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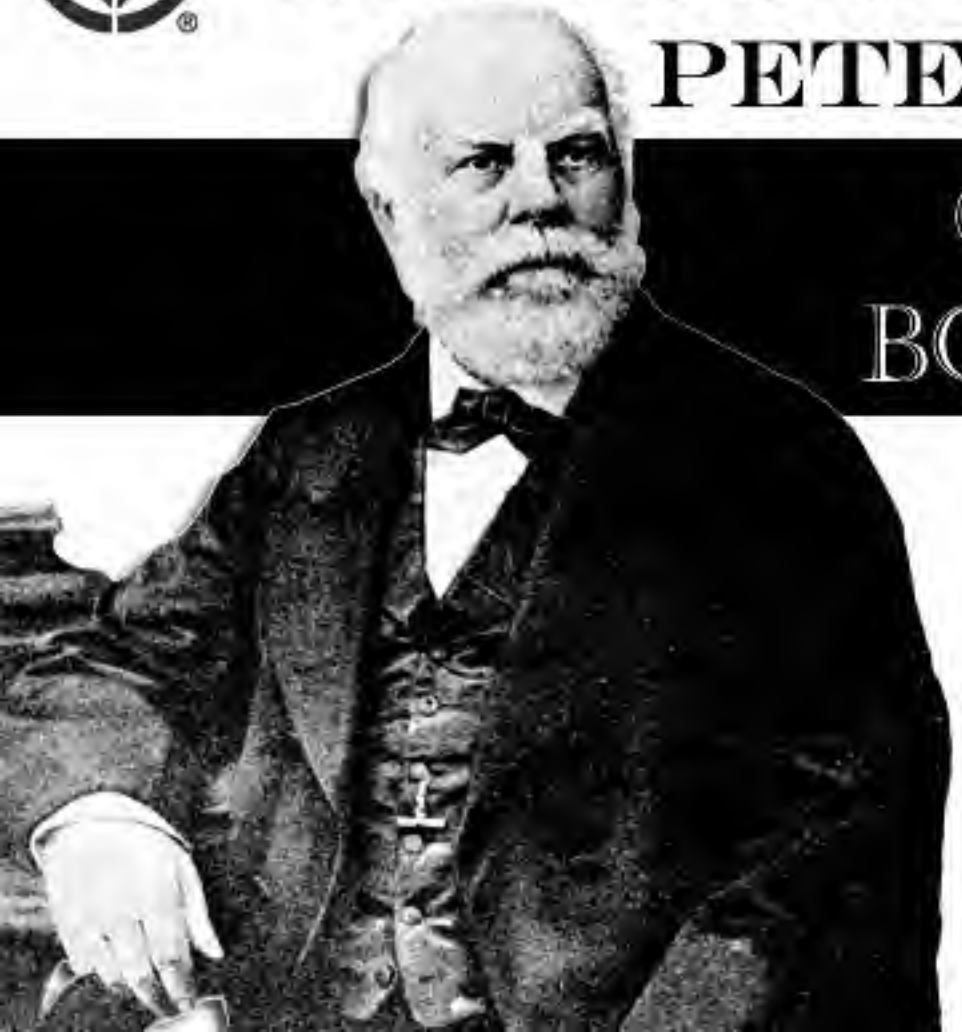
Peter H. Raven Library

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.

10
110 — 15

1673

Sciadopitys

0 1 2 3 4 5 6 7 8 9 10
cm
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10760

Lathraea squamaria L
Clandestina penduliflora Lam

Pers II, 100
Roth II, 334
Spr II, 818

♃ In sylvis umbrosis Europ

Prope Heidelberg in diuneto
adviam vetus den Karlsruhe
1826

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Herb. Kew.
Kotschy
Taurus, August, male
cones 3/4 inch long —
not quite mature

Syria, Hooker, Sept – Oct.
pollen shed, but cones
still on & fresh.

Algeria, Munby. Oct. 1853
Male cones have just
shed their pollen.

Himalaya a Thompson. Esq.
Male cones almost ready
to shed

—

Cedar of Lebanon sheds
its pollen at Kew —
— when?

A. Gray's notes in Herb Kew
Oct. 24 1868

over

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Gray in letter of Nov 27 says:

Thompson & Edgeworth assure me that they have seen Deodara in full flower in the Himalayas in the autumn, say, early in Octo.

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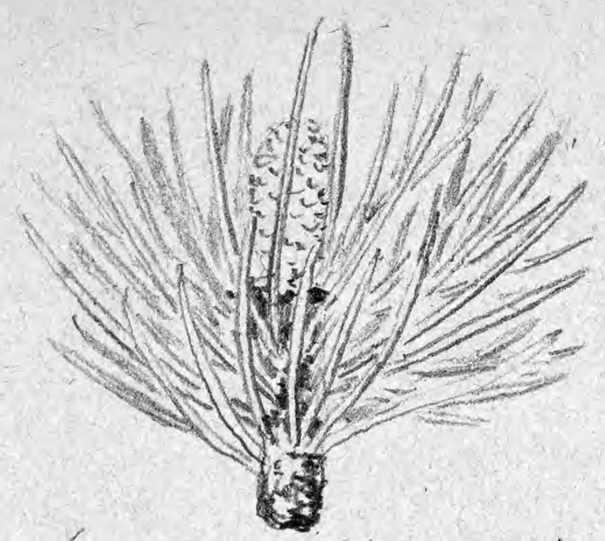
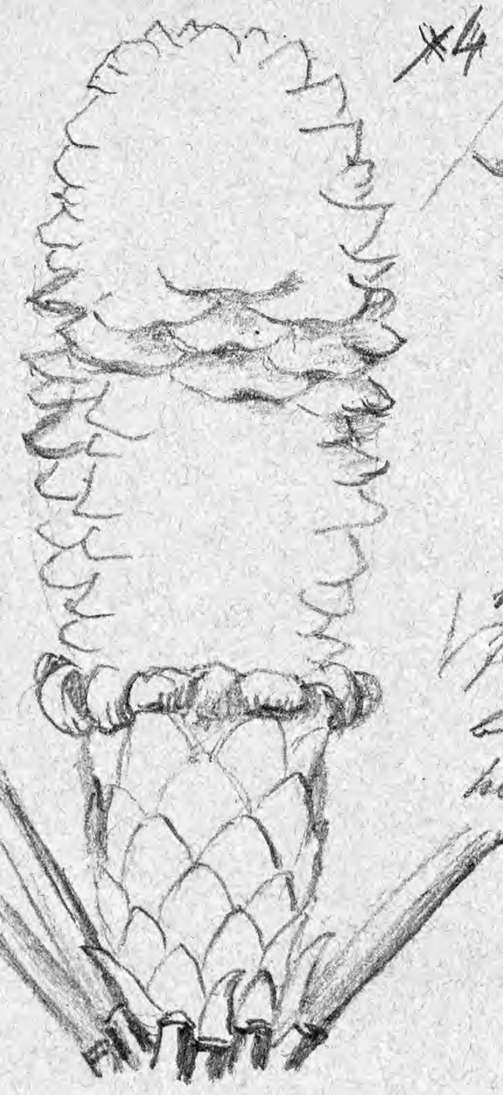
Cedrus Libani, ament. fem. Oct 8 1868

