

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

Pagination Note:

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.

628.a.

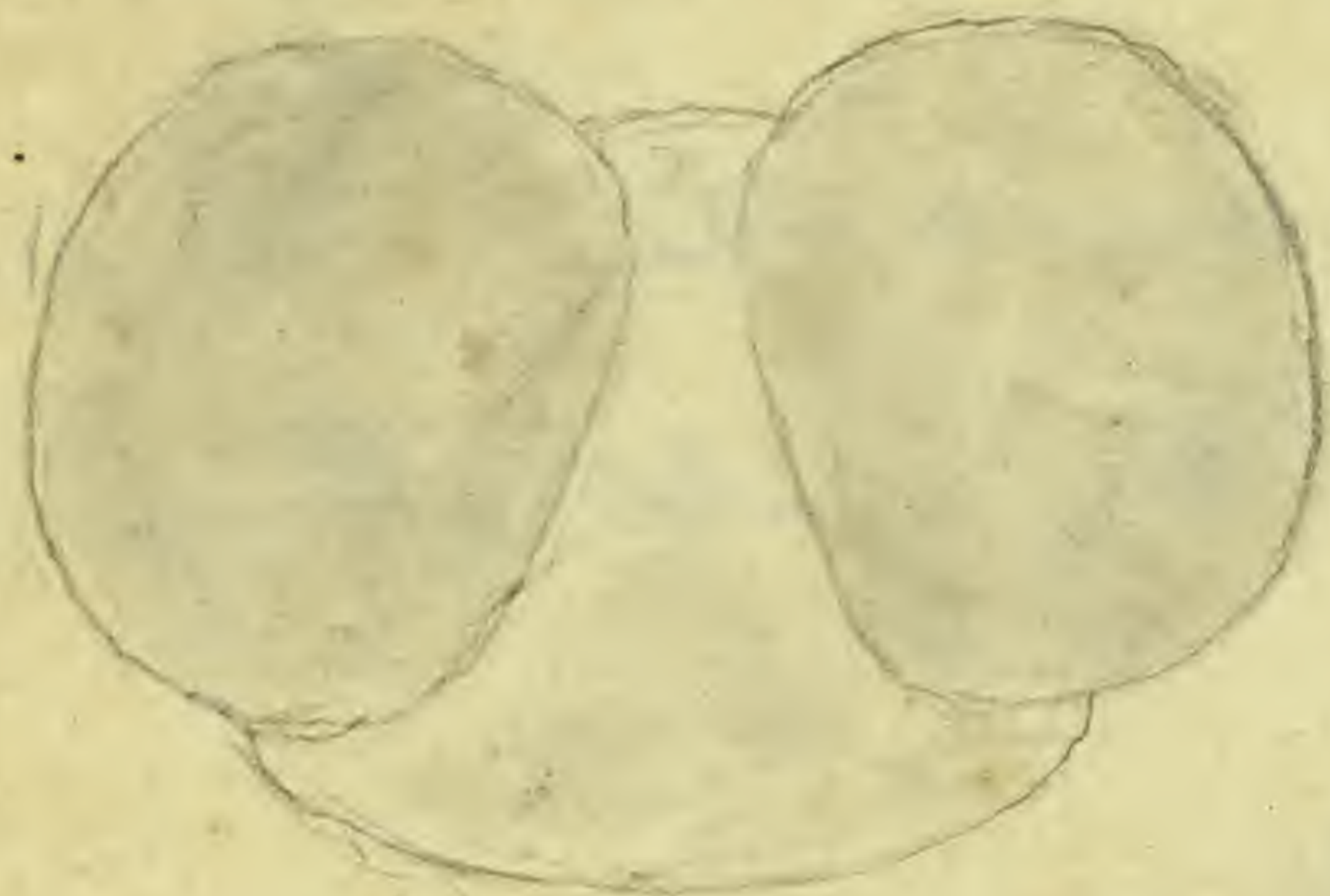
Pinus Montezumae ?

Aug. 23. 1863

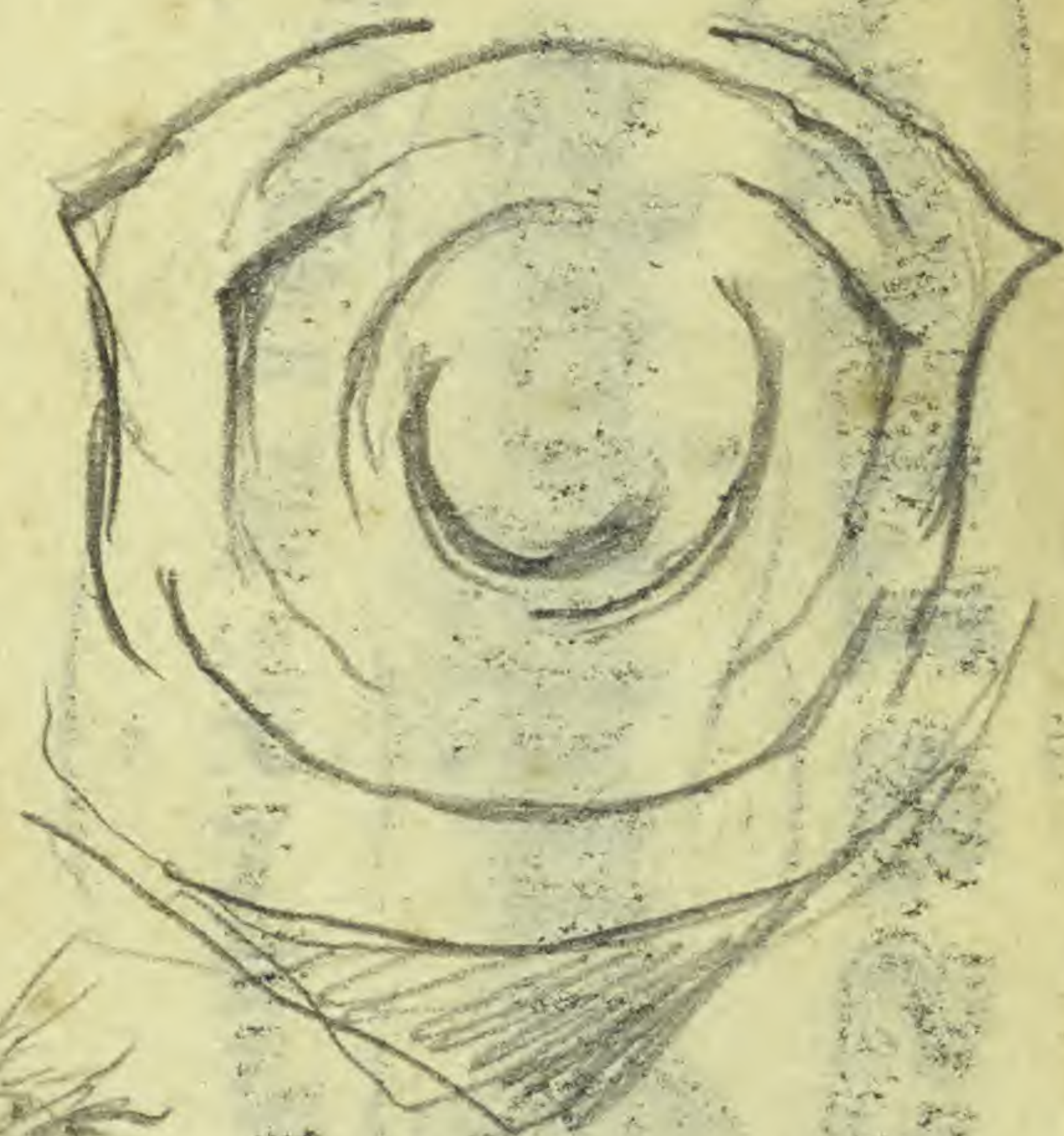
Gray, Real del Monte

March 22^d 1849

0.043



44



9-10

invol.

