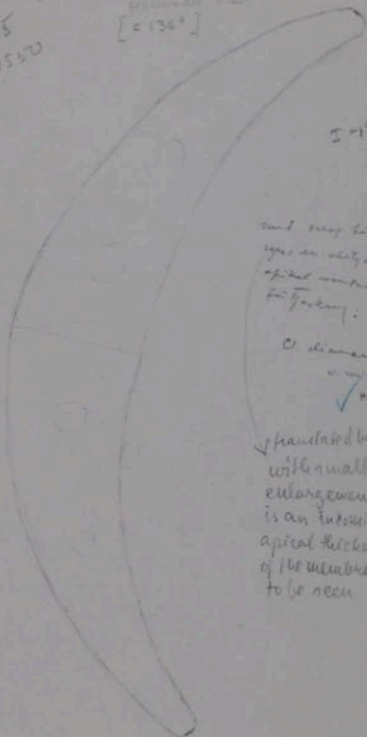


(*C. sericea*? No.
C. diandra v. *nigra*? of Kinyon

Sierra Leone 18

F07a
I:15
x1540

[96 x 17 (width)
[c 136°]



S-15

small very thinning
apical membrane -
F07a

C. diameter
x 1540
✓

translated by H.L.:
with small
enlargement
is an inconsiderable
apical thickening
of the membrane
to be seen

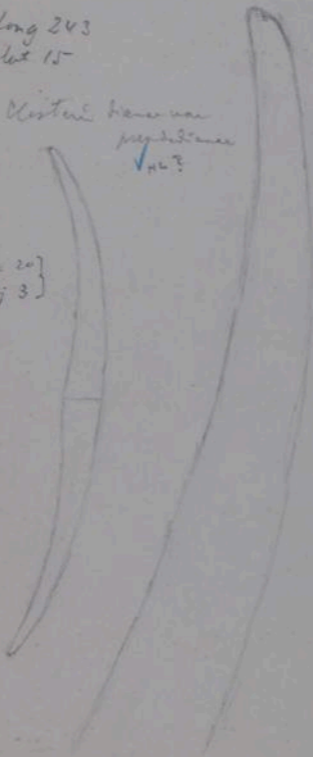
Sierra Leone 18

7078

long 243
lat 15

Cluster *hanceana*
pygmaea
✓ Hb?

no 20 }
of 3 }



Cylindropuntia
Monguensis
Stem at base
Diameter
Lanceolate
In fruit
Hairy
Serrate
Mass
Stem at base
Com. bipartite
Hortaria
narrow

I: 18
8890

1520
/

Sierra Leone 1960 by J. Huhtala No 6

7045

long 319
leaf 46

II 70 x 530

V

VERTE



120/105

Not seen

V

Clusia presumbiana
H.C. Thorp
of 1921
V. 191, 192

Sierra Leone 18

VERTE



V

alg 3
ok 20
Nov
T

1530/
1

7129

[90°]

II. 25 x 90

Cl. 12 stria



✓ see
 Cynthis? f
 Mont. sp. -
 ?
 ?

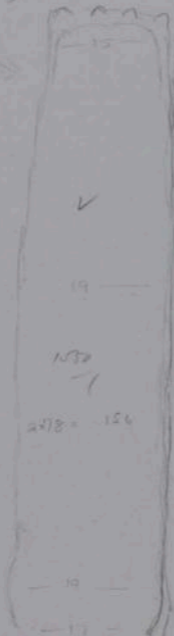
890
 /
 1

Pierre Lema 15

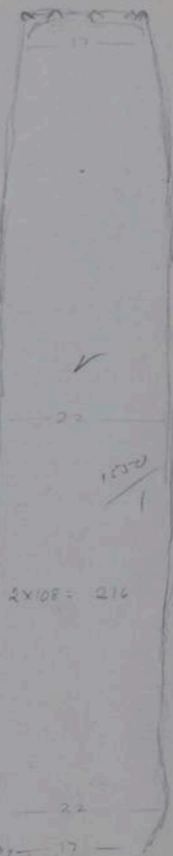
2121

↑ *Chromolaena*
[*evansii*]
[*be*]

E 29



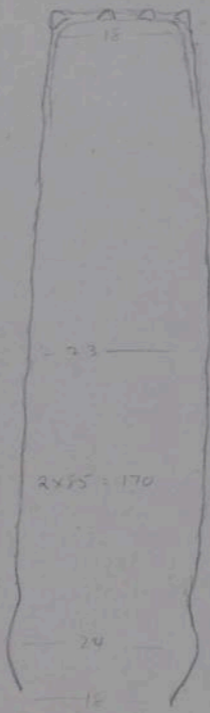
156



216

View from No. 1

↑ *Umbellifera*

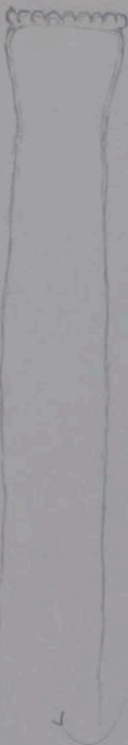


$$2 \times 85 = 170$$

170
—
1

Umbellifera

7136



~ 870
/ 1

long 190 x 2
= 380
dial base 23
= diam 24
= width 20



Pl. subcorumbata ✓
(accident 29-1)