Florence cult

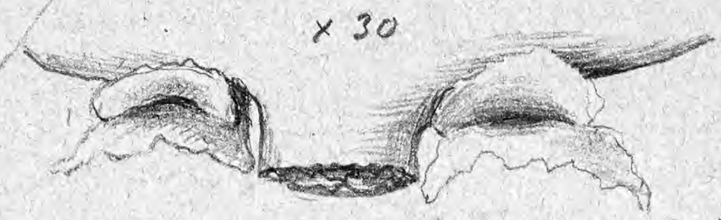


female ament, nat. size

×4



orifice of ovules ×30

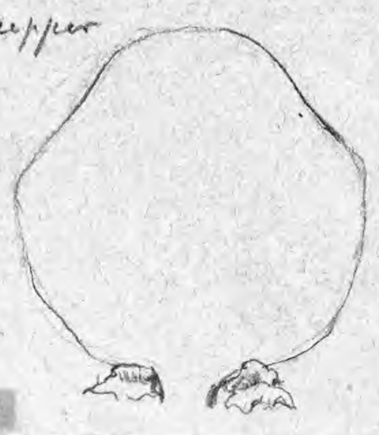


bilobed, upper lobe turned up, lower one ragged, sometimes 2-horned, or 1-horned and always turned down, so that the orifice of ovule appears as a slit or transverse opening

×10

scale, front view

×10



upper

lower side

bract.

male and terminal female ament on a branchlet, very short but several years old; lowest leaves have fallen off! ament itself on a short densely bracted stipe; the upper most bracts divaricately recurved

male ament

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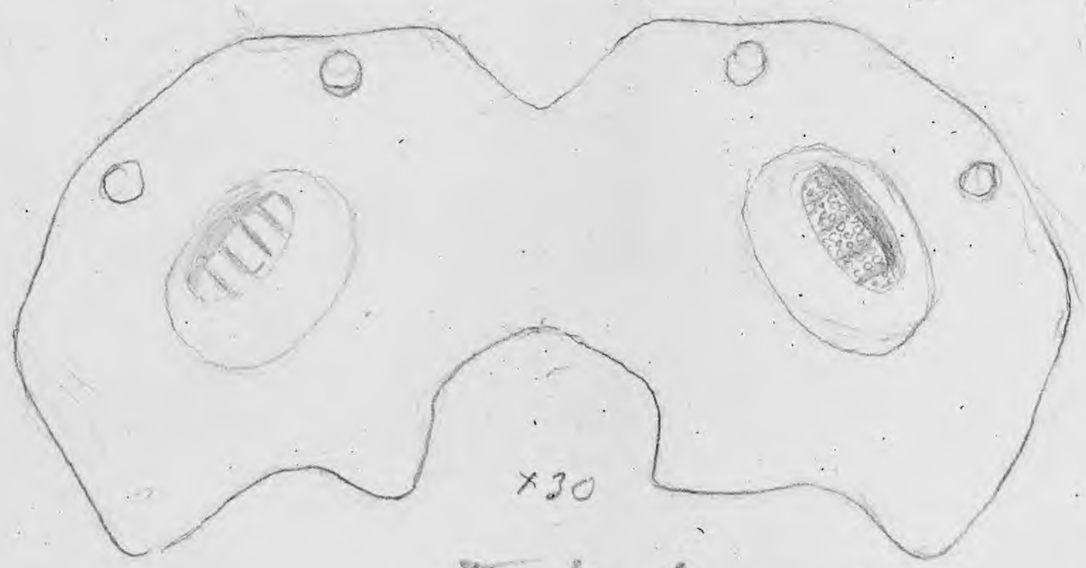
Sciadopitys, Schottmüller April 23 1876

Tip & section of youngest leaf, uppermost vertical.



Stomata only in this groove

HOEFTICKER
Apothekerbedarf
Wien, Rotenturmstrasse 23

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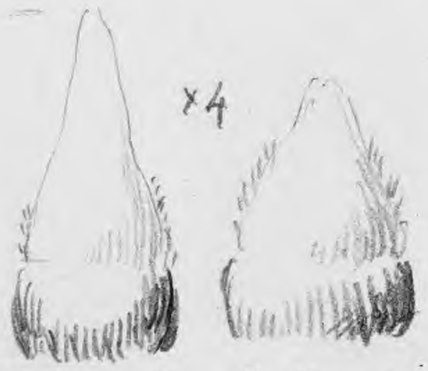
Sciadopitys

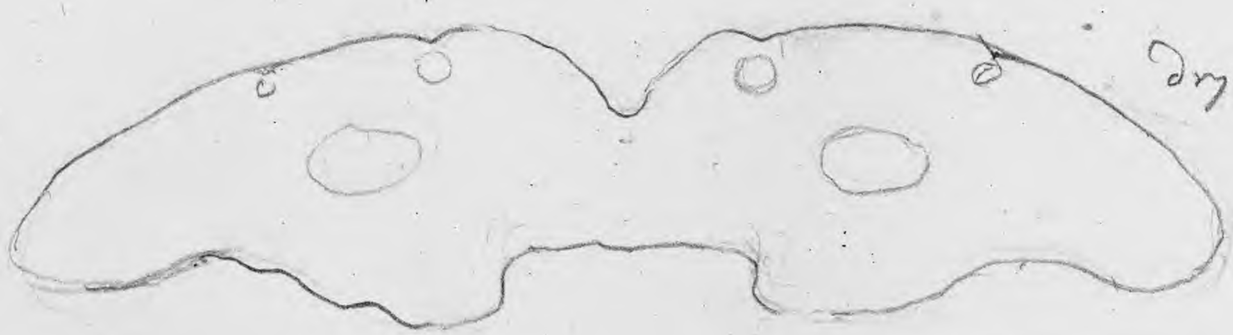
Japan, Schottmüller leg, 1860 det. Hk Berlin 1869

