

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

Pagination Note:

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11

6

J. arcticus

*Eugimous
aphyllus*

hexandrus

July	4	1
August	3	1	1	2
September	4	1	1	8
October	3	2 .....	.....	.....	1 .....	.....	1
November	2	2 .....	.....	.....	7 .....	.....	7
December	2	2 .....	.....	.....	.....	.....	6
	50 + el.	23 - el.	28 - el.	15 no el.	34 no el.		
	36 + el.						

Snowing was accompanied

	By Positive Electricity.		By Negative Electricity.		By no Electricity.	
	In 1861.	In 1862.	In 1861.	In 1862.	In 1861.	In 1862.
January	3	9 .....	.....	2 .....	.....	.....
February	12	8 .....	.....	1 .....	.....	.....
March	3	12 .....	.....	.....	.....	.....
October .....	.....	1 .....	.....	.....	.....	.....
November	5	4	2 .....	.....	.....	1
December .....	.....	2 .....	.....	.....	.....	.....
	23 + el.	36 + el.	2 - el.	3 - el.	.....	1 no el.

REMARKS.

The monthly mean of atmospheric electricity in 1862 was not quite so regular as that in 1861. While in 1861 an un-

200-204



9118
formed by the months of January, February, November and December; the second with a mean electricity by the months of March, April, May and October; and the third with the lowest electricity by the months of June, July, August and September.

The aggregate monthly mean of

The first group in 1861 is	52.9	—in 1862,	54.6
The second	“	“	33.5
The third	“	“	14.1
			35.2
			10.5

Thus in 1861 the third group prevailed, and in 1862 the first and second. But these differences are so well balanced throughout the year, that the mean of the whole year in 1861 and in 1862 is exactly the same, namely, 8.4. Such an identity in the yearly result, even to decimals, is of course not to be expected every year; but it seems to prove, at least, that the yearly mean of electricity is as constant as that of temperature, of relative humidity, and of atmospheric pressure.

The third table, showing the daily periodicity of atmospheric electricity, confirms the daily two maxima and two minima of electricity as an undeniable fact.

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Juncus arcticus

Aug 20 1865

Mont Cenis, Cosson

x60



unripe seed

x10



sepalis arctiscentis
aequalibus, capsula ovata
acuta aequantibus



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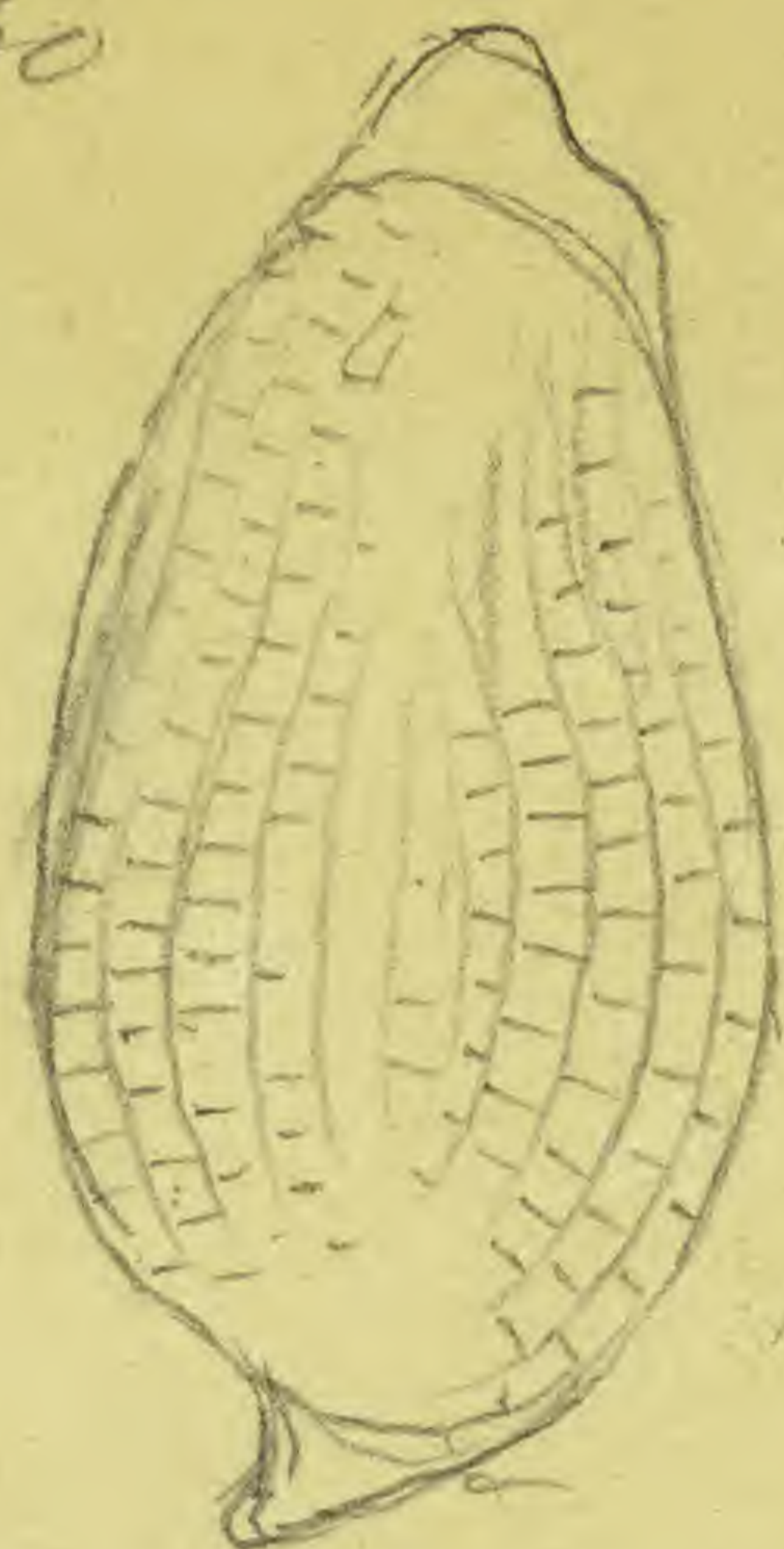
Juncus arcticus

