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GEORGE ENGELMANN  
BOTANICAL NOTEBOOKS

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*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

5  
Dimensions.—Length, 0.20 of an inch; width, 0.18.  
The *Elaeocrinus Kirkwoodensis* is nearly allied to *E.*  
(*Pentremites*) *mele*, from which it is distinguished by its  
much smaller size and less deeply excavated base. It also  
occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the  
Pacific railroad near Kirkwood, St. Louis county, Missouri.

8

*J. militaris* Bigel

in Beck's *Dolany*

(1833) p. 372

Bigelow, *Flor. Boston* ed 2

(1824) p. 139

B.D.

"Discovered by Mr. Greene

at Jewksbury"

474-81



0 1 2 3 4 5 6 7 8 9 10

cm

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9463  
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crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.



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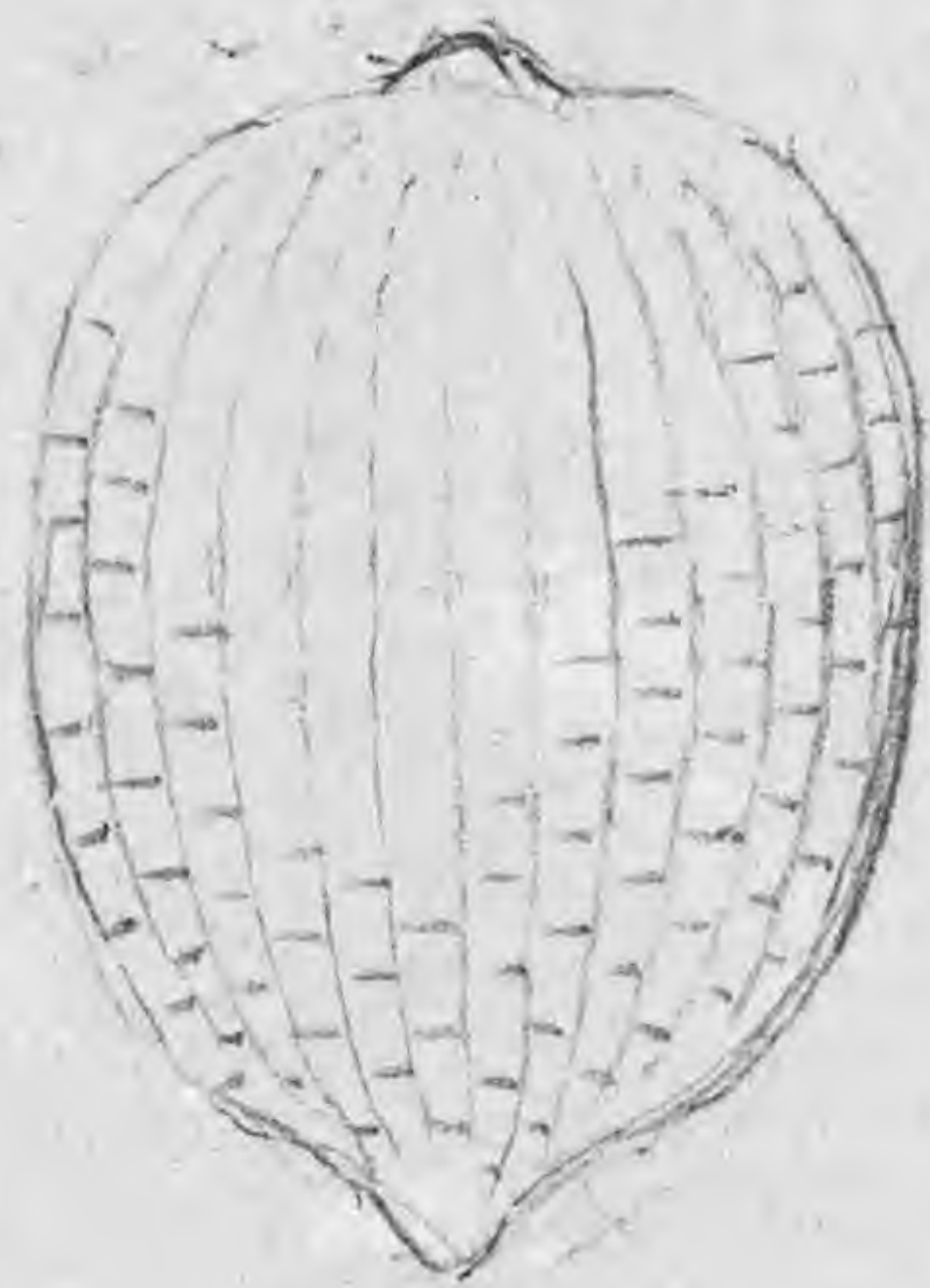
*J. militaris*

