

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.

Webbiana = grandis
all leaves with only marginal ducts

Masso, Babronensis
Cibitix
Webbiana
Pindrow
Nordmanniana
Thunbergii
Reg. anal.

COLLEGE ENTRANCE EXAMINATIONS.

TEN years ago, the entrance examinations of our colleges, with two or three exceptions, were solemn farces. With profound gravity, professors and tutors listened to candidates wildly bungling in translations, demonstrating problems in geometry parrot-like, without comprehending their own words, and often flatly failing to meet the so-called *requirements* laid down in the catalogue; but the examiners passed them, some, it is true, with gentle conditions, and, with beautiful impartiality, gathered the stupid and the studious, the prepared and the unprepared, into the academic fold. The more fairly conducted examinations of Freshman year weeded out these immature and unsightly plants after a brief experience of prompting, "poneying" and shirking; but the harm of the hollow entrance ordeal had been done, a career had been entered upon, a failure in life had been made that might have been avoided at the start. These old-fashioned examinations were generally oral. The candidates were assembled in a hall in the college building on the appointed day. The professors and tutors turned out in full force, and passed from one applicant to another, putting a few questions in Latin, Greek, and mathematics, and the newly admitted were directed to present themselves to the College Treasurer. These oral examinations were feasible while a scanty number of candidates presented themselves for examination, but, within the last ten years, a desire has been growing among parents in this country to send forth their sons into the world as accurate scholars and cultivated gentlemen, and applicants are now numbered by hundreds in many of our colleges. Written examinations have therefore been generally adopted, and, Harvard taking the lead, faculties have been vying with one another in making the ordeals as severe as they were previously lax. Indeed, professors of repute have been heard to boast: "I assure you, sir, it is as difficult for a young man to obtain admission into our college, as into Harvard." And as if it were a matter highly creditable, each college publishes a long list of those who failed entirely, those who were conditioned, and those who "got through."

In the President's Annual Report of Harvard for the year



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women between twenty and forty years of age, twenty-three per cent. in Scotland, and nine per cent. in Ireland. The latest published statistics place the excess of women in Sweden at 6.3 per cent.; Norway, 4.2; German Confederation, 2.3; Holland, 1.8; Spain, 1.5; France, 1.5; Denmark, 0.8; Prussia, 0.7. The census of 1860 gives an excess of about 5 per cent. in the United States. In England and Wales there are 513,000 more women than men.

A writer in the *North British Review* not long ago asserted that there were then 1,537,000 unmarried women in these two countries. "England," he added, "has always been the country of old maids—it is becoming so more and more." This is due to the increased luxury of the age. While four or five per cent. of English women may prefer celibacy from taste or tem-

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13056

Also

our divergence from a thoroughly natural, sound, social condition."

The women are to blame, but men are incomparably more so; for it is they who do or might give the tone on all social matters. Thousands of women would prefer love to splendor—a bare competence, or even struggling poverty with marriage to the most luxurious life without—if men had the courage to offer them the choice. The latter, however, prefer a vicious and heartless youth, and a joyless and loveless old age, because they have no nerve to work, and no fortitude to forego. This is strong language, but we fear it is warranted by the facts not only in England, but perhaps the United States.

We have not yet learned the fate of the Tennessee bill, imposing a tax upon bachelors. Its enactment into a law certainly could produce no harm, and might result in considerable good were the tax levied increased ten or twenty fold. If every marriageable man was compelled to annually pay into the general fund a sufficient sum to maintain a marriageable woman, there would very soon be less talk about the American stock running out. We merely make the suggestion for the benefit of our State Legislators.

St. Ives



0 1 2 3 4 5 6 7 8 9 10

cm

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Brachyopanax

Abies firma S. Z.

Oct 7 1870

both specimens have part
of the leaves deeply bifid

Nippon, Maximowicz 1864 - Hb Kew

seems to be the typical form

scale 27-28; 16-17 mm

= 3 1/2; 2



31; 17 mm

= 3 3/4; 2

Yokohama

Maximowicz 1862

- Hb Casson



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cm

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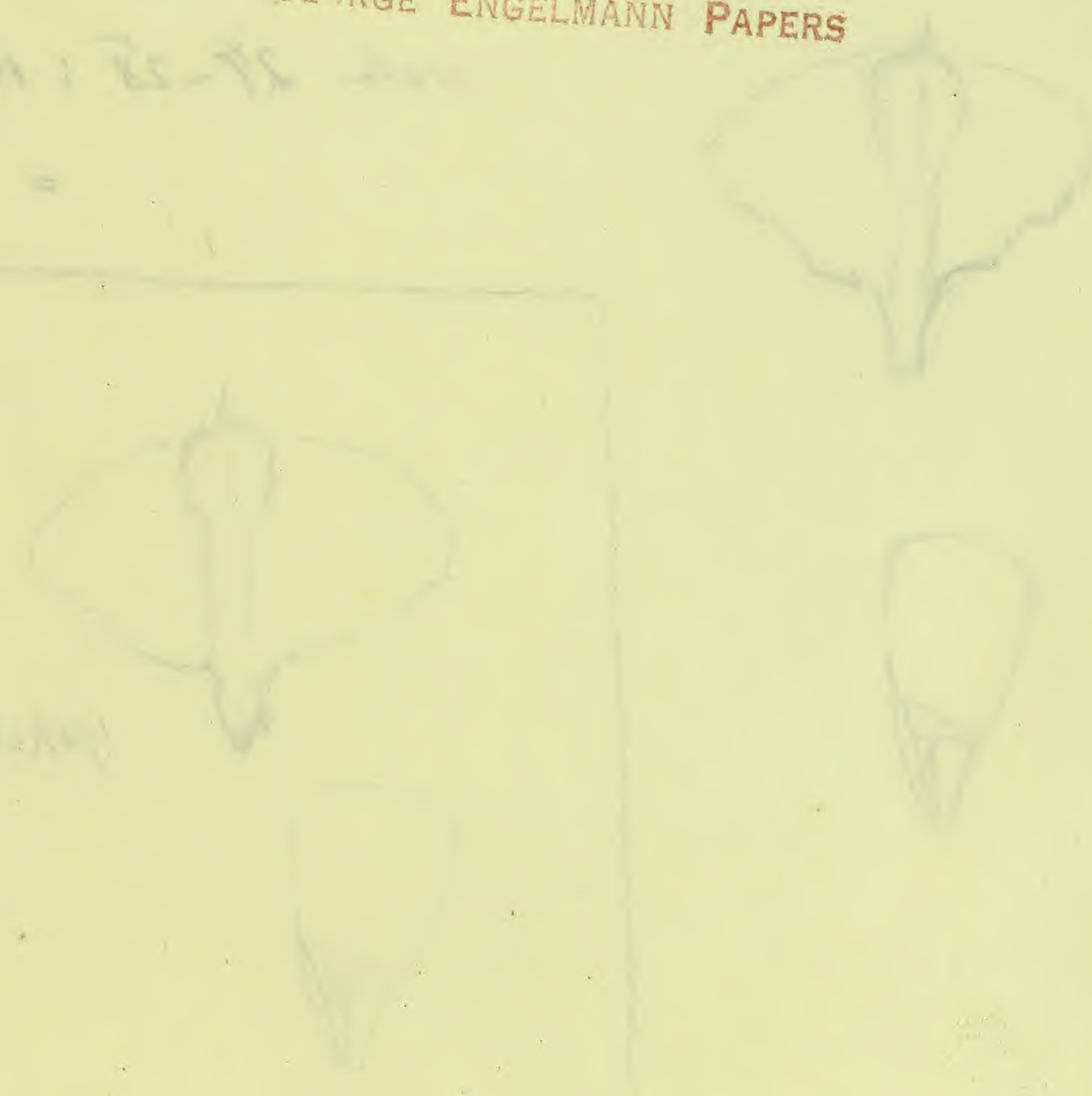


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18057

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Abies firma Sieb & Zucc Oct 7 1870
Nagasaki, Oshima 9/62 HB Kaw



Scale 30 ÷ 17 ¹⁴¹⁴

Scale with very thin waxy
upper margin

= 3 1/2 : 2

Distinct by shorter base
& broader wing of seed



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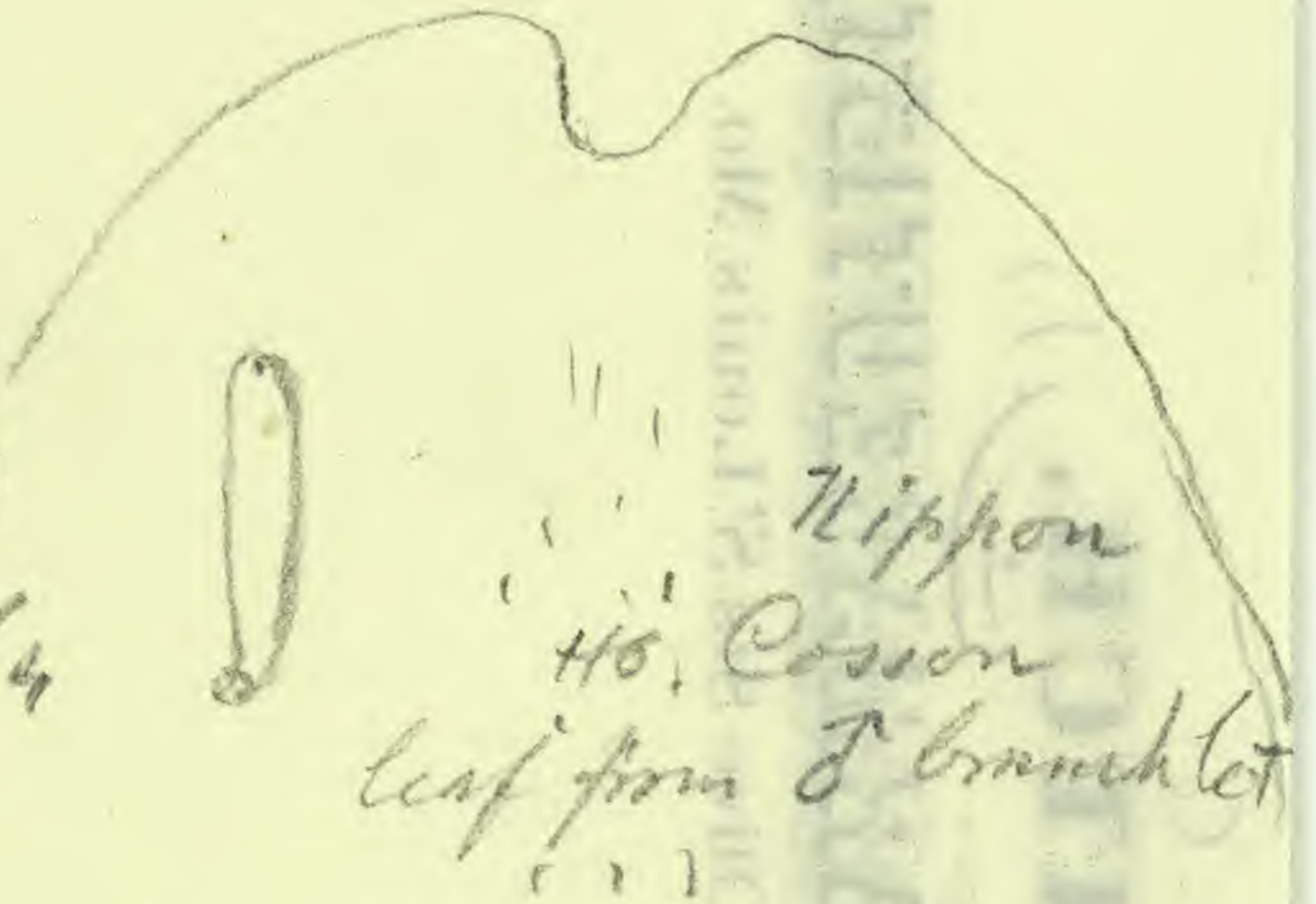
Abies firma S. Z.