Aug 19 1865

Zimmatt, P. Hoerle

ought to be reversed

x 60



x 10



12-16 stam visible,

reticulate, very fine, distinct

= Scotland specimen

sepala interiora acutiuscula breviora

capsula pendula exserta



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Juncus arcticus

Aug 20 1865

Norway, Fries

x60



uniseeded



x10



filament equal
to anther or a little
longer

caps. ovata
obtusiuscula
sepalis longioribus aequis
interioribus obtusiuscula pediculis
brevioribus



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Jan 16 1866

Des. Radick

Ex herb. An. Petersburg. - Hb. Gray



before flowering



just before flowering



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"*J. arcticus*"

Jan 14 1866

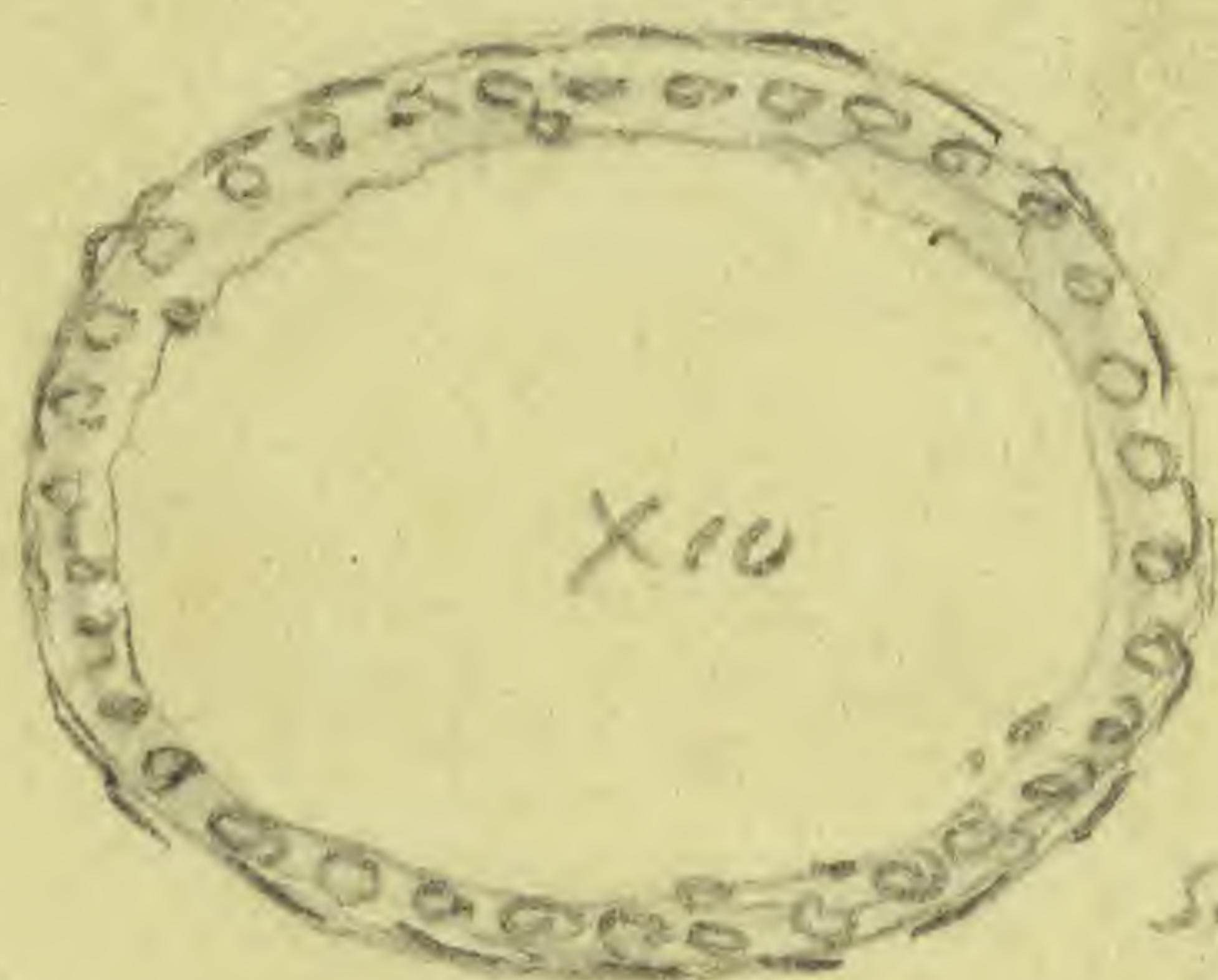
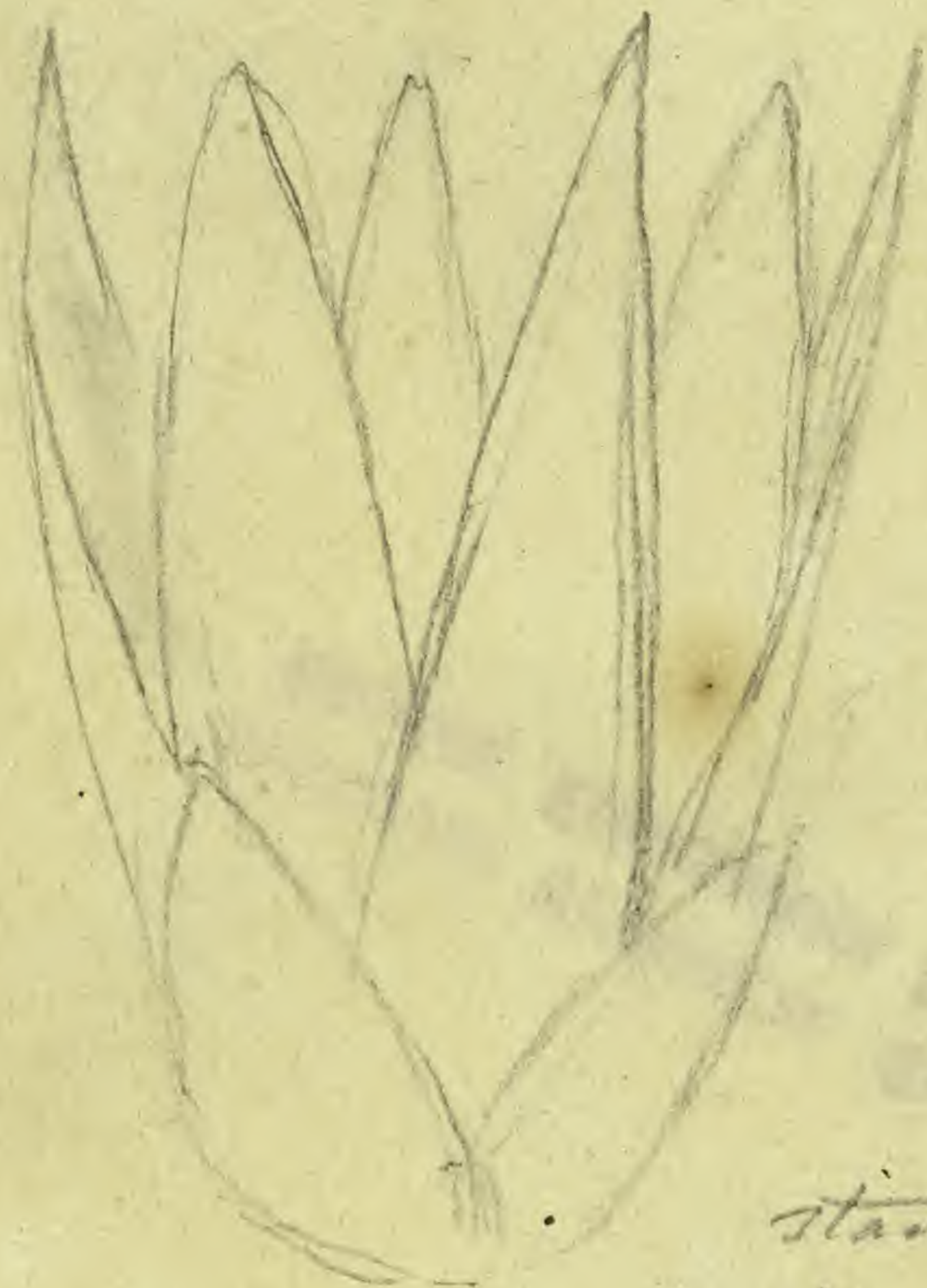
"Sitchka," (Cott. Road) Petersburg