Jan 17 1866

Alabama

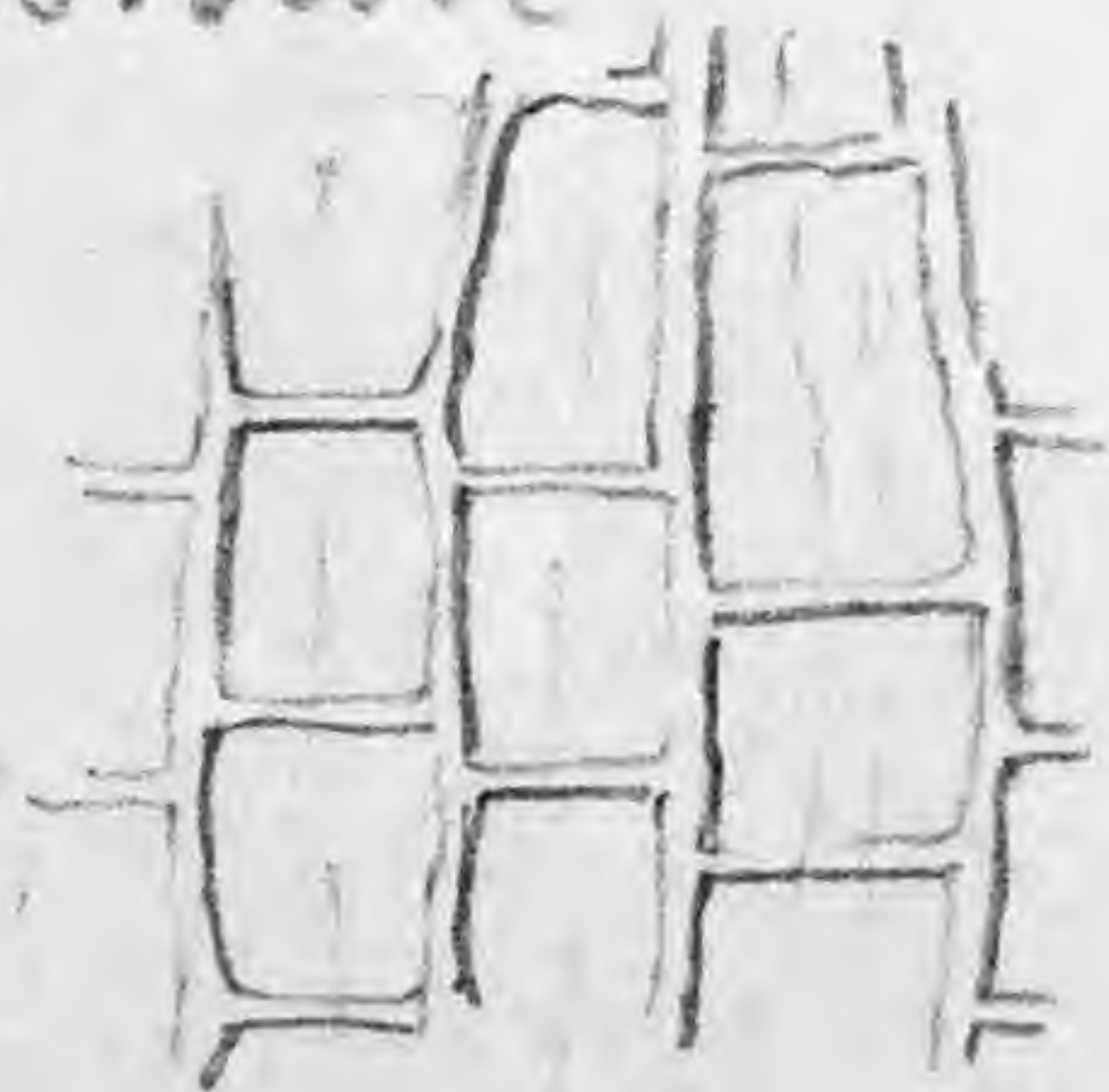
Dressmond

H. Gray



seed a little larger  
than usual

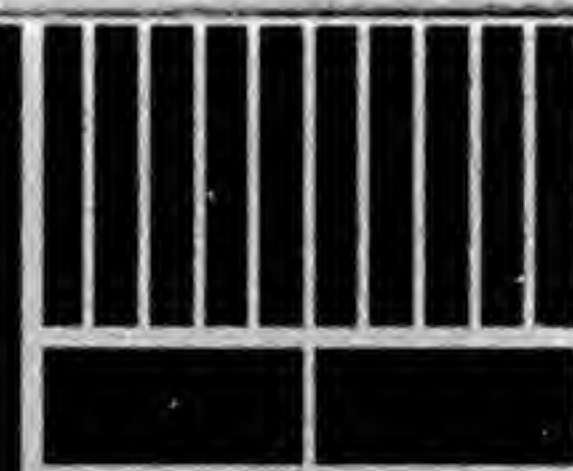
red brown



sepals exba. 3 nervis acuminatis

int. 4 nervis paulo longioribus

obtusiusculis mucronatis



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*J. militaris*

April 30. 1866

Salisbury Md.

A. Common

heads 15-26 flowered



8-9 ribs visible



sepal est. part. breviora



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cm

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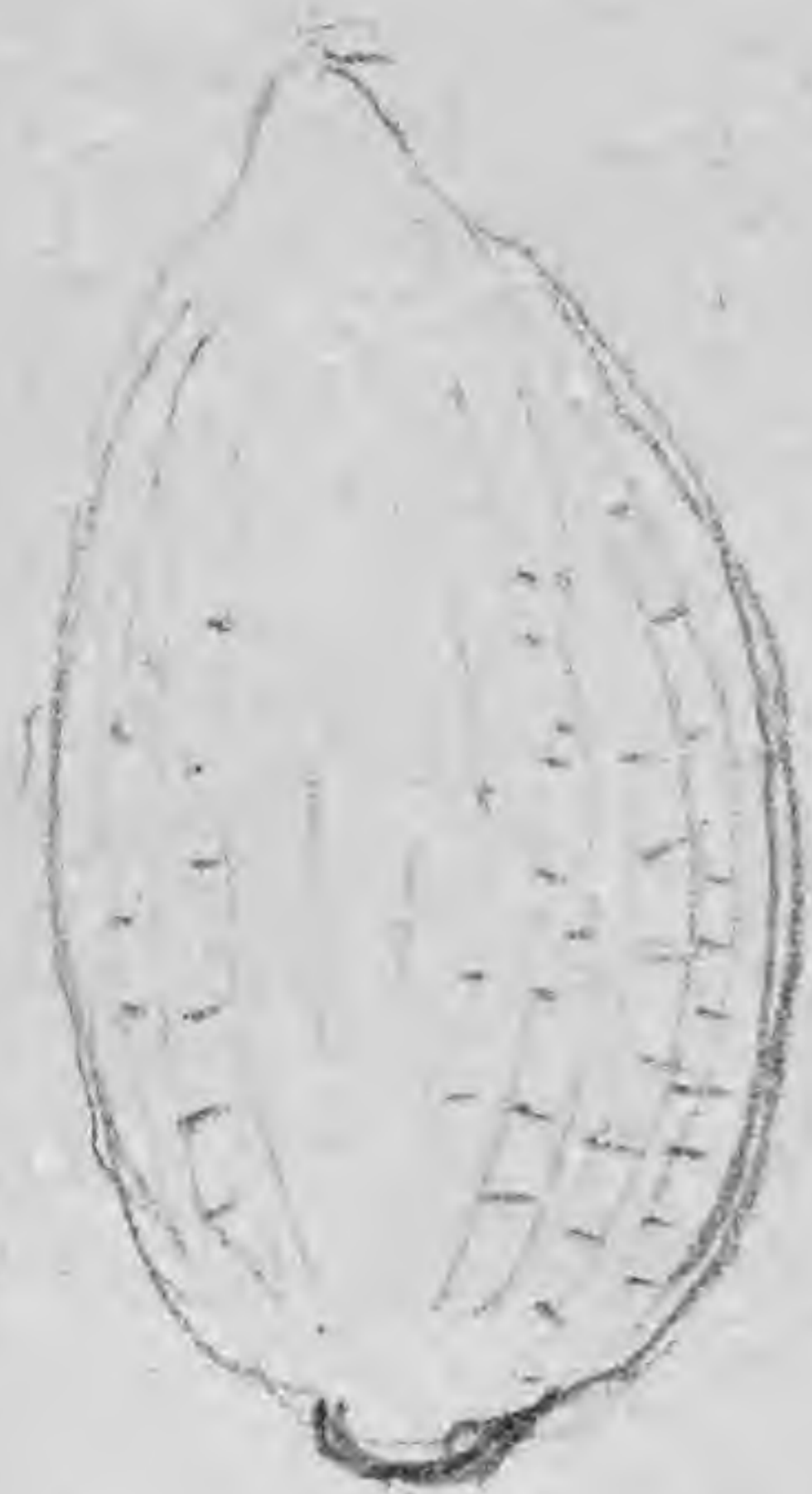
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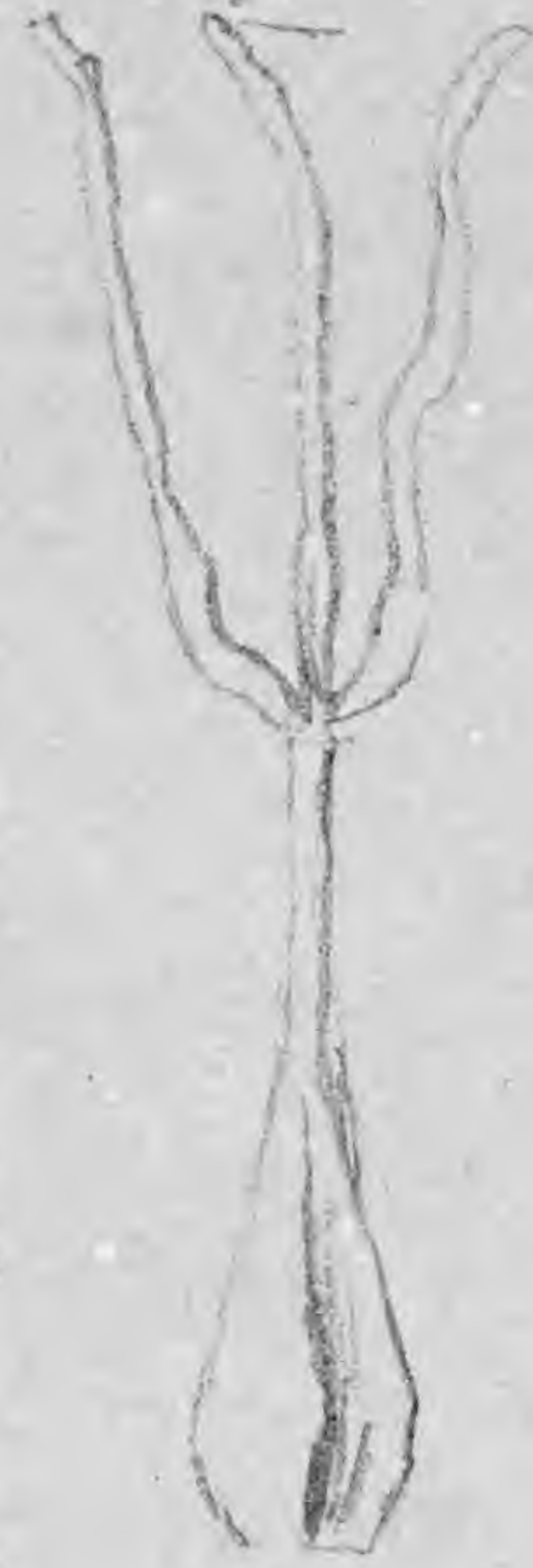
*Lesqueris unifloris* Aug 18 1865  
Rhode Island

