



MISSOURI BOTANICAL GARDEN
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GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

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Carya tomentosa

May 15 1875

Windsor Valley, Maryland



6 anthers



5 anthers

marg-
of
leaf
x10

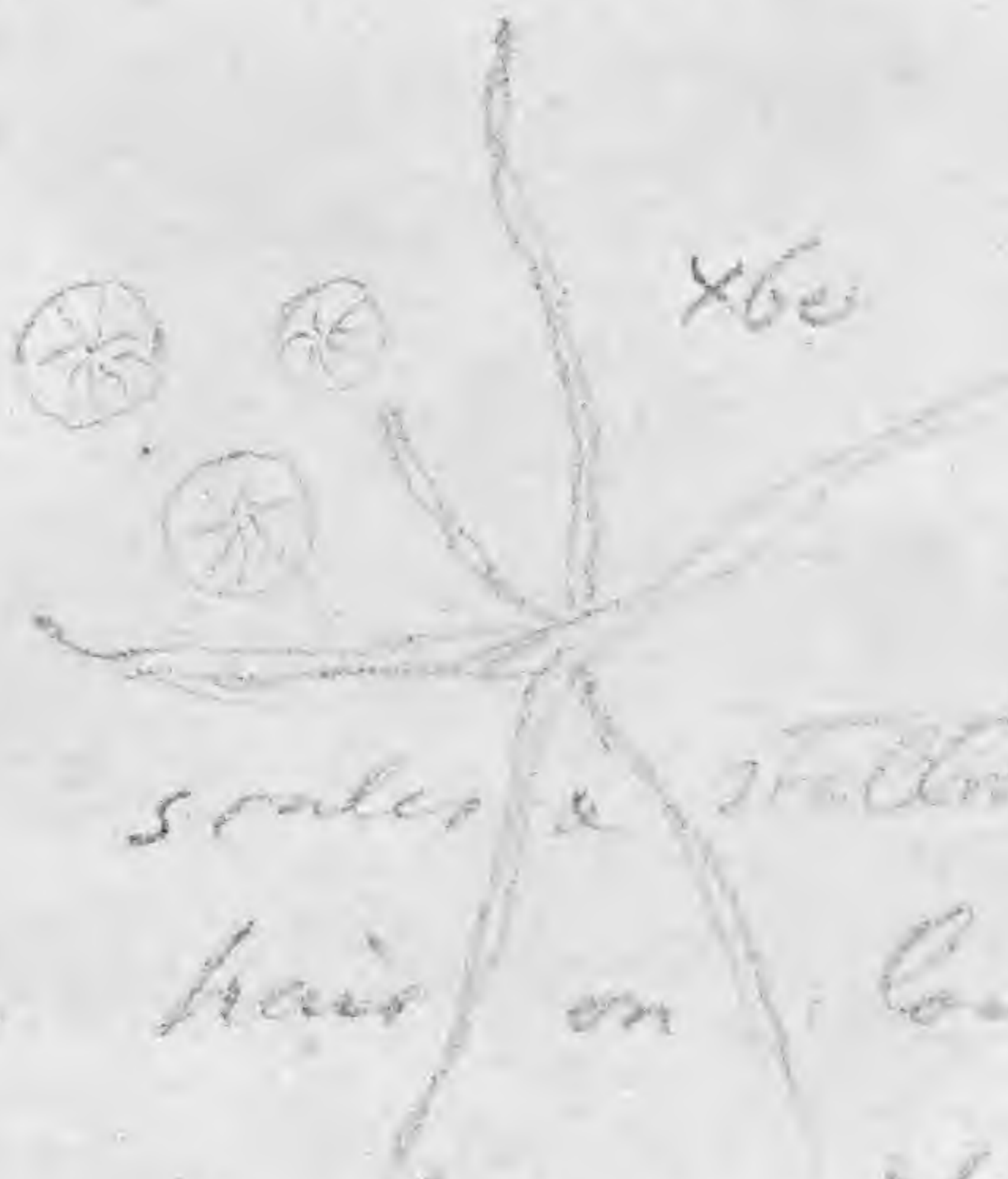
tooth x60

x60



scales of upper
side, very different
in size, many celled.