(printed label)
Is Kodiak, Hb. Acad. Petrosb. = Hb. Gray.
with same, not yet in flower

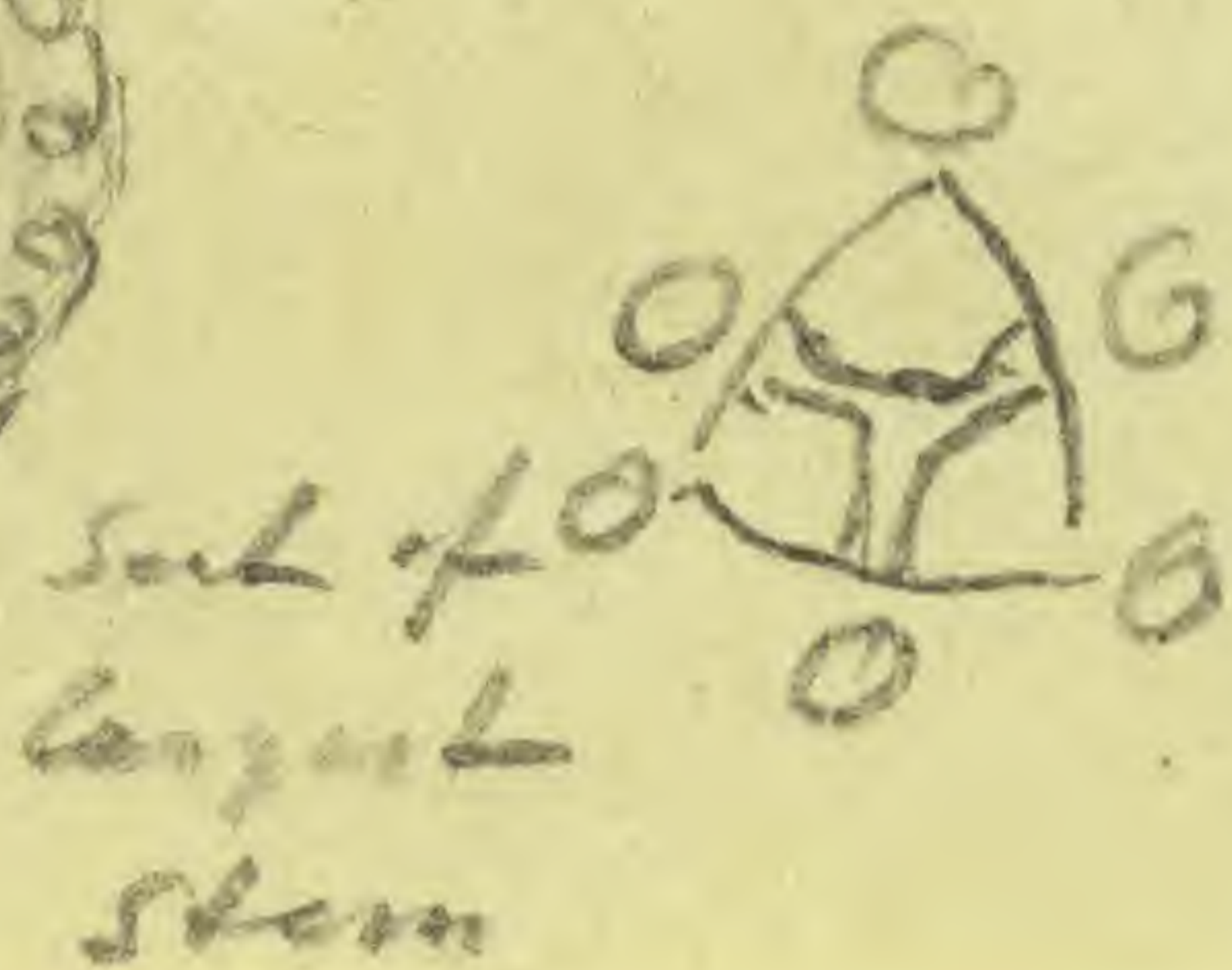
= Hb. Gray
only fruit seen!
aborted - at base?