April 22 1871



sterile bract on axis between the verticils

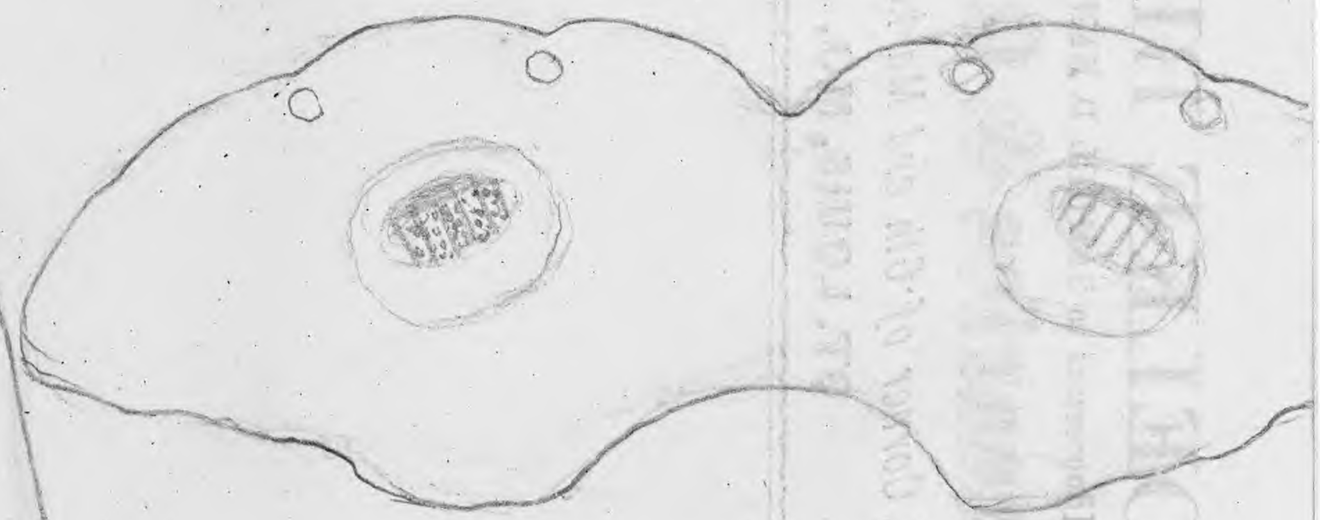
leafbearing bract.



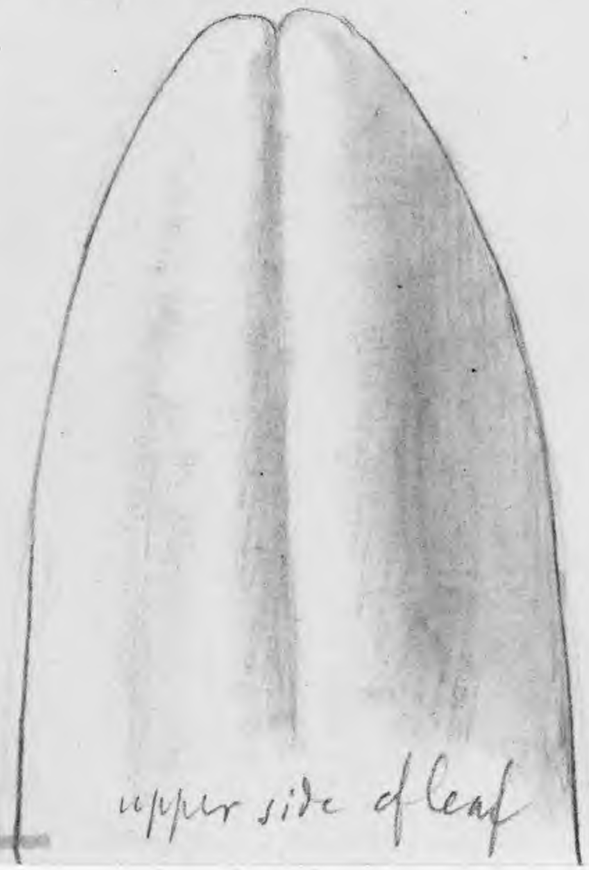
dry leaf

x30

soaked & boiled



old leaf, 3 years – 3d vertical from top



upper side of leaf

under side

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Sciadopitys Bot Jrl Jan 1871 Leaf in Thujopsis reversed!

Mohl 2760 — Conifers wood upwards, bast below in the vascular bundle in cortex

2 Cotyledons leaves & abt 6 of first year close to them — Schnell

2d year internodes one inch and organs of all following shoots — whorl of small scales in the axils of which the the so called bifida notched leaves, with central groove on both sides — the whole analogous to Pinus but 2 leaves united, and no scale (Virgin) at their base

Pinus & Abies have two vascular bundles in each leaf, wood upwards, bast below all enclosed in a single sheath of cells containing chlorophyll

Sciadopitys has two such distinct bundles separated from dsl tissue and enclosed in different sheaths — and wood fibres downward and bast upward, medullary rays of both divergent, not parallel — stomata only in the groove of the lower side

Transfusion tissue of Mohl, peculiar to leaves of Conifers, especially developed in the broad leaved ~~pinus~~ intermediate between parenchyma cells and vessels (liber — bast fibres) — assists in the functions of wood — & bast tissue in the distribution of fluids through the leaf

This structure shows the foliage of Sciadopitys to be real leaf, not a cladodium (different from Phyllocladus!)

In Abies the central vessels are more or less divided in two by a larger medullary ray

Sciadopitys leaf consists of two cotyledonary leaves on a secondary axis connate with their upper edge (that turned towards the main axis) and thus covering the sides — upper side downward

over

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Rec'd Jan 28

Highland, Ill., den 26ten Januar 1871.

Geehrtester Herr!