leaves

Pollen 0.043-0.044



0
cm

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GEORGE ENGELMANN PAPERS

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JONES & LETTICH
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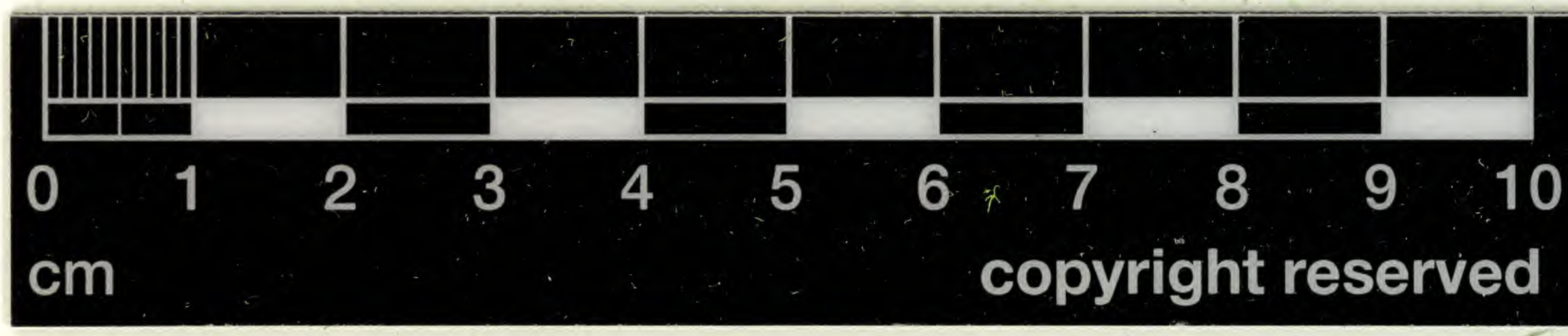
9-10 stout firm concave involucre leaves,
 the outer lateral strongly carinate, the inner
 lateral also carinate ^{shorter} acute, all others broadly
 oval obtuse.

infer. raceme abbreviat. capitata
 bracteae racemae persist. after the fall of the leaves
 vagine (old ones) 1 inch long
 leaves on the sp. with male fl. 8 inches
 on a vigorous shoot 12-13 inches
 strongly & closely serrate

leaves of fem. sp. 17 inches long, sheath 16 lines,
 fem. aments subterminal, ^{invol} cylindrical, with spreading
 beaked scales