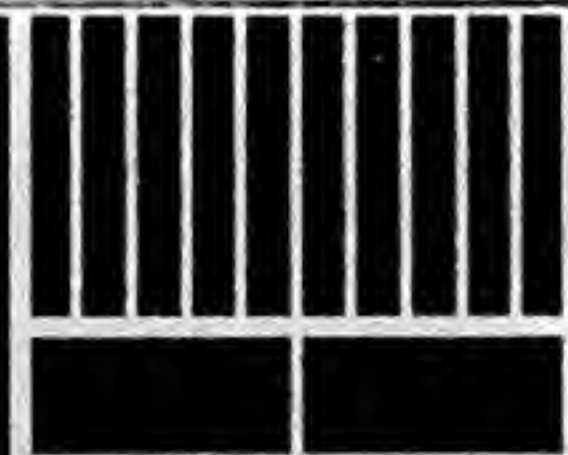
x60



scales & stellate
hair on lower side
scales uniform & 1 cell

tooth of
leaf

x60



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

5727

Leitch & Corlies

DRUGGISTS

*South West
Corner Fifth
and Market
Streets.*

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0 1 2 3 4 5 6 7 8 9 10

cm

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Carya oliviformis

May 13 1876

East St Louis - no flowers, stamens
(Killed by March frosts?)