very unripe



stem hollow



stamens as long or shorter than half
the sepals, anthers = filament.
inner sepals very little shorter
and a little more obtuse than
outer ones



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D. arcticum

Febr 1 1866

Greenland [Dr Kane 2.]

in Hb. Diurnum



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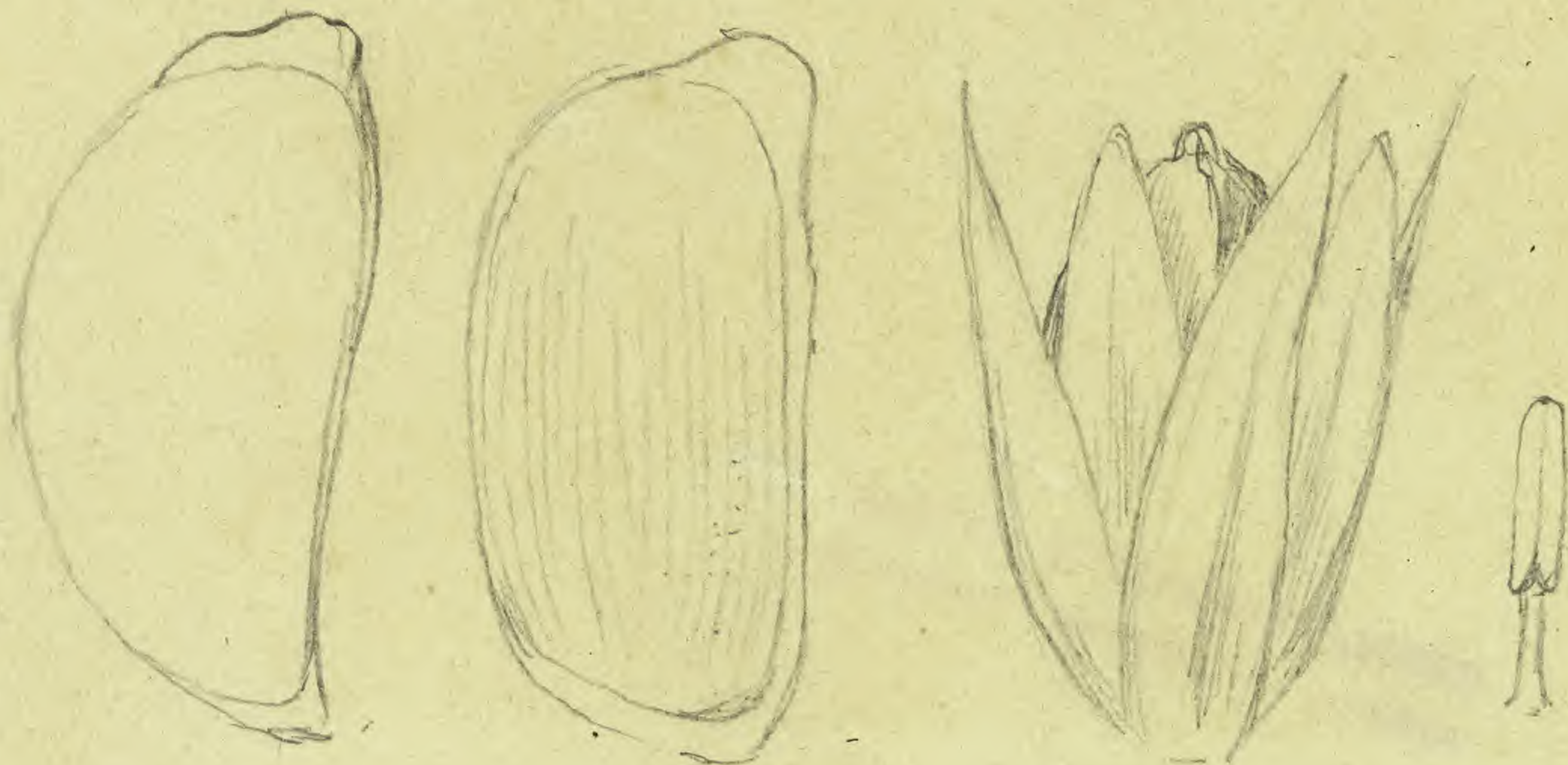
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J. articus

Febr 1 1866

Scotland, Hooker

W. H. & P. Phil



x150



cross ribs
much less distinct

reticulate very
faint and fine
abt 16 striae visible on seed (25 in all?)