or raceme

11077



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Pinus monleyana

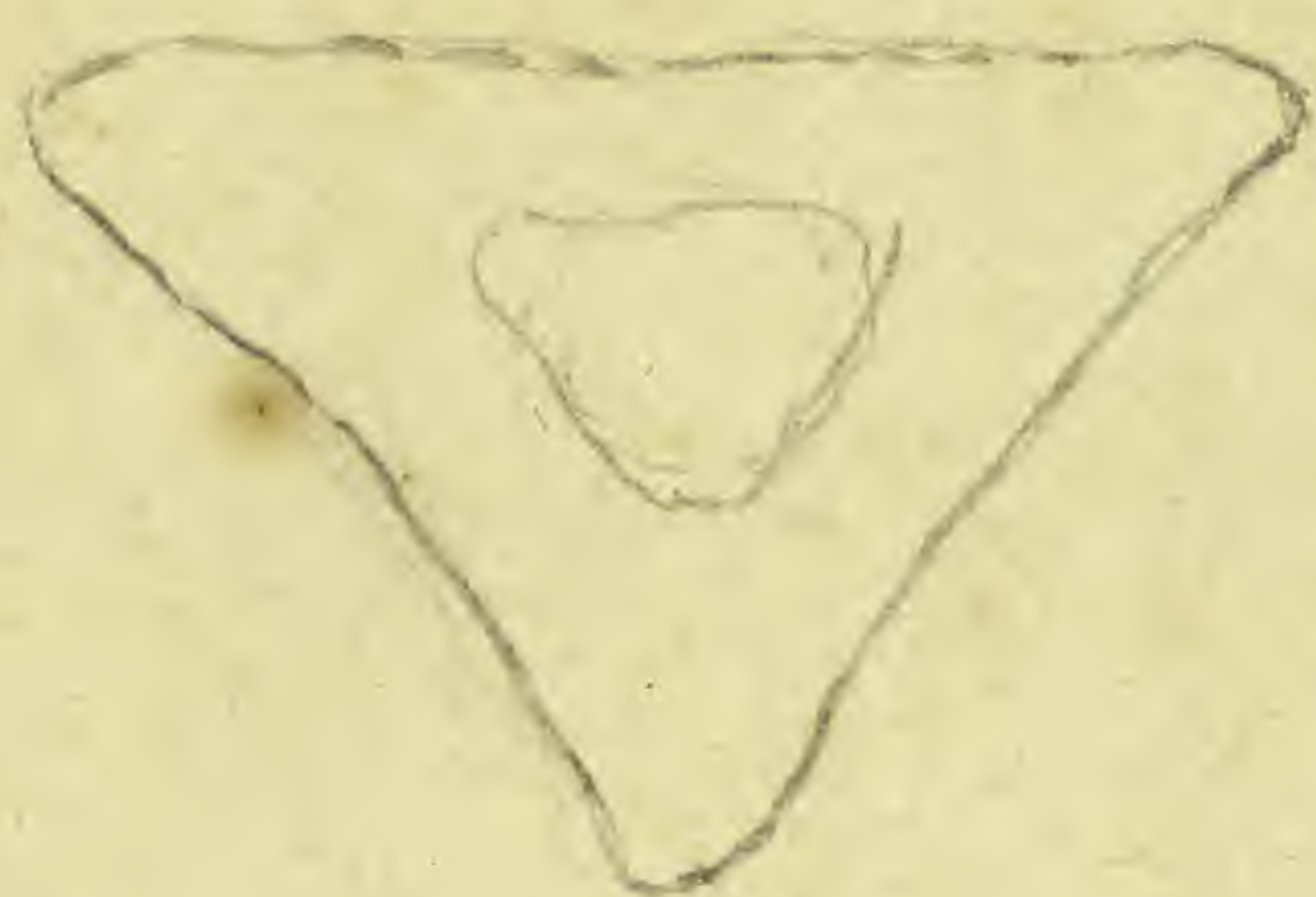
Gray 628. a

Aug. 26. 1863



Dry

X30



Soaked



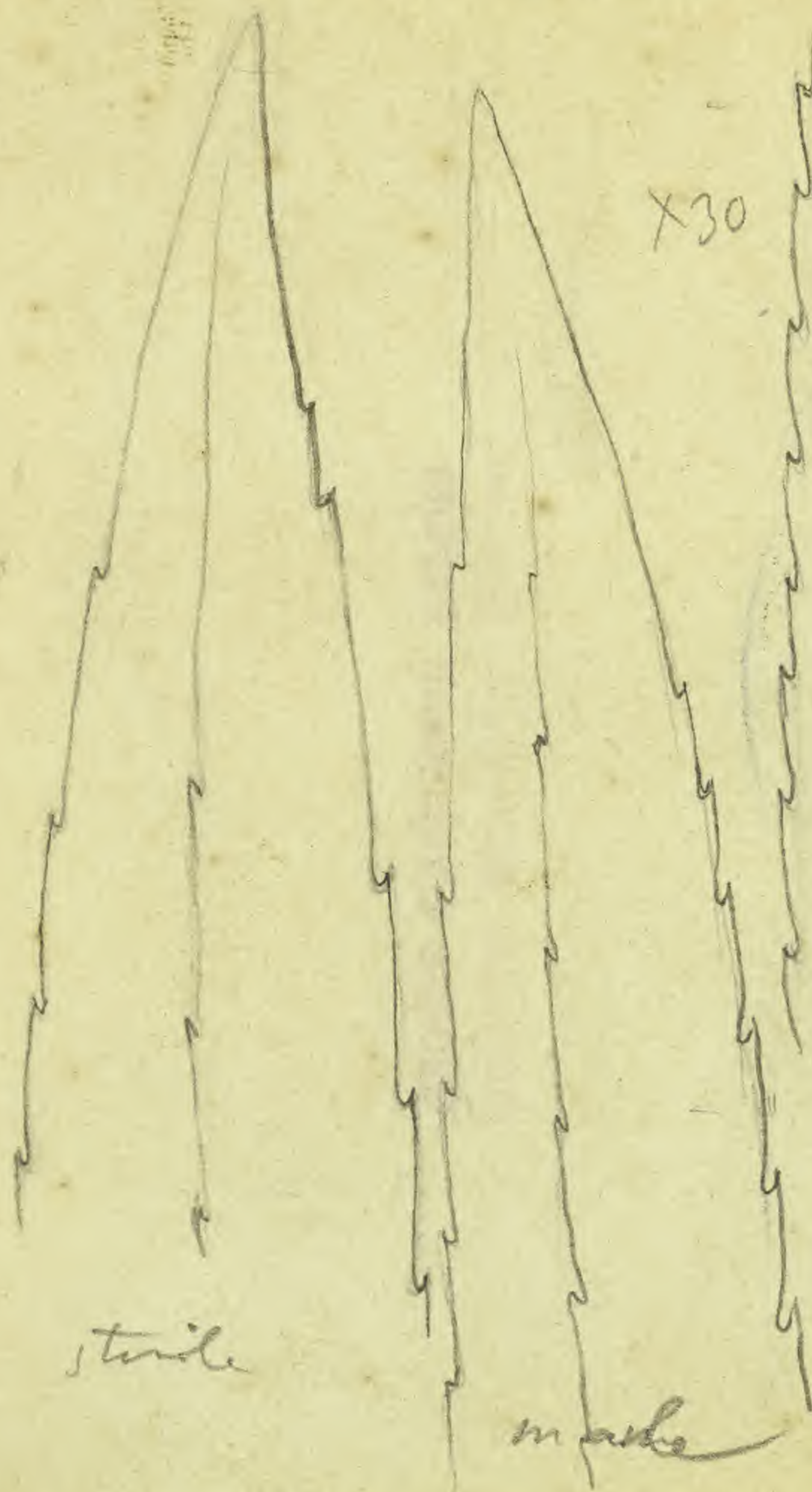
leaves of sterile branch

1 foot long $\frac{2}{3}$ line diam



leaves of male branch, $\frac{3}{4}$ foot long

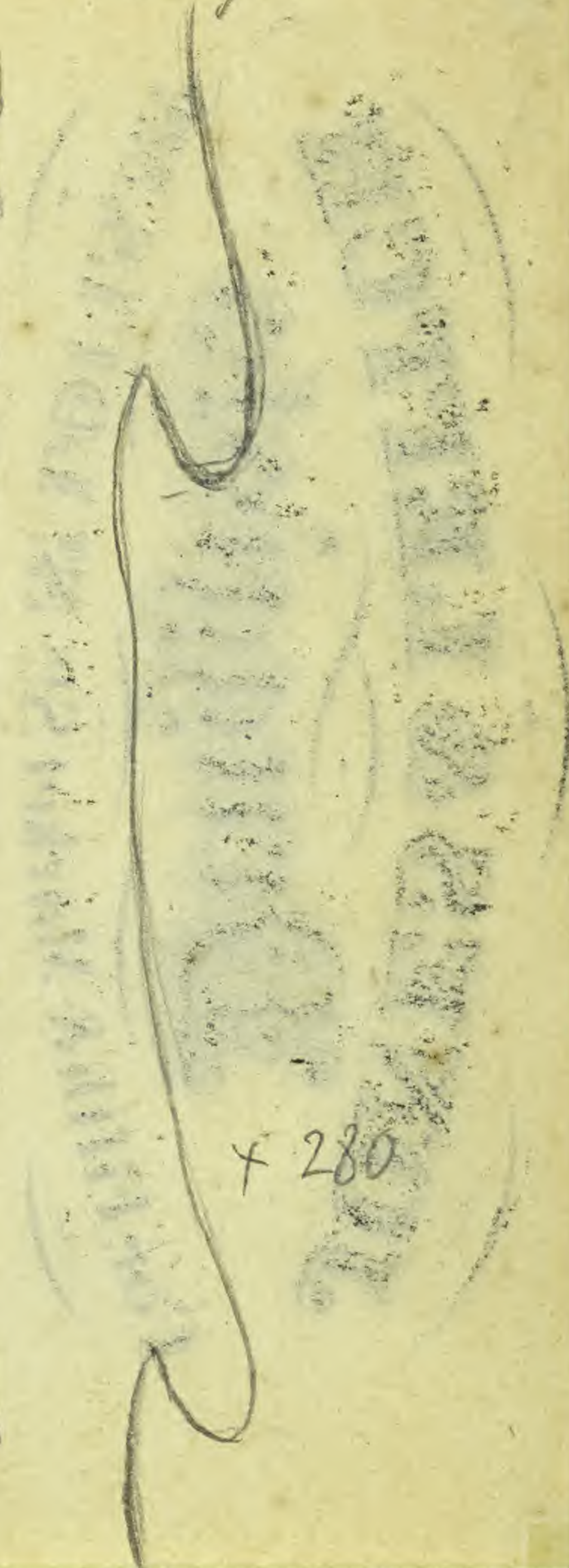
$\frac{1}{2}$ line diam



X30

sterile

male



X280



0 1 2 3 4 5 6 7 8 9 10

cm

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Picus Montezumae

April 6 1871

foliis brevissimis (3/2 poll.)

Herb. Carolina.

C. Ehrenberg No. 651

x30



x30



x60



x30



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DRUGGISTS

South West
Corner Fifth
and Market
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cm