Ich bin so frei, Ihre gefl. Hülfe, wenn möglich, in Anspruch zu nehmen. Ich weiß zwar nicht, ob in der fraglichen Augenangelegenheit ich mich an Sie wenden darf, und bitte zum Voraus um Entschuldigung wenn ich mir diese Freiheit gestatte.

Es wohnte hier ein jüngerer Lehrer, ein unbemittelter strebsamer, und fleißiger Mann, allein ganz unbemittelt. Es haben sich nun bei demselben bedenkliche Symptome eines Augenübels eingestellt, und zwar in solchem Grade daß die Consultation eines Augenarztes unbedingt nothwendig ist.

Für den, unbemittelten Mann, ist dies nun eine schwere Sorge, und ich möchte Sie bitten, mir umgehend gefälligst die Adresse des besten Augenarztes von St. Louis zu geben, und sollten Sie denselben persönlich kennen, den Rath zu ertheilen, damit wenn sich der Betreffende bei ihm meldet, so möglich die Umstände des Patienten in Rechnung gezogen würden.

Noch einmal meine Entschuldigungen für diese sonderbare Anfrage. Es ist ein Fall, der leicht zum unnützen Elende des Betreffenden führen könnte, und obschon ich gar wohl fühle daß ich eigentlich eine Unbescheidenheit begehe, wenn ich mich wohl Anders besinnen.

Empfangen Sie auch zum Voraus meinen Dank, und die Versicherung meiner Hochachtung.

Ihr Ergebener.

Ad. L. Bandelin.

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Dear Sir

I am so sorry to trouble you.

If Dr. Gerstenberg is connected with Shaw or St Louis that they consider it too heavy of a charge — the gentleman just has these 2 boys on his hands, & cannot take it upon himself, as it seems (has been ill many a) quite a serious — Perhaps if Dr. Gerstenberg knows of a good & fair doctor.

(Just as it is I feel bad)

Scrophularia

Japan

Schottmüller

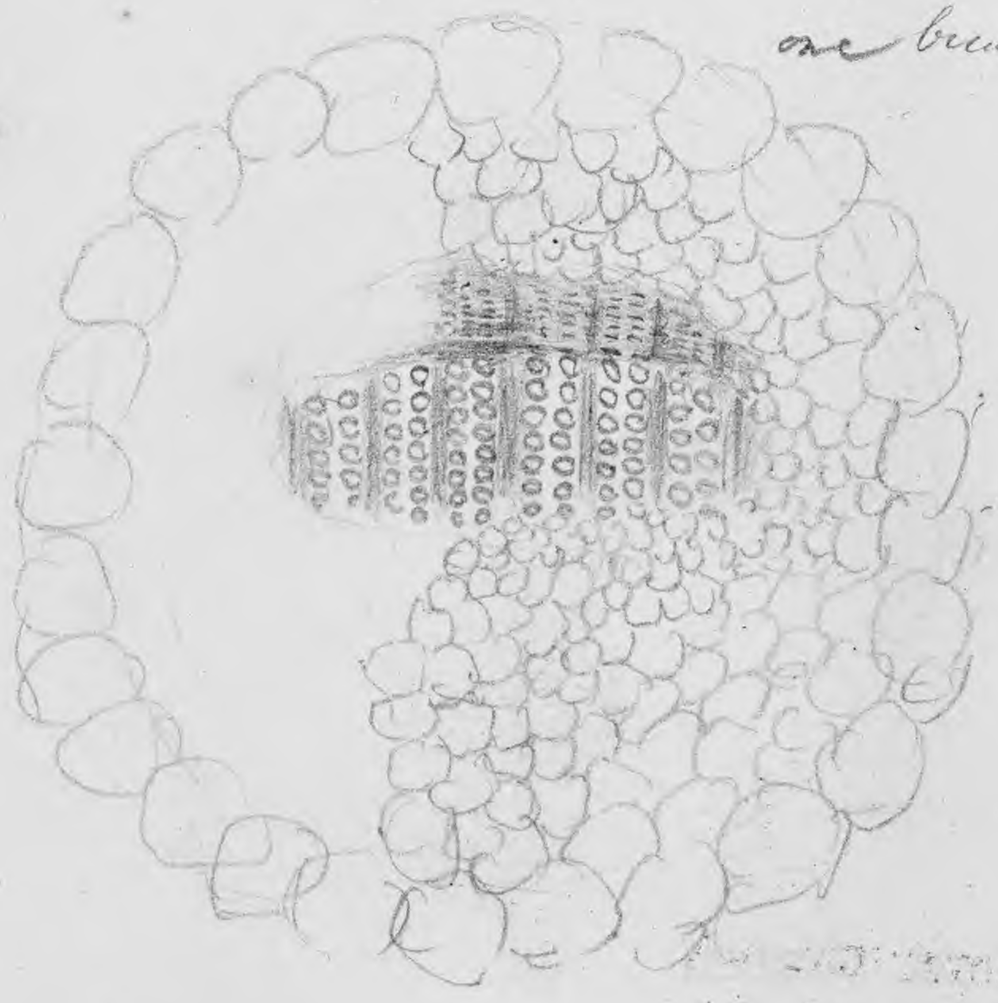
April 22 1871

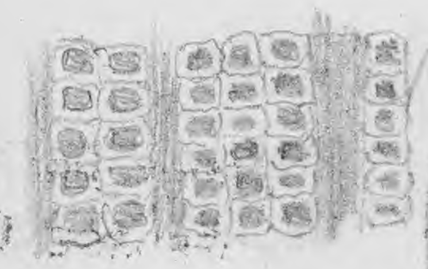
Ho. ~~Hindshaw~~ Darlin

1

×150

one bundle of vessels from old leaf





woodcells ×285 of leafbundle

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Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets

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Sciadopitys verticillata April 15 1878

sem. Prof Sargent mis

seeds

seed removed from its shell

×4

×4

embryo compressed
cotyledons 2, flat

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APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

No. ..... Date, ... 187

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Geo. Engelmann, M. D.,

No. 3003 Locust Street.