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T. arvensis
Kantuschelka

Feb 26 1863

Hb. Hort. Petersb

31



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ИМПЕРАТОРСКАЯ АКАДЕМИЯ НАУК
Ботанический сад
СПЕЦИАЛЬНАЯ БИБЛИОТЕКА
САДА ИМУЩЕСТВА

ИМПЕРАТОРСКОМУ САДУ БОТАНИЧЕСКОМУ
ВЪ САНКТЪ ПЕТЕРБУРГѢ
АЛЕКС. ГРЕЙДОНЪ



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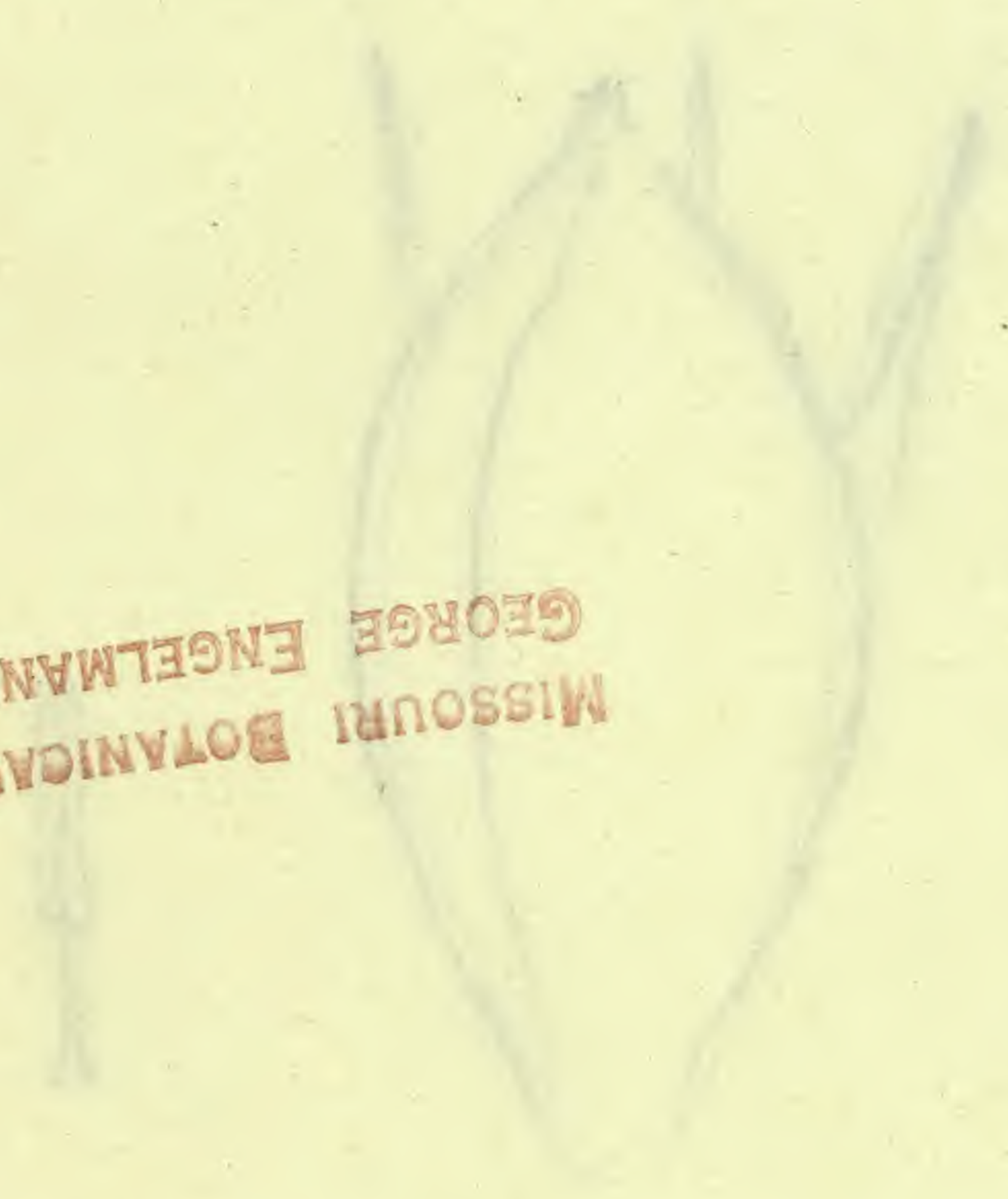
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" *J. arcticus* ! "

Feb 25 1868

(Subsp. *Sitchensis*)

Umanaschka, Eschschölz

Hb Hort Petrop. 14



fully ripe seed

indistinctly reticulate

rugulose

Similar to *J. filiformis*

Caps. pyriform



N.B. for *Sitchensis* is the same, only *J. arcticus* longer

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E. Meyer in Ledebour Flor Ross IV. 223

(1853)