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East of Tepic, May 1849

Pinus Montezumae

April 3^d 1871

Dr. Gregg No 975

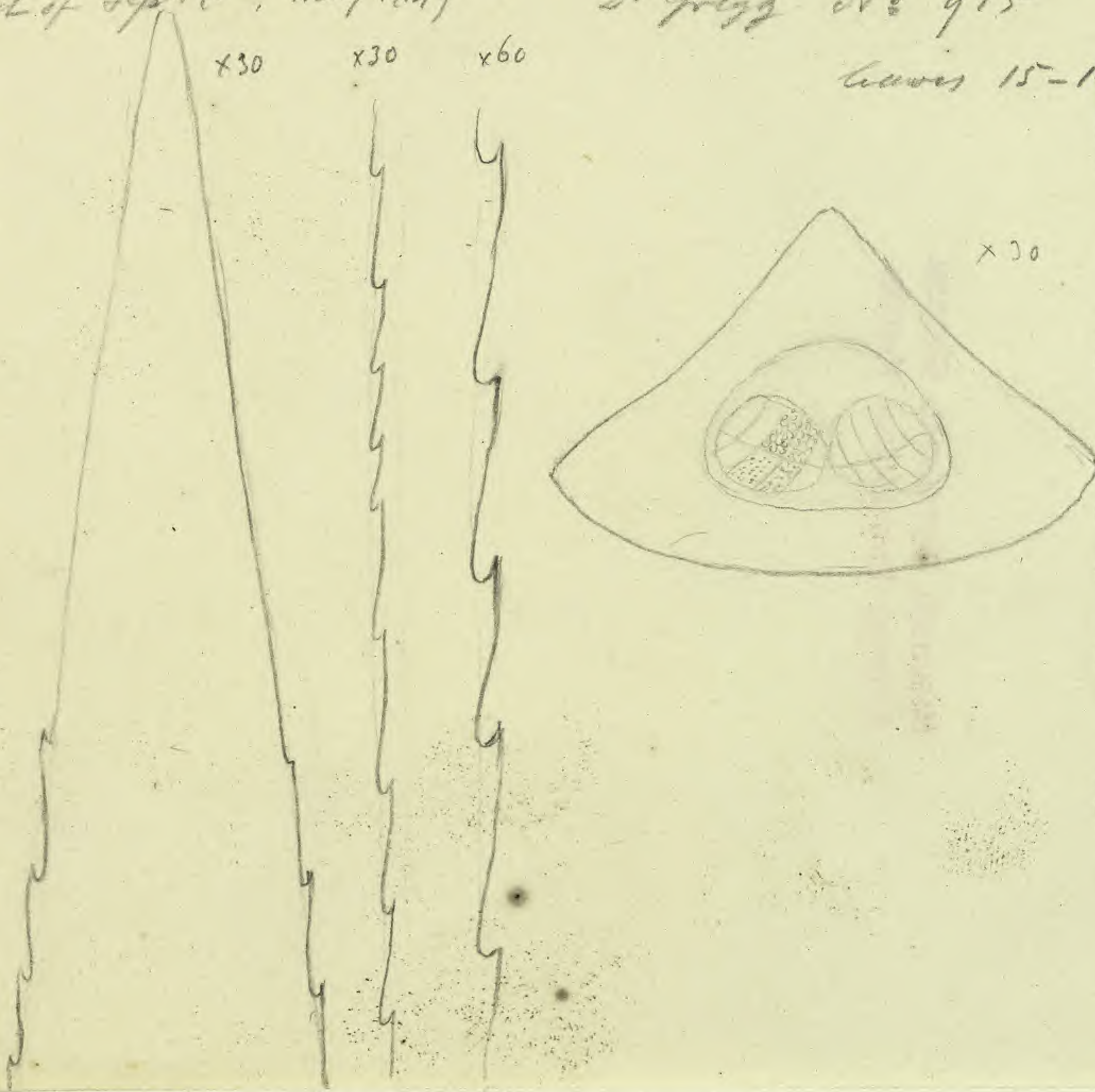
leaves 15-16 inches long

x30

x30

x60

x30



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 GEORGE ENGELMANN PAPERS
 HERBARIUM
 GEORGE ENGELMANN PAPERS
 HERBARIUM



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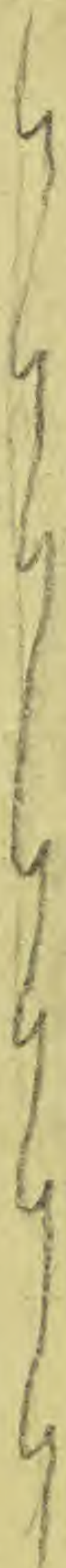
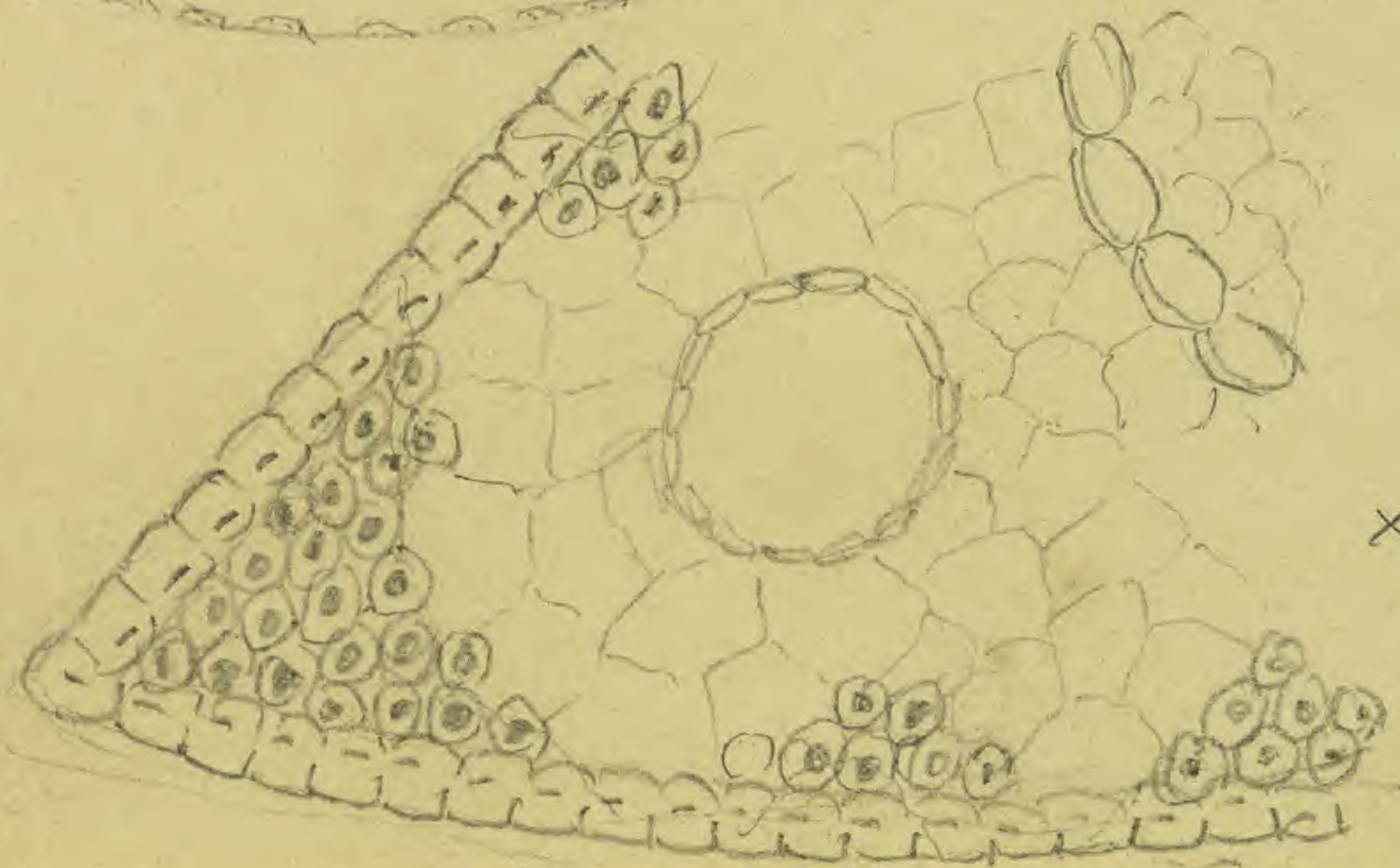
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Pinus Montezumae

April 30 1878

Gray 975 near Tepic

leaves 16 inches long



x60



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cm

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No. 3003 Locust Street.



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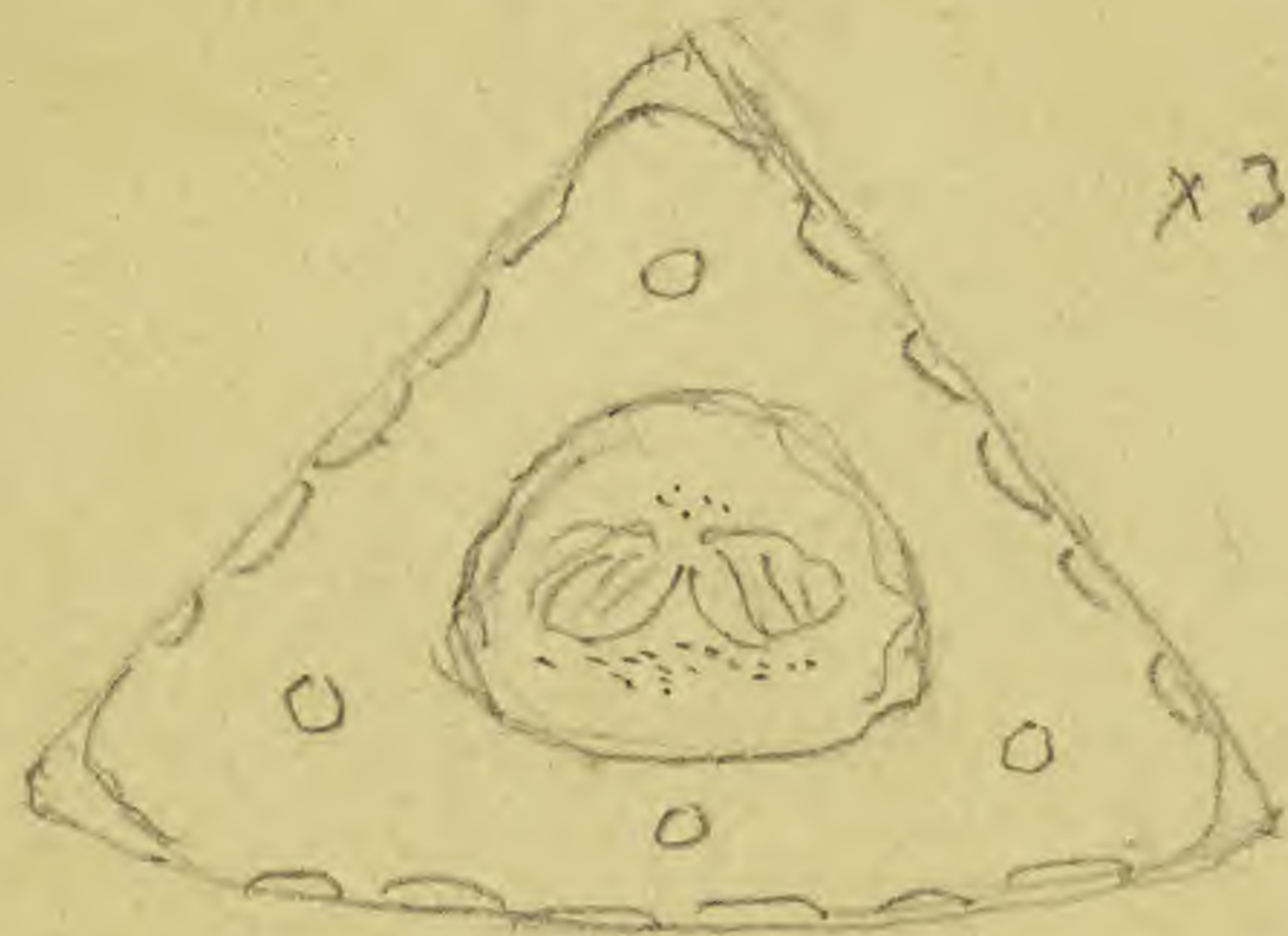
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Pithecomorpha