Sierra Leone 1

S. subcorumbata
var. *detusa*
↓



VERTE



Sicaria leona 1

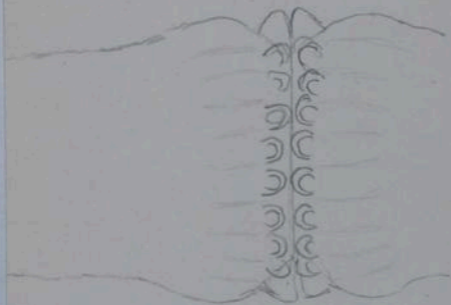
7077c



1571

7077 d

P. caldensis var. —



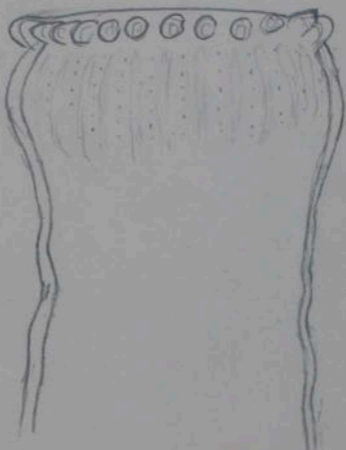
1550

1

Sierra Leone by Hutchins 1460 W.S. 6

7074 a

VERTE →



v

1570
/

v

7077

II 30:2

VERTE!

← suberosulatus F (HC)

Plant. caldensis
var. - ?
No

375
31
118

[x400]

long 418 μ

lat base 38

lat apic 28



Gamma prov:

com. suberosus
(39 x 39 μ)

Nationi dipites

Sierra Leone leg Harbata 1960/196

7128

Pleurat. watsonii
HC

long 312

lat near
106.

Not seen

11:34

1330/1

Simeone

1018
1959

7103

37-38

Eu. subkeratolum var.
Sachinath
① HC Guise
✓ Romal
fa.

4



1158

1158



2

1158



V

1137

Senecio loma 1 / 1959

7056



980/1

Eu. subcalata c. 245
 v. *serotinata* Hc

Eu. tenuis 1

III: 59

7055

?



a bract
fringed-
margin



microstema sp.

1130
1

Cf. *M. arcuata* & *robusta*?
M. simplex

only one female seen!
abnormal?

from base 1

(X X)

110

Aug 5th 11

11



1520
1

See lavender stem (X)

11:40
(11)

Not seen

Lower leaves

242

long 25 42

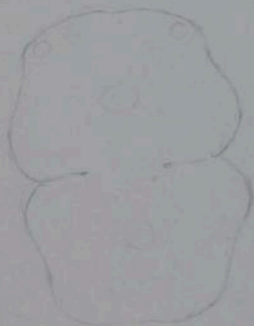
Quercus - SP
HC

?

L 25

W 18

I 7



2428
x / 1

Not seen

Same Line 1



$$\times \frac{24 \text{ EP}}{1}$$

\checkmark
E. bicolor f.
 = *E. bonale* var. *cosmarioides* (HC)

[12 x 8, wt 3.1 g, approx 7.5]

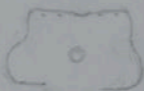
III 43

from home 1

Flora

44

S. berale ✓
v. *grosebledii* f. C. G. 1921
III: 21



2428
—
1

III 44

S. berale

7101 a

Cuscuta f. ✓
v. gracilior f. CMC



1550/

[13x13, wt 4, approx 1 f]

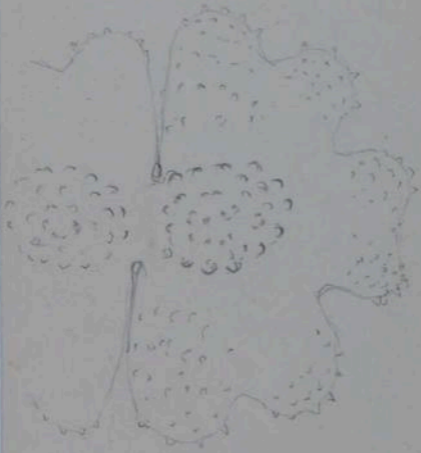
10:45

Sierra Leone 18 / 1459

(X)

✓

Desmodium uncinatum
on grass com
4c



11/17

Not seen

1/25/51

Have been!

X C X X

52+54

long 32 μ



1530
/

Es. validum var.

cf. Boenigk, 1930

151

= validum v. retrovalidum f. (HC)

long 18.4 μ



1520
/

Es. validum ?

too small



1518
/

= validum f. (HC)

Spores Genes 1.

1534

7106

53

long 25,3

(approximate antea
2890 (for long))



1853 /
/ 1851

Em. mit Kernen? var?
of E. validum f. Boursully 1918, II, 20

→ E. validum v. subvalidum f. (etc)

Siera Leone 1 / 1953

IV. 53

7114

58



1550/

Pl. 56

E. crassangulatum No.

~~*E. sublobatum* var. nov.?~~

E. humbertii, Bouffr. + Leboine
Madagascar 1946

Linn. Linn. 1

7057



c. latius

1550/1



c. unice



c. dentata

7057

Sierra Nevada

1114 C

McPherson
7/14



1550

1

Eu. crassangula

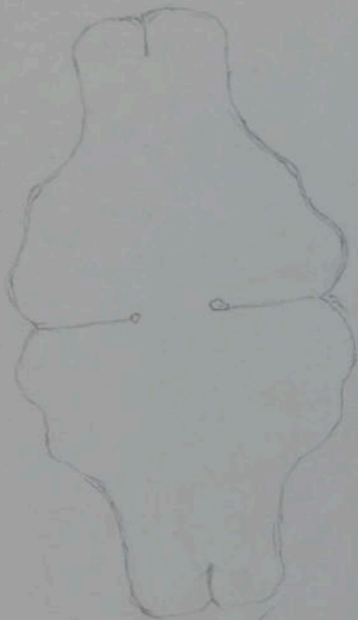
Sierra Leone 1/1107

long 76 μ



890
1

same leaf 18



← *amata* or *dilatiforme*

11/20/1951

Not seen

(III:35)

Sierr Leone 18

7123



1150 / 1
torreana? *bracteata*?
erecta?