all the scales are
circular, not lobed

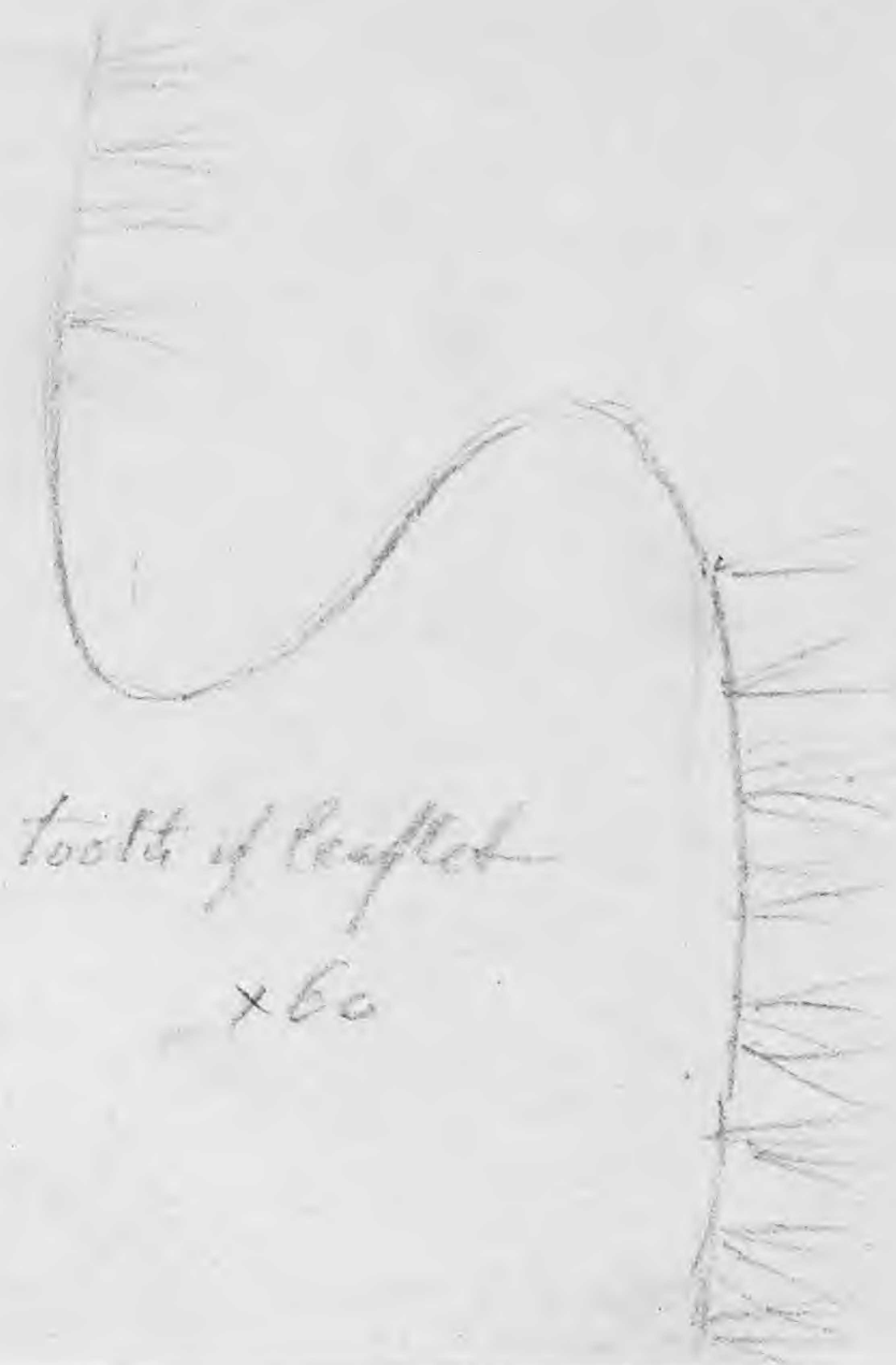


x280



x280

scales of lower side
of young leaflets mostly
uniform and very small
but visible with a good
loupe, mostly very
uniform, and all
0.05 mm in diameter

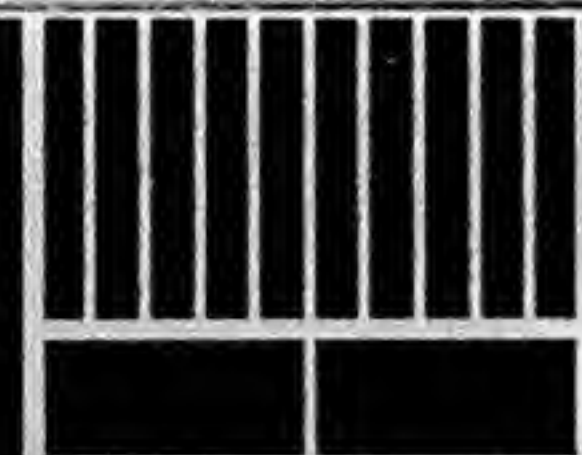


teeth of leaflet

x60

x10

teeth of
young leaflet



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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Carya porriana May 11 1876
5 leaved (stunted tree)
a. Lafayette Av. St Louis