x60



(unripe)

x10



capitula 6-8 fl.

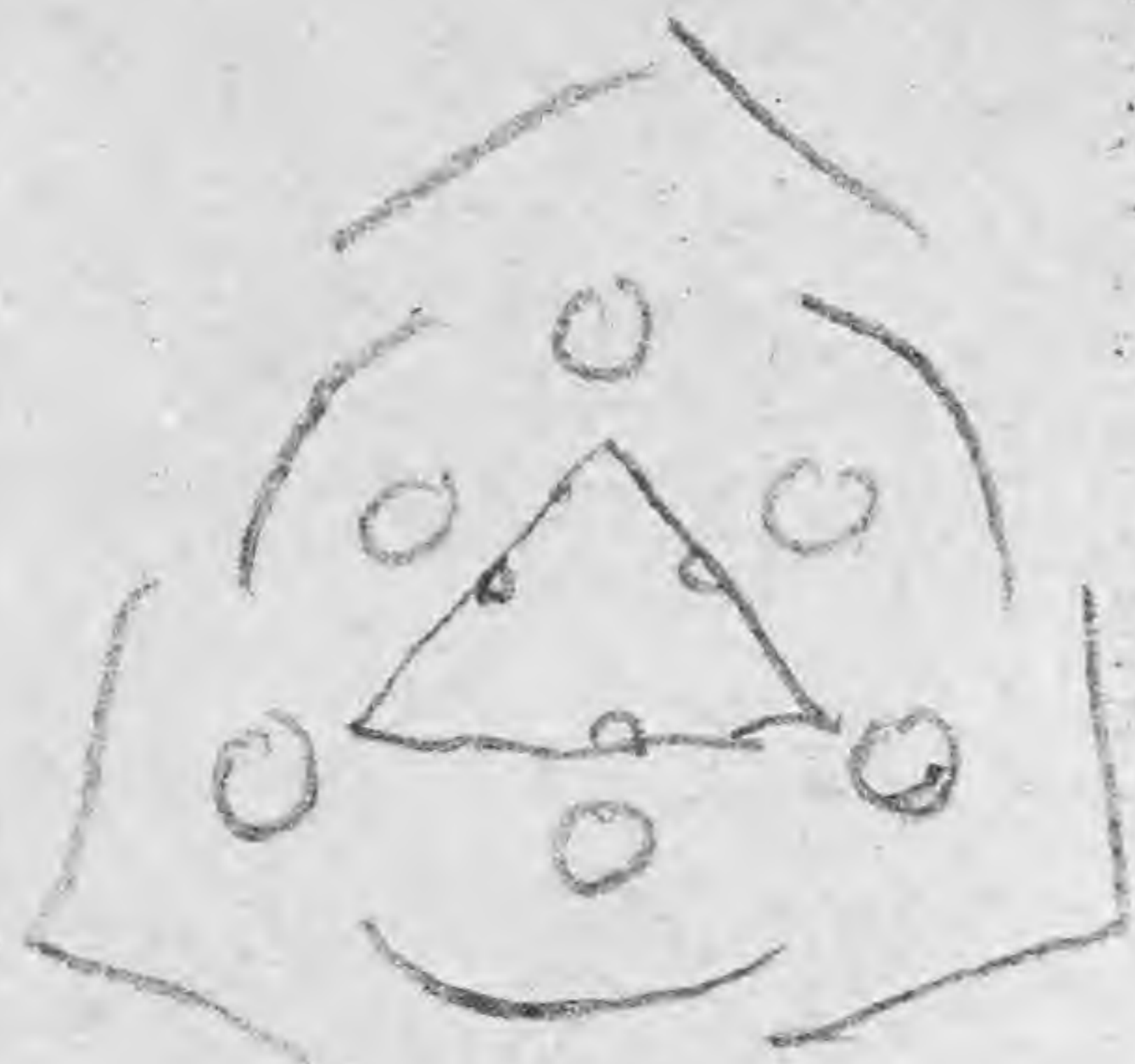
(in Maine spec. Hb. Hall)

8-12 fl.



from Maine  
Spec.

pod as long or longer  
than aristate pointed  
sepals  
outer ones sharper  
pointed but usually  
a little shorter than inner ones



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cm

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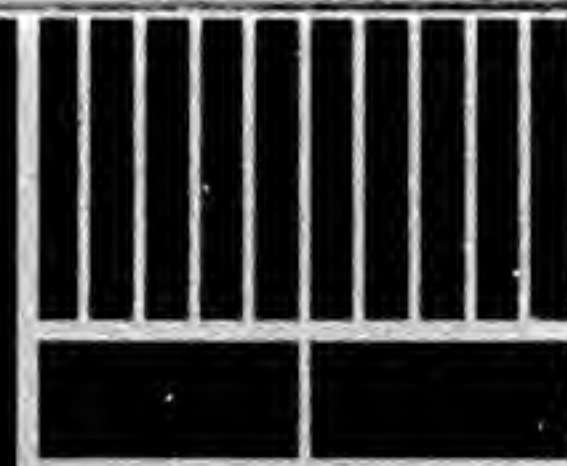