Oct 9 1875

some stomata



Tschonoski 1864



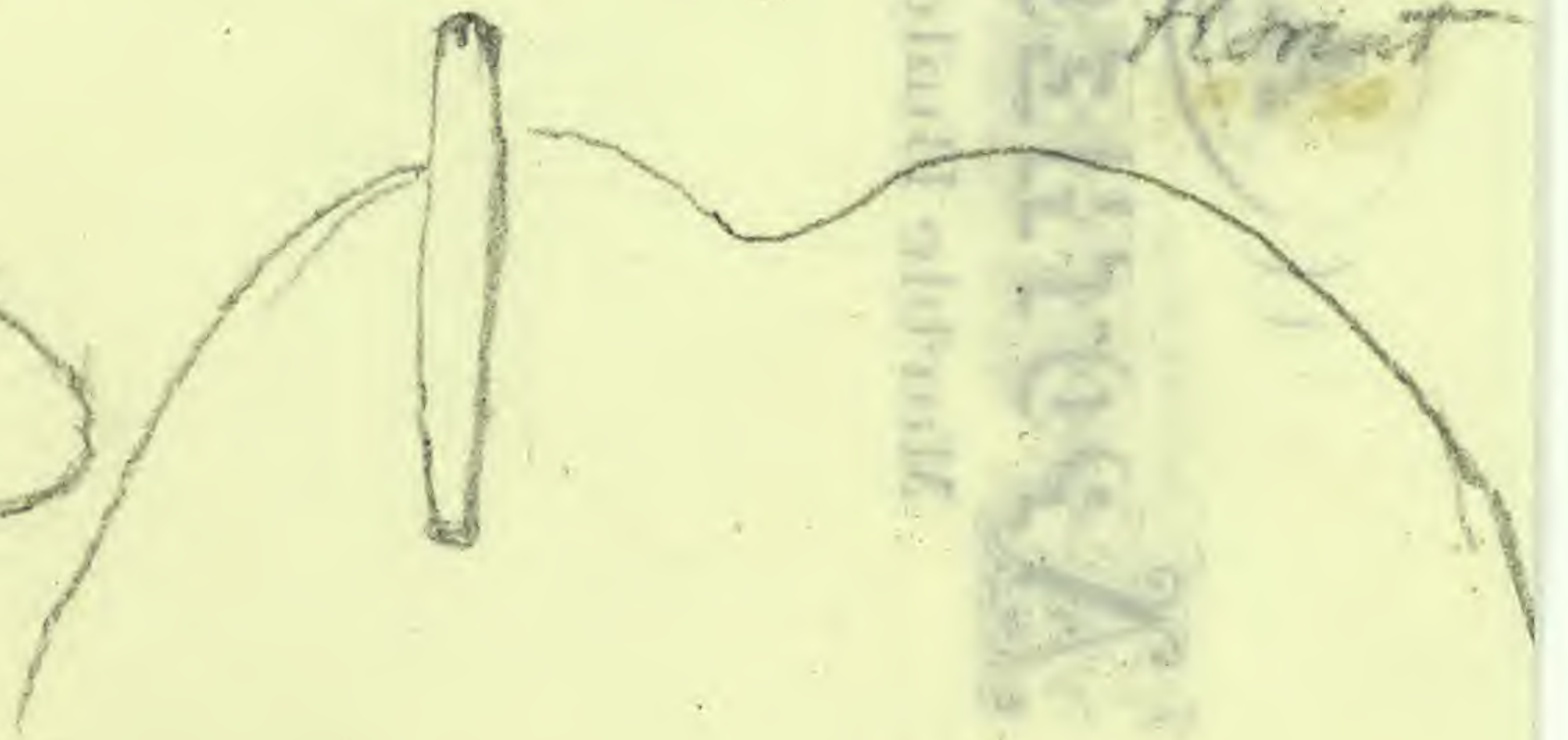
Hippon
Hb. Cosson
leaf from ♂ branchlet

no stomata



Dapon
Veitch in Hb.
Florat

no stomata



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Abies bifida = *firma*
yokohama 1862 Maximowicz = Hb. Collon

Oct 6 9 1875

x30

no stomata



Aldham, Nagasaki, cult., 1862

section

similar to lower one
but no accessory ducts

few stomata towards tip



aa principal ducts

bb accessory ducts?

no ducts, rather strong fibres = hypodermis

Oct 1877



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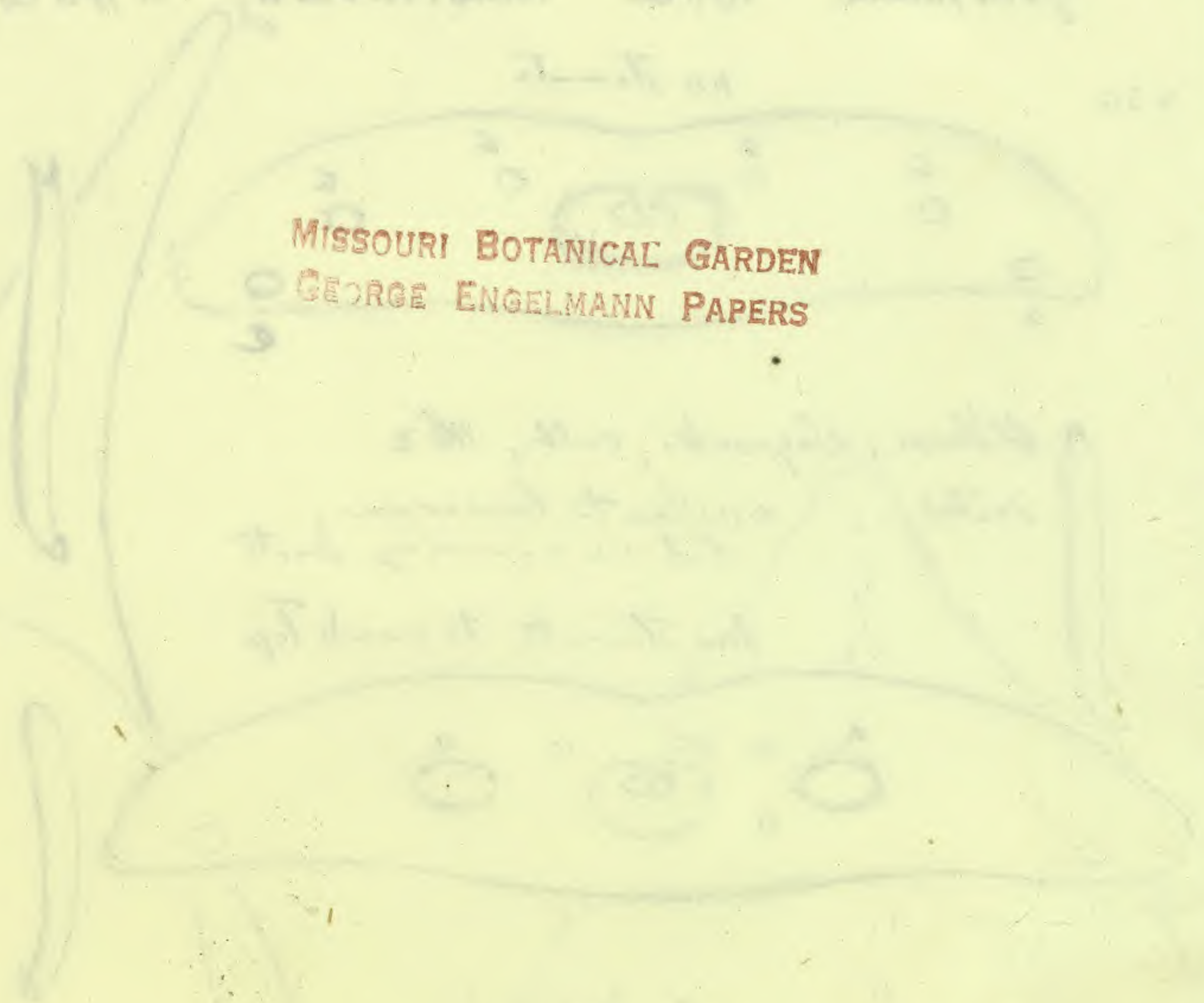
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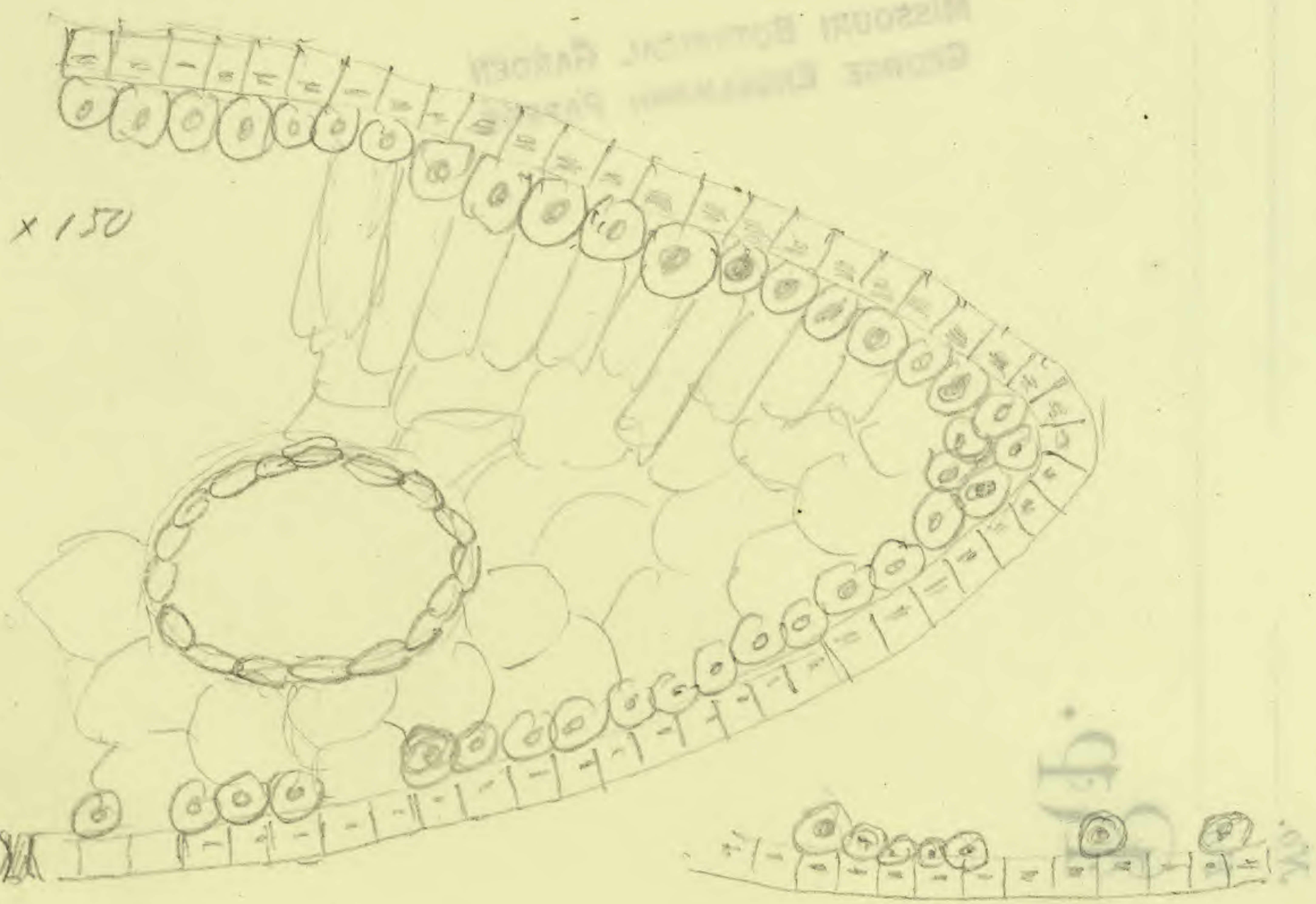
Abies firma

