

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.*





## **Caladium Esculentum,**

THIS 's one of the most beautiful of ornamental foliage plants, and thrives well planted out in a moist place during summer.

Price, \$1.00 each, \$9.00 per dozen.



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN



13079



brut. exserte

*A. pectinatus*

**Ranunculus Asiaticus.**

THIS is one of the most valuable of the Ranunculus, flowering a long time during the season, and enduring the heat of summer better. It is more vigorous in growth than the other varieties. Flowers very double, from pure white to brilliant crimson.

Price, dry roots, early in the spring, 15 cents each, \$1.50 per dozen; started in pots, 25 cents each.

**Boussingaultia Baselloides. (Madeira Vine.)**

THE Madeira or Mignonette Vine is one of the finest plants for rapidly covering arbors, trellis work, &c. The leaves are dark glossy green, flowers feathery white; very fragrant.

Price, extra large roots, 10 cents each, 75 cents per dozen; good roots, 5 cents each, 50 cents per dozen.

**Miscellaneous Running Plants.**

THESE are all well adapted for covering arbors or trellis work. The tubers should be taken up after the first frost, and kept in dry sand during winter.

*Dioscorea Discolor*, pretty variegated foliage plant, growing about 10 feet high, 50 cents each.



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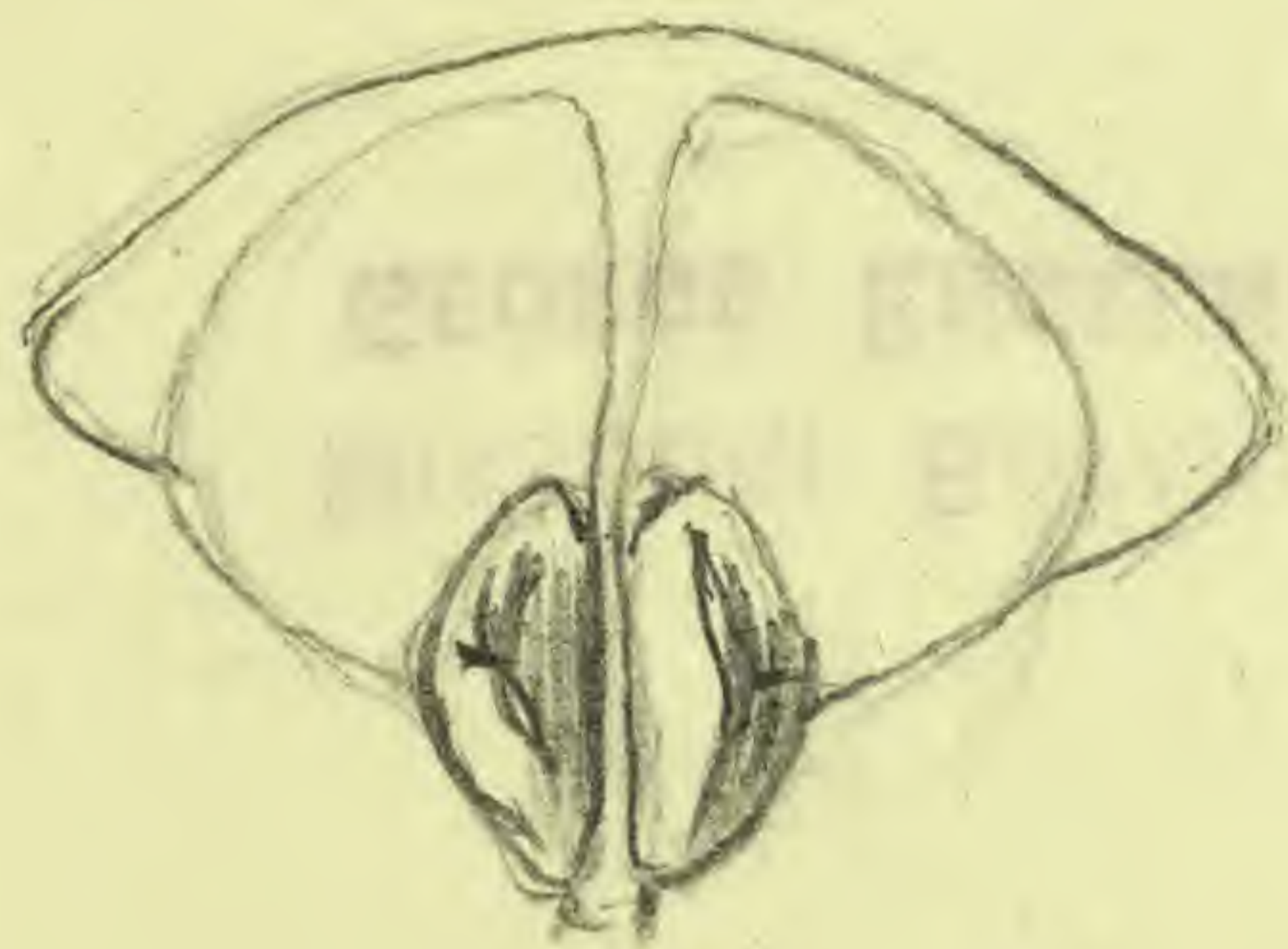
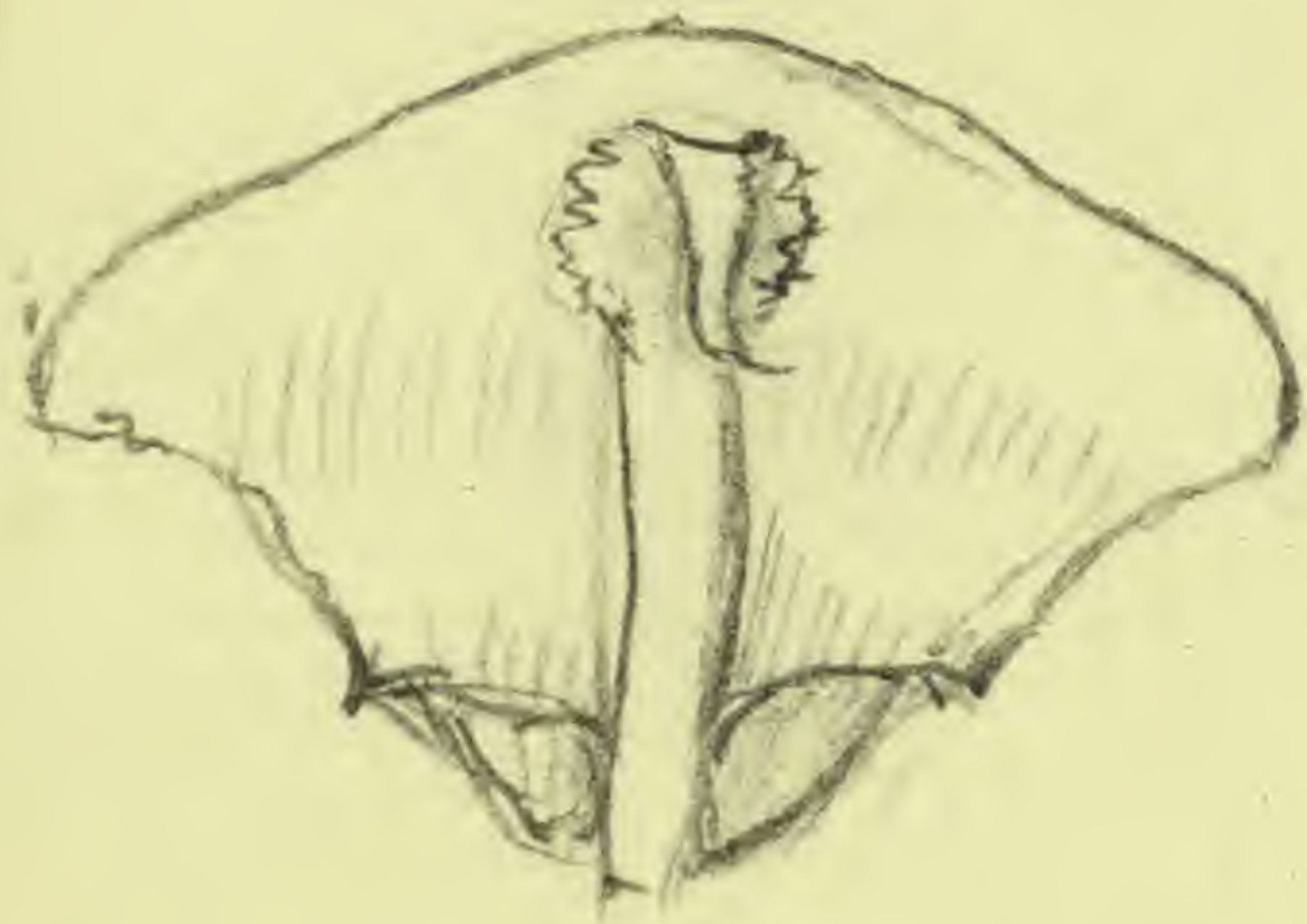


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*Abies pectinata* DC  
Germany