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*J. militaris*

Oct 7 1865

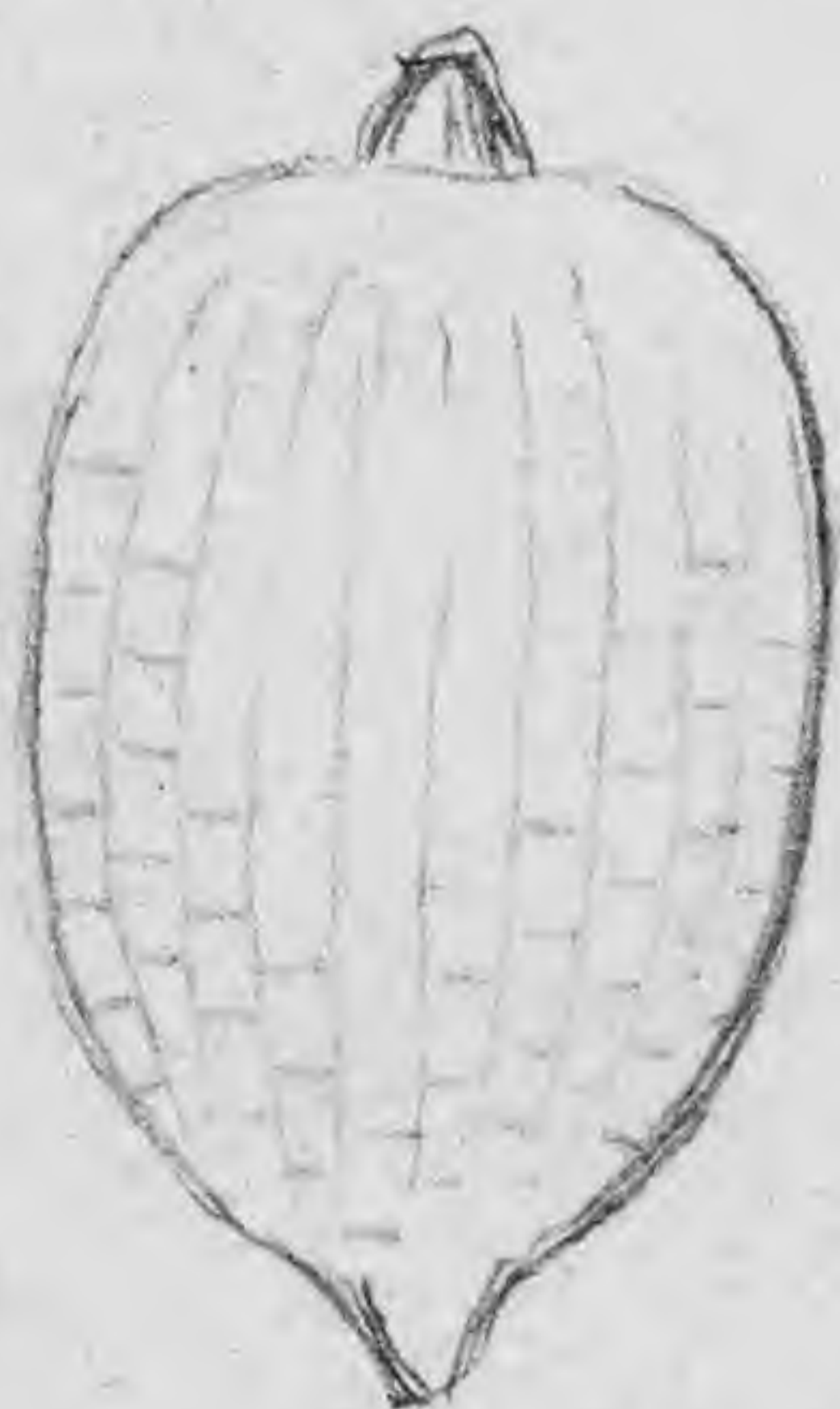
Moses' Lake

Pocono Mountain

Pa.  
Dr. T. Green

Hb Gray

x60



reticulated

very light



x10



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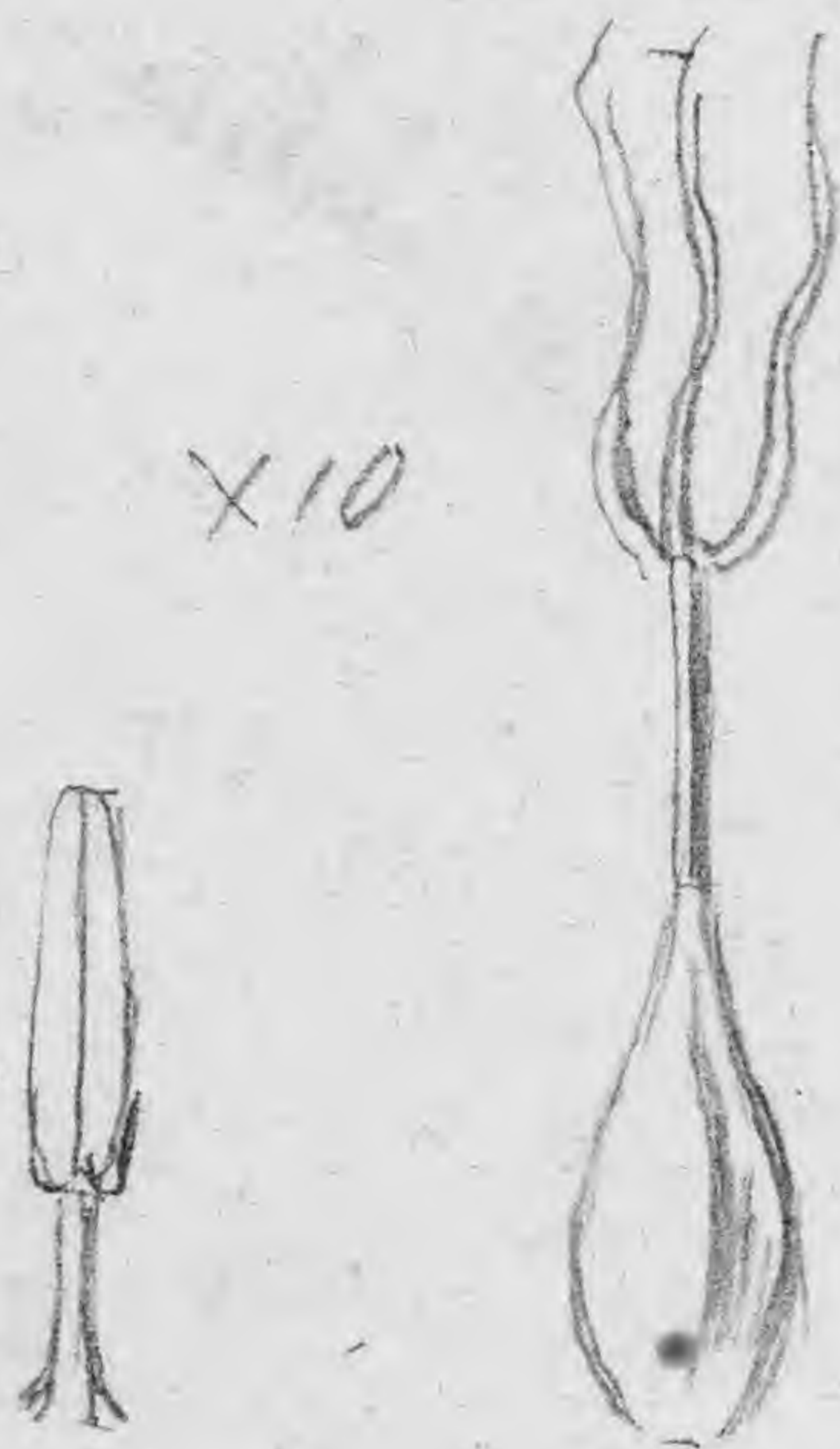
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*J. militaris*

Oct 7 1865-

W. Chamberlain Lake  
30 miles north of Katahdin, Maine

H.C. Gray



x10

БОТАНИЧЕСКИЙ САД  
ИМПЕРАТОРСКОГО УНИВЕРСИТЕТА  
САНКТ-ПЕТЕРБУРГА

MISSOURI BOTANICAL GARDEN  
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1865-1866



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*J. unicoloris*

H. Philand

Rhodeis, C. D.

Thurber

Gray

Eyles

Thurber

Massachusetts

Tuckerm  
Greene

N Jersey

Burlington C. C. F. Parke

H Gray

Pennsylvania Torrey W. H. B.

Green  
Drum.