Hort Hoopes Sept 1876

Oct 25 77

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x 150

Keel



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—
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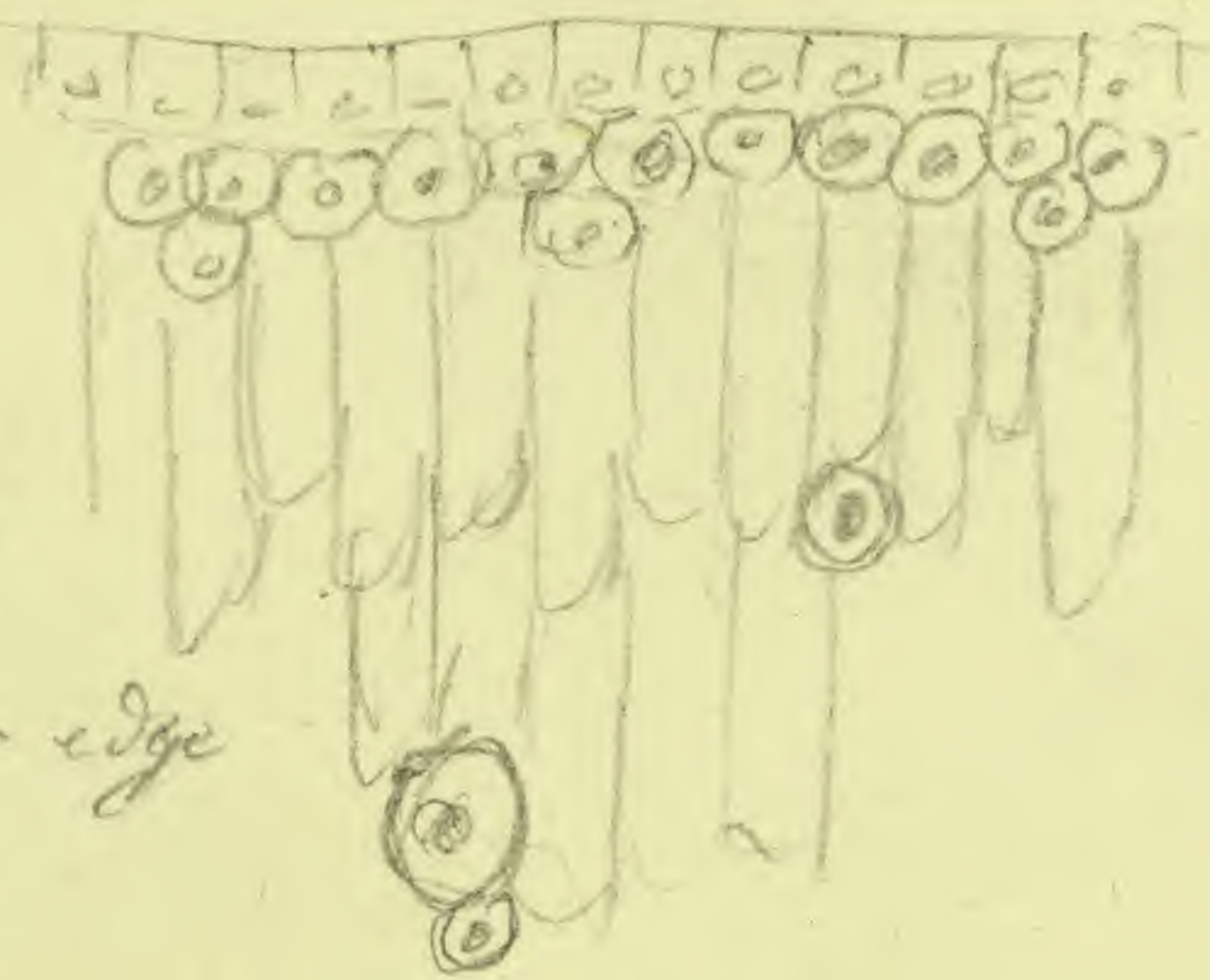
Abies firma
Hob Hoopns Sept 1876

Oct 25 77

x 30



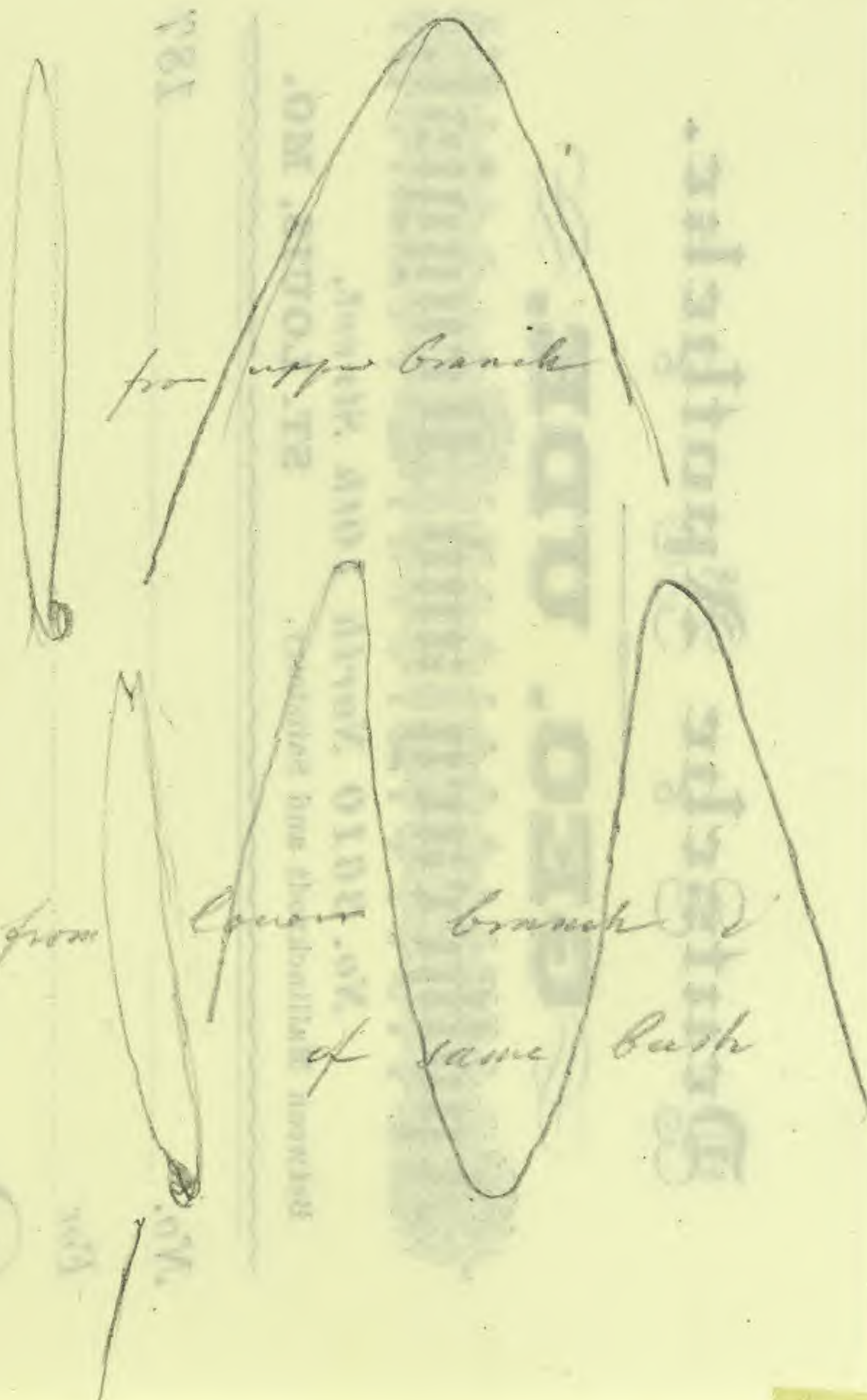
many irregular pseudo-past cells in parenchyma
and some often within sheath of vessels



x 150

upper edge

ducts near the
epidermis, but
separated by
a few cells



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Adiantum firma

July 1 1874

Pollen

ex Hb Hook.