Nov 1862



side toward  
supporting  
scale

upper side



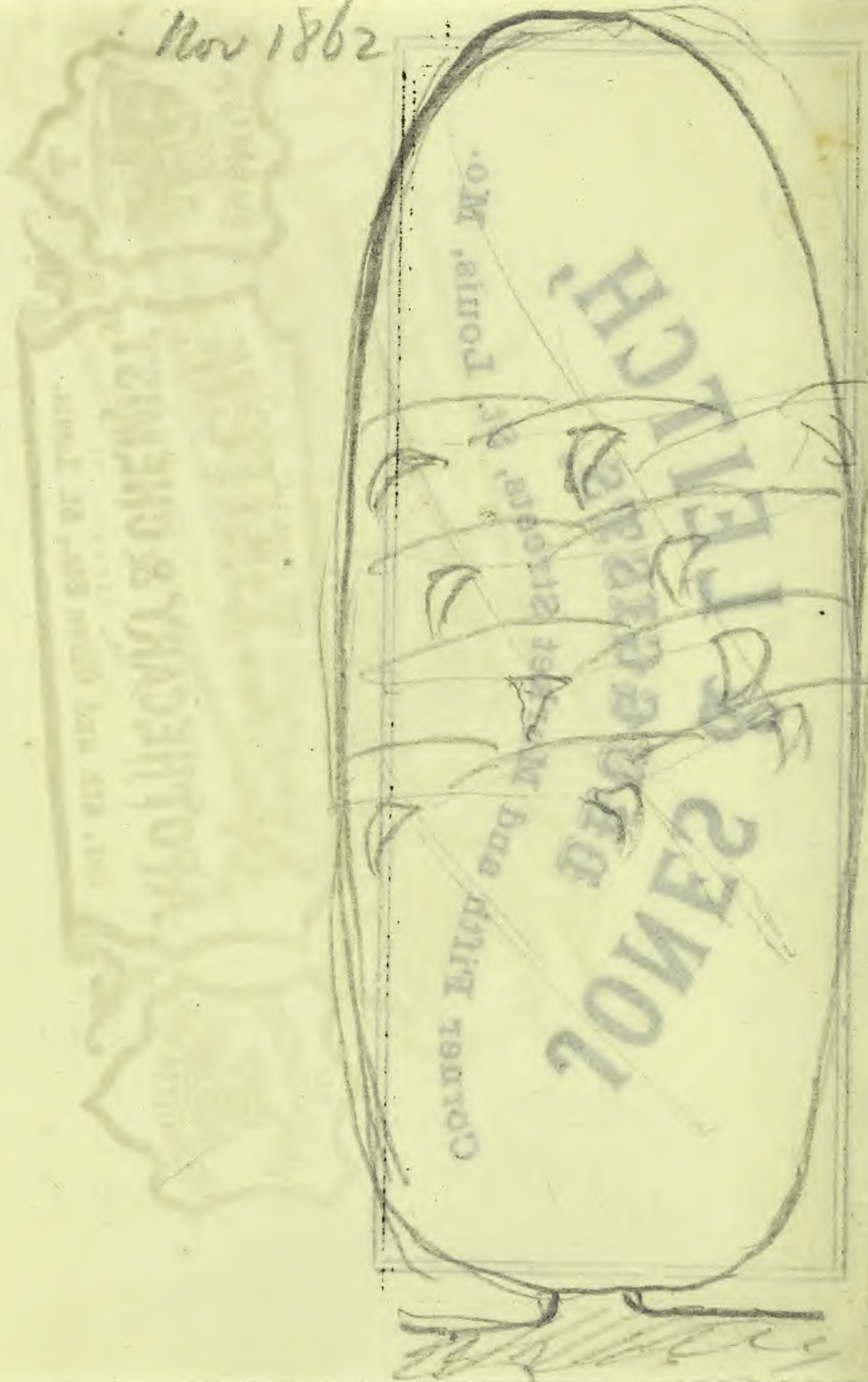
seed detached  
with small wing



embryo

x4

5 obtuse  
cotyledons



0

1

2

3

4

5

6

7

8

9

10

cm

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*Abies pectinata*

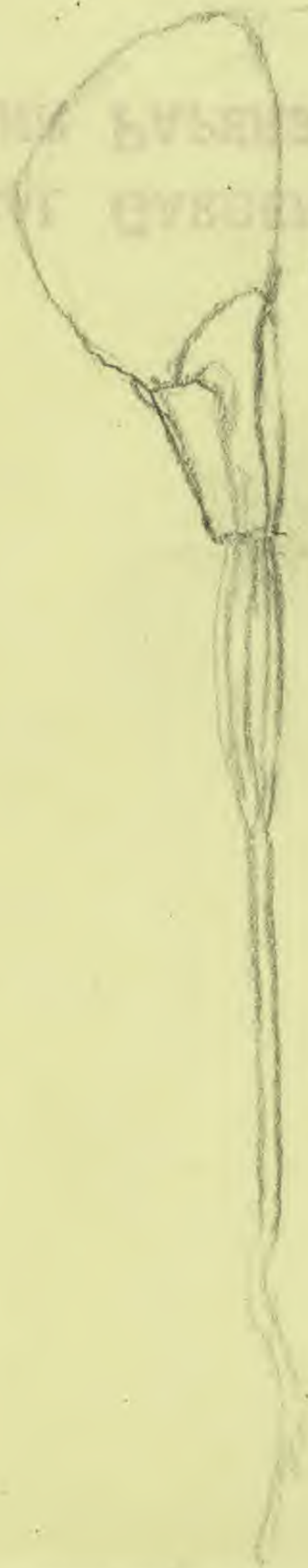
Oct 4. 1870

Cultivated from Riehl

x2



scale, copied  
from Loudon



Thuringerwald

16 May 1869 germinating

12 mm x 5/12

5 or 6 cotyledons

radicle 3 or 4



x2



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*Abies pectinata*

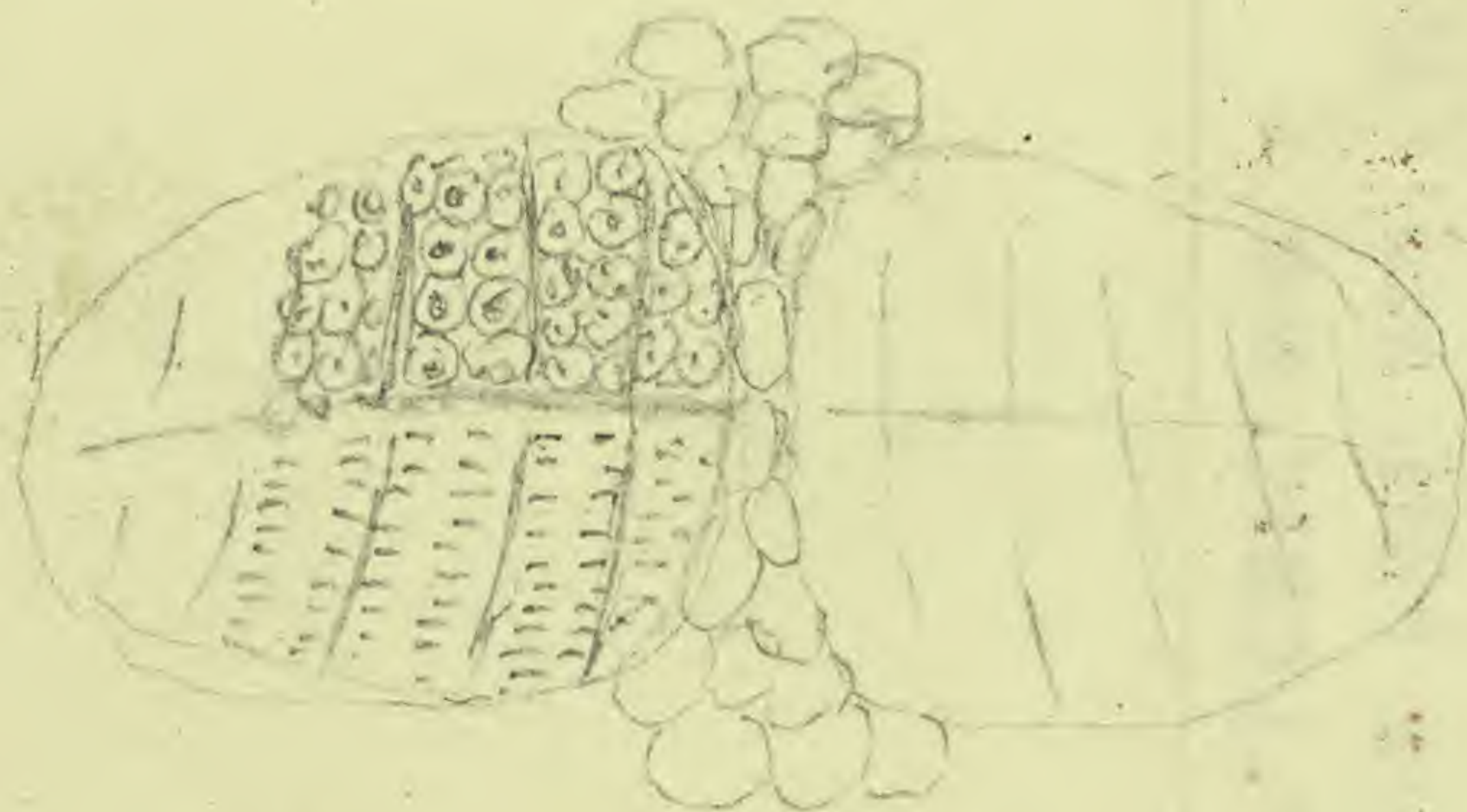
August 1 1871

x 30

no stomata

H.B. Missour

sections of different forms of leaves  
stomata on two broad white  
bands (aa) on lower side



*Faint, illegible handwritten notes on the right side of the page.*



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Deutsche Apotheke.

HENRY DIERS,  
APOTHECARY,

South East Corner Fifth and Fiddle Streets,

ST. LOUIS, MO.

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18082



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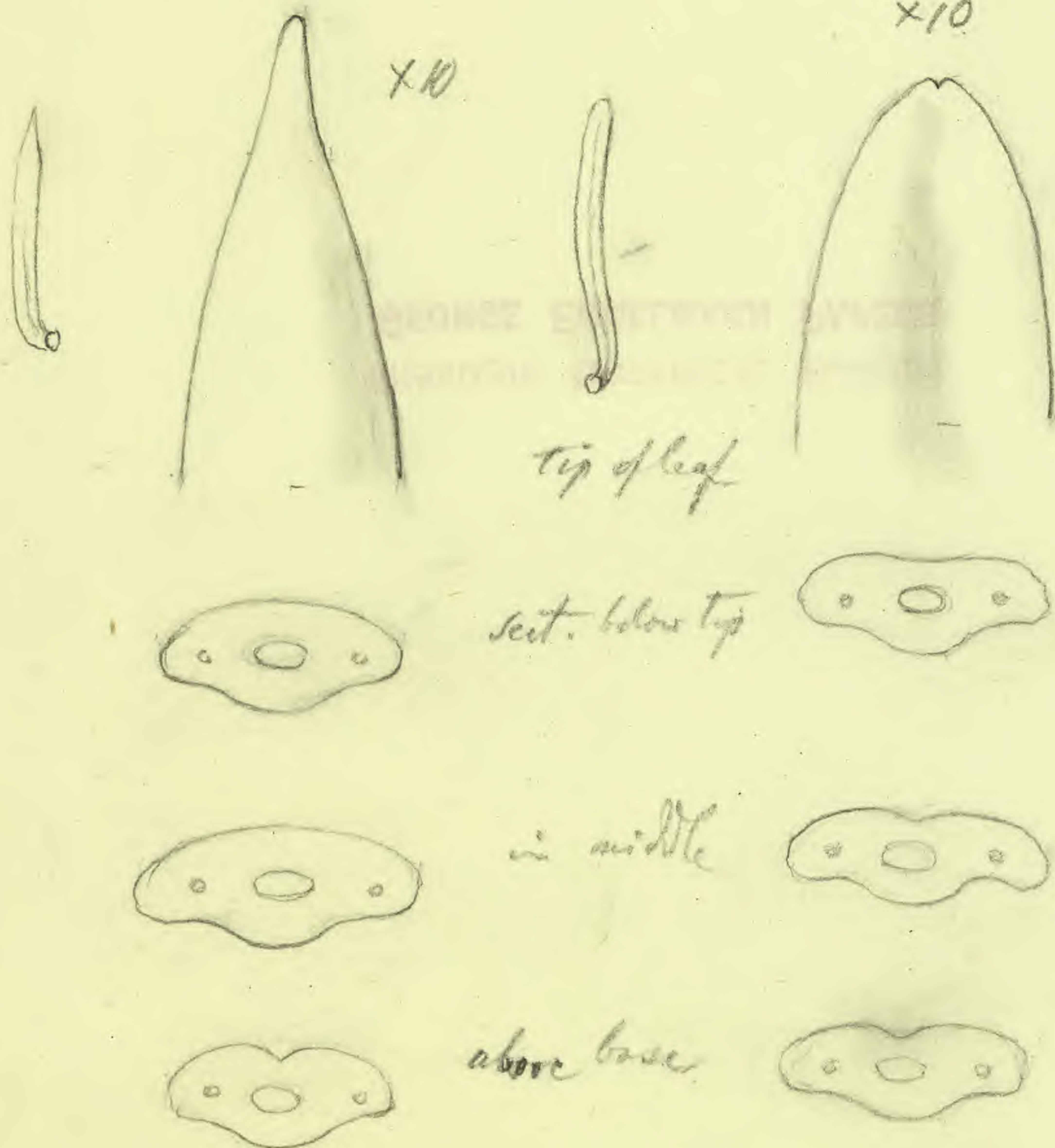
*Abies pectinata*