(Green)  
(Dr)

Alabama

Maine

Chamberlin

Chamberlin  
Blake  
Commons

Salisbury, Md. m. d.



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Juncus militaris

sometimes without the beyond leaf, <sup>and</sup> ~~sometimes~~ with only  
the upper sheath, or with the first only —  
with one or the other leaf of the stem!

C. F. Parker: In shallow water extending to the border of  
deep running water, Delaware — the finest specimen  
1-3-4 feet water

Montic Lake, Pa.

Receipt of Mr. J.  
Maryland, Parker



0  
cm

1

2

3

4

5

6

7

8

9

10

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**Eugene L. Massot,**

DISPENSER OF

**PURE MEDICINES,**

**THE FINER CHEMICALS,**

**And Reliable Pharmaceutical Preparations,**

CORNER OF FOURTH AND SPRUCE STREETS,

ST. LOUIS, MO.

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0

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WISLIZENUS—ATMOSPHERIC ELECTRICITY. 117

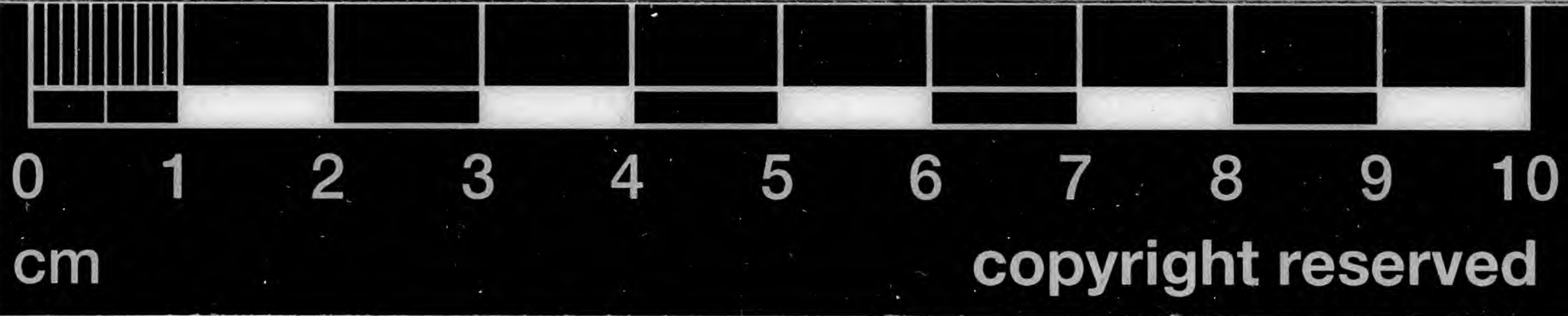
VI. The appearance of negative electricity was connected in

1861. No. times.	1862. No. times.	
30	32	with thunderstorms.
23	28	with rains without thunder and lightning.
20	4	with dry storms (without rain and without thunder and lightning).
4	3	with snow.
1	0	with fog.
78	67	

VII. Relation of Rain and Snow to Electricity.

Rain without thunderstorm was accompanied

	By Positive Electricity.		By Negative Electricity.		By no Electricity.	
	In 1861.	In 1862.	In 1861.	In 1862.	In 1861.	In 1862.
January.....	7	5	3	2	.....	2
February.....	2	1	4	1	.....	.....

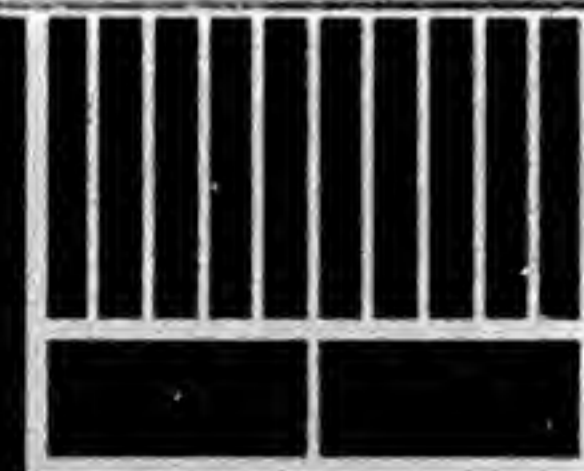
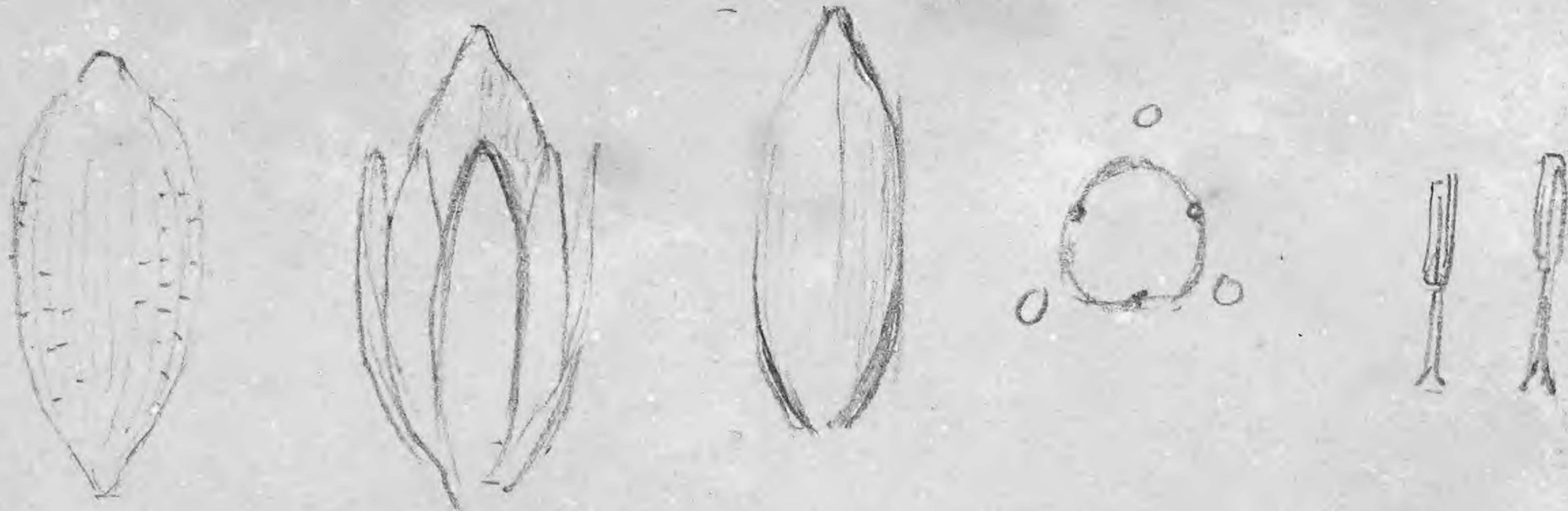


*J. superans*

Oct 14 1865

Hb Hb M

forma capsula cylindrica elongata



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*D. supiana* Moulb.

Octob 14 1865

Frankfort 1828

Spicer 1827

x 60



sepala interiora  
perala longiora, obtusiuscula  
exteriora mucronata, acuta  
capsula ovata mucronata

sepals equalibus capsula acuminatibus



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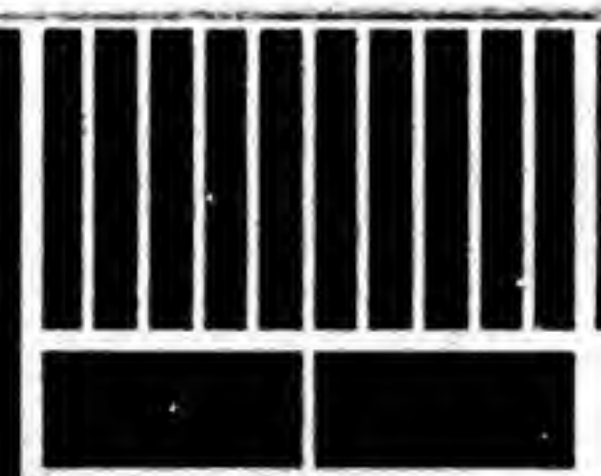
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THE PAGE OF P. 100, WHICH, HOWEVER, MAY BE QUE TO WEATHERING.