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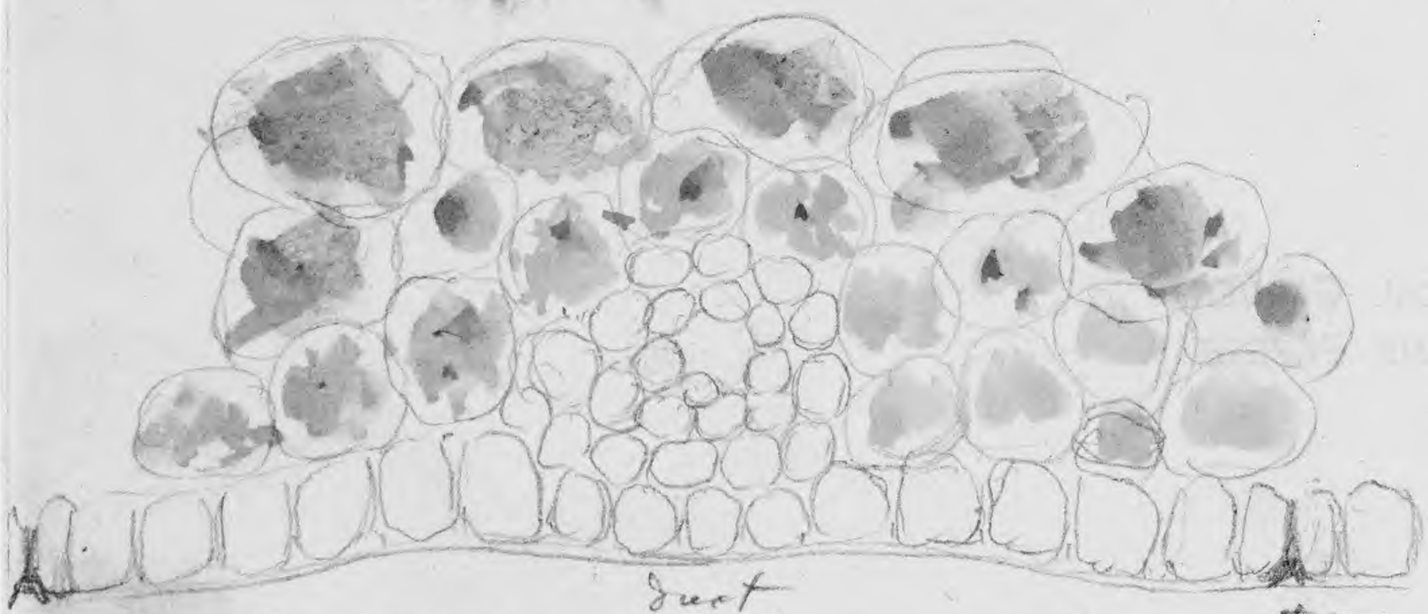
Sesamopsis

Octo 13 1878

upper side of Cotyledon, section

parts of section of Cotyledon X280

X280



lower side of Cotyledon, section

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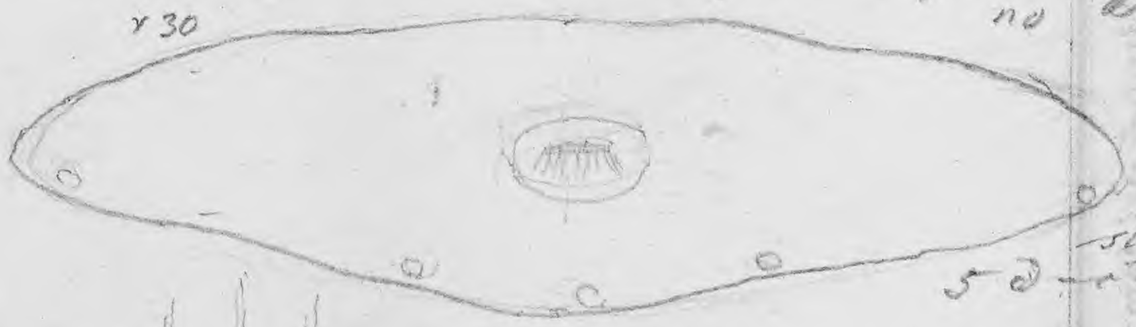
Scindapsus coll by R Douglas Waukegan Octob 11th 1878