April 18 1872

leaves from a fertile branch, Tripstein, Thuringia

J. E. June 1869

most leaves acute



some stomata on upper side

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1869



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Wright & Corlies

DRUGGISTS

South-west  
Corner Fifth  
and Market  
Streets

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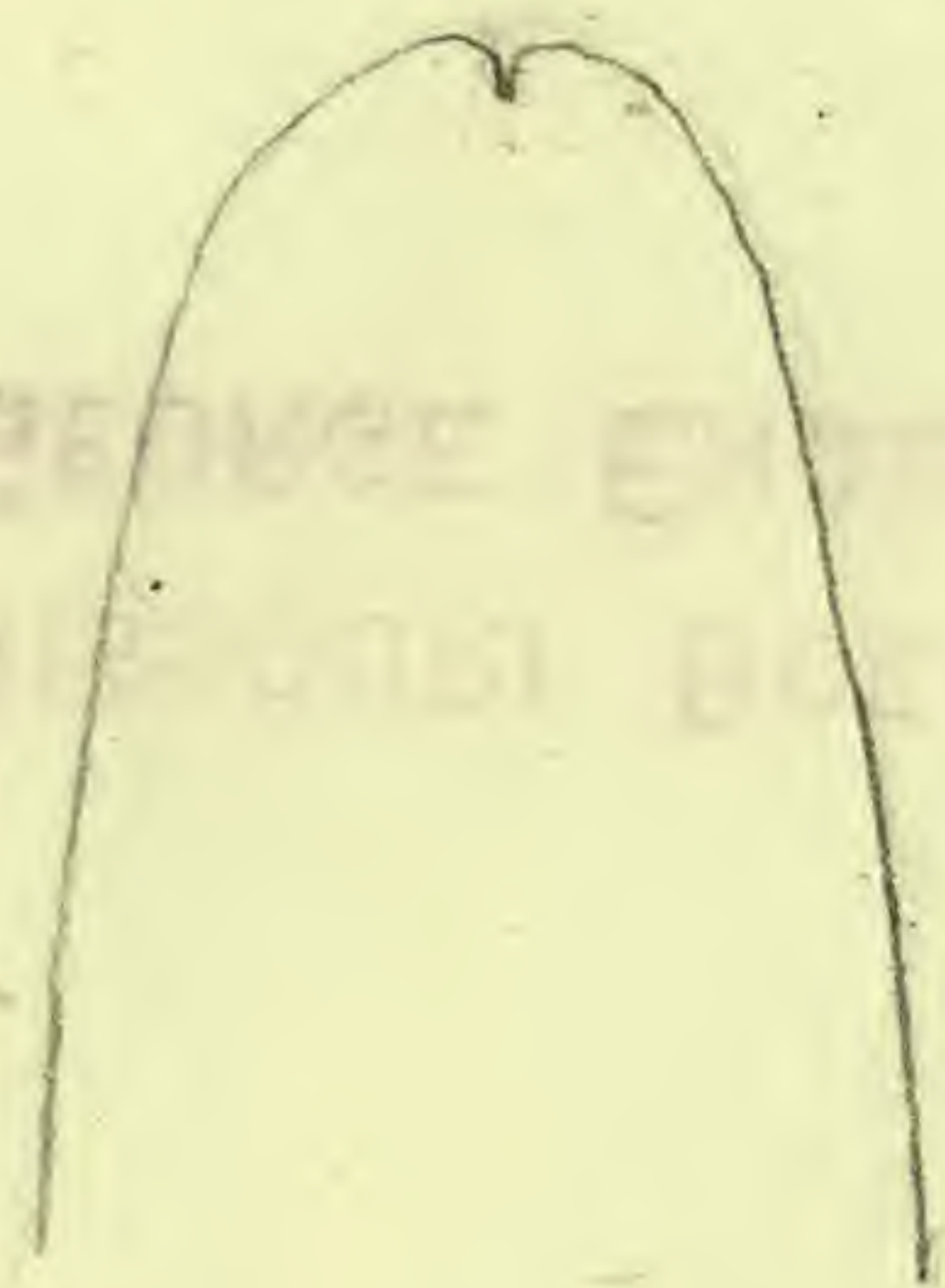
*Alnus pectinata*

April 18 1872

Baden Baden 1868

x10

no stomata on upper side



tip of leaf



section near tip



middle



near base

HERBARIUM OF THE  
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1845  
18  
1845

13084

Leitch & Corlies

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*Abis putronata*

Oct 7 1875

Germany

no stomata

x 30



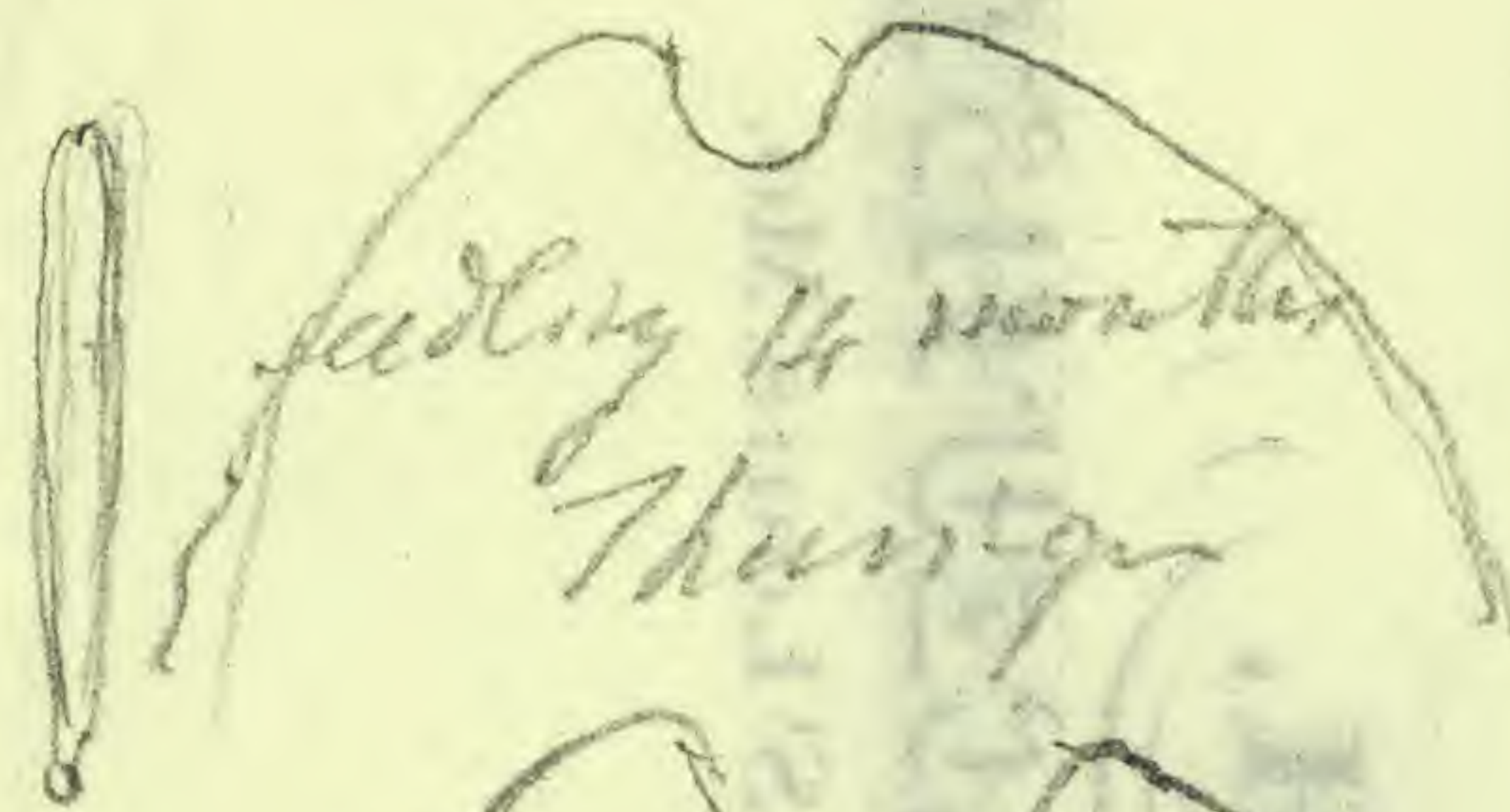
2 white bands already distinct  
only trace of ducts