May 2 1878

648 Ehrenberg, Mexico

Hb. Berl.



x30

x20



x30



holypodem arbor ducts



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cm

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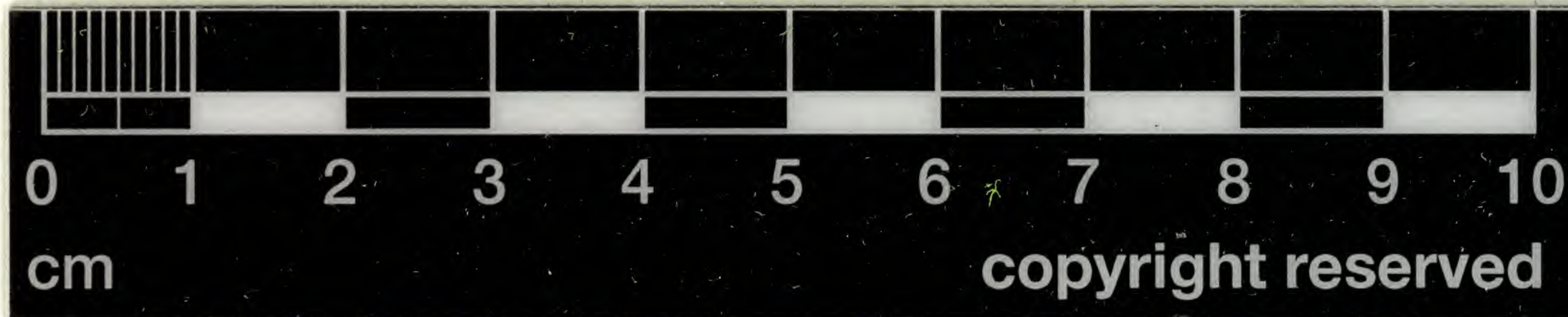
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3 Feb

42

P. Forryana

141-3



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cm

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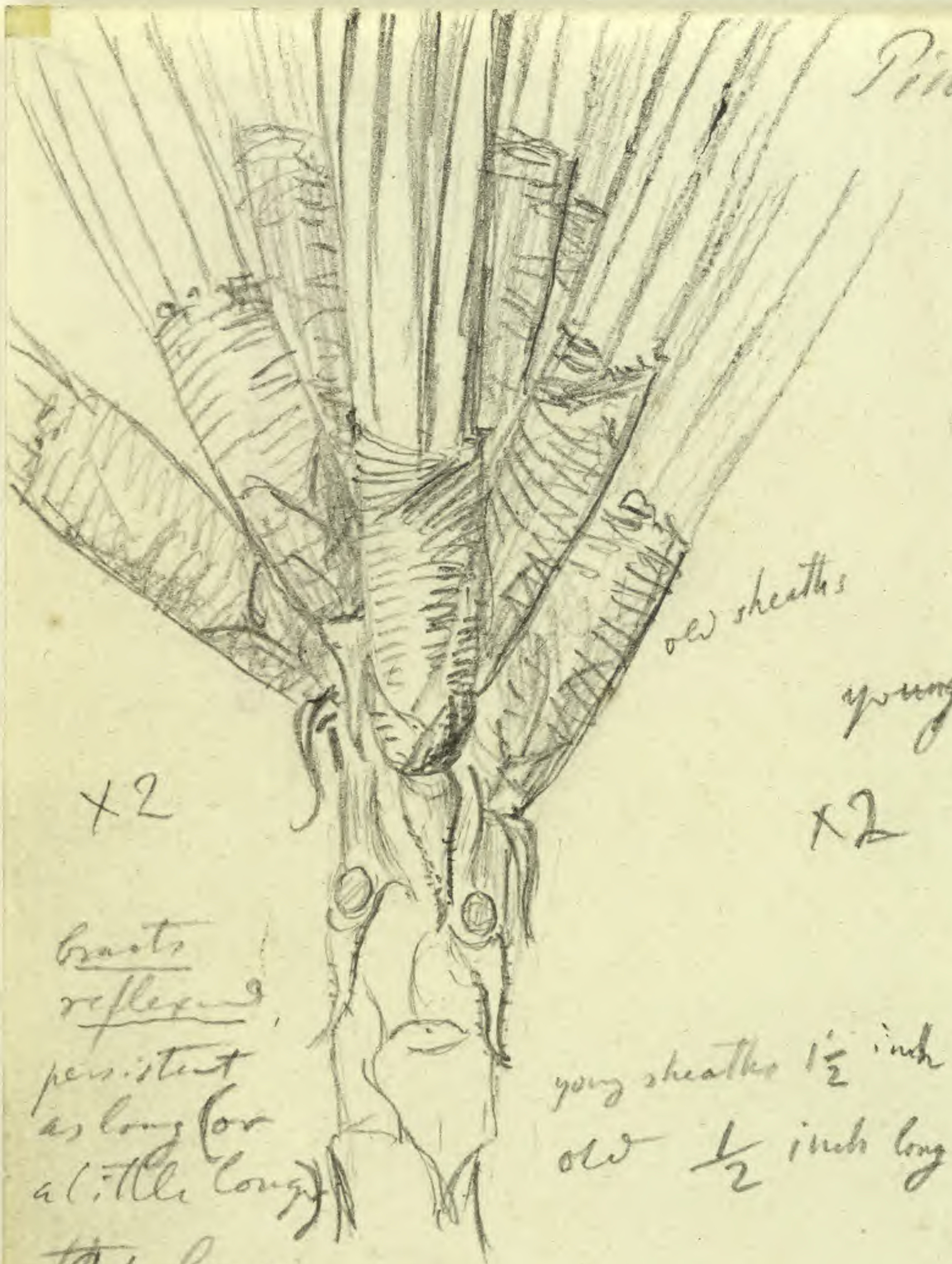


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Pinus Torreyana Parry
by Herb. Parry.