[23 x 16, wt. 7 apr 12]

Sida lewisii W. 1

omitted



[*E. bivalis* f.]

✓ 2428
1

[23 x 18, 1st 7, appx 14]

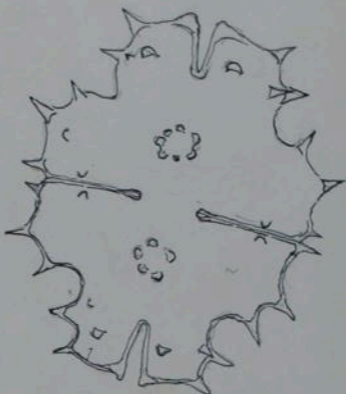
Mulle

Sium bonif.

70 47

long 47''

c. sp lat 40
nb 8



Eu dimericata v. *myandae* n. v.

14 *E. flavescens* → *subura!* No
E. axillata → *subura* No

var. *E. evoluta* in Presc. & Scott 1945

Ref. Bourcelly 1957 3:28

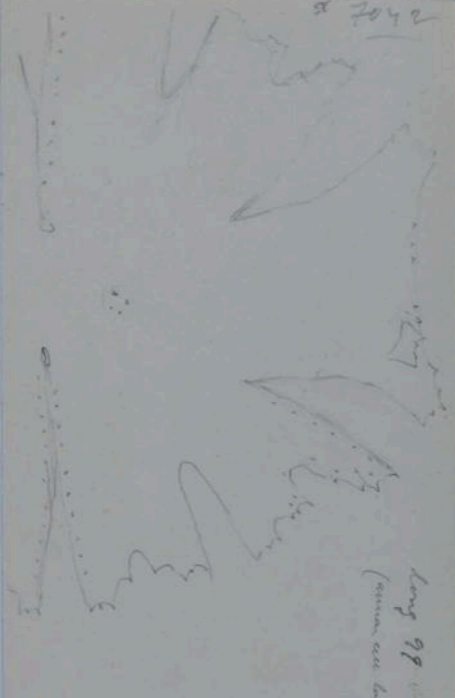
II: 2, 3

Not seen

Sium lewis 18

III: 41

7042



long 99
(same as long 107)

M. americana fa (2)

(at var. holdii according, but non-identical)

Not seen

VERTE →

1258

2. 1/2

1/2

2. 1/2



←
VERTE
1

7042b

71245

L

18

kurze unregelmäßige - von
Kornen des etc.

x 890

1



Grüne Linie No 1 / 1919

7124 65

Utricularia aculeata Schreb.
 s. Remy de la Roche

✓



1/10/68

E 60

Sieve Lane 1

7124 4

✓

61



Urtica tropicalis? No

U. mitchelliana var.?

var. *semireducta* v. nov. IV 61

Sierra Leone 11/

7124 bbb

✓

2140x110

2 7124 c



Fig. 1

M. *rubra* Schlecht
var. —
Pennisula de He

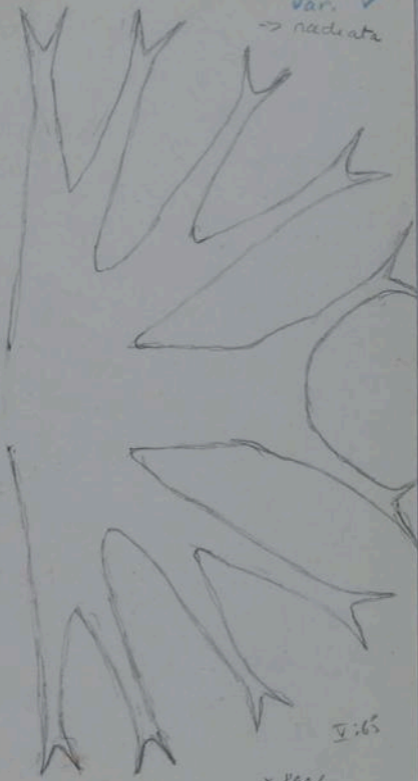
Greenhouse 1

Fig. 62

71153

63

una rufous
var. ✓
→ radiata



V:65

x 890/1

Lien laose 1.

7058

64

radiata He



890/1

linn. radians ✓

Fig 64

Sierra Leone 1

7115 a



Ok 20 x obj-J

radiata HC
thin red ans. ✓

Lichen Lione 1/1959

F079

68

L 30

W 18-19



1550/

Subglobosum etc

Actinostachyum cucurbita

Actinostachyum

?

too small!

68

Stems lower by Hubert 1960 11.6

7118

19

long 44

lat 38



1550 / 0551

Casim. wollei Gal (1924) f. 66-67

(= *C. globosum* Garod. *Wollei* Sam. 115. 49. 1924)

Act. wollei (Grönbl.) Teil.

v. *calium* H.

VERTE



Sidaea leone

1/1929

7118

long 44

lat 37



1170 /
|| 0.15 /

VERTE.



L 70
W 28

72



1/15/11

C. glabra? ✓
→ A. cucurbitina (He)

J. 70 72

Irish leaf!

7059

L 74

W 28



1130
1

C. Clevei? ✓

→ *A. cucurbitum* (H.C.)