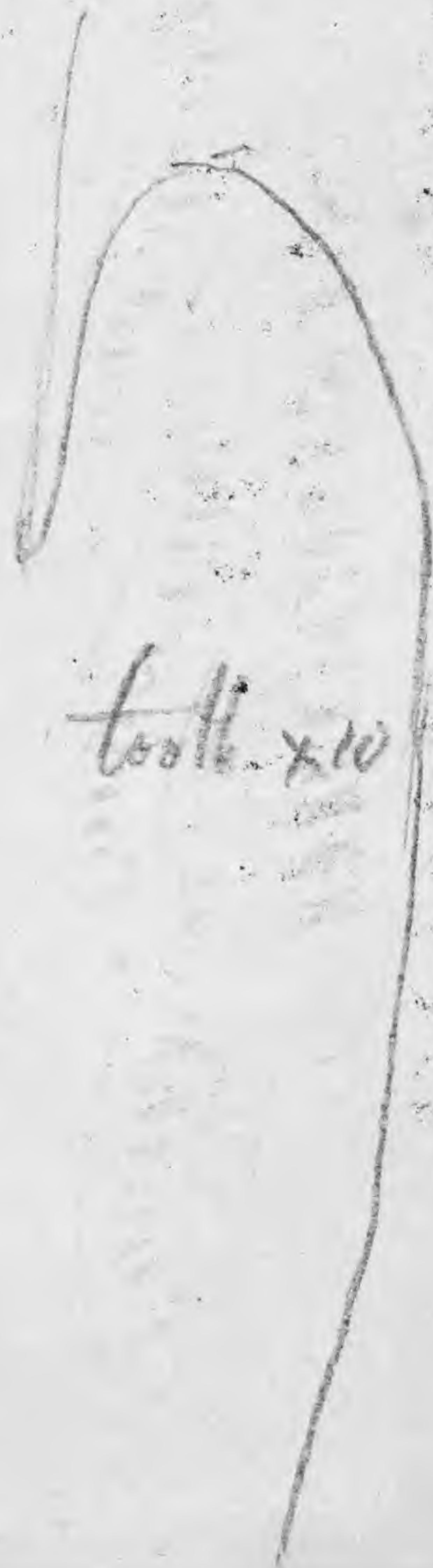


x60

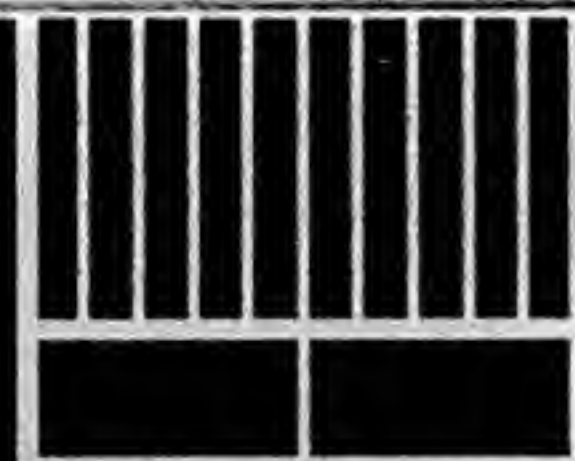


4 Stamens

x10



tooth x10



0 1 2 3 4 5 6 7 8 9 10

cm

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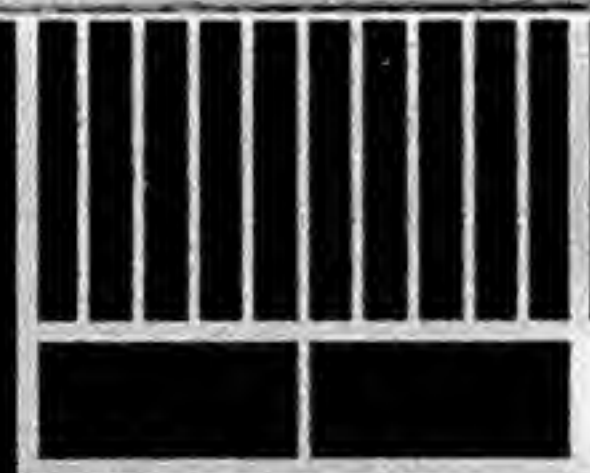
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0 1 2 3 4 5 6 7 8 9 10