Juncus arcticus Willd

~~perianthi~~ perianthi foliolis capsula

ellipticam obtusam mucronatam

vix sequentibus

Hab in Russia arctica

et forte in Insula Sitcha (Bougard)

Planta ex Insula Sitcha, ne ad Innum vel

Balticum vel Drummondii pertineat

suspicio, ambo et glaucus [sp. palmarum pro Baltico]

et Drummondii in Insula Unalakpa non

procul ab Insula Sitcha crescunt



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[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]



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J. arbutifolia

Uclanchka

Mertens

x¹⁰



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Distinguished from *J. arcticus* by the larger
flowers and the pyriform, (abruptly acuminate
or rather) mucronate capsule and
the very small *exil.*-lanceolate seeds.

But as the size of the flower is not
of absolute importance, the single capsule
seen may be abortive, and the seeds found
in it were not ripe, I have to wait
for better, more complete specimens, before
settling on this as a new species.

Filaments anthers and pistil are the
same in both species



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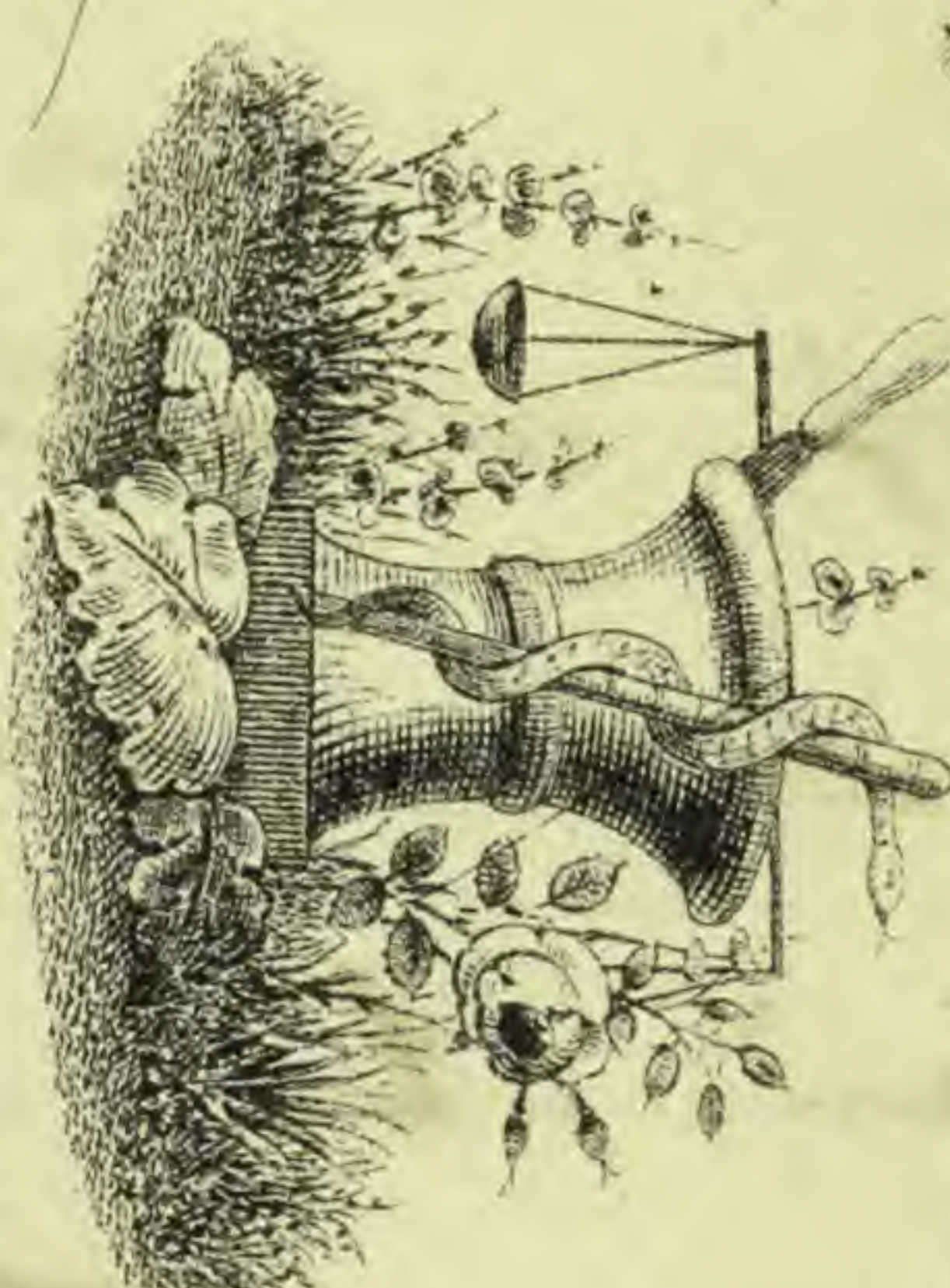
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[Faint, illegible handwriting]

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Is not this *S. tcha* plant

J. compressus *J. anthela* subs. *ayleri*
J. Haenkei Meyer Syn. *Junc.* p. 10
May. Bot. Herb. 1. 141

anthela 4-8 flower

no.