Sierra Leone!

70462/b/

73

Cylindrospora
Pennis 2
Cut
7-11-73

b/



a/



7-73

150/

100/

7-73

A. C. eucorbata ?
f. *aculeata* (He)
Eq. h. subf. ...

Pennis term No 18

7126

L 31

W 20



1/100

"Ariinutacian" * Wobley
→ *Cuscuta rotundata*? subglobosa
(near f 73) ex T. L. W.

Siem Leone 1918

7060

74

P. cucubita? var? AC
zonatum var? No.



Zygocera
meatran
kuangal
tyche

Cosmarium

1520 /

cell. 32 x 17

100

Not seen

74

Sium bonum!

71226

78

4

Aug 10th

at 11.5



28425
1

C. biculata

cf. *C. subquadrans* W+W

no.

no

Mon. p 178

LXII: 11-13

[10 33]

S. curvata

7122 a/

L 10

W 10



1550
/

C. bracteata ?

C. tenue ?

Sierra Leone 10/1

7030

77

Spores 16 x 13
149 cells - 8 in lat.



1150 /

Cormor? asphaerosporum 1072
HTC
v. abrogata

biome terre 1

7110

76



C. purpurea? No, much too small.

L 29

W 29

Z 17

T 18



1550/1

membrane
suborbital

cf. *C. trachydermum* W & V
 which is granulate. Madagascar. p. 64
 near Leon ? VI: 26

7138

(AA) ^{v-50}

L 30

W 17

I 3



1550/

6 verticillate

Corn contusum

C. indentatum Grenbl. ?

Sicily June 1

7080

Handwritten notes:

- *Gonitopsis montana*
- *Urtica*
- *Urtica*
- *Urtica*
- *Urtica*
- *Urtica*
- *Urtica*
- *Urtica*



Com hammer?

C. trilobata?

Pine cone

1960 Nov 6

7139



10/2/11

Corn pseudopyramidal

Linn. Linn.



J. 2498
1

Corn. exiguum

Perhaps

Loans home!

7113 *ce*

VI-96



1550/1

P. eripum f.

Sicula longa f.

VI-96

7113E

59



1551

exiguam
eciguam
Pomona ~~plumbea~~ ~~plumbea~~

1551: 59

Senecioideae



①. Zonite var

1872/
/228/

Srena leona!

7111



1550/1

P. zonatum var. *microzonatum*
OK f. *cylindrica* Scott, *Hydrob.*
Diatoms V: 13

Sierra Leone 1

7043

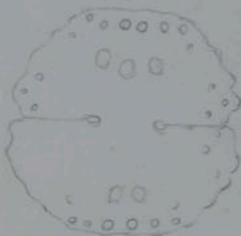
95-96

Cornu polymorpha ??



95

1855/1



96

Not seen

See page 78

7052

44 94

L 23

sp. —

W 24

T 10



1650/1

lora sp.



Gf. *C. depressum* and vars.
no! R4

Not seen

Sicera Leone 18

31 872



1851

Sida acuta

7135

Lo 30
La 28
I 8



15.50/

C. ceratophora v. *aficana* Mowbr. ?
neo!

> nova var.

C. ceratophora v. *hirsuta-leoncum*
n. var.

Lindl. Men. orig. > long 32-34 (1910) lat 24-28 p 485 II: 6-9	Guss. 17-19
--	-------------

hirsuta h. var. no 1



12/10/11

Green Leaf 1

Ln 30

Cs 20



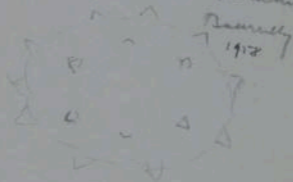
1/25/11

Green line 1

7108



Cosm. centrophorum v. *africanum*



→
VIERTE!

Liane Leone 1 / 1957

7108

Cornu elaeagnifolium R. Br.

(36) 10

29 Pa

(11) 1st

20 diam



VERTE



36x22



RFS1

34419

1st 7



ficus lene /

(3f) x26



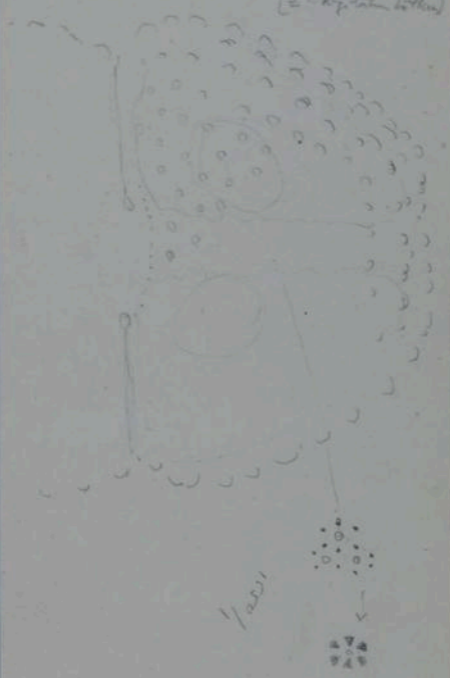
1/11/11

Sium levee 1

7125

105

C. decorata ✓ W & W
Cosmas. controversum
(= C. dipetalum Hooker)



1/2 W

Siana Leone 18

7133

long 38



C. bonum ✓

1872
/

omitted
details
uncertain
from name
as South

Simeone no 2

2105b

111



X. *rectostriatum*

¹⁵⁵⁰
X. *urniforme* (W+W) Grönbl. + Scott
comb. nov.

Siam *long* !

710562

III



1537
/

Sida leuca !