cm

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Carya porcina

May 11 1876

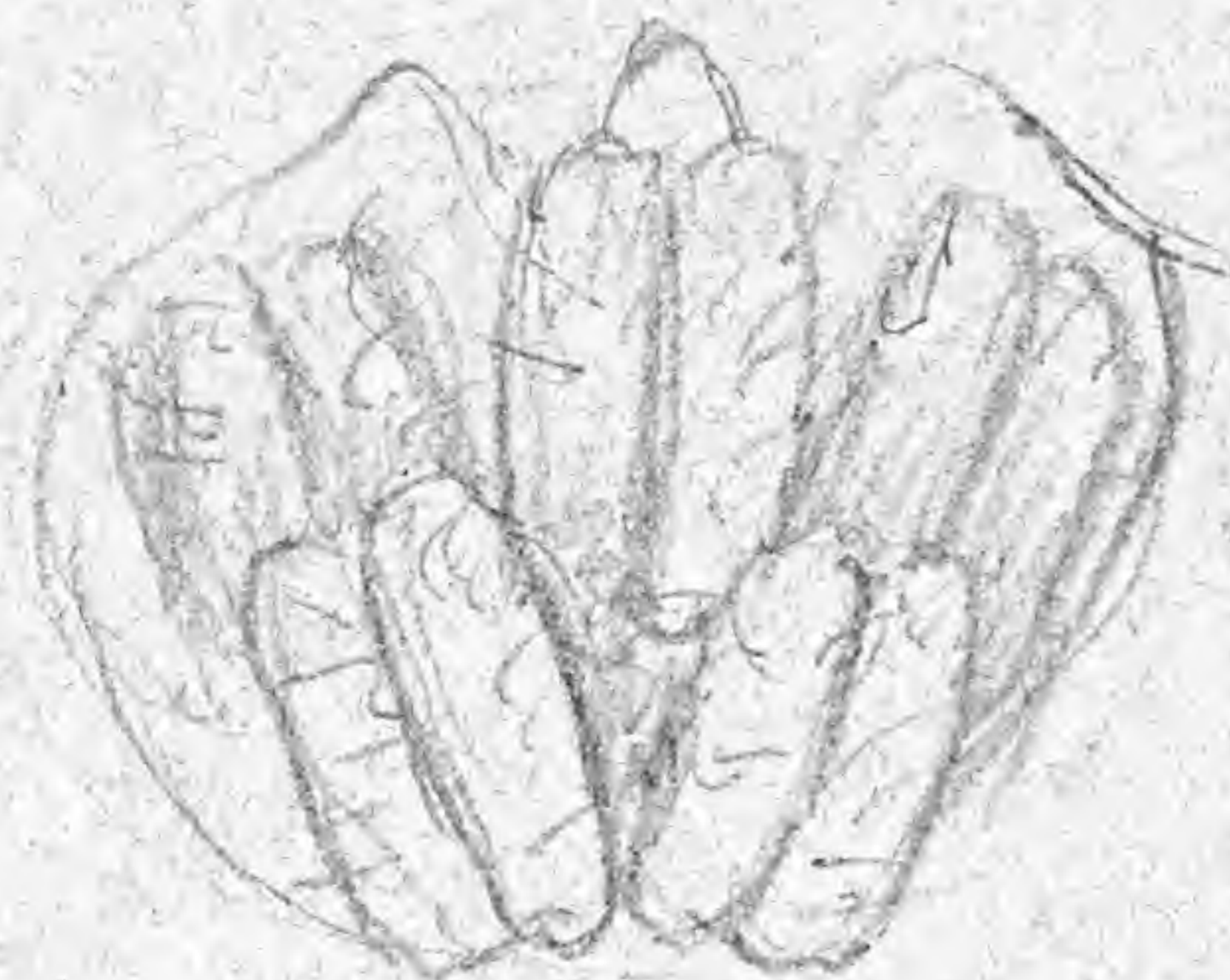
C. Lafayette Av. St Louis

terminal leaflets broad ovate, subpetiolate, acuminate

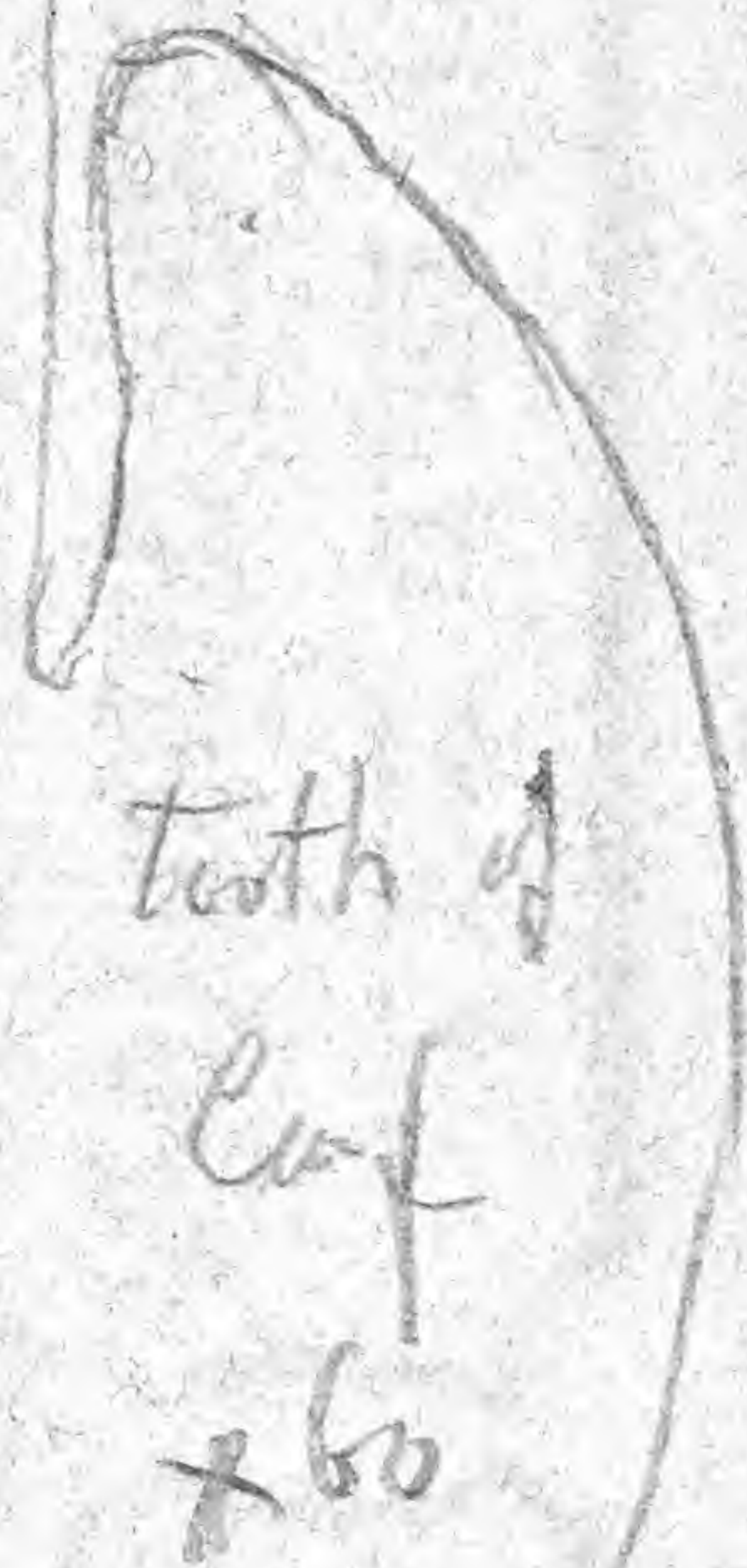


scales abundant
on lower side of young leaf

x10



mostly 5 nutlets



0 1 2 3 4 5 6 7 8 9 10

cm

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CHEMIST

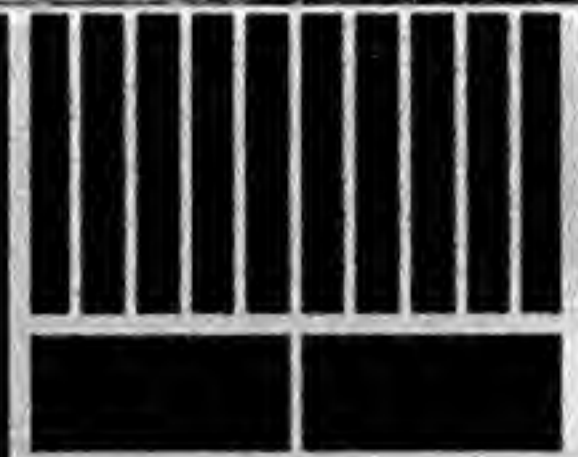


ALEX. LEITCH,
APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES
CONSTANTLY ON HAND



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0 1 2 3 4 5 6 7 8 9 10

cm

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May 11 1876

Carya alba

f. Lafayette from Illinois
Terminal leaflet pinnatifid

stellate

scale & hairs on lower surface x60



tooth of leaf

x60



hairy anther



x10



0 1 2 3 4 5 6 7 8 9 10

cm

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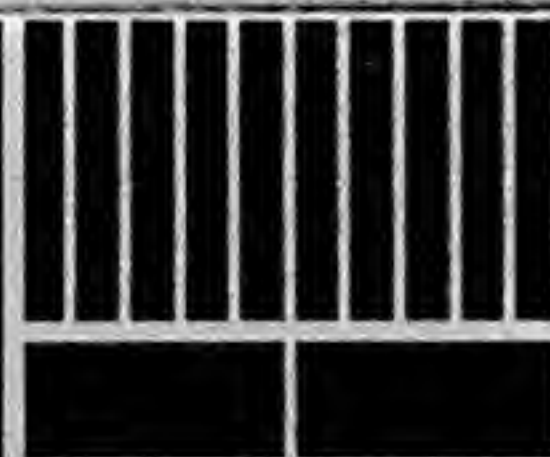
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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