germinating

Cotyled x10

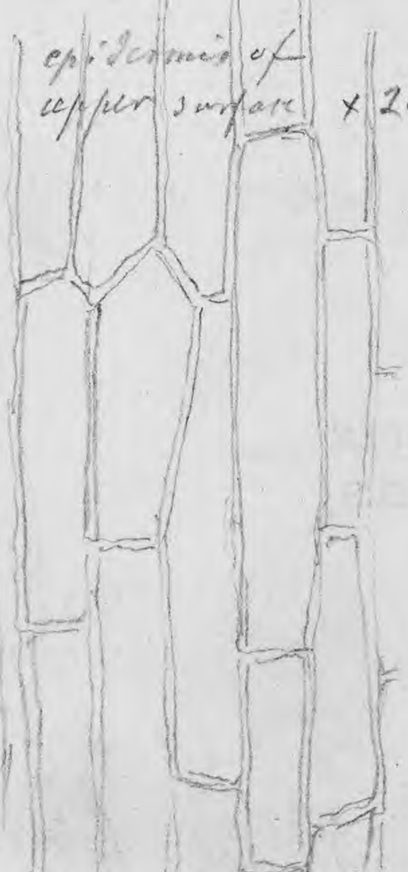
sect. of Cotyle x30

Upper surface deep shining green no stomata

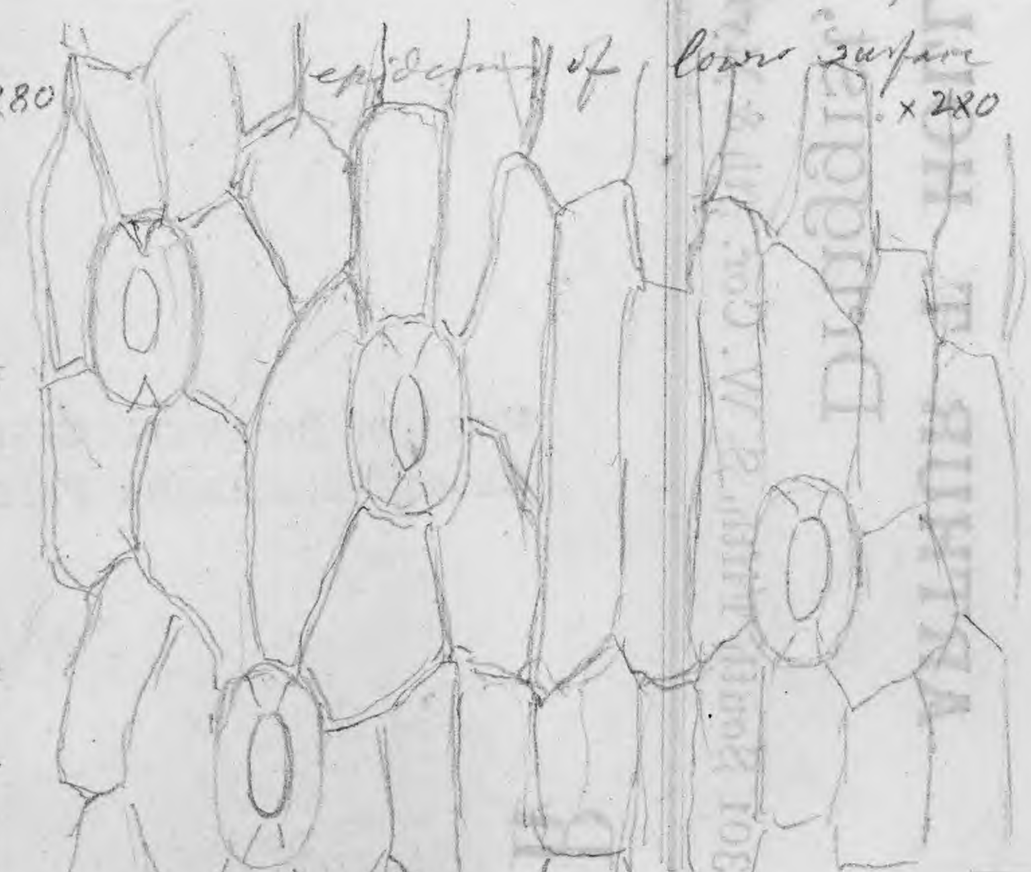


stomata and 5 dots on lower surface

epidermis of upper surface x 280



epidermis of lower surface x 280



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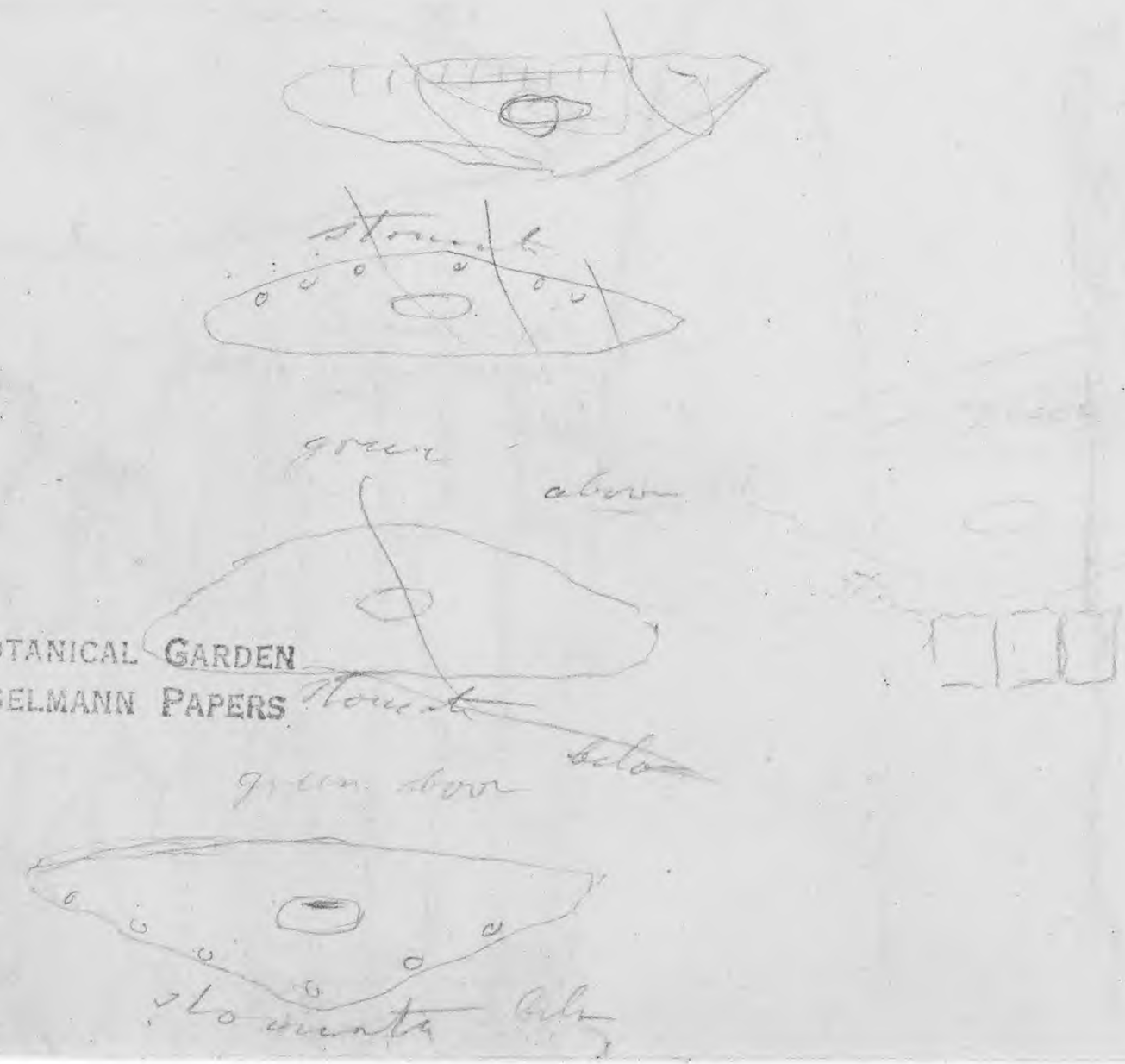