6105 cc

109



450
—
/

Sauth. rac. barkeri

108

h. rac. barkeri

7105 a



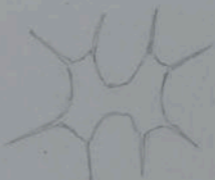
"Kaulth. raciborathis" ?

and Cosmanon ?

1/25

Sierra Leone No. 1 / 1959

7061


 1/25/11
 X

Amthud. aciciformis ✓

Same as 1

7081

115

to the inner of
phloem?

17006



1579

See my drawing

long sep 10, sep 14
 lat - " 12
 137 6

Since done by 7 Habita 11160 no 6

7085

Lssp 19
osp 25

Wssp 21
osp 28

I 9



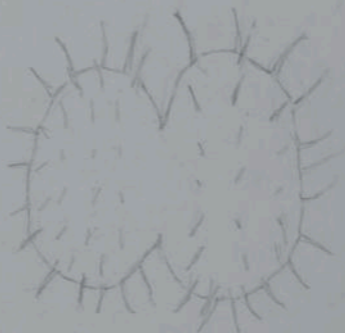
157
7



Stem leptodermis leptodermis?

Too small St. dejectum?

Sierra Leone by White 1960 No 6



1870/1

Stem tubifera var. ? 2

Not seen

Some loose 1

L34 [S. glabrum]

(XXX)¹³⁵

Wesp 61

I 14

From Arbores ✓

Too small for *St. wildemanii* var.
unispiniferum



Stacrostem

Line Line 1

124

[S. glabrum]

120



S. similis ✓

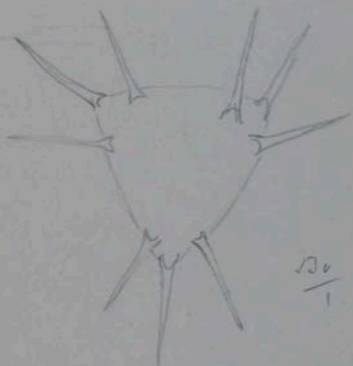
1577
1

S. similis ✓

126

St. wildemanii v. *magus*

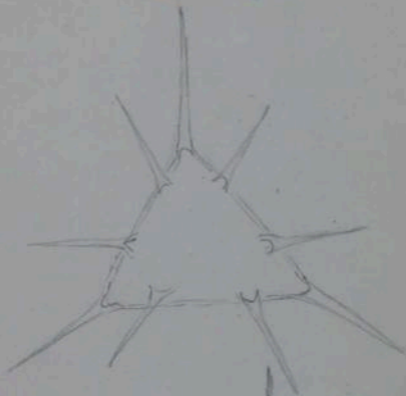
137



Stem base!

St wildemanii v. *majus*

127



127

St. wildemanii



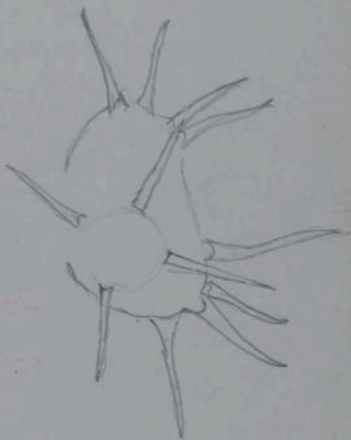
2070
/1

only 2 spines in each angle

St. wildemanii v. *horizontale*

Ischaea leuc.

No
? (from the author's notes)
Ham. Widdemanni var.
var. quadrispiniferum
v. nov.



1/2/21

Widdemanni

Figa

C. Spain det. 1957
Long 197

cc. 20 x obj 3



Clava N. thomasi
of var. hoyi var. hoyi
Scott - Traverso
1966 h.c. 16.67
[var. najou
quadrifid. 9
ibid.]



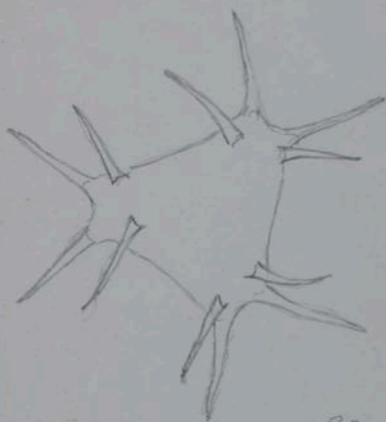
cc
No. 1
South ant. leaf
v. hoyi



var. quadrispiniferum v. nov.