Calif

May 1862



x2

bracts
reflexed,
persistent
as long (or
a little longer)
than leaves

old sheaths

young

x2

young sheaths $\frac{1}{2}$ inch
old $\frac{1}{2}$ inch long



x2



terminal bud.
resinous.

more a straggling shrub
than a tree, with almost
prostrate branches in
exposed places — as a
small tree it is
quite round topped,
rather than oval
D. Parry & Co

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JONES & JONES



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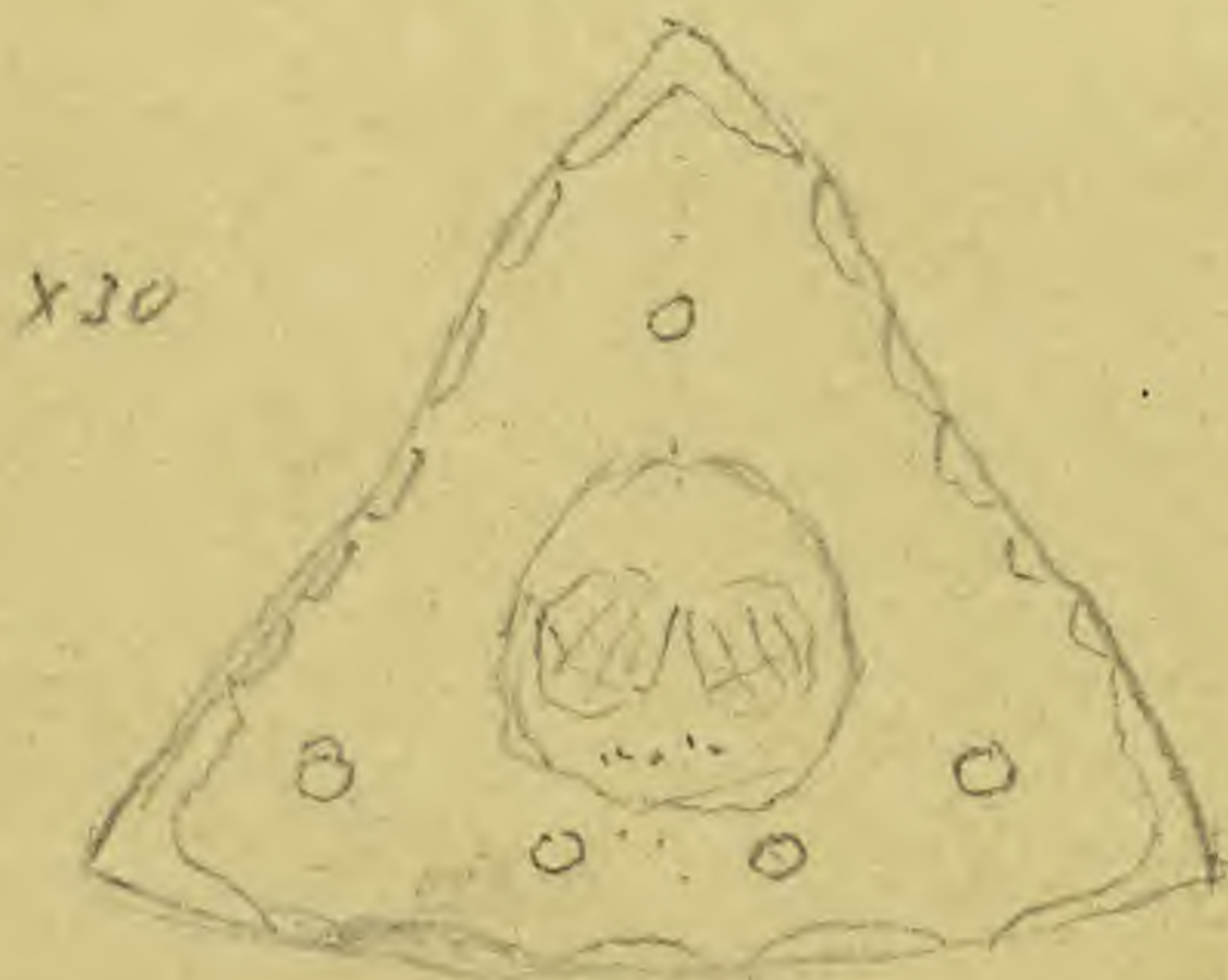


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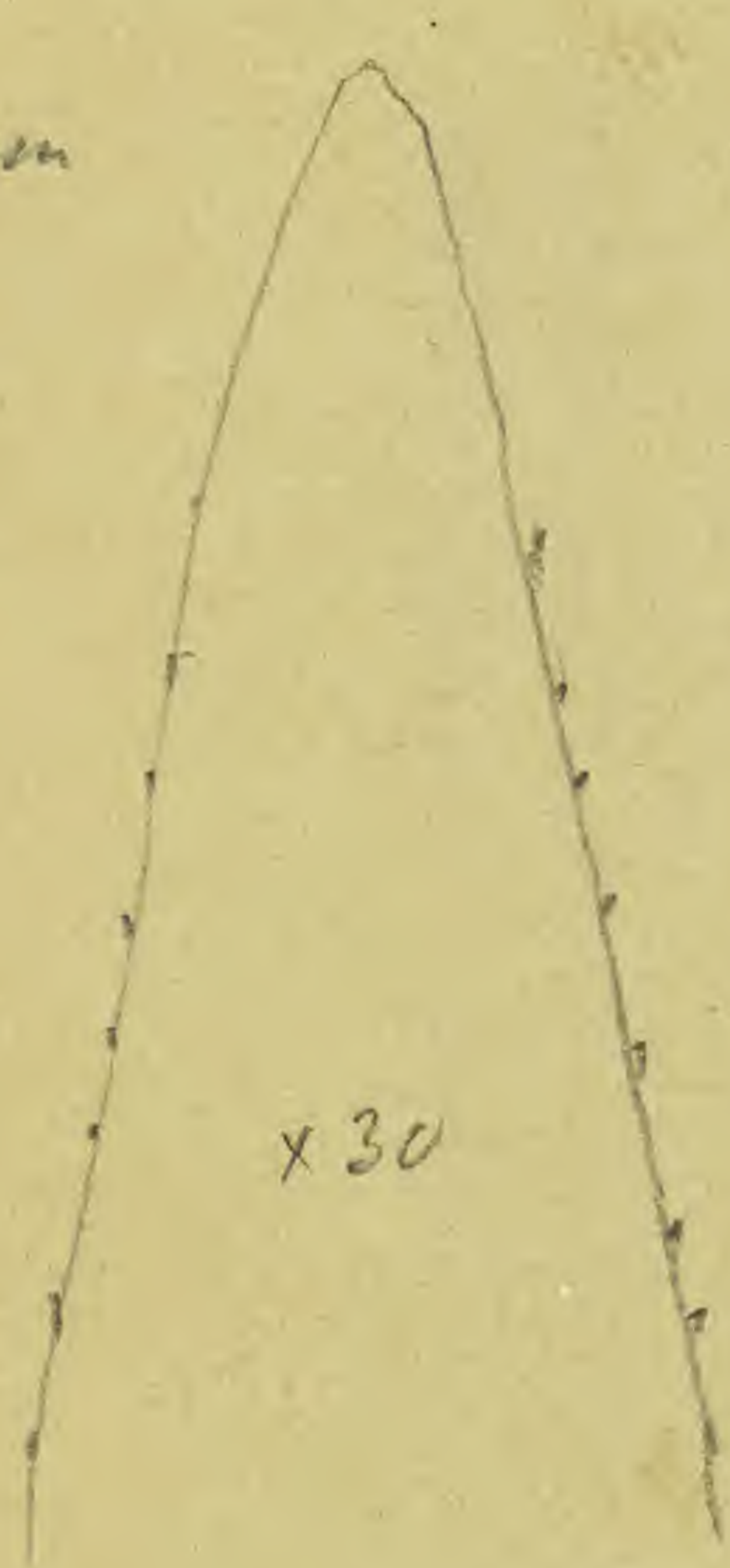
Pinus Hartwegii !

May 1st 1878

Hb. Berlin ?



leaf
1.2 mm diam



x60



hypoderm cells, all around
and a few ^{below} ~~within~~ bundles
within sheath
2-5 ducts, with + hypoderm
surrounding
- parenchyma



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cm

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"Pinus Hartwegii" ?

May 25 1878

"Jacolote"

no. Berl.