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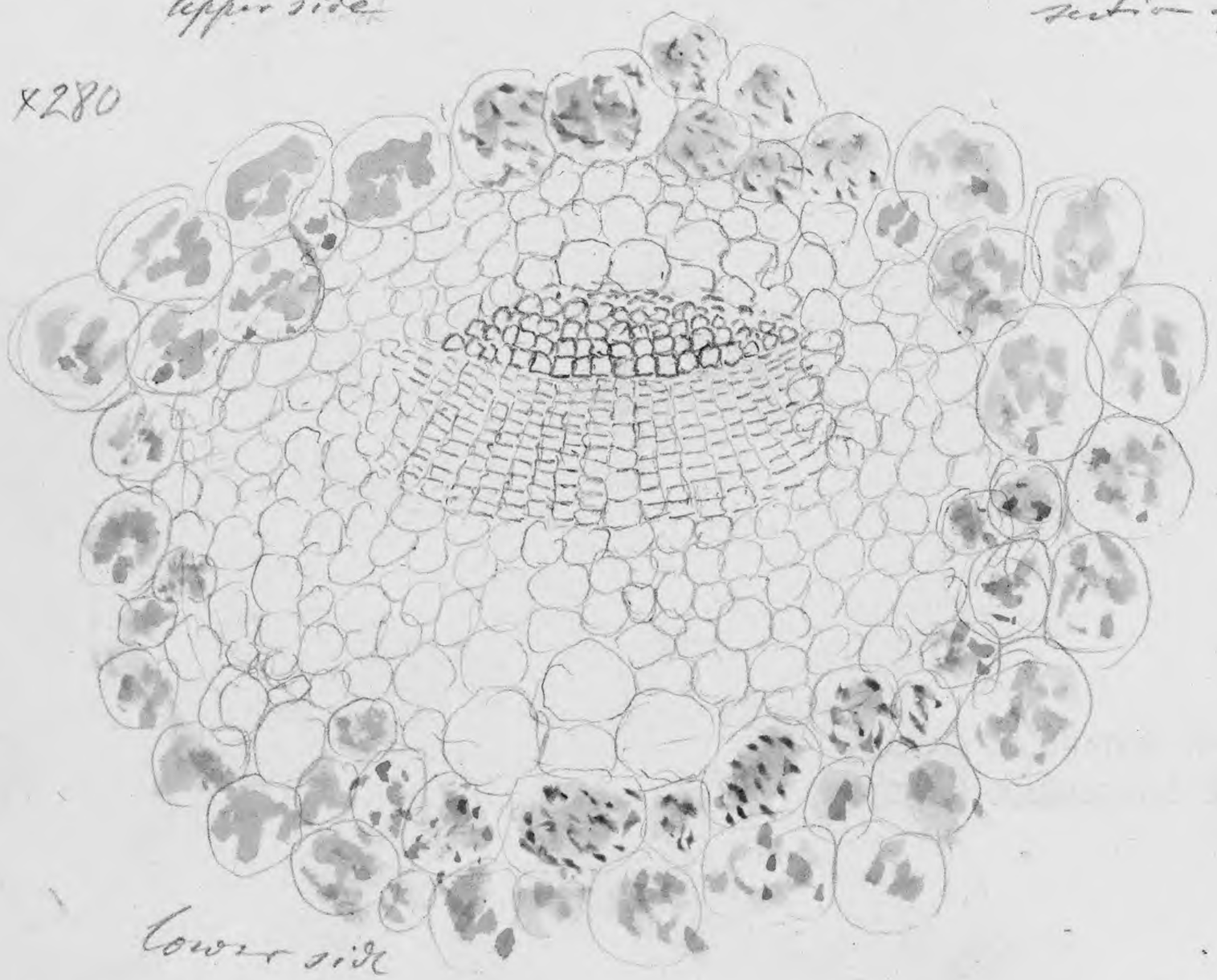
Scindapsus

Oct 13 1877

upper side

section of vascular bundle of cotyledon

×280



no distinct sheath

lower side

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Durgapur
Cor. 2nd & Wm. Penn Ave. Pittsburgh, Pa.
301 Bond Bldg. & W. Cor. 2nd & Wm. Penn Ave.

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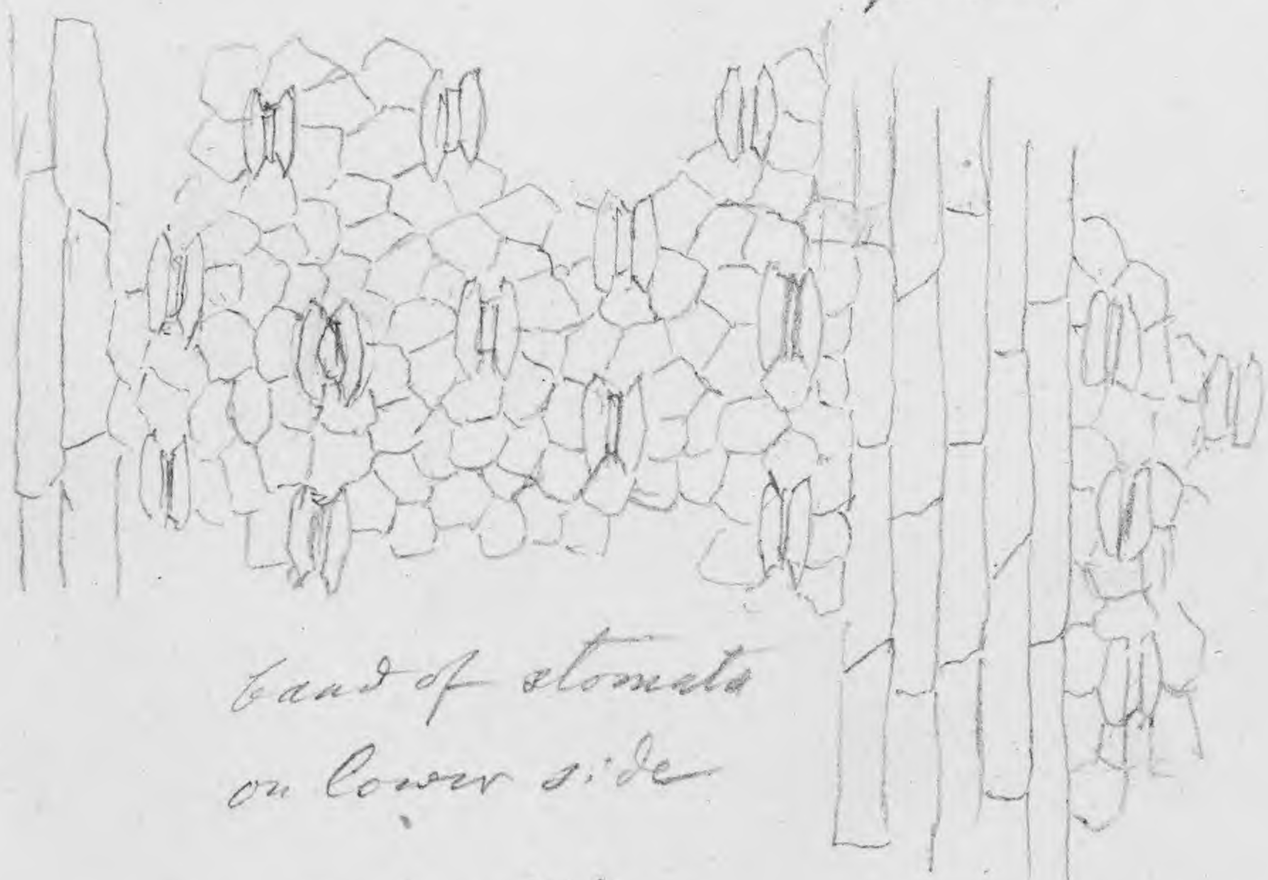
Sisiadepitys, first leaves after cotyledon Nov 22 '79