0 1 2 3 4 5 6 7 8 9 10

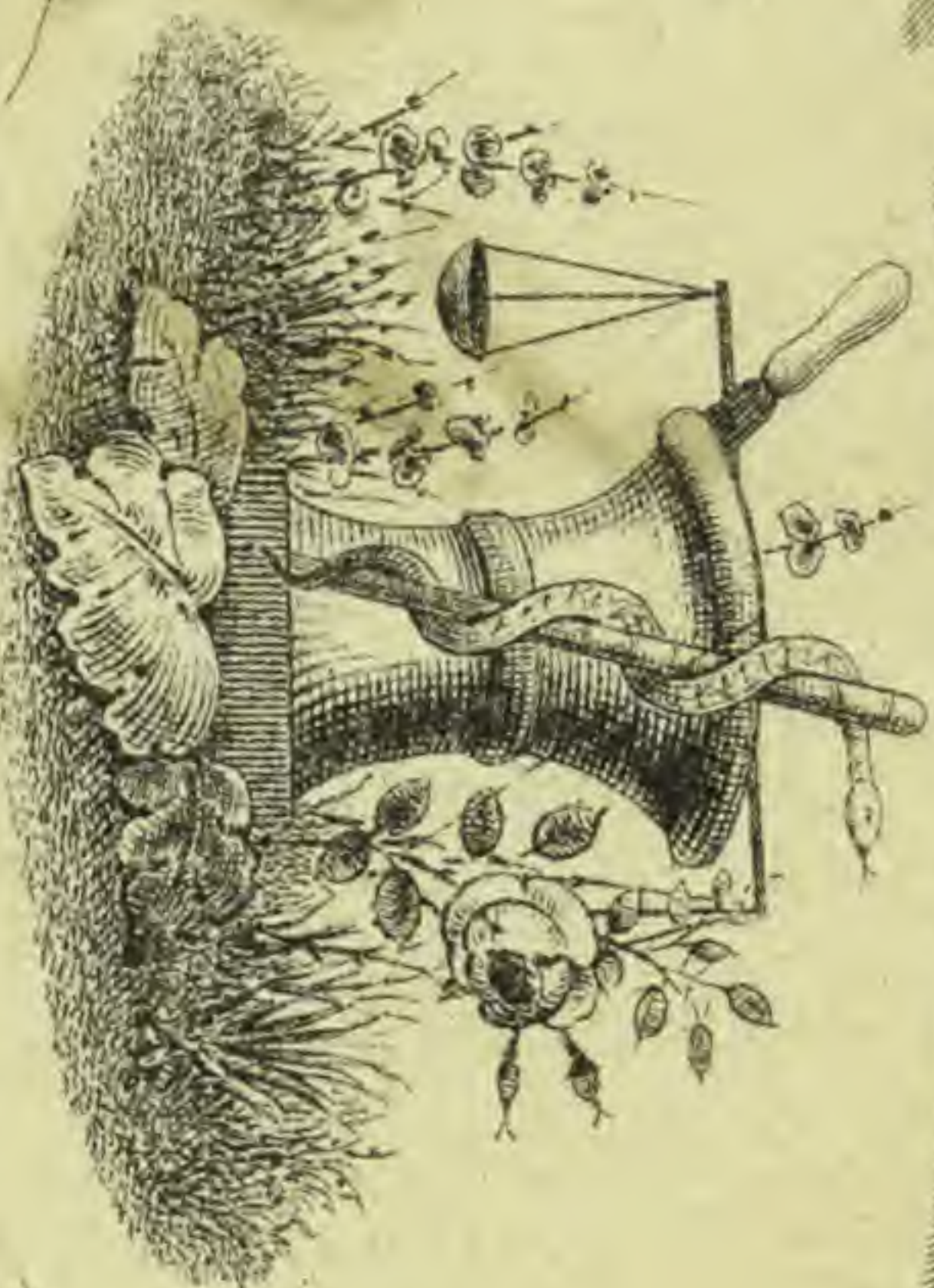
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Junonia arctius var. *Silbeckensis*

Is. Kodiak
ex Hb. An. Pitoy sine nom.

Silba sine nom. *J. arctius*

Gray
Kodiak

Silba

Engelm.
(Kodiak)
(Silba)



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