White 563



ducts small, paracymbant
or none
hypoderm very sparing,
in bundles
and within sheath



0 1 2 3 4 5 6 7 8 9 10

cm

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Street.

W. S. BROOKS'S
PHARMACY

PURE WINES AND LIQUORS FOR MEDICAL USE.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Cor. 5th
and
Walnut St



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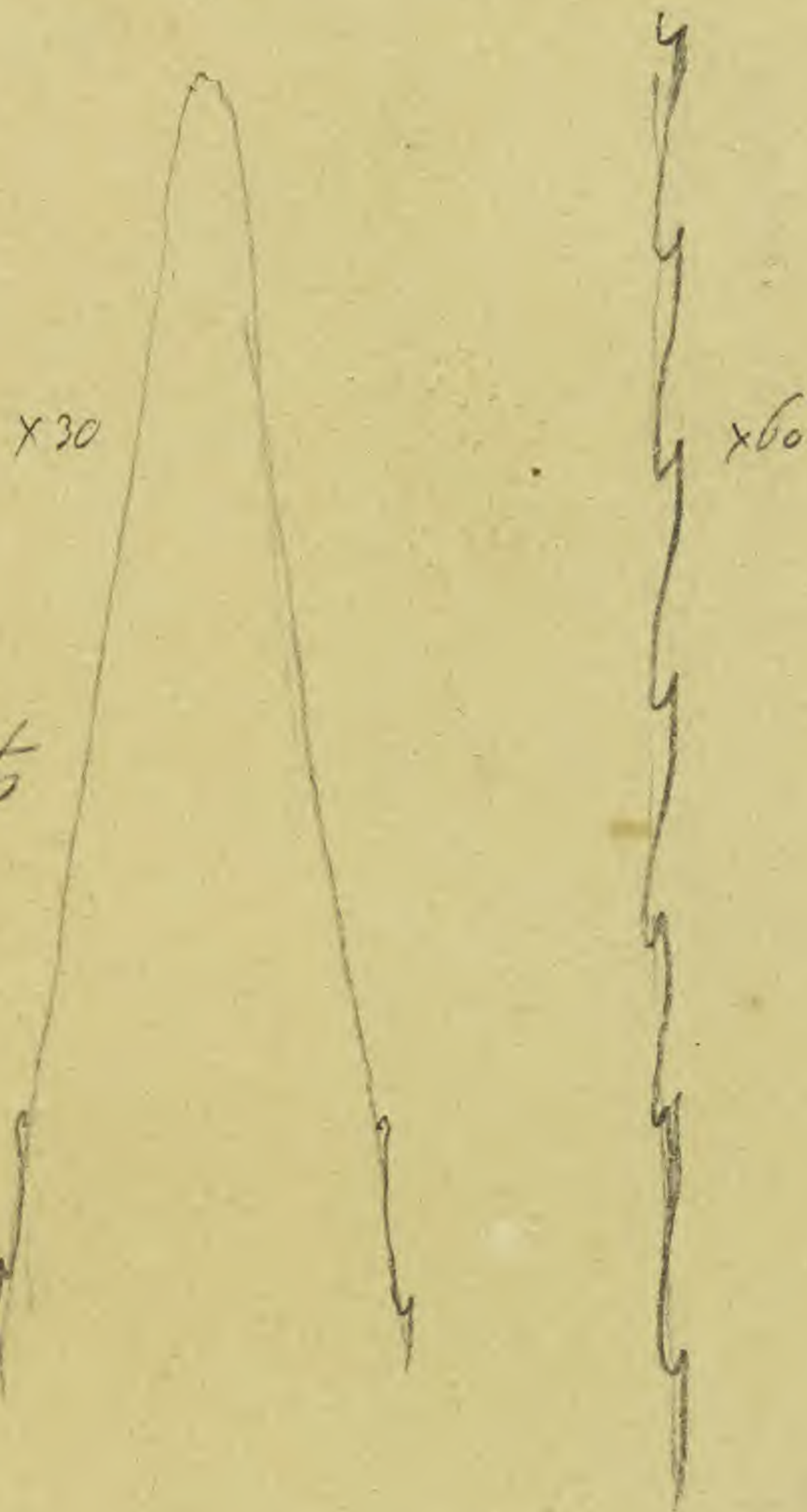
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Pinus Hartwegii ?
"Jacolote" White Hb. Berlin 563

May 1st 1878



leaf 1 mm
wide



only traces of parenchymatous ducts
hypoderm cells few on back
and a few in adax bundle,



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P. Hartwegii !

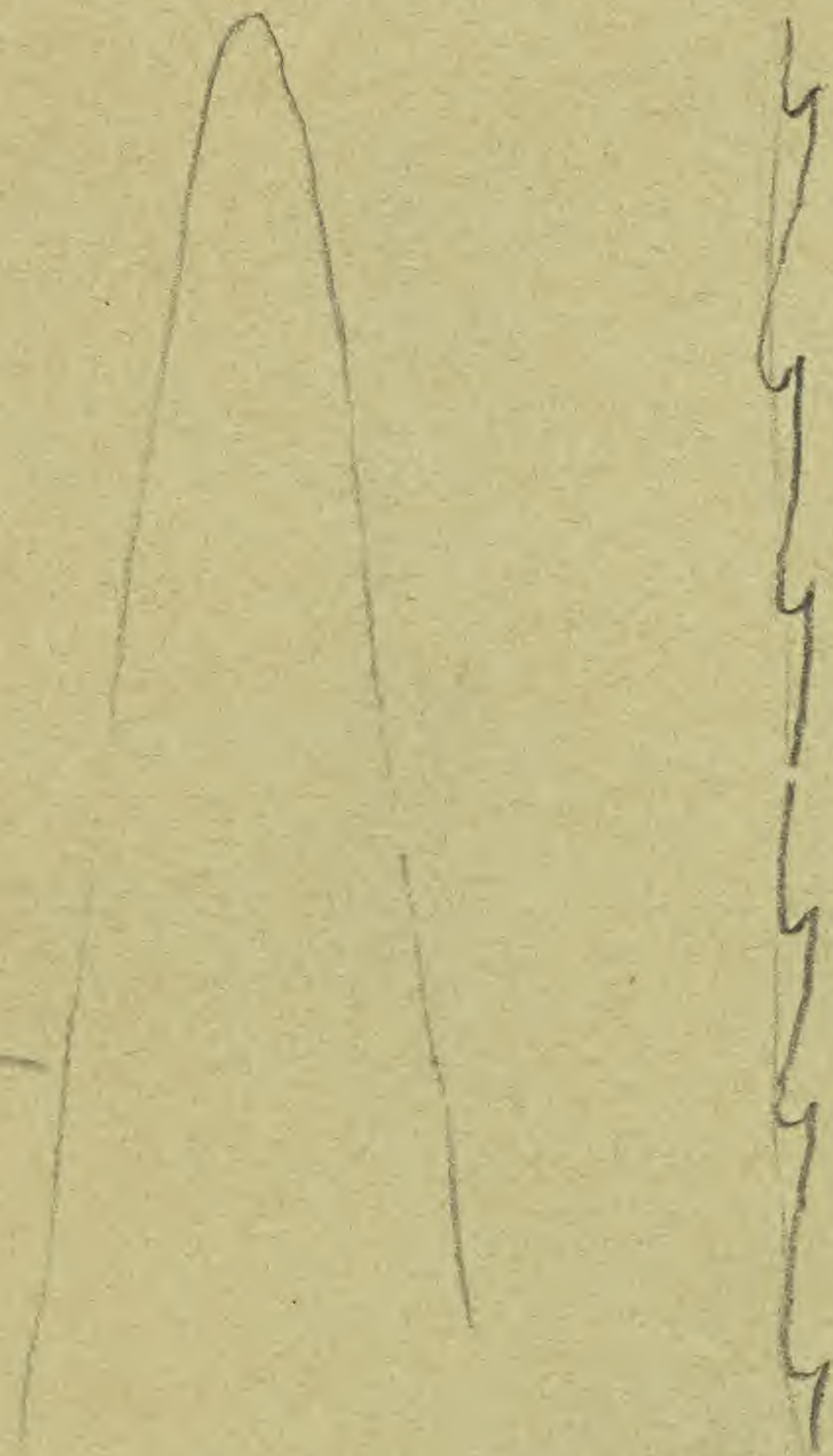
May 25 1878

The original specimen of Hartweg



x30

3 regular pterygote ducts
after 2 accessory ones
no hypoderm around them
but in bundles under epiderm
and within sheath