35 - 38

280

= 0.12 - 0.14 mm

ex Hb Conon

0.13 - 0.14 mm

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W. C. CRESSON



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[Faint handwritten notes and numbers]

250	320.
280	280
700	100

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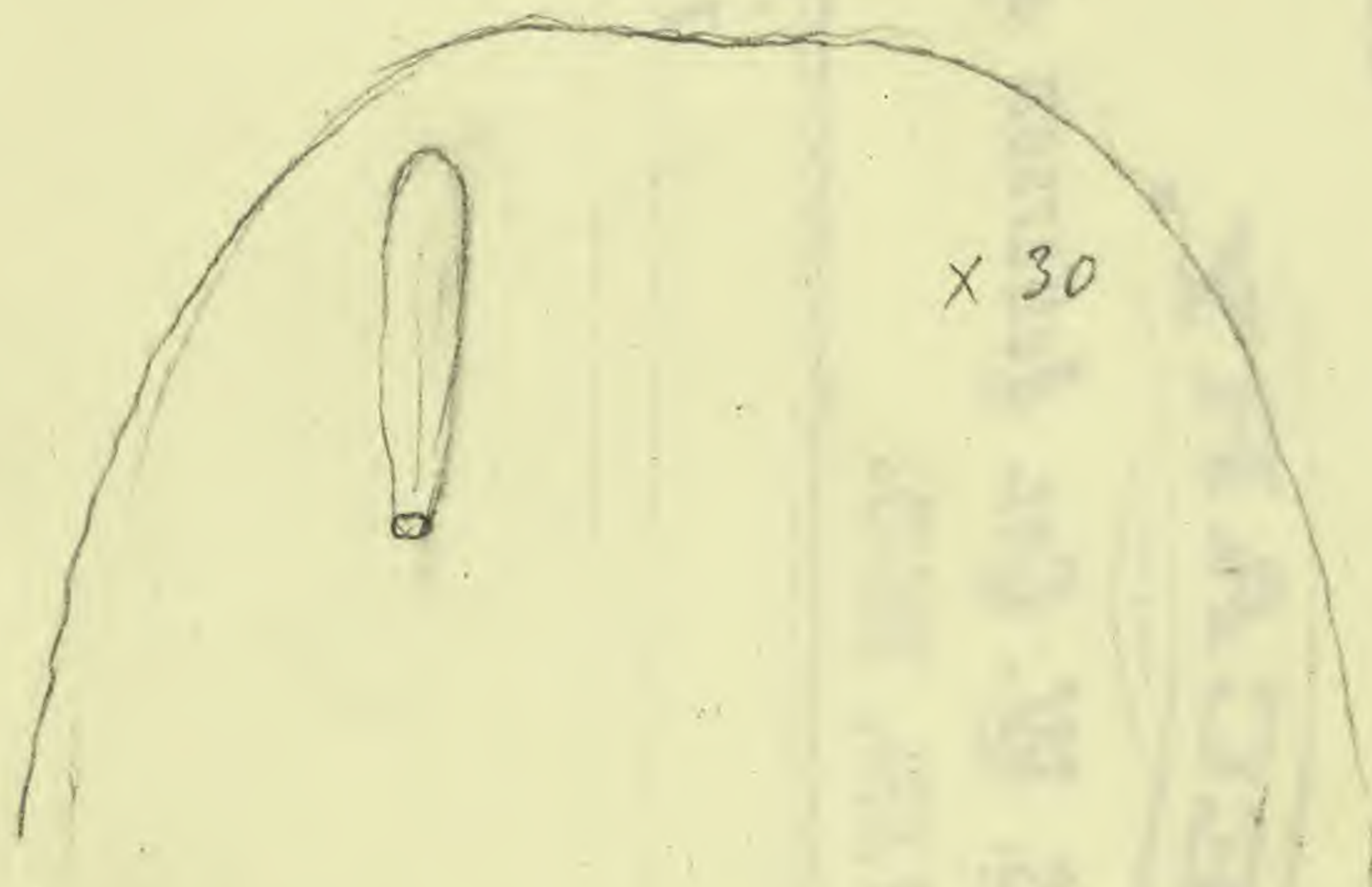
Abies

from Japan,

Sargent mis.

a few leaves

April 15 1878



about 3 bands of stomata
 in each band below
 few stomata in groove above
 towards tip

pseudobull cells within the leaf larger
 below the epidermis very small

only two leaves
 sent but
 very little doubt
 that it is ferma



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HENRY T. ROHLFINS,

APOTHECARY,

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No. Date, 187

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A. Pilsapo genuina

Editorial.

483

assist them in the practice of their profession, and not *drug-venders*. It is the personal interest of every physician, that the person employed in compounding his prescriptions be well qualified; and it is the general interest of the medical profession, that pharmacentists also recognize themselves members of a scientific body, the only access to which is a certain measure of education. Among us, the standard assuredly is so low as to debar no one at all fitted for the apothecary's duties. When we consider how much skill and information is required of a candidate in Great Britain and on the continent of Europe, before he is admitted to the practice of pharmacy, we feel it a sad and humiliating thing that it is *necessary* to urge the medical profession in this country to interest themselves in schools of pharmacy by lending them their influence and countenance.

It is scarcely called for to address the same remarks to our druggists and apothecaries generally; for if physicians will but do their duty in this particular, the former will soon find it in their own interest to employ only such persons as possess the requisite amount of education in their art, the measure and the evidence of which will be a diploma of some college of pharmacy.

St. Louis Medical College.—We are requested to call the attention of students to the course of clinical instruction in this institution. During the month of September, Clinical Lectures will be delivered in all the hospitals connected with the College, viz.: the St. Louis (or Sisters'), the City, and the Marine Hospitals, at 11 A. M. daily, by Profs. HODGKIN.

NOV
'80



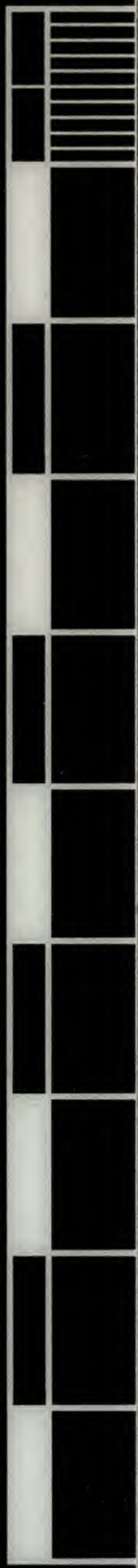
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Editorial.

Erratum.—The reader will please correct the reference in the note on page 414. “Plate i, figure 2” should read “figure 11.” In the extra copies of Dr. BOISLINIERE’S article, the correction has been made.

MORTUARY STATISTICS.

Number of Deaths in the City of St. Louis, 1868.

DURING THE WEEK	MALES.		FEMALES.		Total.	STILL- BORN.*	UNDER 5 YEARS.
	6	2	2	2			
Ending June 26th	26	22	22	22	58	11	31

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Obiecta gerontogena

Ten brevissima

Manus

1868. 8vo. pamphlet.

STORER, The Present Problems in Abdominal Section; illustrated by a successful case of Double Ovariectomy. (From the *Canada Medical Journal*.) S. l. & a. 8vo. pamphlet, pp. 12.

WHITE, Dental Materia Medica. Philad.: S. S. White. 1866. 12mo.

COLES, Progressive Locomotor Ataxia. S. l. & a. 8vo. pamph., pp. 48.

METZ, The Anatomy and Histology of the Human Eye. Philadelphia: Office *Med. and Surg. Reporter*. 1868. 8vo.

DUNLAP, Ovariectomy; a paper read before the Ohio State Medical Society. Cincinnati. 1868. 8vo. pamphlet, pp. 22.

Transactions of the MEDICAL SOCIETY of the State of PENNSYLVANIA at its 19th Annual Session. (5th series, part 1.) Philad., 1868. 8vo.

MOOS, *Ueber das subjective Hören wirklicher musikalischer Töne*. (From VIRCHOW'S *Archiv*, vol. xxxix.) 8vo. pamphlet.