no stant

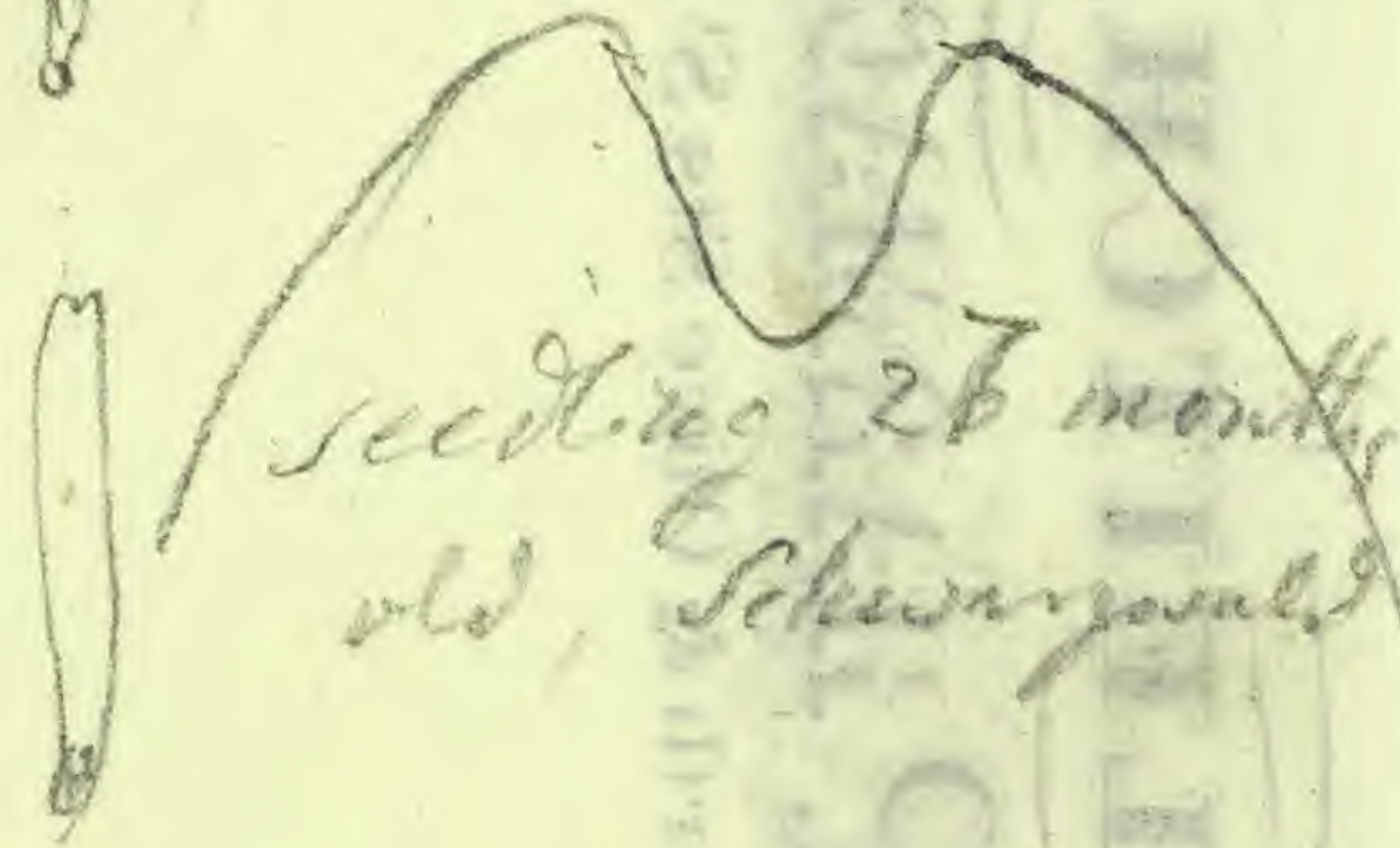


only trace of ducts

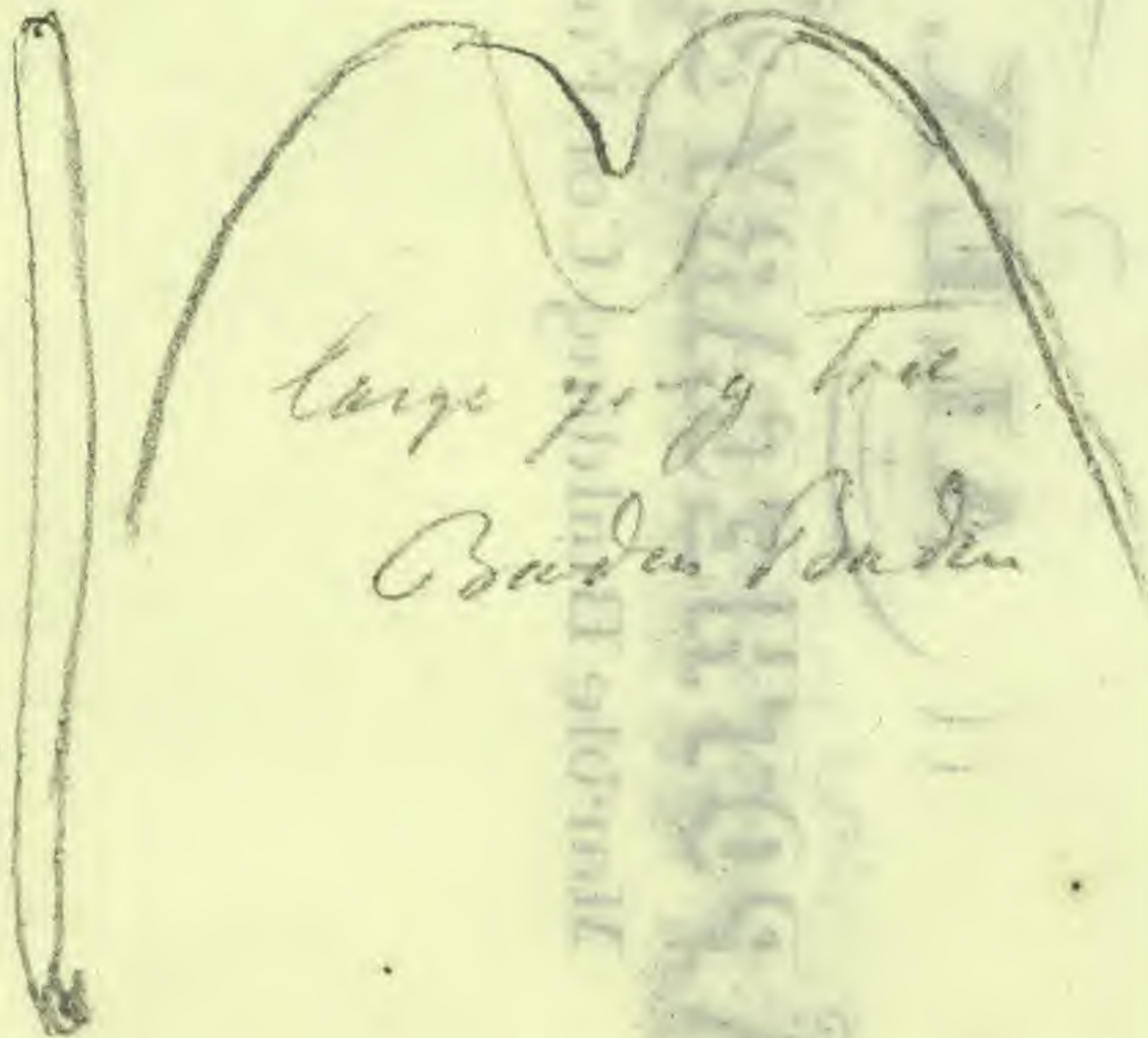
no stomata



feeding 14 months  
Thuringia



seedling 26 months  
old, Schwyzwald



large young tree  
Baden Baden



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*Abies pectinata*

Thuringia - 1869 July 2<sup>d</sup> 74

$$\frac{40-42}{280}$$

= 0.14 - 0.15 mm

Pollen

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V. C. HUBBARD



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**D**ruggist & **H**pothecary

*508 Leffingwell Avenue,*

**R. C. HARRISON,**

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Christ

*Abies pectinata* (now named by some *A. alba*)  
only on fertile branches acutish or acute leaved  
but some south european forms have  
all the leaves thin! more or less.

*A. apollinis*,

*A. Regis-Australis*

*A. Pinsapo*

*A. Cephalonica*

and must be considered climatic varieties



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DINGELSTEDT & CO.  
Forwarding & Custom House  
AGENCY.

OFFICE, 27 WILLIAM ST.,

New York, *Apr 5* 1876

Established 1852.

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*H. G. Engelmann*  
*3003 Locust St*

*Dear Sir,* *St Louis Mo*

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The package arrived in good  
order, and was shipped to Haage & Schmidt  
by the *St. Cimbric* sailing tomorrow