*Dimensions.*—Length, 0.20 of an inch; width, 0.18.  
The *Elaeocrinus Kirkwoodensis* is nearly allied to *E.* (*Pentremites*) *melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

8

4  
*Salpinx* Will.  
*furcata* Schreb.

486-509



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... range of mountains, on Capt. Simpson's return trail. Circumstances prevented me from obtaining more than a few crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

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J. alpinus (ferrugineus)

Herb. Philad. Gray. Engelm

Arctic Sea Coast	Drum (Drum)
Seneca Lake	Sarwell
Ontonagon Lake	Sarwell Sarwell
Lake Superior	Loring
Carlton house	Drummond (S)
Rocky Mts	Drummond (S)
Marquette Riv	Drum (S)
Fort Colville to Rocky Mts	Lyell (S)
Colorado	Hall 558 558
Saskatchewan	Bouvier (B)
Ringwood Ill	Vasey Vasey
Upper Platte	Hayden
North Red River	Douglas
Manitou island	Cupress
Devil's Lake	Geyer
Fort Gratiot Mich	Pitcher
Douglas Vermont	W.F. Marria



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D. pelocarpus Mey.  
Meyers orig. l.

sepalis obtusis

capsula triquetra -  
ovata mucronata  
subuni-loculari

brevioribus

mucronata

setis differt ab

Campocarpus quam  
et paradoxo nostro

cujus habitum refert.

Laharpe &  
Kunth.

specie sub biflora

sepalis oblongis obtusis  
interioribus paulo  
longioribus

capsula triquetra -  
ovata brevioribus

antheris filamentis duplo  
longioribus  
stylis elongatis

D. aspidotus L. s.  
D. Campocarpus  
Kunth; Schub.

sessilibus 4-10 floris

sepalis aequalibus  
ext. mucronatis  
int. obtusis, acutis

capsula ovata - ob-  
longa triquetra  
mucronata  
brevioribus.

D. fuscoventer Schreb.  
s. D. alpinus Vill

sessilibus 3-5 floris,  
sepalis aequalibus rotundatis -  
obtusis -

capsula ovata - oblonga  
mucronata  
brevioribus; extendens  
sub apice mucronatis



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*[Faint handwritten notes, likely bleed-through from the reverse side of the page]*



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*J. alpinum* var. *obscurum*

Burlington Vermont, W F Merriam

Winooski Falls, Vermont. J Robbins



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St. Louis, Mo.

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Häparron Mendocino  
City May - June  
1862

555

*J. superiformis*

*Juncus superiformis*



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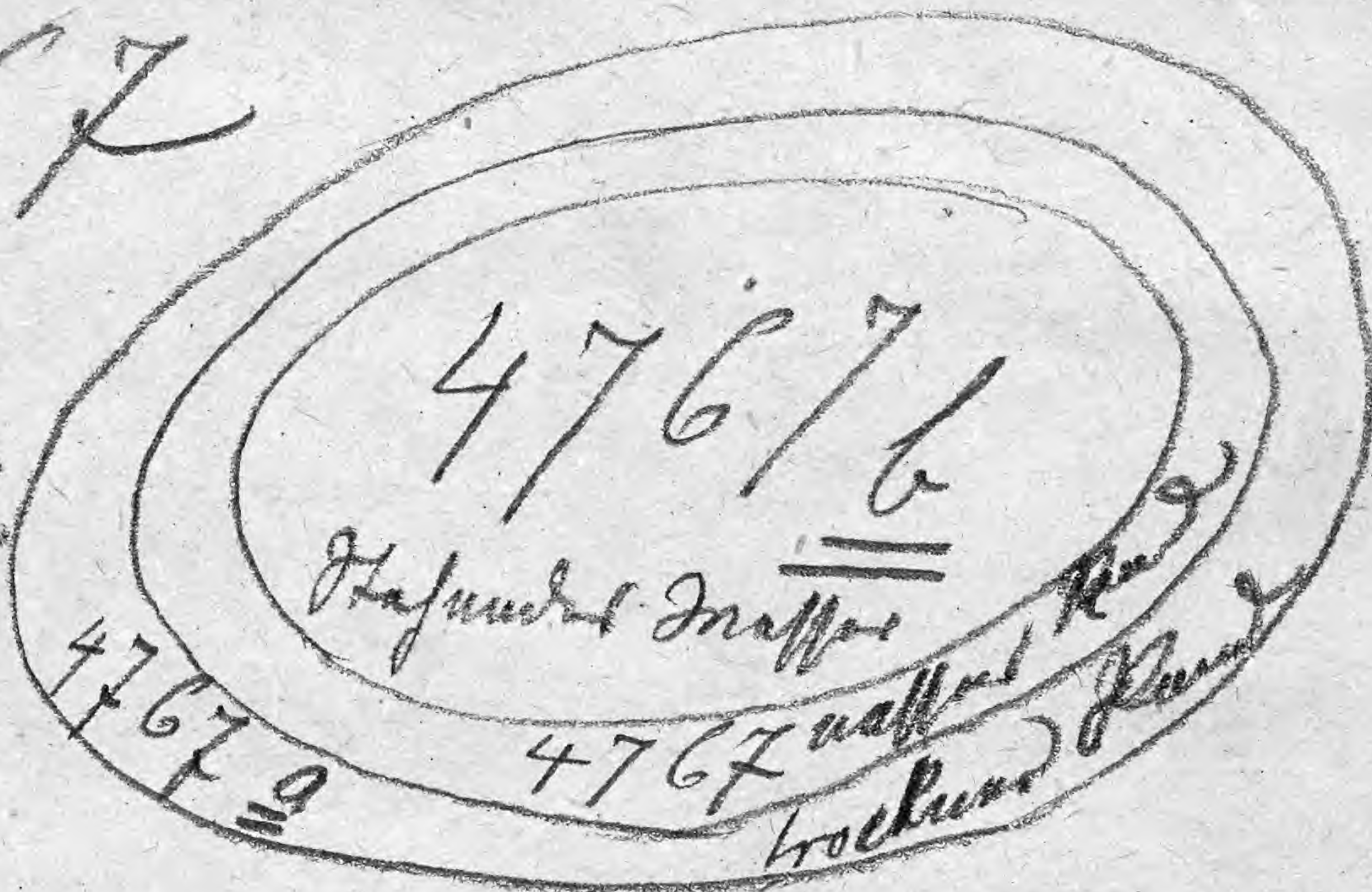
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H. Bolander 4767