Sima Leone 4/1959

7116 a



30
1

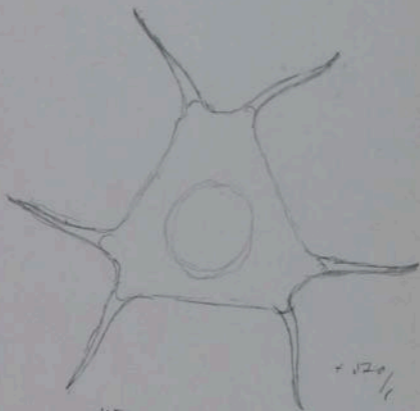
St. wildemanii v. *quadrispiniferum*

hier Leon 1

71164



1/55

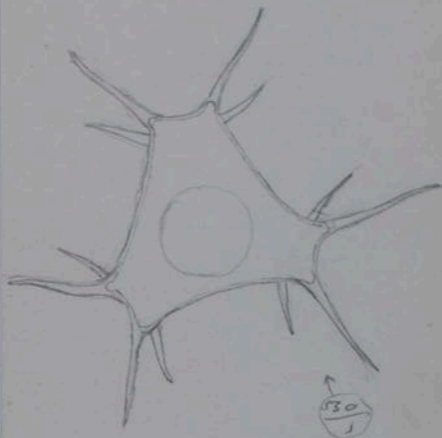


+ 520/1

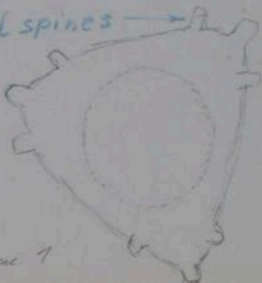
vragey i vepi kōn

var goodrispiniferum

Siem Lom 1/1959



aborted spines →



same form 1

7116

129

W. linniana
var. quadrispinifera
n. nov.



890
1

Siem Leong 1

7117

130



See same as
cell

1530/1

1

S. guatemalensis ✓

Not seen

S. guatemalensis 1/1957

130

7082



Stomach
quadrangle
fig. 3

1580
/

of St. costatum!

[cf. 1 function
is asymmetric
lobes P & Sc!]



131

Sierra Leone by J. Hubert 1960 no. 6

7083

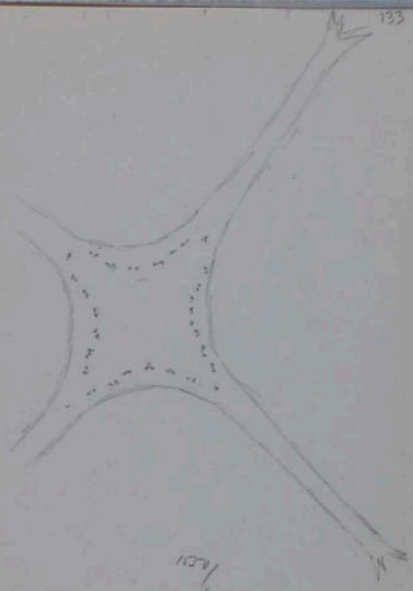


1558
/

↓ *Gemma Douglasiana* f.

(cf. *Gemma Douglasiana* f. *var. - angustata*)

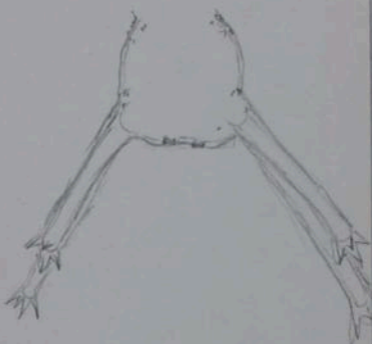
Sicua Leone by H. H. H. 1900 no. 6



1/MSV

150000 Series 1

R



64
Tupper

1/10/11

Large leaves!

7107

137

(6)

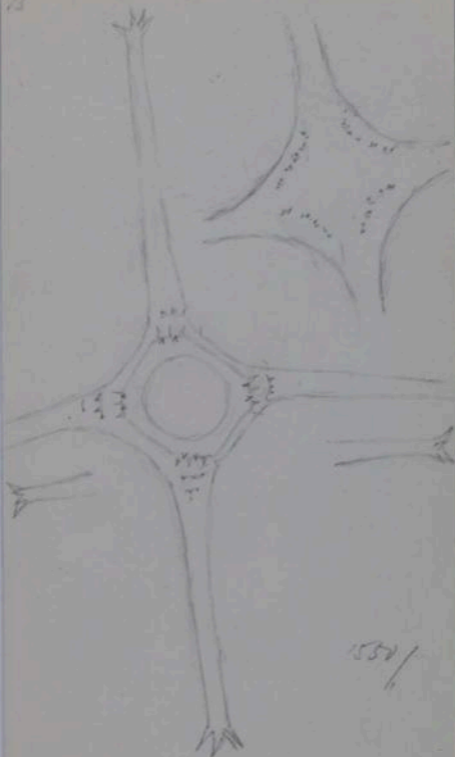


cf. *St. leptopus* Kunze
 + var. *lewisii* (Wats.) S. Wats.

150/1

Limonium 1/1919

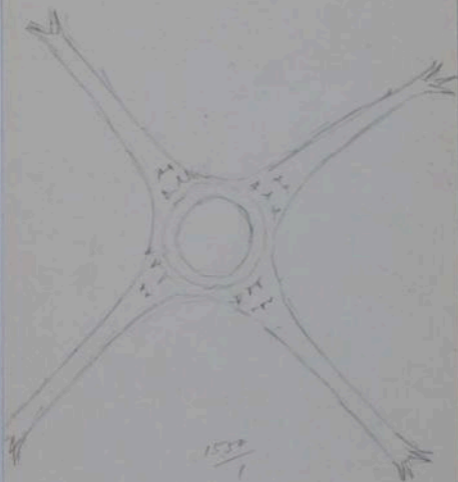
B



1550/

Sierra Leone

6

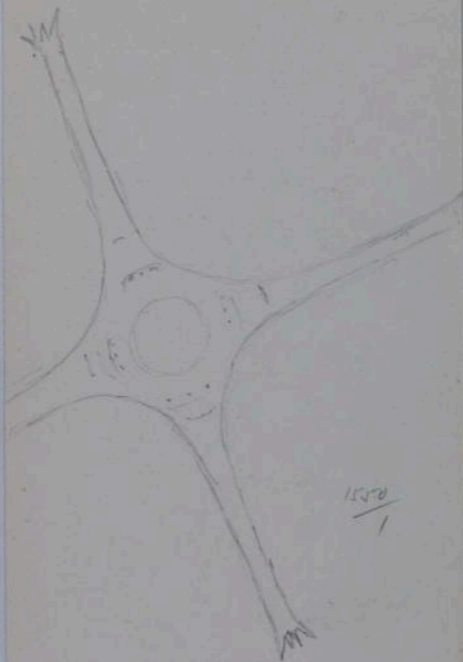


1530
/

| en cell fascis 5 |

Ligne ligne No 1.