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*Alnus pertinax*

Oct 25 77

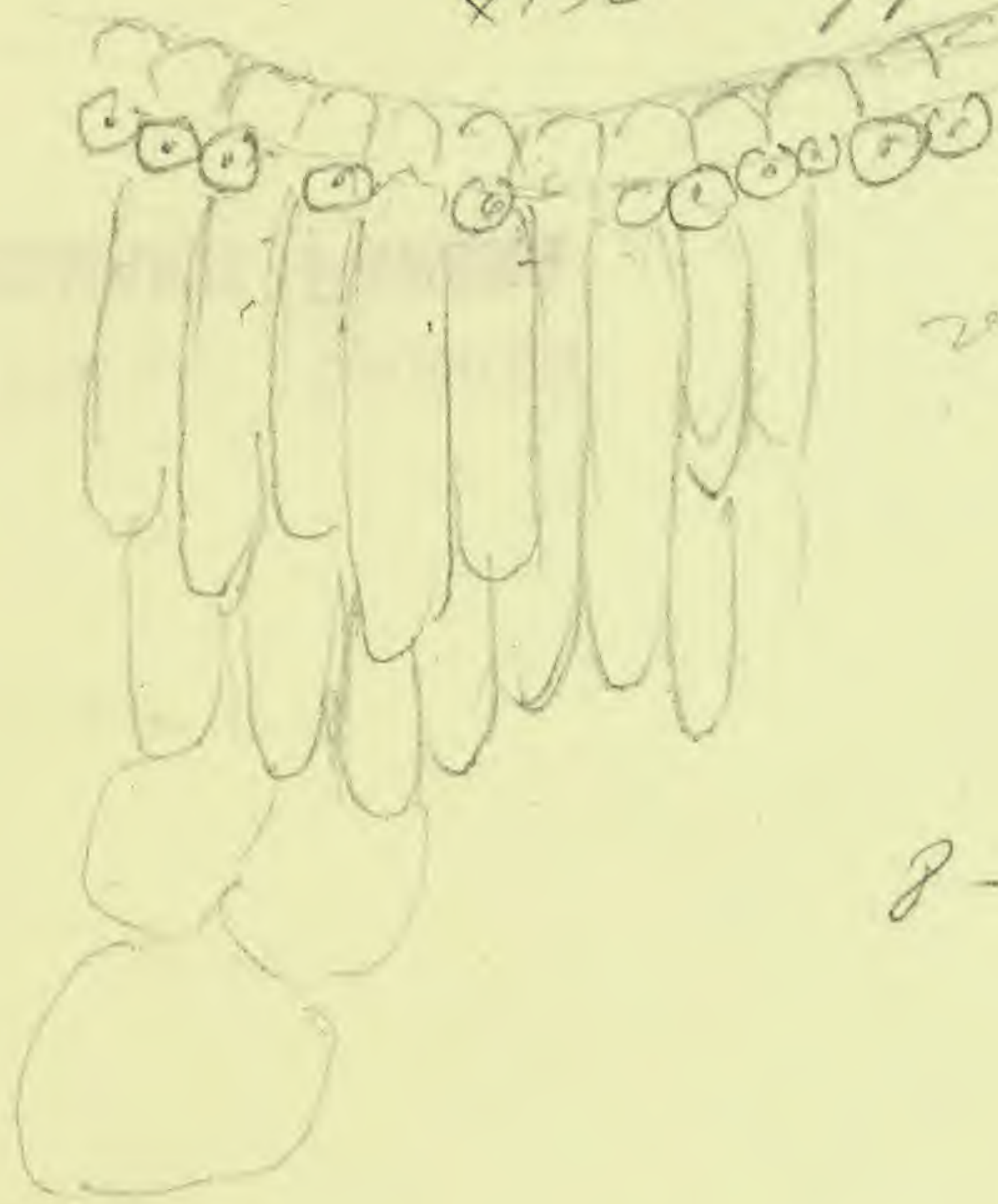
Missouri Bot garden

x150

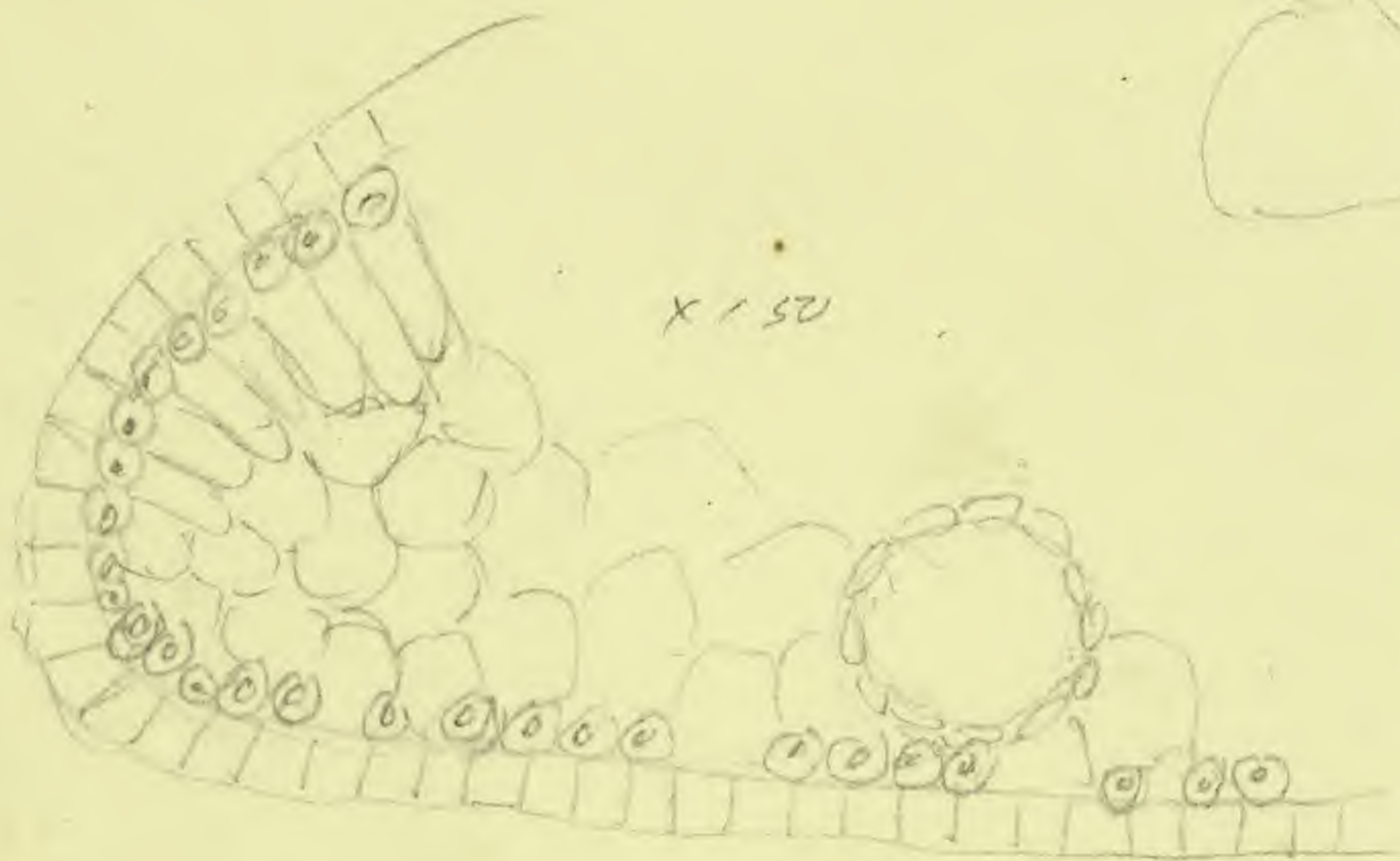
upper groove



x150 Kell



very large dark green  
palisade cells



x150

8-10 series of stomata  
each band

Ph

Mo

Mo

ST. LOUIS, MO.

NO. 3101

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HERBARIUM

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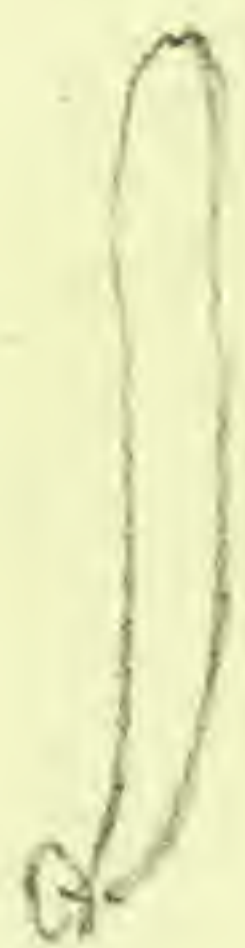
*Abies pectinata*

Oct 8 1875

Thuringia May 1869

x30

line of stomata towards tip



leaves of male branch

scattered stomata



leaves of female branch

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wrongly:

"Pinus Pinsapo"

Octob 4 1870

Hort Bot Neapol 1868, Decemb



30: 20 mm

This is  
= *P. pectinata*

scale of young cone of Hort bot Neapol  
May 1868

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IMPERIAL ACADEMY OF SCIENCES  
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ALONG WITH HIS SUCCESSOR IN TORINO



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*Handwritten notes at the top of the page, including "1870" and "Missouri Botanical Garden".*

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*Abies Pinsapo*

Oct 7 1870

*hispanica*



very young Cone, Spain, Bourgenca 451



female cone soon after flowering,  
Spain, Boissier

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ВЪОТНЕСАВЪ Ѣ БНАВНУОТНЕСАВЪ  
УТЪЕ ГЕЛЪСН  
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1870



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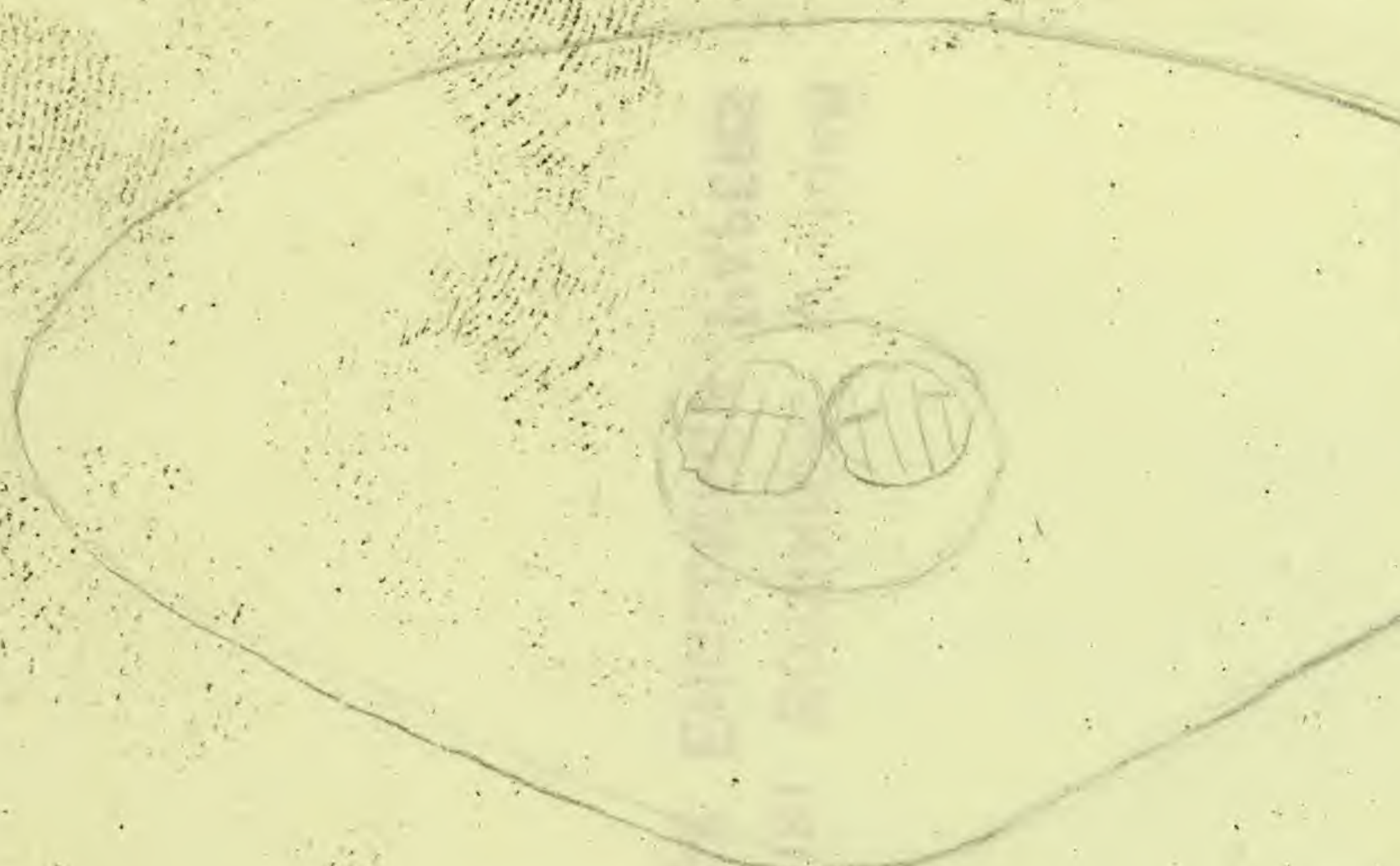