4767 <sup>Erpöpfung</sup>  
9 mäßig



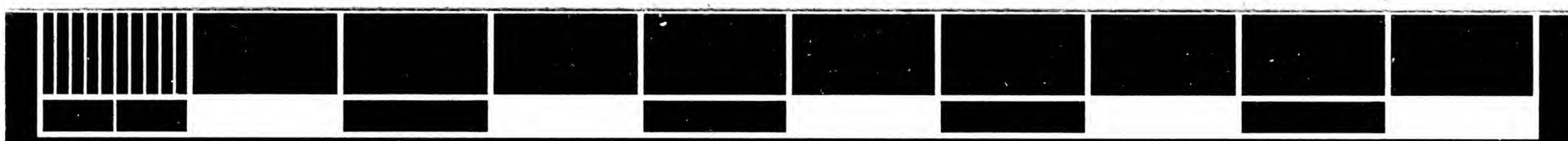
ringe auf dem

~~frischen~~ Rande herum, da wo es  
 wasser wird (Form 4767) bleibt  
 die Blüthenstängel kurz, aber die  
 Blätter verlängern sich und bilden  
 sich — In eigentlicher Hinsicht  
 Drappe sind die Blüthenstängel bei  
 weitem ganz verformt und die  
 Blätter bilden sich in feine Fäden  
 die ganze Drappe abfließen über  
 zinsend — Gutes trocknet die Drappe  
 ganz ab und wenn blaues diese  
 Fäden und werden ganz weiß —  
 grün — wenn Feinman — Parolan  
 ähneln — Das gleiche ist diese  
 fopfung in der

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over



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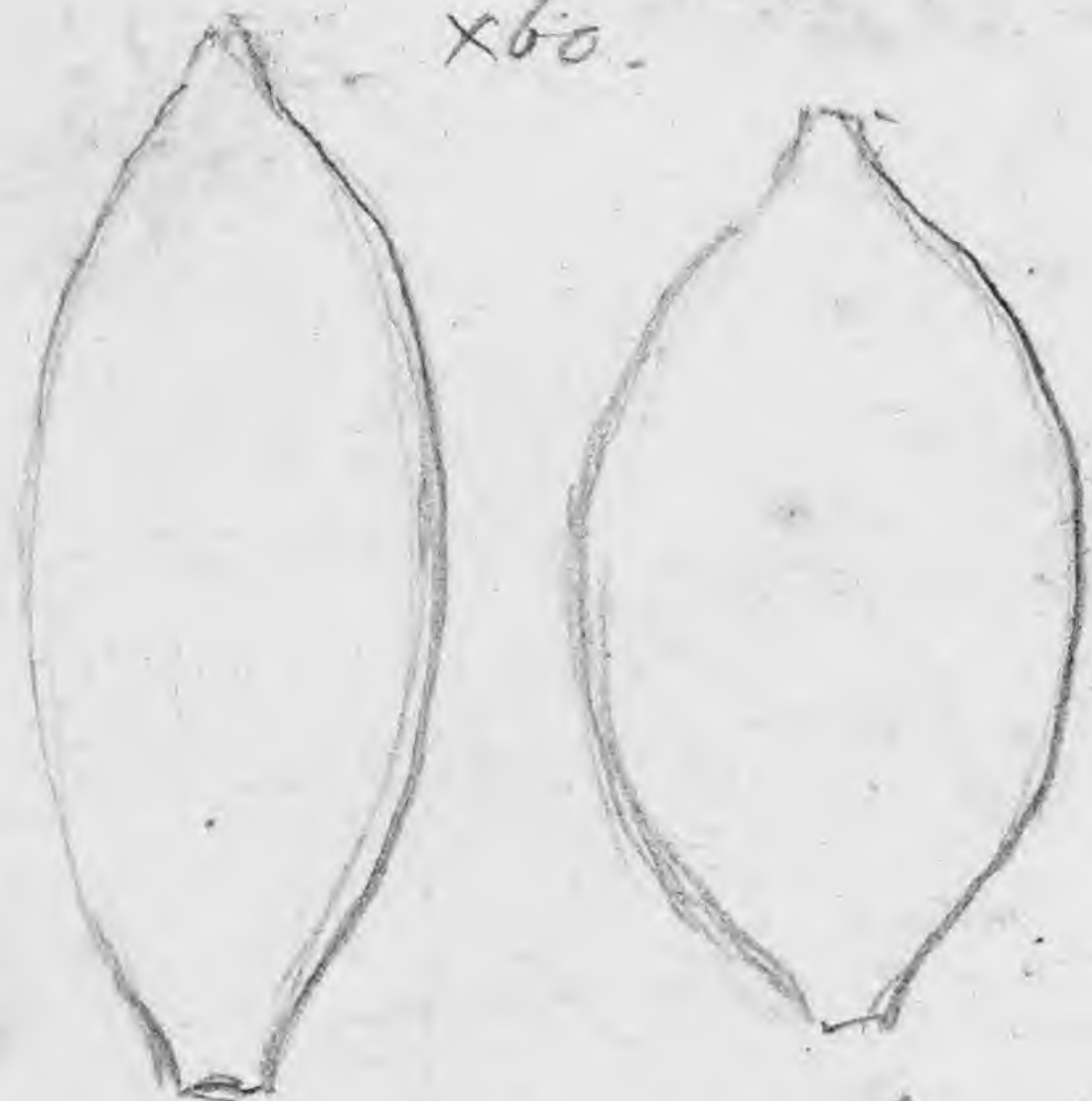
4767