x60



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cm

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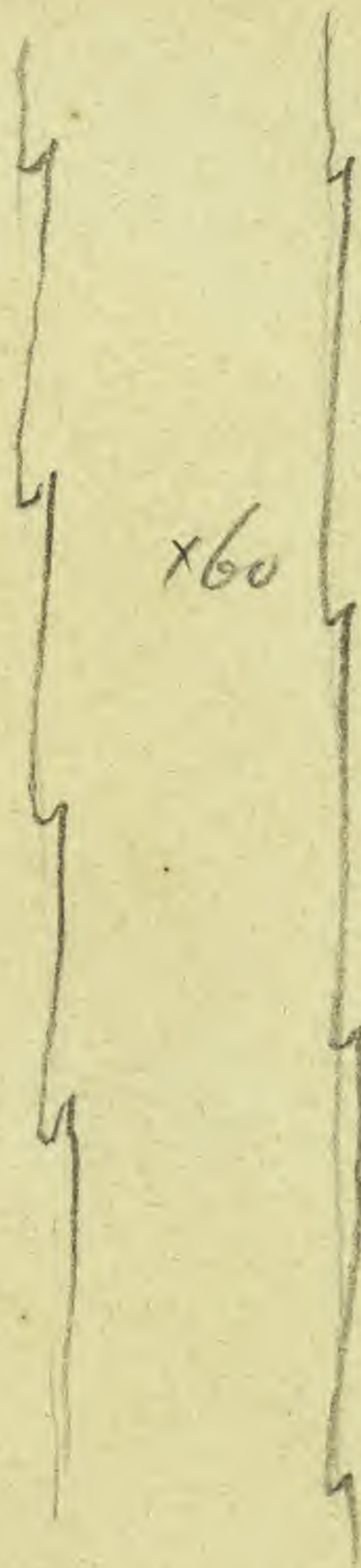
Pinus

May 29 1878

No 2 Libanus, Oaxaca



hypoderm - corners
and in interrupted
bundles all around



x60

both seen

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Pinus

May 24 1878

Puebler, Libanus No 1. strobili globosi

x 30



one parenchyma
duct or none
morally

x 60



x 150

Sheath



0 1 2 3 4 5 6 7 8 9 10

cm

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Pinus granvillei

April 3 1871

cult. Pallanza, May 16 1858

x30



x30



x60



Leaves 16 inches long

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Pinus strobus

June 21 1878

Hort Thuret 1869



x30

2 lateral parenchymatous
ducts

veins: 2 bundles.

hypoderm with sheath
in angles, and
sparingly all around.



x60



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"Pinus inflexus" Roysl
at Montezuma?

Kew Gardens 1869

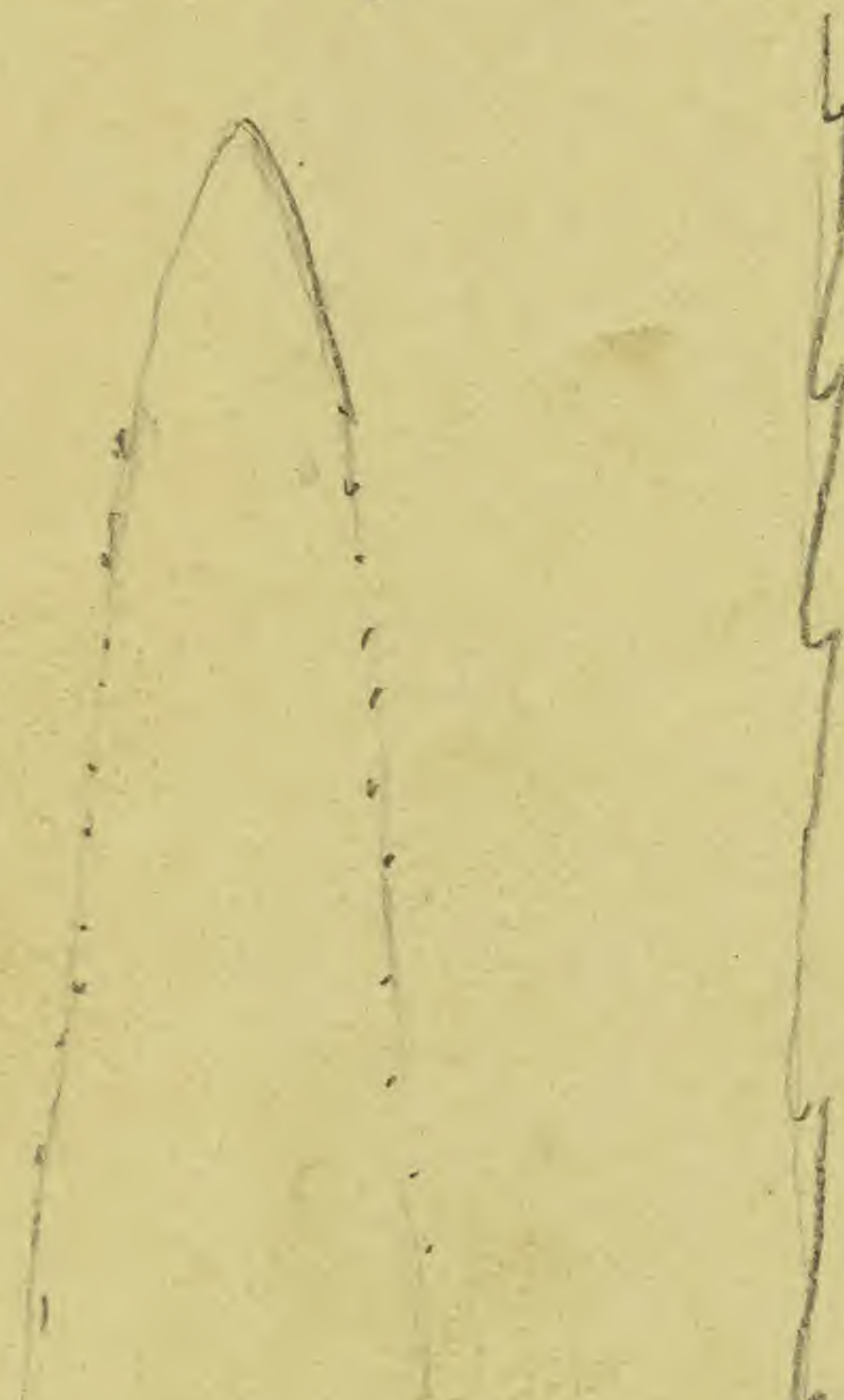
June 21 1872

see Roysl Cat

p. 19.



x 30



x 60

2 x 4-5 series of stomata on upper side
about 1/2 " " on back
2 parench. dict. - much hypoderm within sheath



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cm

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P. horizontalis Regel

May 30 1878

= *Pseudotsuga* fide Bartlett

x 30



3 parenchymatous ducts
of some accessory
ones

x 30



x 60



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Pinus rudis ?

May 1st 1878

Mexico Ehrenburg, Hb Berlin 616

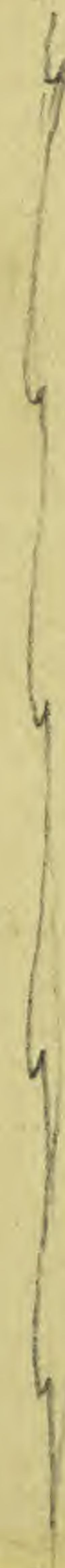
leaf 0.8 mm wide



very little hypodermis on
angles and back, none
within sheath



x 60



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"*Pinus Russeliana*"

April 3 1871

leaves in 5 & 6

Villa Semidoff, Florence

Sept 1868

specimen of 6 leaves



leaf 0.9 mm wide

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