Abies Picea

April 14 1871

H. Bot. Mus. April 12

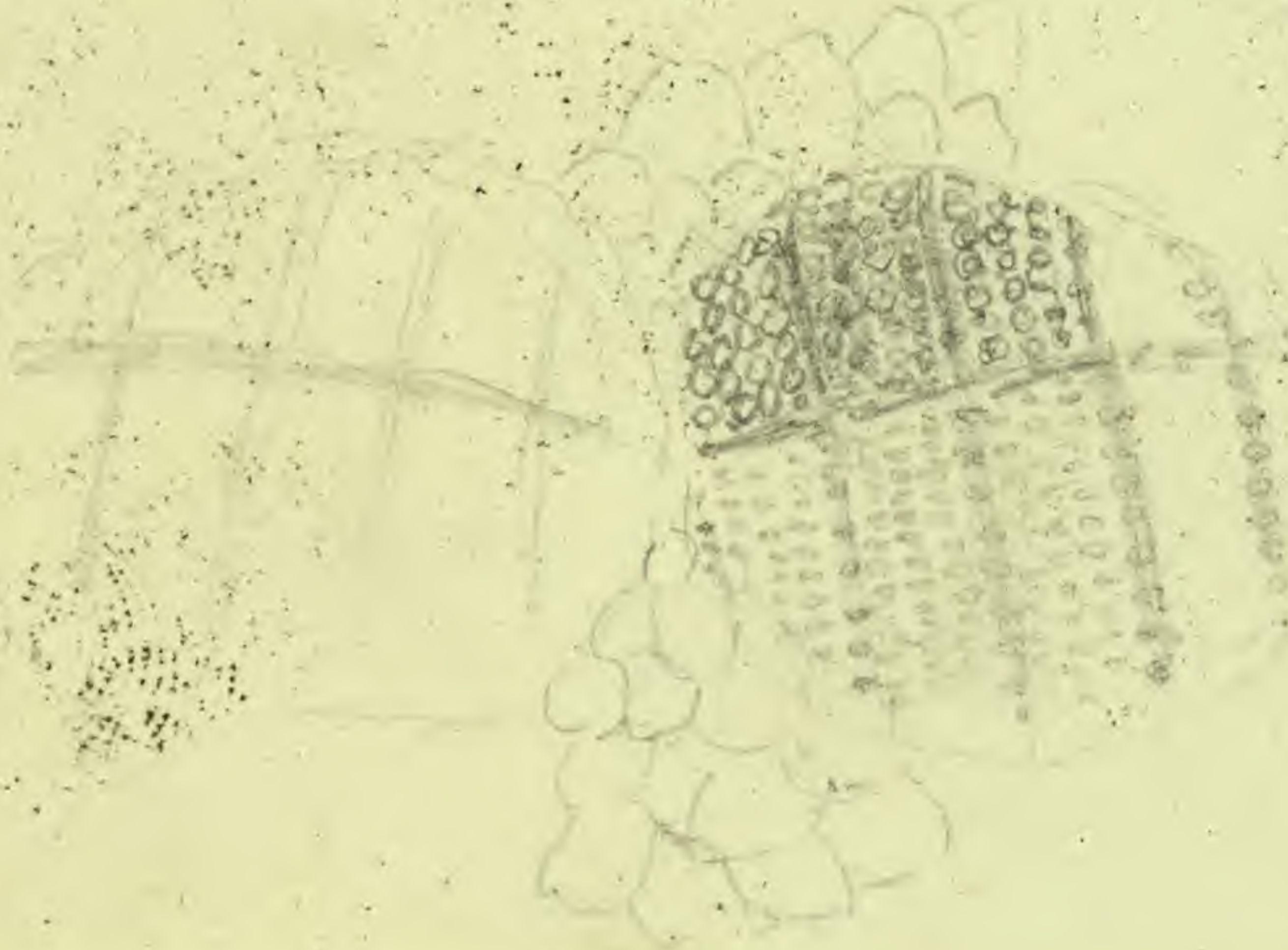
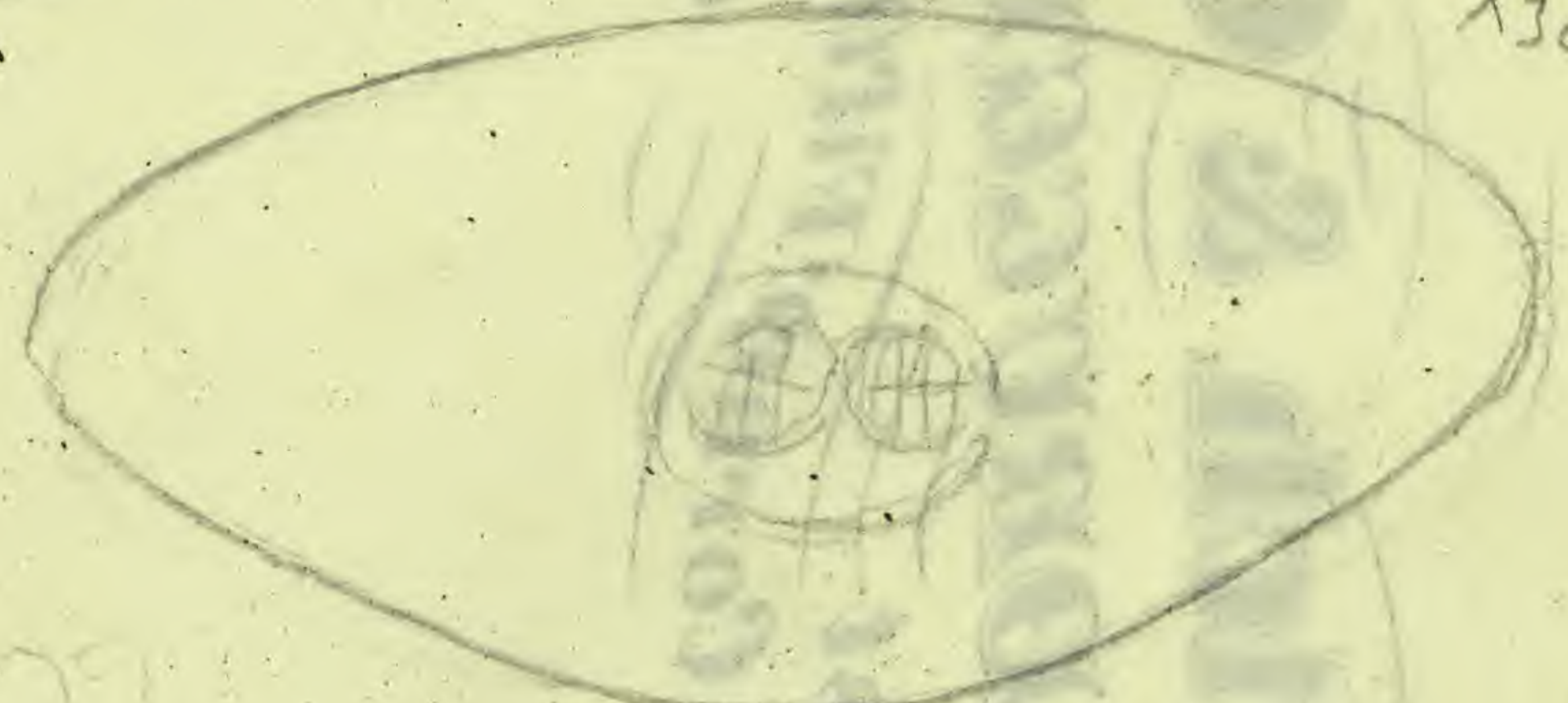
x 30