*Juncus supinitiformis*

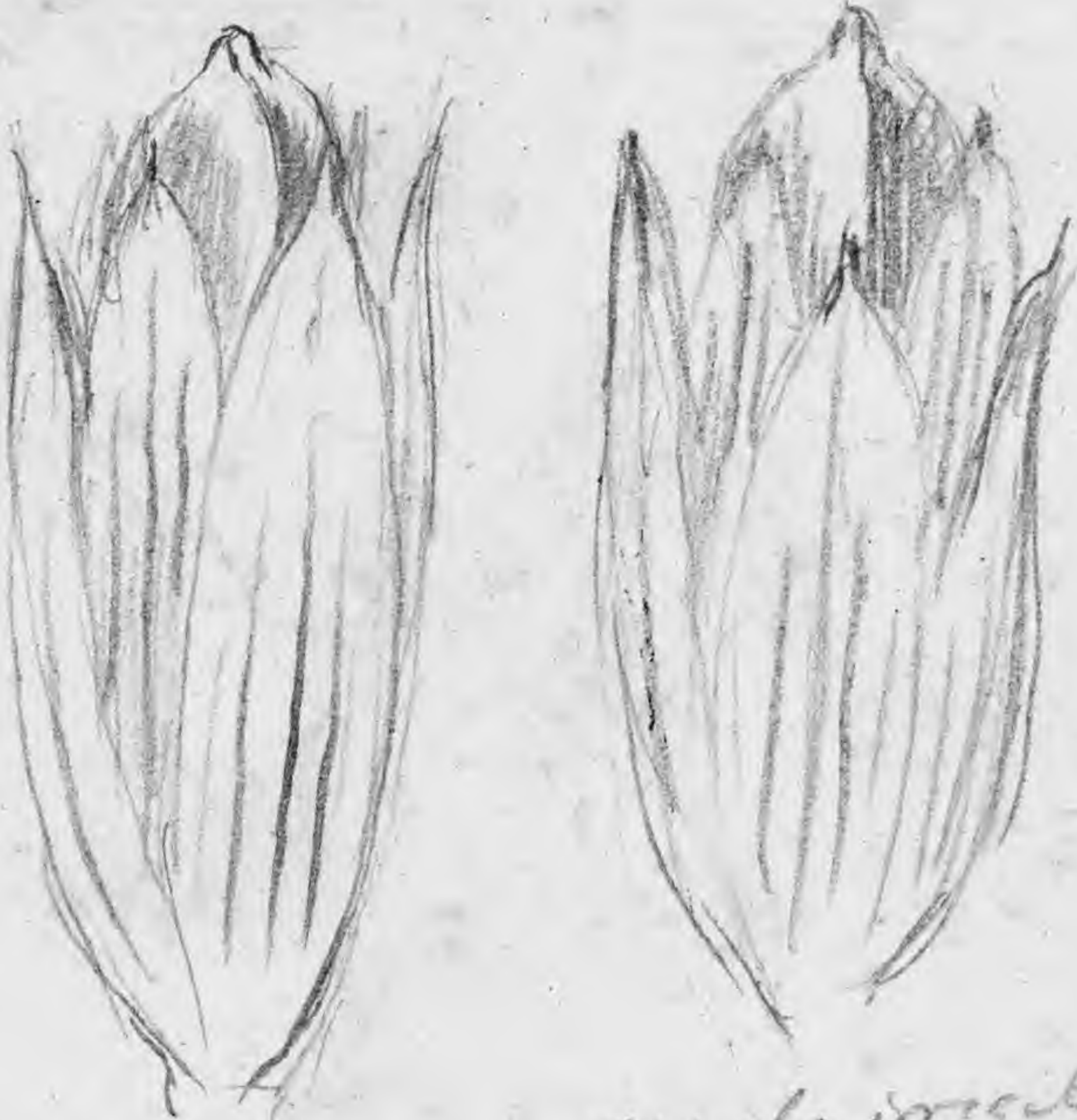
July 26 1867

Mendoza City May 1866 Bolander

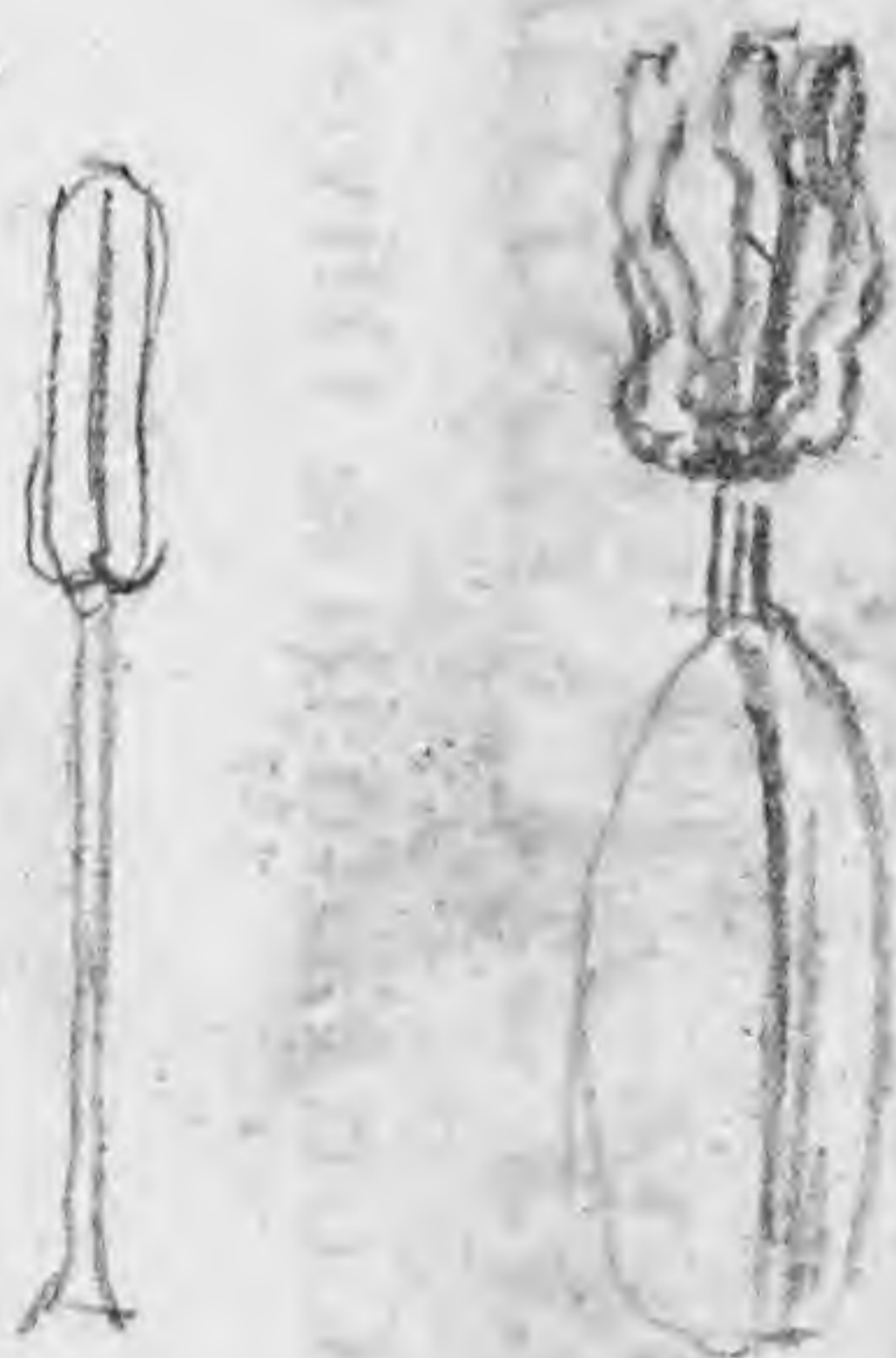
Capitula 5-flora



very unripe seeds  
mostly of the elongated  
form.



sepals irregular  
several outer ones  
short



x10

capitulum  
floating  
leaf



erect  
leaf

capsule prismatic  
angular - winged  
a little exserted or equal  
to sepals



*W. W.*



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nearly allied to *J. uliginosa*, Roth 1788  
(*Supina* Moench 1777) 3 seeds, full  
proportion capsule + red berry  
~~distinctly by the floating form~~

distinct by the larger flowers,  
<sup>strongly ribbed</sup> acute sepals, acute capsule  
not always obtuse in *Supina* &  
large plants, larger seeds

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<sup>Roem. & Schult.</sup>  
Junonia Richardsoniana Schult. Syst. veg. 7. p. 201  
J. affinis A. Brown in Richards appun. Frankl.  
Brown p. 11

Hook. Flor. Bor. Am. 2. 191:

" foliis subulatis nodoso-articulatis,  
paniculari paucifloris (3-5 floris)  
capsulis ovalibus calyce obtuso hexandro  
longioribus " Brown.

= pubocaryus? Hooker.

Doubtful Knuth 3. 261

Do. Do. Standl 2. 308

All authors repeat A. Brown's words -  
none seem to know the plant

Hook. says: ~~perhaps~~ I am not acquainted with this plant  
perhaps I have included it in ~~artifl.~~ (perhaps)



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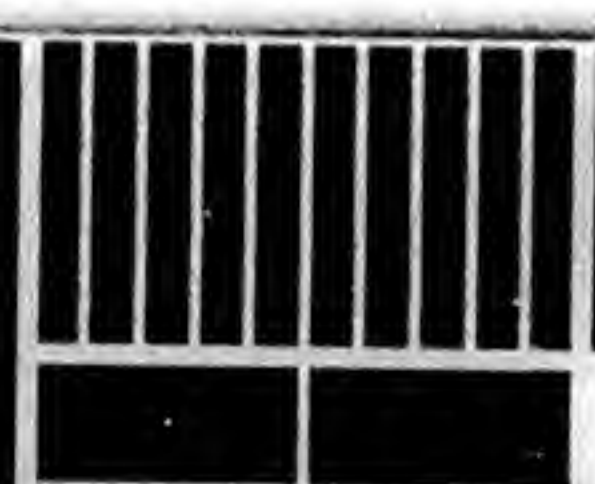
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