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Abies Pinnapo

July 1 1874

H. D. - Paris

Pollen



$$\frac{26-Ae}{280} = 0.13 - 0.14 \text{ mm}$$

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303 First Street



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12
260 600
280 282
808 1200

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Abies Poksapo
cultivated

Orth. 7 1875

covered with stomata

x 30



Ducts in the
parenchyma
but nearer the lower edge
narrower band of stomata

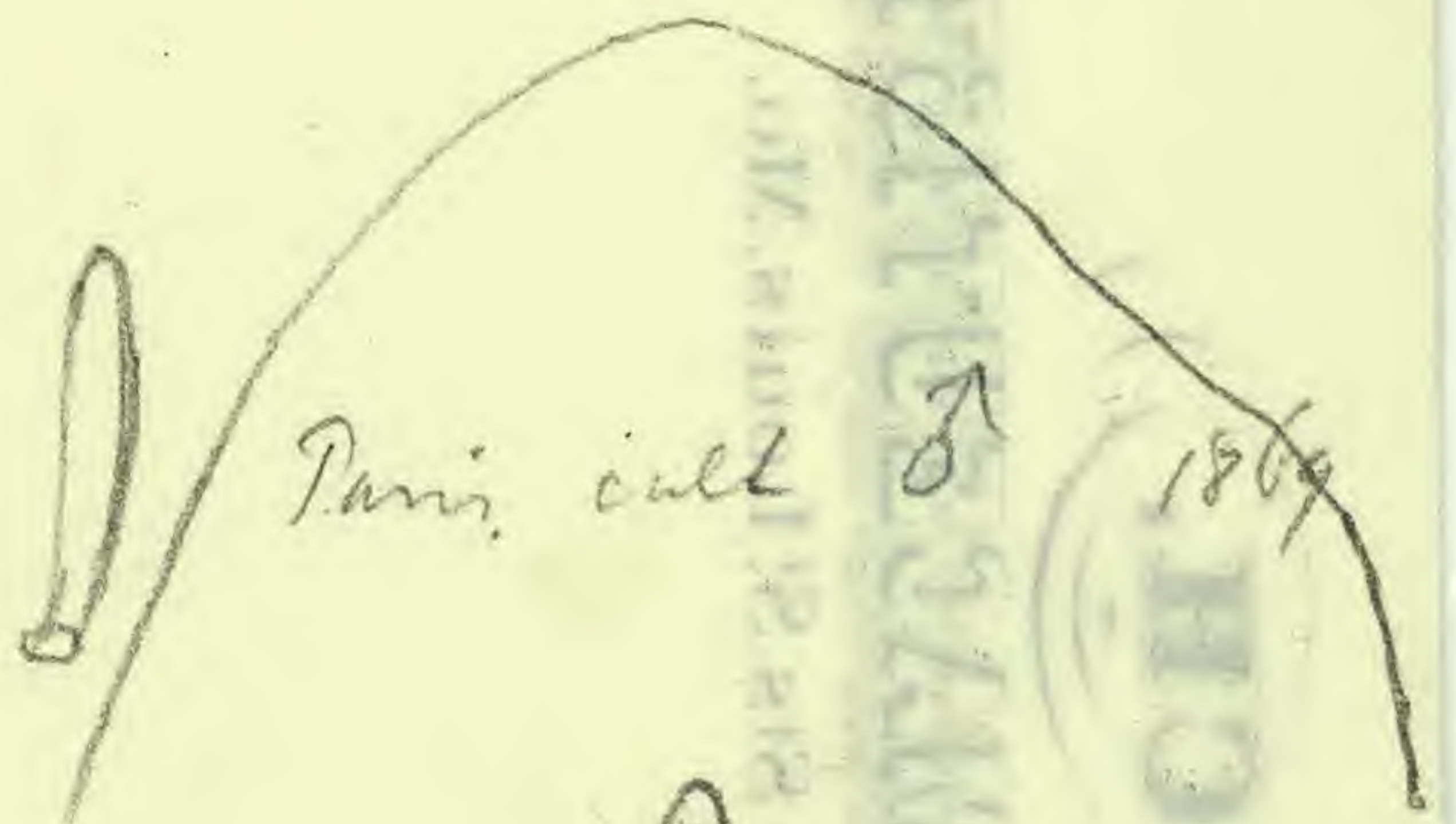


abundant stomata

ducts cortical
i.e., approach to bark



ducts in the parenchyma



Paris cult ♂ 1869



H.B. Moore 1863



Vassiani Paris ♂
cult 1869



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Abies Pinsapo

Oct 6 7. 1875

from Spain, native

covered with stomata

x 30

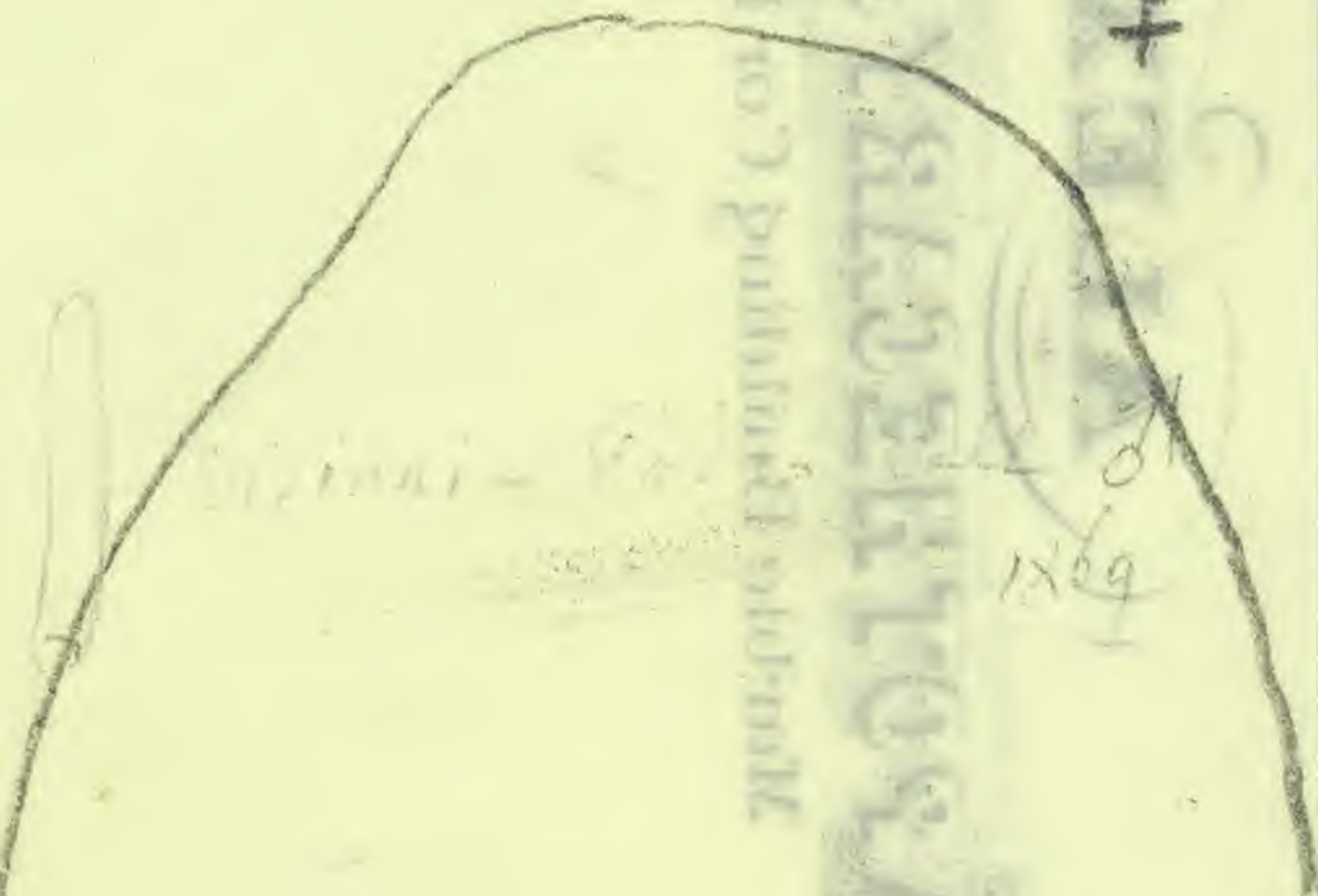


Spain Bourgeon 1849
sterile



Spain Boissier 1828
fertile branchlet

covered with stomata



In *A. Pinsapo* the
ducts are almost always in Paraclyma



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Miss Pinosapo

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Bractées ovales émarginées, 5 ou 6 fois
plus courtes que les écailles (Boissier's original
Description in *Carnière* p. 228

7. Cotyled Boiss



scale & bract
according to above description

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cm

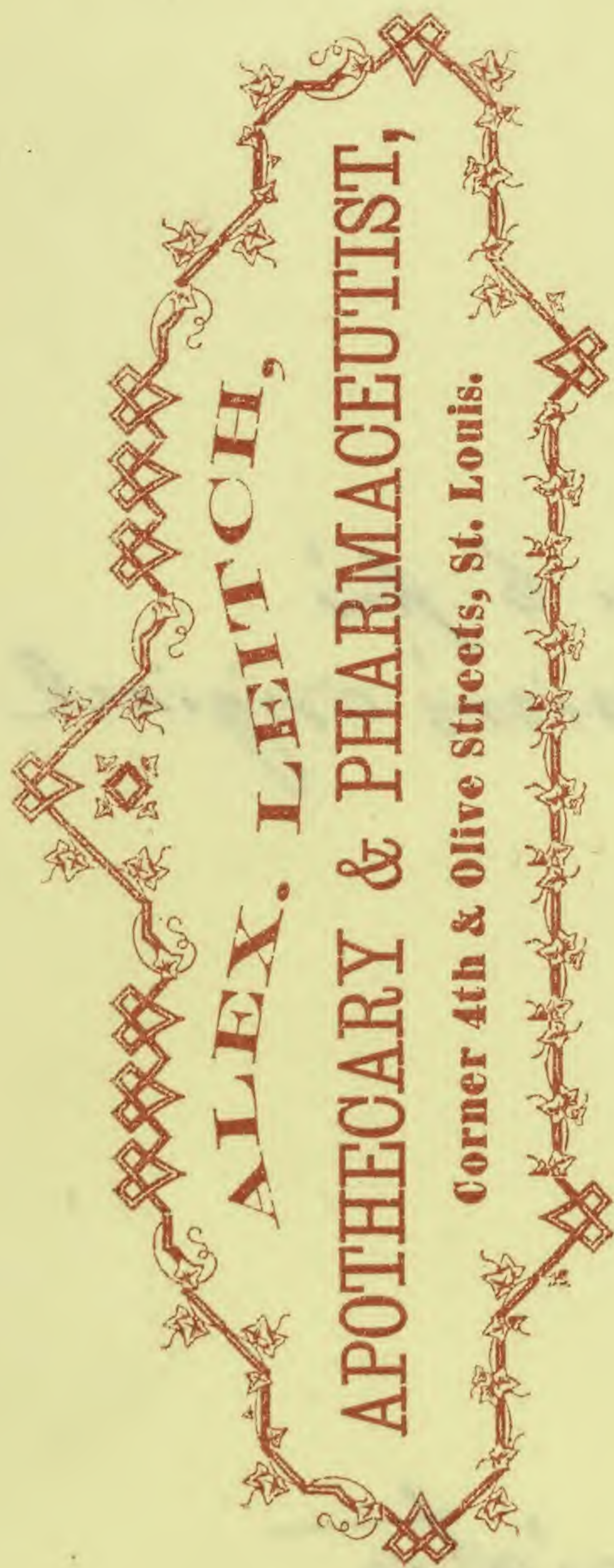
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Octob 8 1870