x150. lower side epidermis

Cotyledons

R. Douglas coll

x150



band of stomata on lower side

several bands with lines of stomata on each side of the midrib

bands without stomata

upper side, larger epiderm cells, no stomata

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first leaves

Sciadopitys verticillata

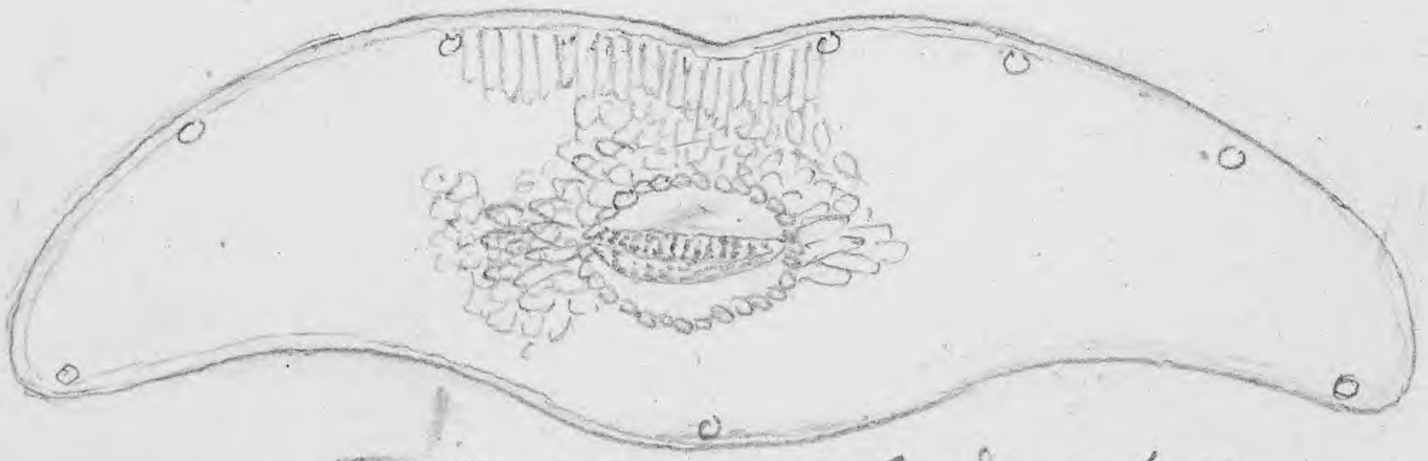
Nov 20 1879

raised by A. Douglas, Waukegan Ill.

2d year

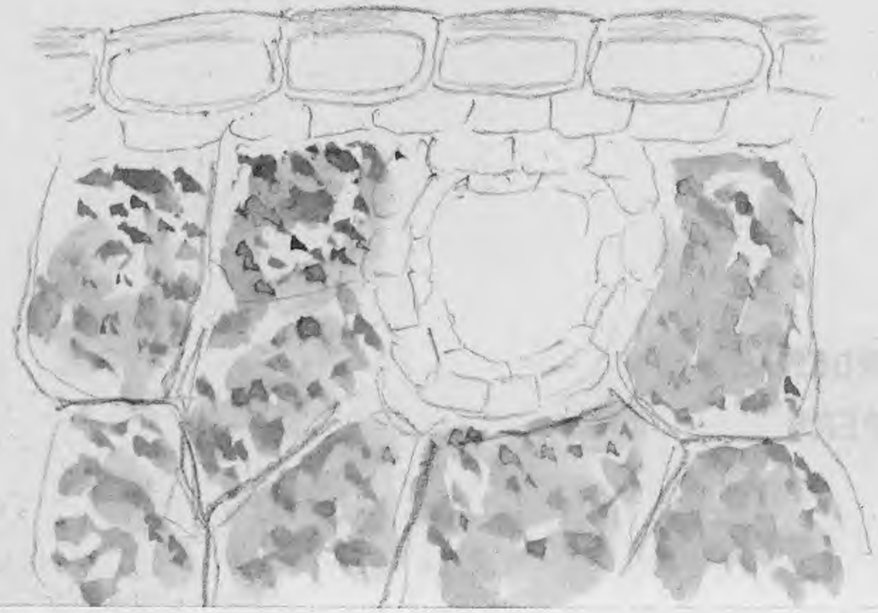
first leaves after the cotyledons

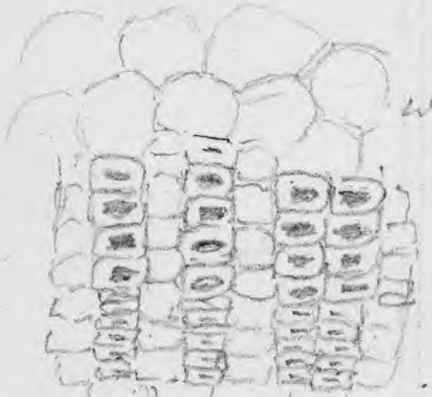
×30



stomata in several bands only on lower side

×280





wood and bast cells and pith cells

× 280

rows of pith cells off between the rows of wood and bast cells

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