sect of diffr  
leaf

x 30

x 30



x 150



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Leitch & Corlies

DRUGGISTS

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*Abies Apollinis*

Octob 5 1890



incomplete scale, (near base of cone?)  
very convex

26: 14 = 3 <sup>3</sup>/<sub>4</sub> 2



immature  
or undeveloped

ГЕОГРАФИЧЕСКОЕ И БИОГЕОГРАФИЧЕСКОЕ  
ОБЩЕСТВО ИМПЕРАТОРА  
АЛЕКСАНДРА II  
1893



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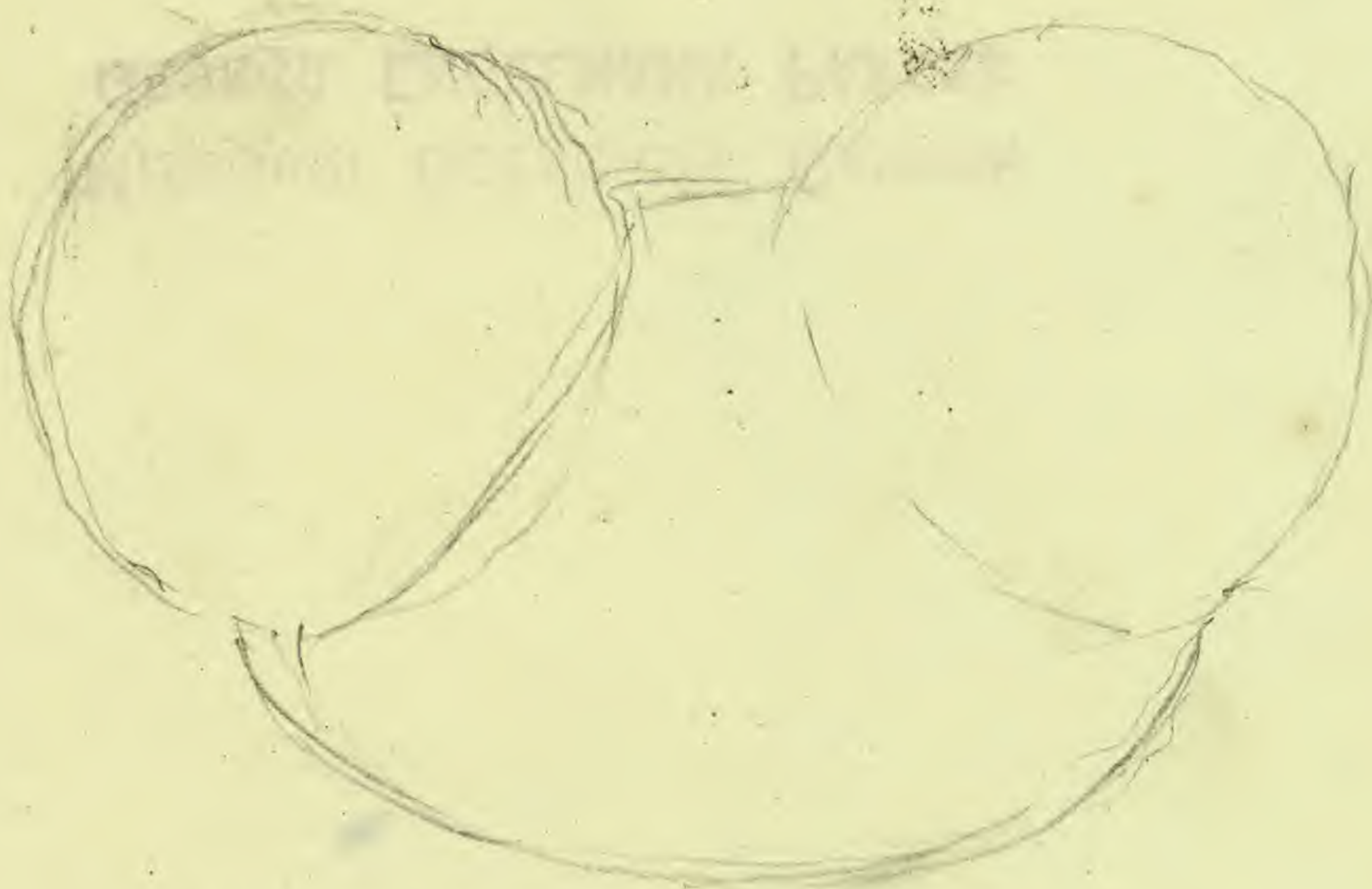
*Abies Apollinis* July 7 1865  
Attica, Hildreich Herb. Grac. no. 604. (ex Hb. Casson)

1101

small  
ament  
nut size



5 lines  
9-10 mm long  
without stipe



$$\frac{26 - 29.6}{415} = 0.063 - 0.072 \text{ lin}$$

$$\frac{55 - 62}{415} = 0.132 - 0.149$$



center x 10



0 1 2 3 4 5 6 7 8 9 10

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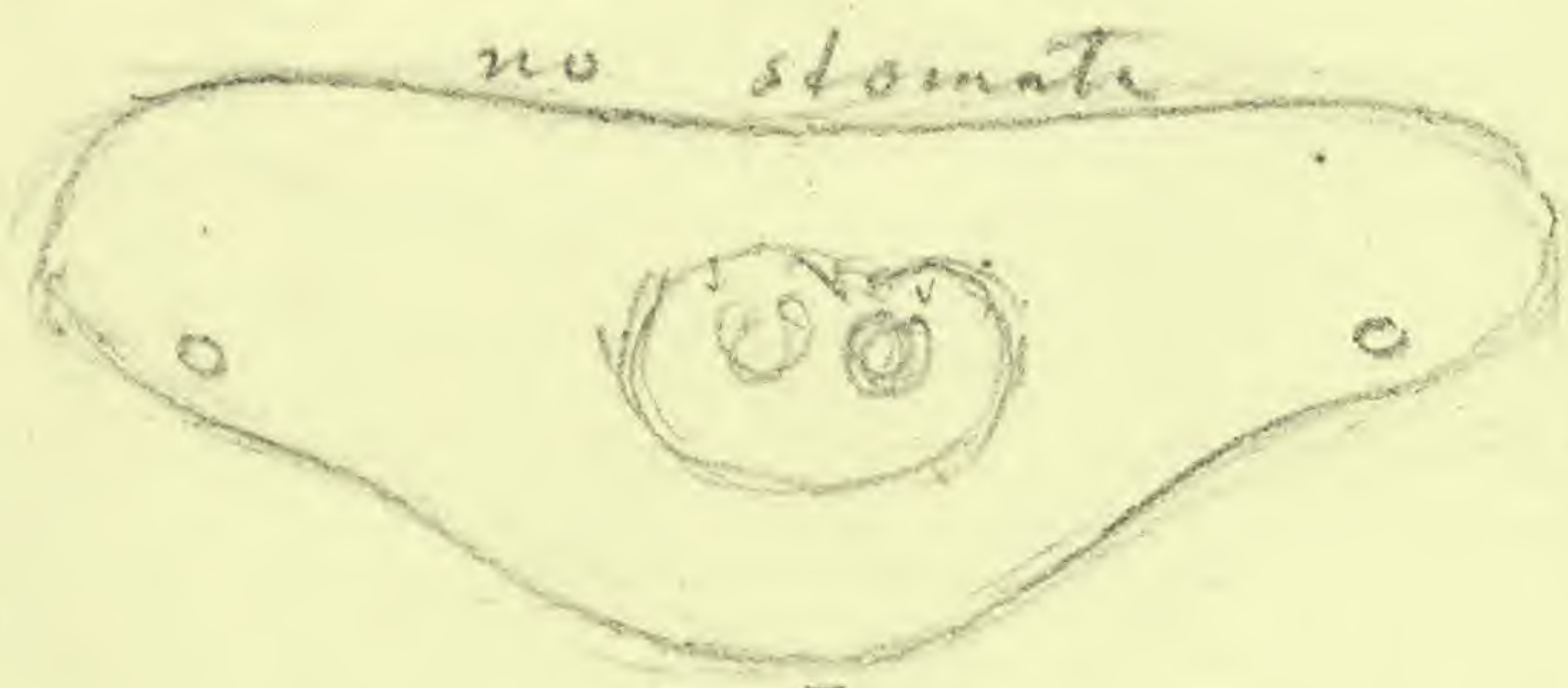


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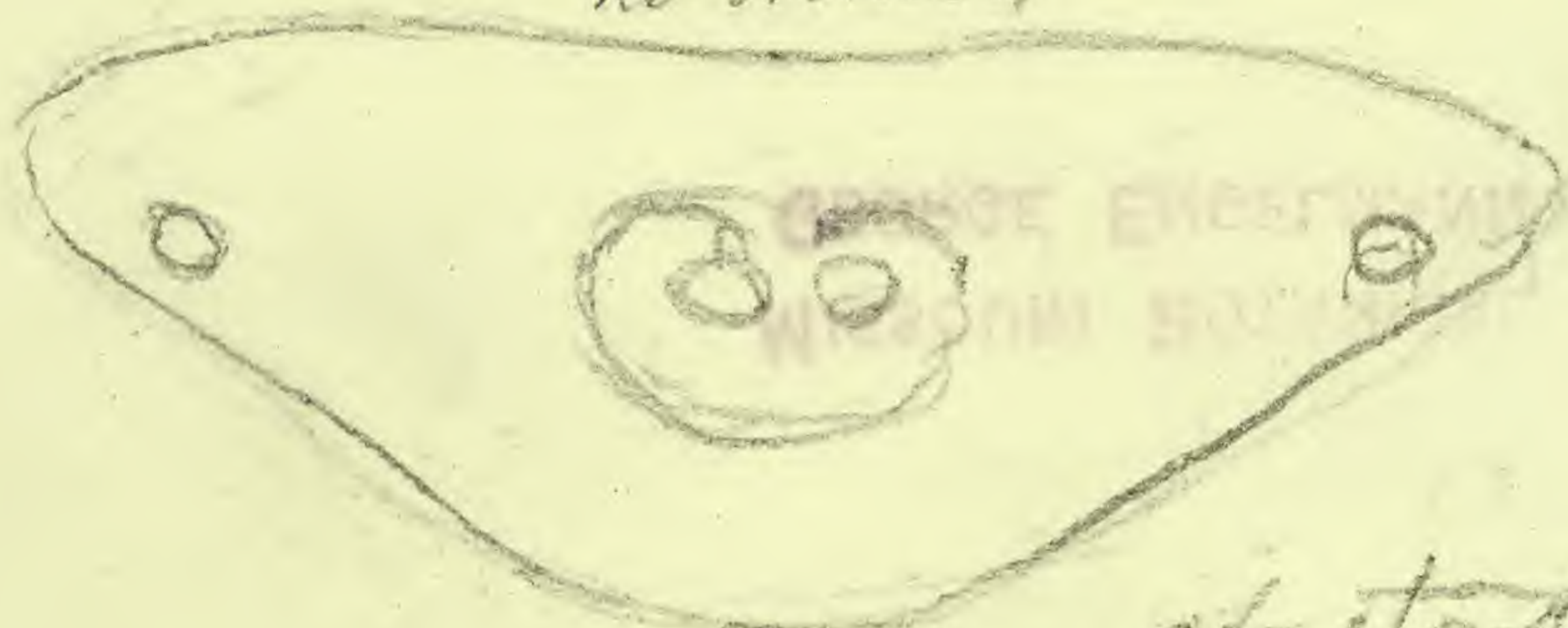


*Abies Cephalonia Loud.*

Octob 6 1875



no stomate



band

of stoma



cross with stomate



ducts very small but distinct  
in mesophyll.

x30

Dropmore Park 1869

Villa Demidoff 1868  
Florence

Male branch

↑  
Heldreich  
Cephalonia

1861

leaf of fertile branchlet

↑



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*Albizia Regiacea* Amalindae

July 6 1865

Arundia Grove 26 April 1861 (Herb Cass.)  
Heldreth, Herb. Grac. normal 203.

||

Pollen  $\times 415$

not well soaked, unripe.