Abies Veitchii

Oct 1875

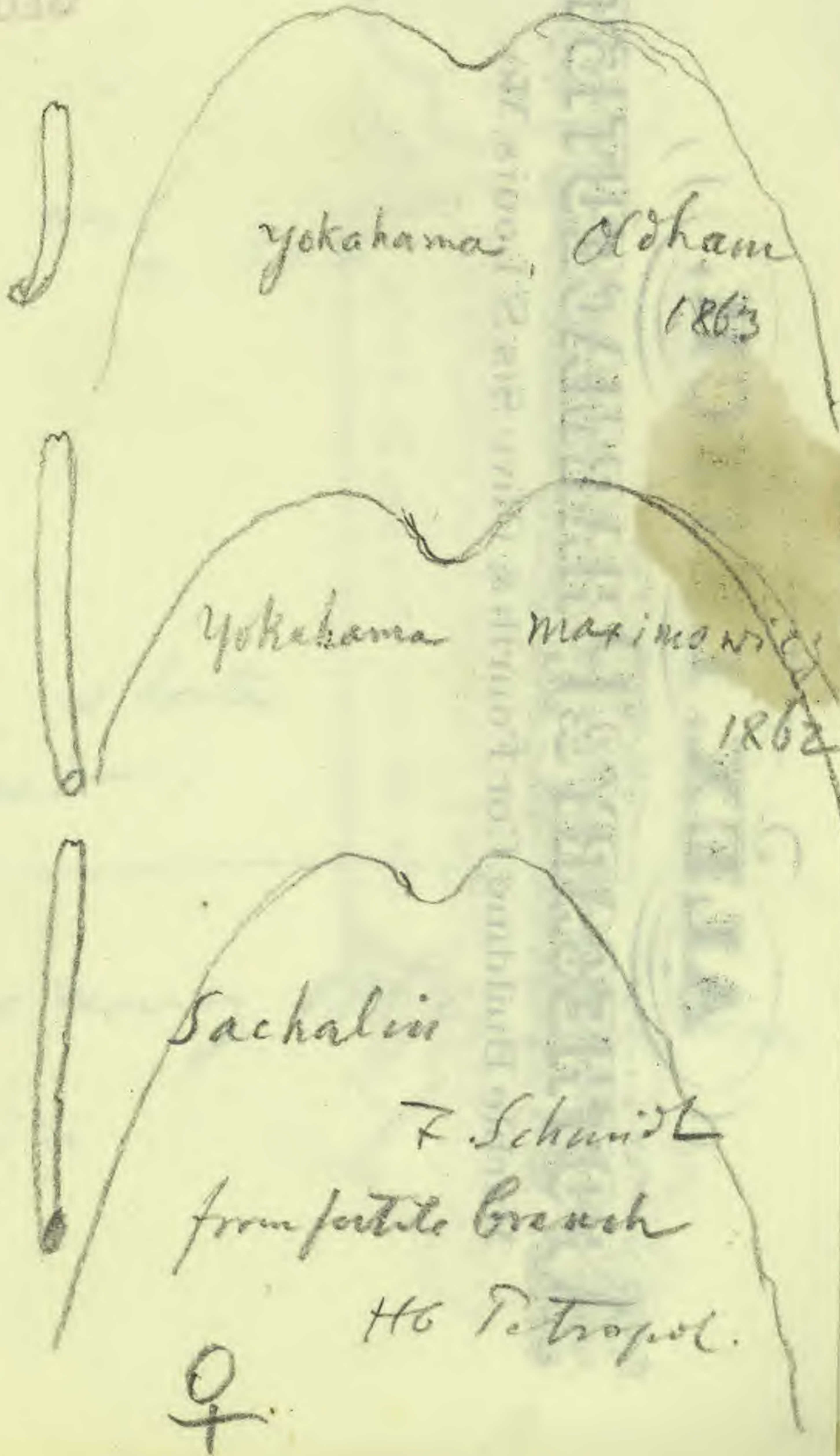
no stomata



no stomata



no stomata



Yokohama, Odham
1863

Yokohama Maximowicz
1862

Sachalin
F. Schmidt
from fertile branch
Hb Petropol.
♀



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Octob.

br. 1863

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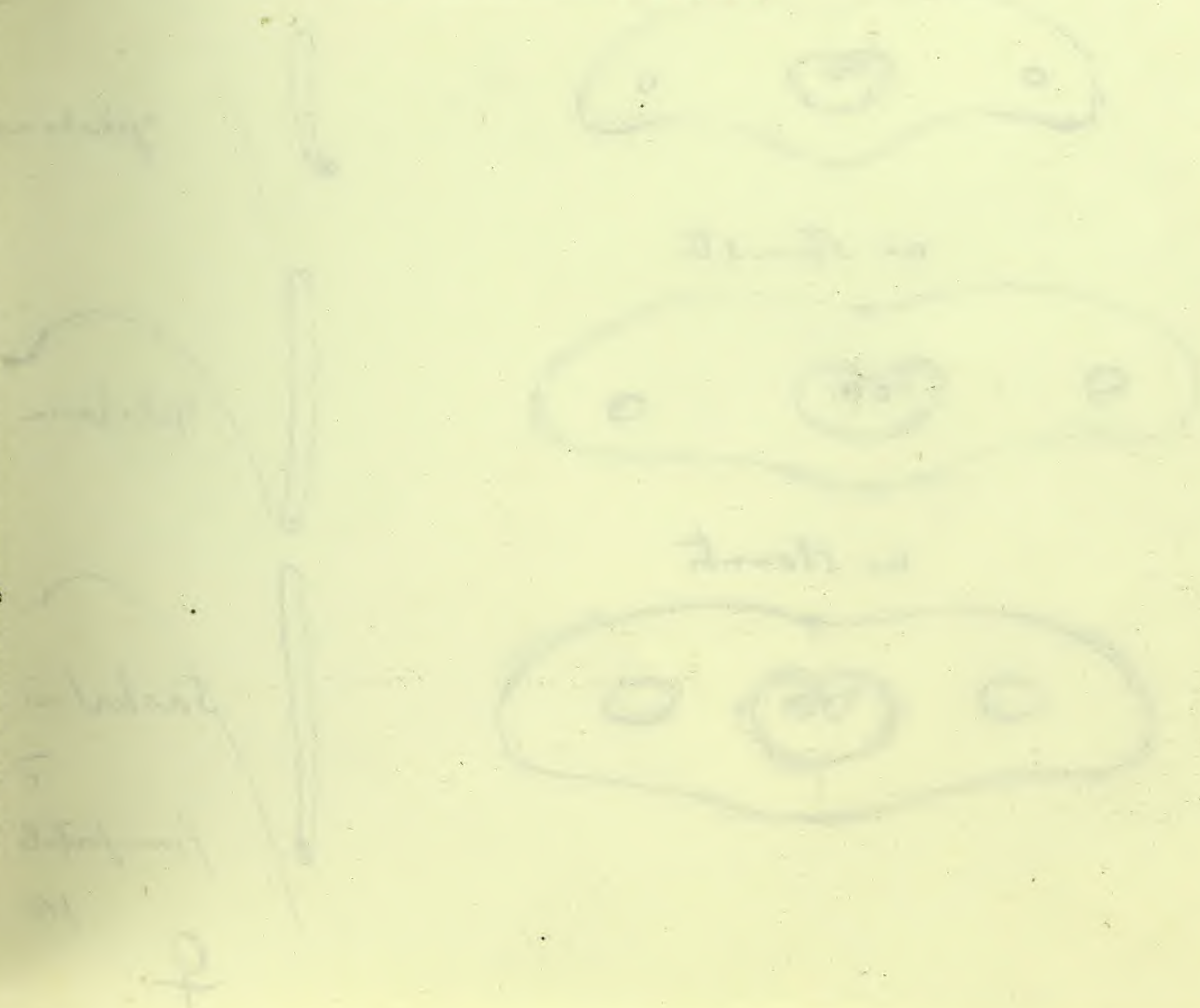
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

5-6 mm = 512

long, shorter
seed

see drawing 98

512



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813 *Abies Veitchii*
Yokohama, Oshima Feb. 1863

Octob 8 1870



14-16 : 5-6 ^{mm} = 5:2



wing much broader than long, & shorter
than seed

Abies Veitchii
Yokohama Maximowicz 1862



15-16 : 5-6 ^{mm} = 5:2



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CHEMIST



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ALL THE NEW REMEDIES
CONSTANTLY ON HAND



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~~Arctostaphylos~~
Abies brachyphylla Max