7107
(c)



Siam, Lorne 1 / 1957

7107



1530

Green leaf 1

Fruf

[a]

St leptopus Krieg
facies 4

= *S. Heinrici* Connolly var. *novum*
Connolly
1957, FV: 123



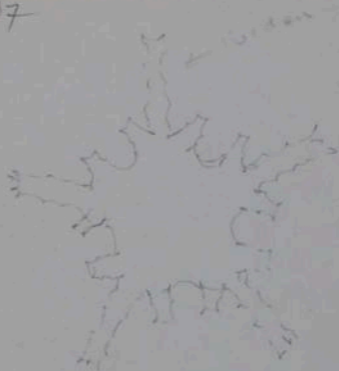
890/1

cf Bayer
Not *St. stelliferum*

Grass leaf 1

7/37

138



1550/11

Stem pinnatifid v. hydra
Krieg.

Not seen

Sierra Leone!

7084

139



1550

Haw. -
margaritaceum
var. ??

v. elongata
Gleditsia



Gene. Gene. by Hall 1960 No. 8

7140

140



1830
1

S. tetraera

S. tetraera 1

7119 a



Stachys

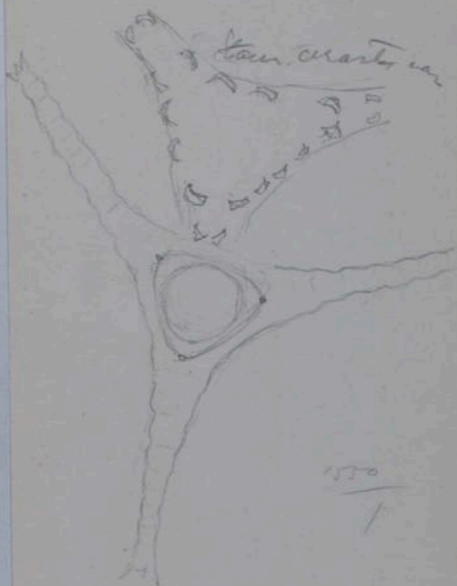
var. of *viridis*
Sunda

1890?
?
100/1

Stachys r. *coronatum*
fa. *inflatum* Scott & Presc. 1958

Greenhouse 1/14/59

7132



stem, mostly in

1870

Sierra Leone 1

7119c

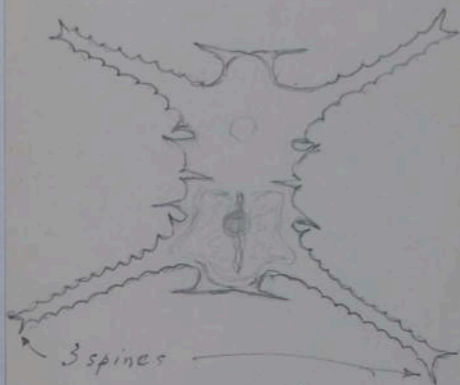
Stem cross-section



Tilted!

1530/1

Stem cross-section

7104 61570
/

Green cone 1

143

7104

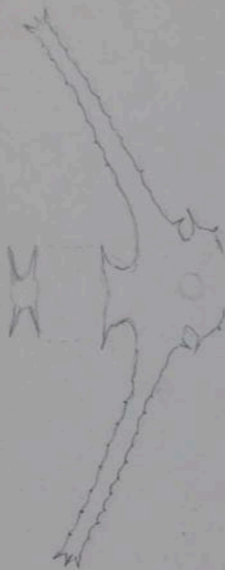
144



2 1520
1

Sierra Leone 1.

7104



Serra Leone Dec 1 / 1959

7104

Prose
of *S. striandulata*
v. *brasiliana* Steud
/ Wight & Bourdell 1857
K.V. : 145
same var? Yes



1857/

Sierra Leone No. 1 / 1859

7109

OK *Sclerobrachiatum*var. *trispinatum*

Boissier 1857, XVI: 146



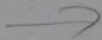
Sina Leone 1

7104

(129)