May 11 1876

Carya alba

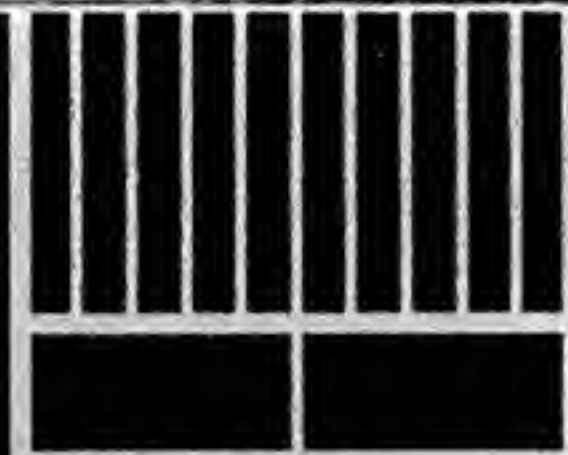
e. Lafayette Av. St. Louis -

terminal leaflet subsessile

 scales x60
small, very deciduous



4 or sometimes 5
anthers



0 1 2 3 4 5 6 7 8 9 10

cm

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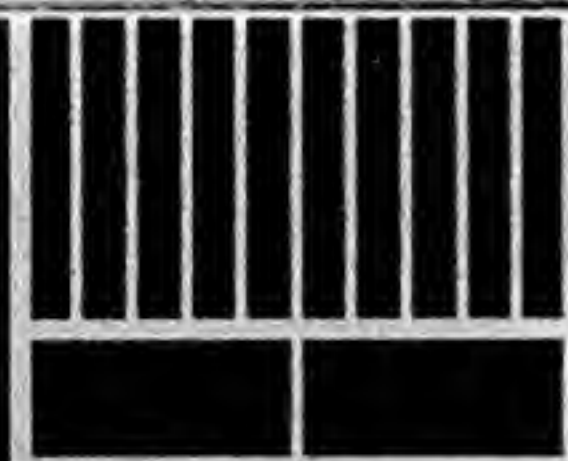
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0 1 2 3 4 5 6 7 8 9 10

cm

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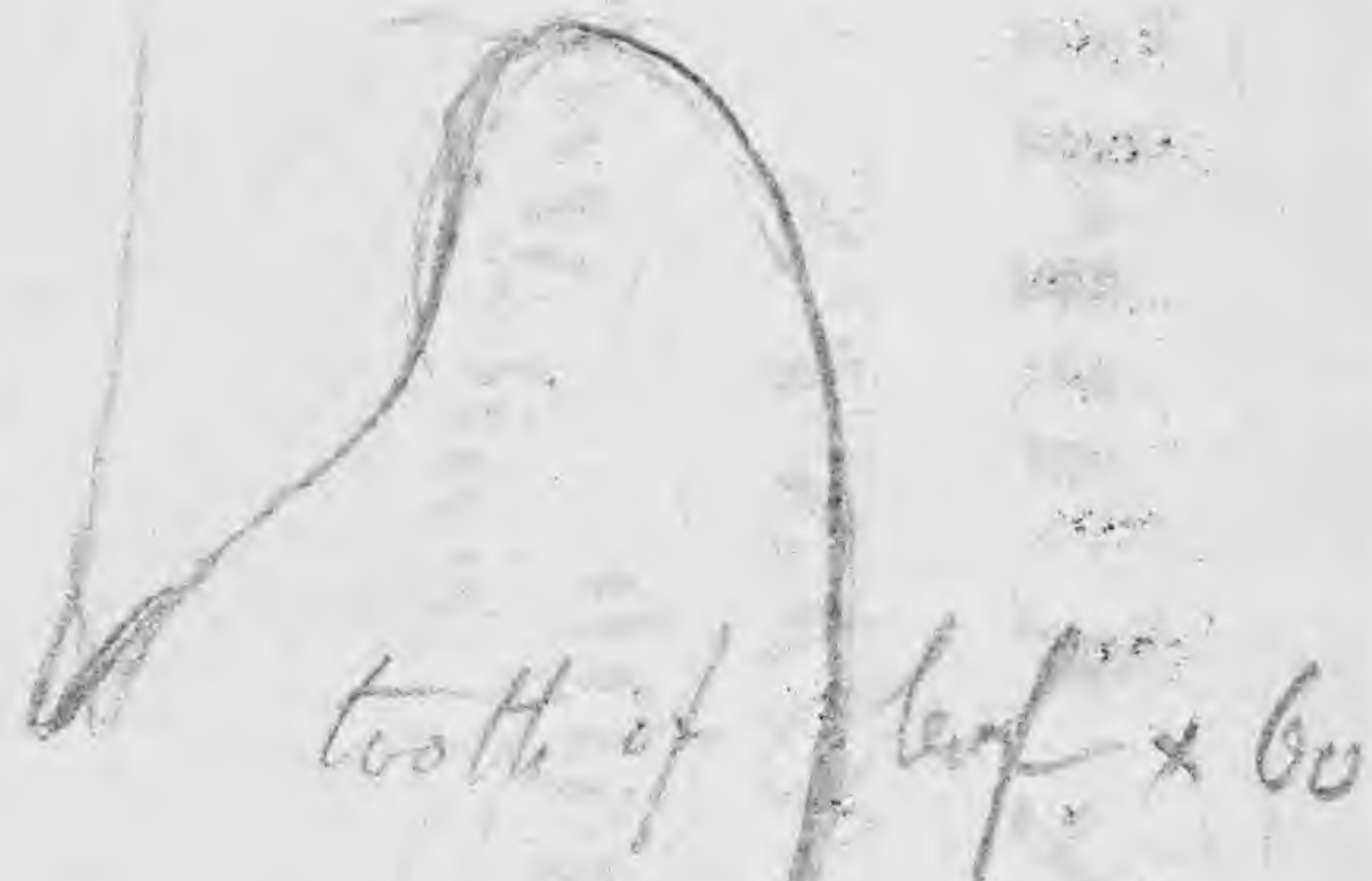
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May 11 1876