Oct 7 1870

A. brachyphylla Maxim n. sp.

Oct 8 1875

Yokohama

Maximowicz 1862

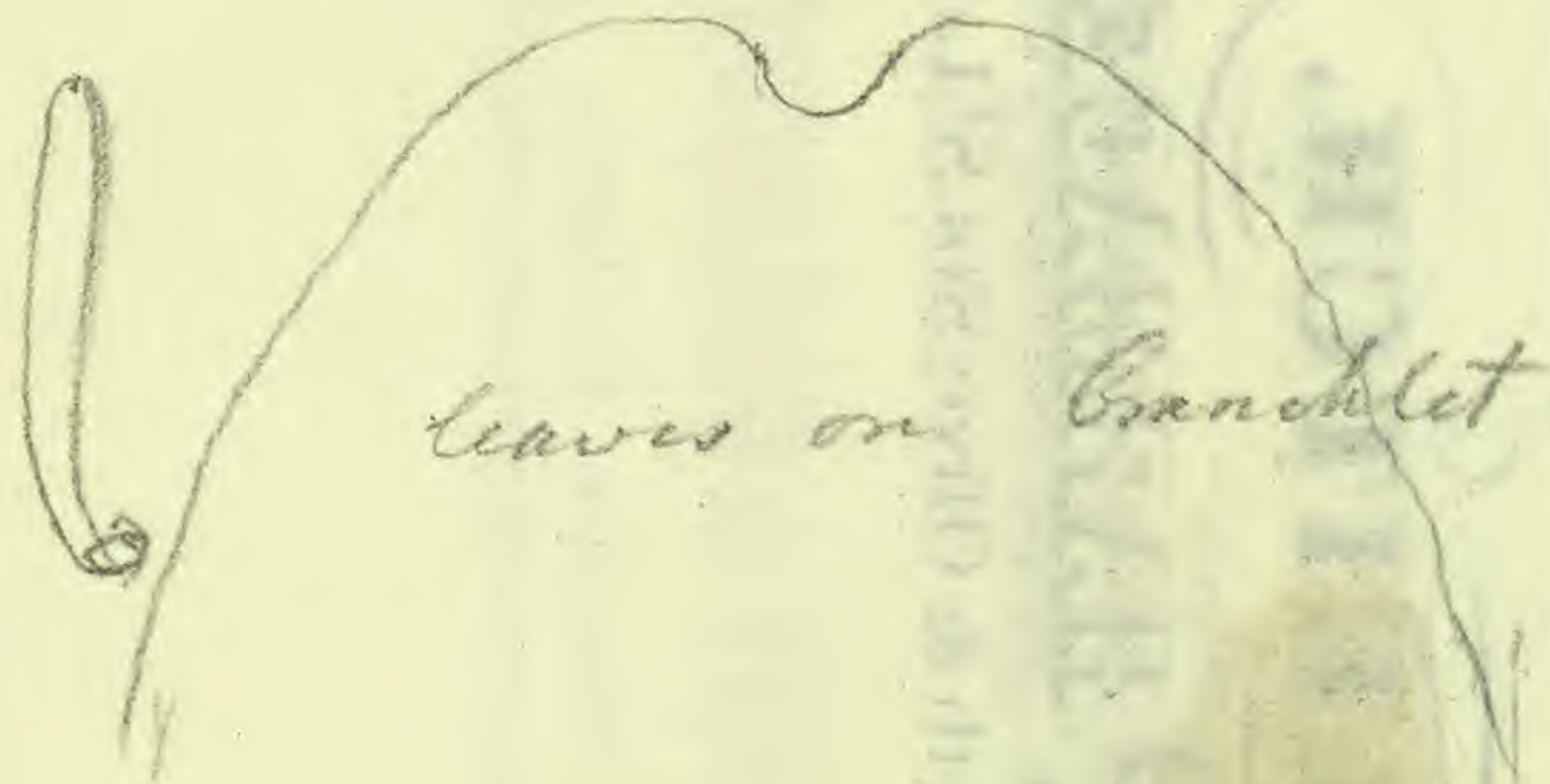
ex herb Corson

x30

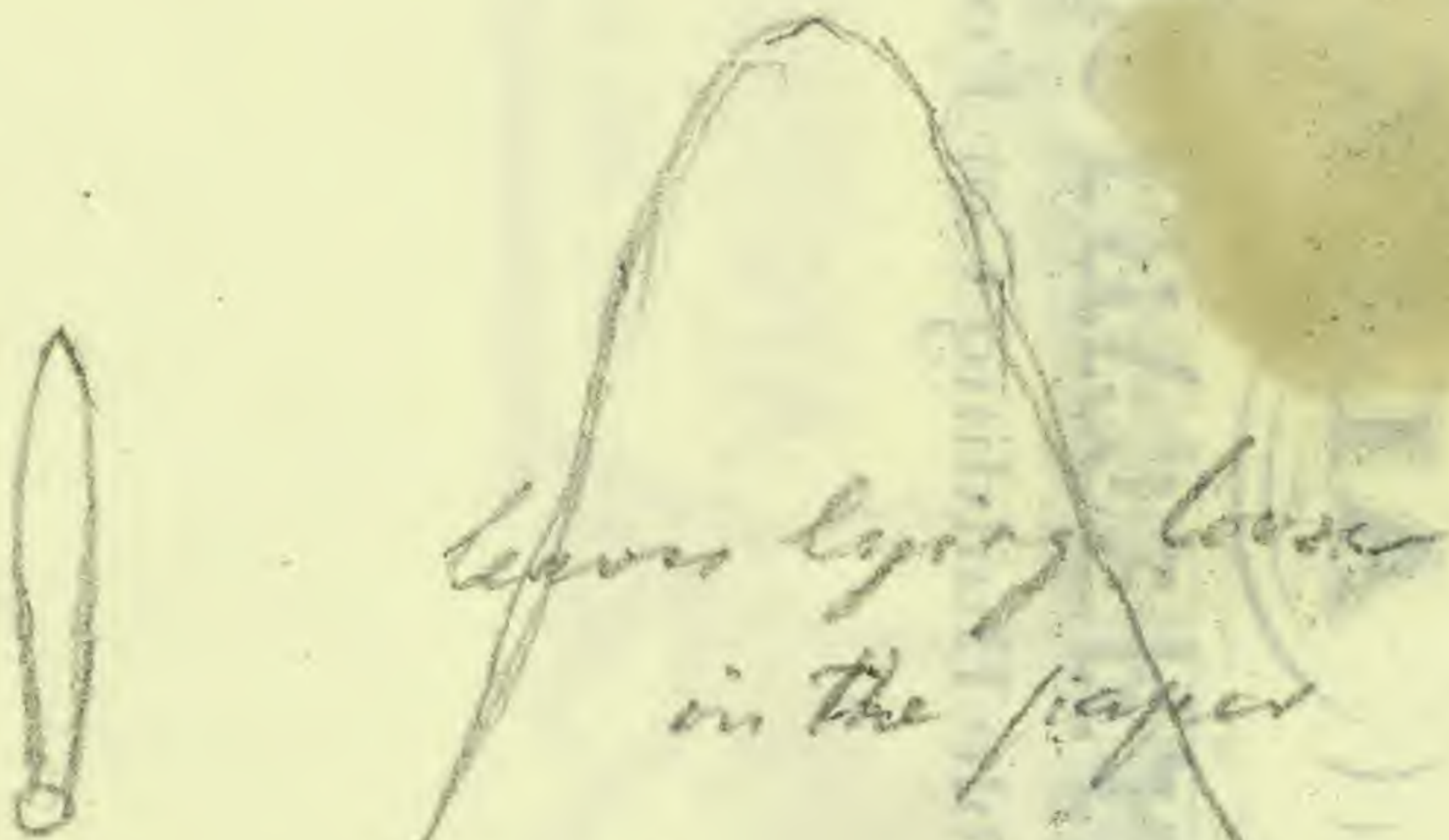
no stomata



narrow band of stomata - narrow
upward



leaves on branchlet



leaves lying loose
in the paper



0 1 2 3 4 5 6 7 8 9 10

cm

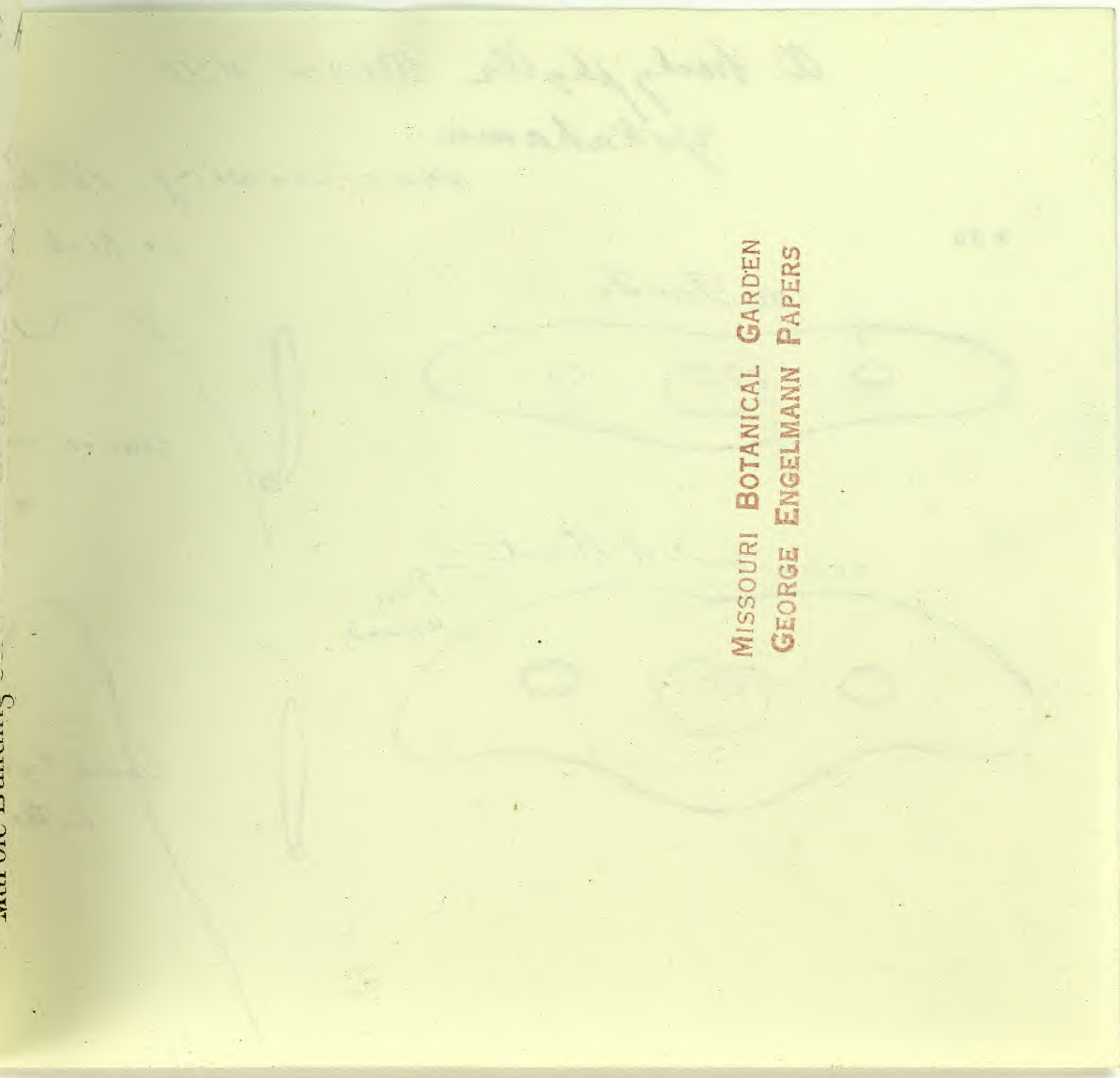
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Oct 6 7
x-mowing
= 3 3/4 in