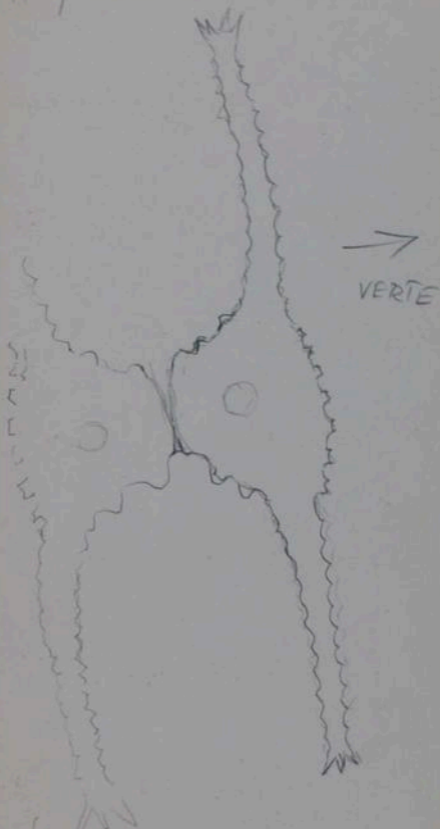
155
/



VERTIC

Home Lane No. 1

2109



Liane bore 1

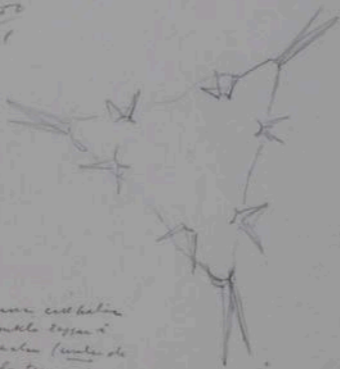
7112

150



S. forficulata (non glabris)
f.

1550



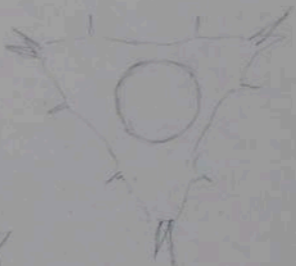
in einer Zelle
mit sechs Ecken
in vier Ecken (wieder die
kefida Zellen)

Sicca Leone 1

7062

151

251



1/251



Sida acuta !

7120

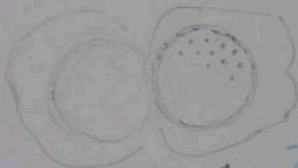


fruit

VERTE



1550



seed?

parasit?

spore?

890/1 ↑

?

W. C. C. 1/14/59



VERTE!

1550
/



891/1

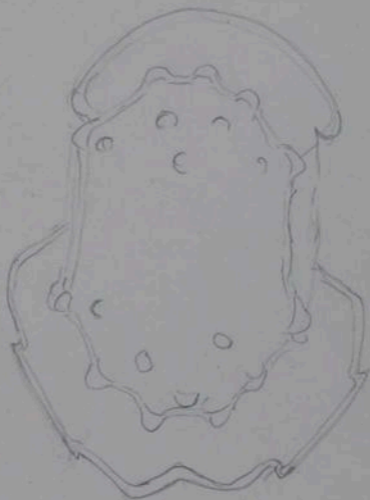
Hyalotheca
Desmidiium?

20/10/1

fruit

Green lens 1

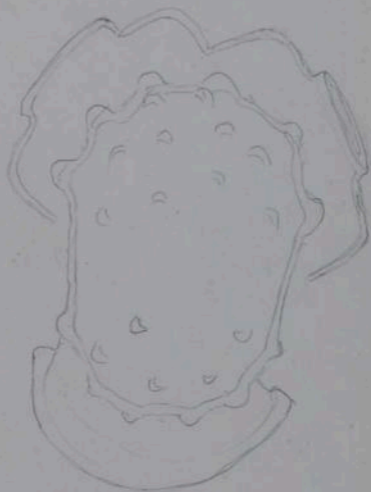
X X X X



Demianian species ✓ 1550/
24/500.

Green leaf

159
A X X +



1550/1

Demodium (✓) (quaciceps?)

Serra Leone 1

71326

VERTE



1550



Piper hancei

Z132 a

VERTE



L 19 }
W 30 }



Decant quadrata?
if new & acquirable

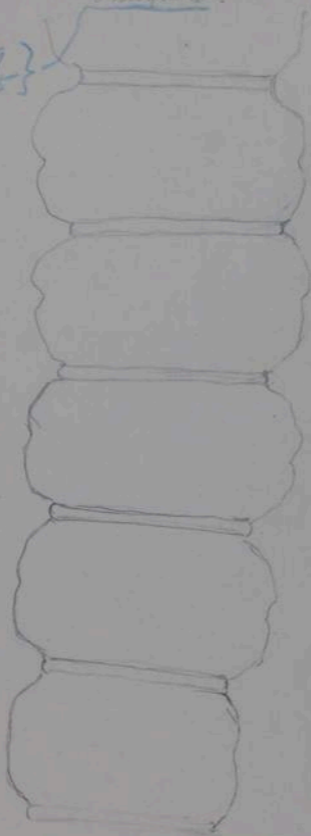
1550
/

Sierra Leone 1

Seen

D. aquile?

L 19 }
W 35 }



155/1

156

stem base 1

7121

158



890/1

Pimenta apterocarpa ✓

Seen

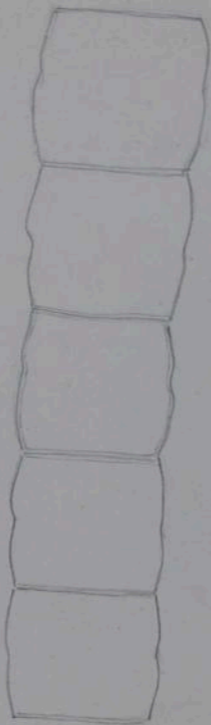
Burma Leone No 1



890/

G. Froehlich's nephrolepis eggs
 OK in State, Genesee
 U.S.A.

Green house!



1/27

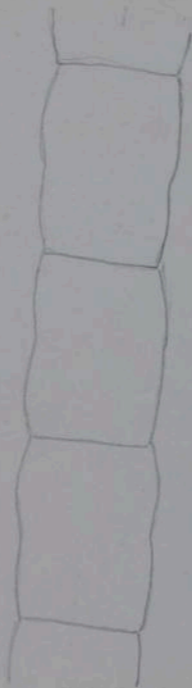
Not seen

Hyalotheca Swartzii ✓
v. tubicola

Sierra Leone!

7063

154



1551

✓
Grossularia
indica
[=*ferruginea*]

Sierra Leone 1957 No. 1