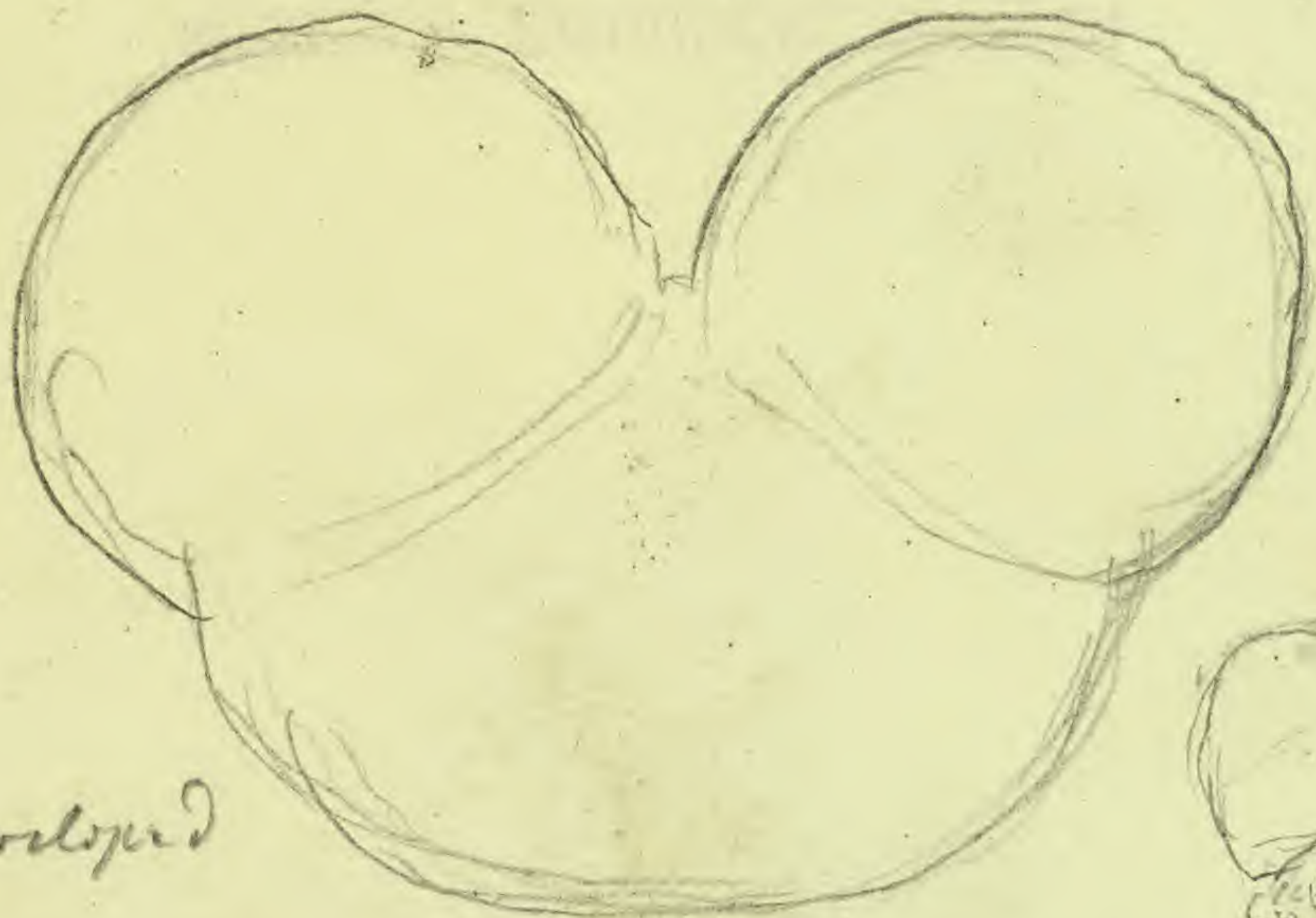
0.062 - 0.066  $\mu$ m



male anther  
nat. size

9-10 lines long  
20 mm long

stipe not yet developed



$\frac{57.5 - 58}{415}$

= 0.032 - 0.140

$\mu$ m



anther  $\times 10$



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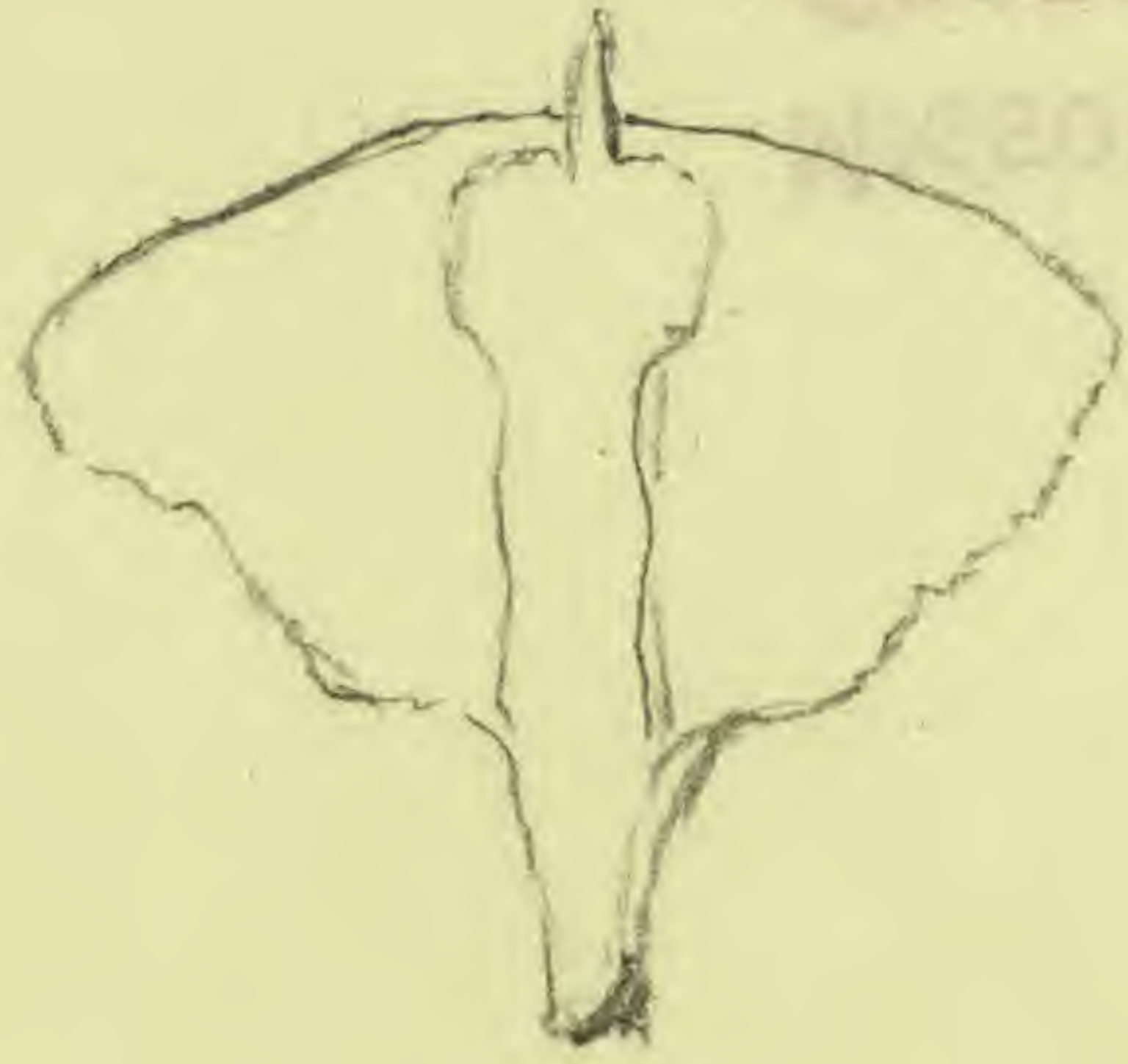


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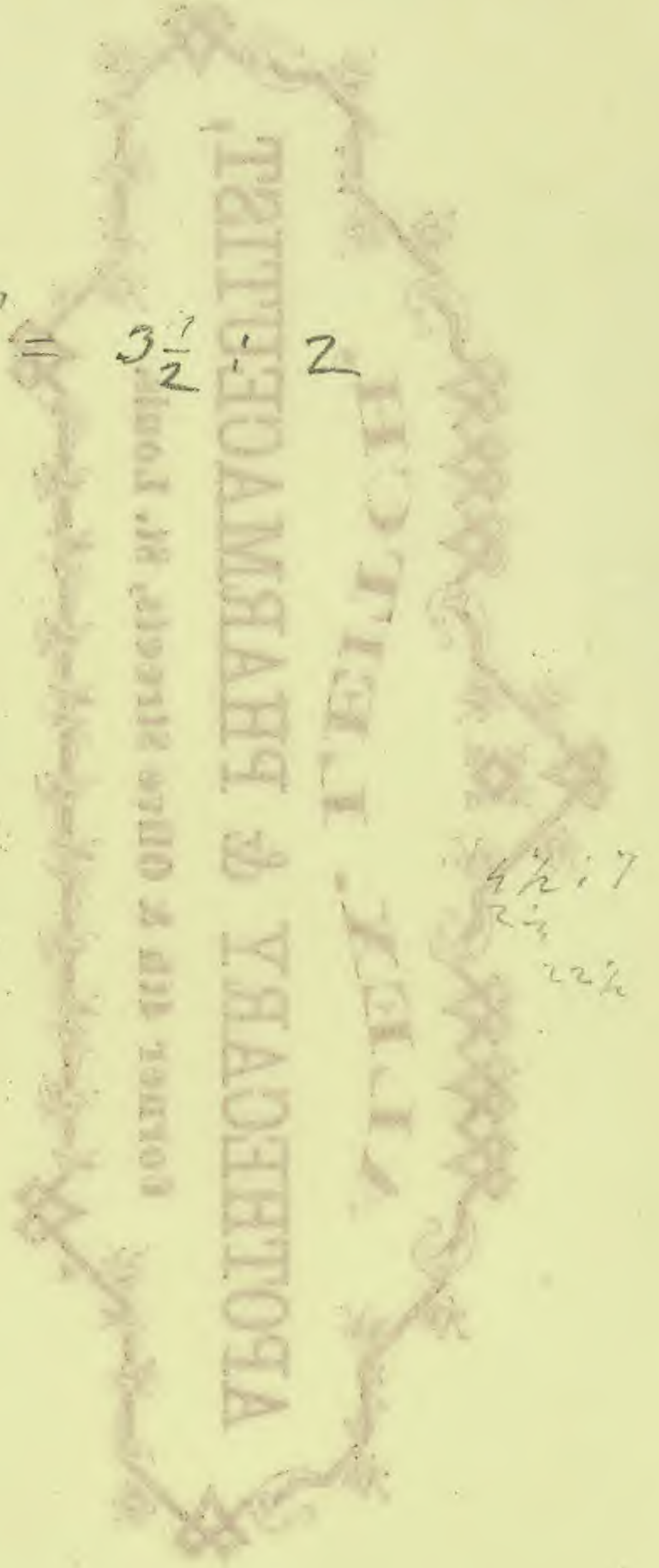


*Abies Reginae Amaliae*

Octob 5<sup>th</sup> 1870



scales 27 : 15<sup>mm</sup> =  $3\frac{1}{2}$  : 2



4 1/2 : 7  
2 1/2  
2 1/2

13033



0 1 2 3 4 5 6 7 8 9 10

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