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Cryptogamium

Oct 7 1870

A. holophylla Maxim

Octob 8 1875

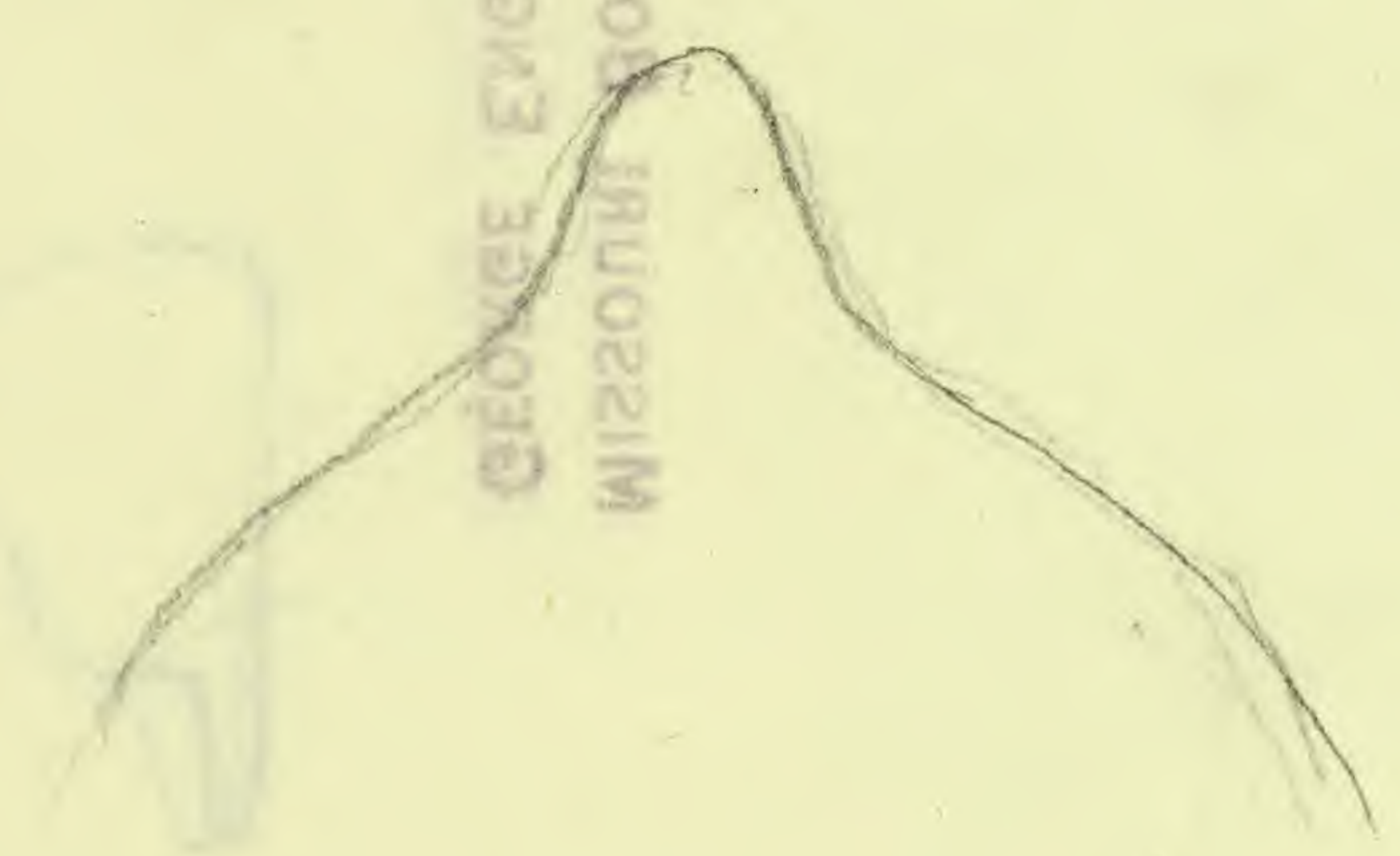
Manchuria austr orient. Port May

Maximowicz 1860

[ex Hb Kew

X 30

no stomata



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 HERBARIUM
 GEORGE ENGELMANN
 MISSOURI BOTANICAL GARDEN
 HERBARIUM
 GEORGE ENGELMANN
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 HERBARIUM



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cm



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Gratea Brewissiana Abies holophylla Maximae

Oct 7 1870

Mandschuria amth Maximowicz

32: 18

110 200

3 1/2 1 2



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MICHIGAN BOTANICAL GARDEN

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Abies neopholepis Mac

Oct 8 1870

A. neopholepis Max

Oct 9 1870

both leaves from fruit bearing branch

Mandschuria, Maxim 1860

no stomata

ex HB Kew



no stomata



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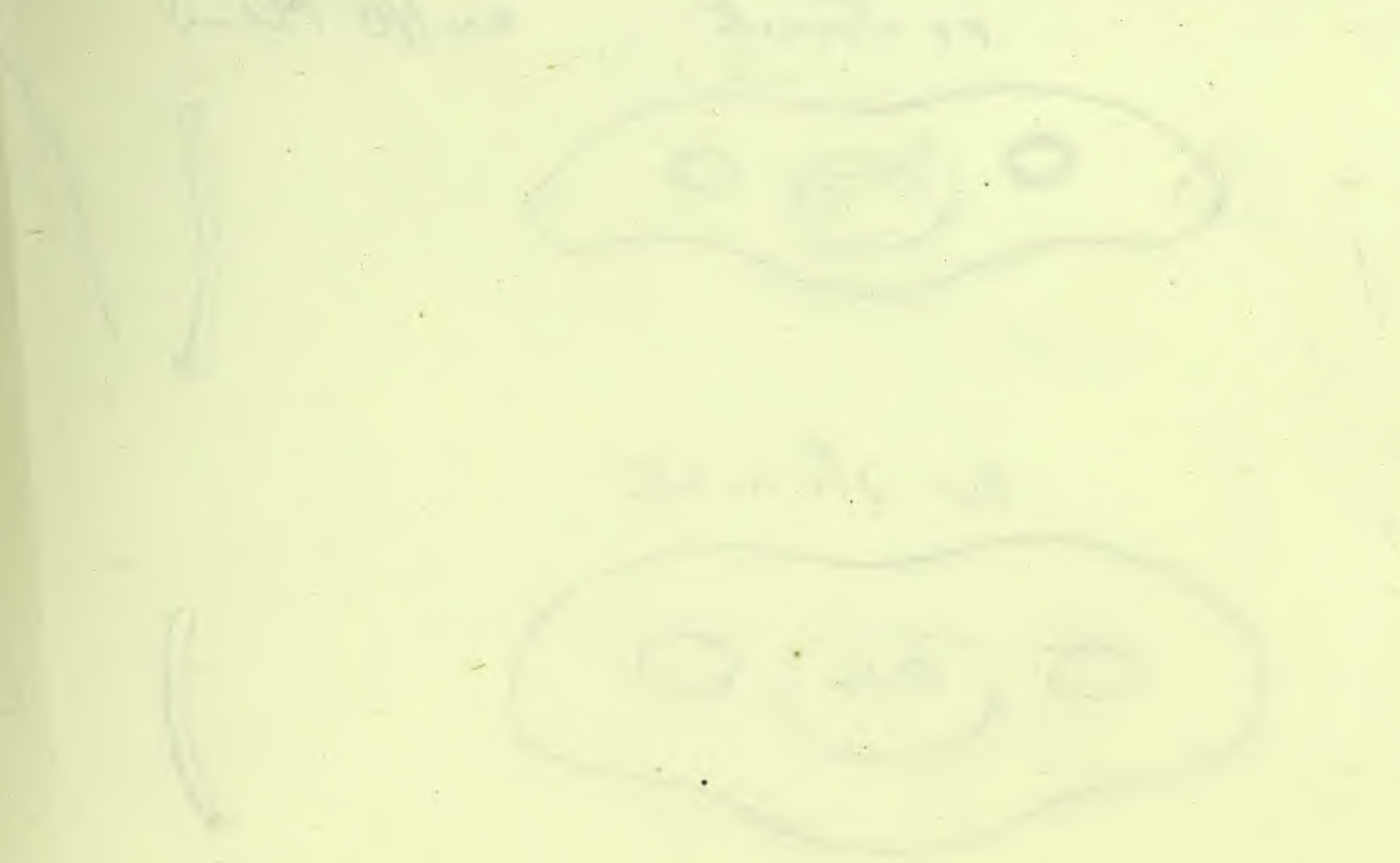
Outd

Max in d

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$5\frac{1}{2}$ mm = $4\frac{1}{2}$: 2



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0 1 2 3 4 5 6 7 8 9 10

cm

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Abies nephrolepis Max

Oct 8 1870

Mandschuria,

Maximowicz 1860

- Pers. 1860

11-12; 5-5 $\frac{1}{2}$ ^{mm} = 4 $\frac{1}{4}$: 2



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

13078

MISSOURI BOTANICAL GARDEN
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ALL THE NEW REMEDIES
CONSTANTLY ON HAND



0 1 2 3 4 5 6 7 8 9 10

cm

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