Larva porrina

D. Lafayette Ave. Missouri

terminal leaflets elongate - subpetiolated



0 1 2 3 4 5 6 7 8 9 10

cm

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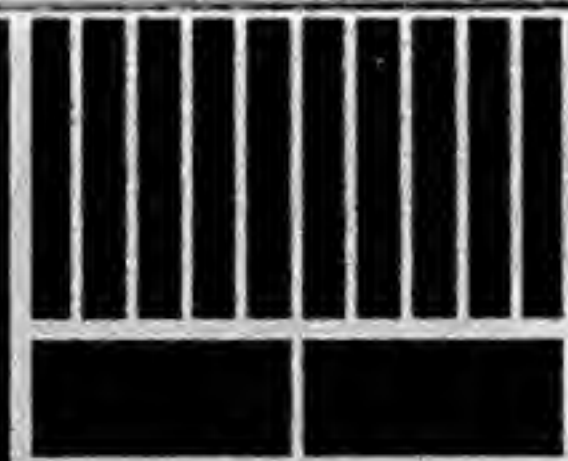
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0 1 2 3 4 5 6 7 8 9 10

cm

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Carya porriana

11 May 1876

W.B. Lafayette Avenue, St. Louis

very often 5-leaved

scales on under side
of leaf

same in transmitted light

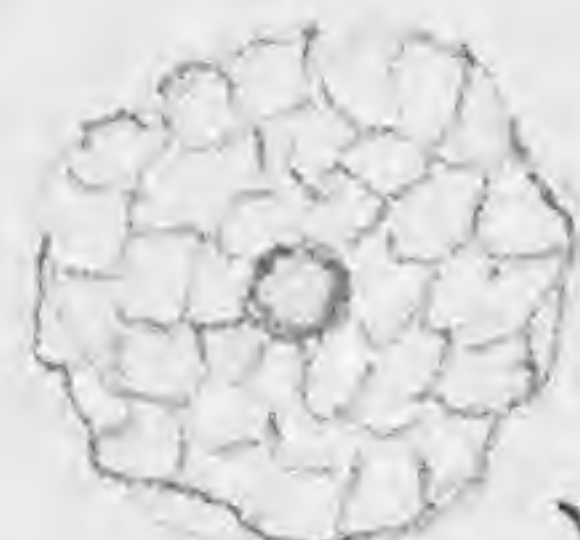


scales on the under side
of leaves x60



very often 4-rayed

x60



larger ones
consisting of many
cells

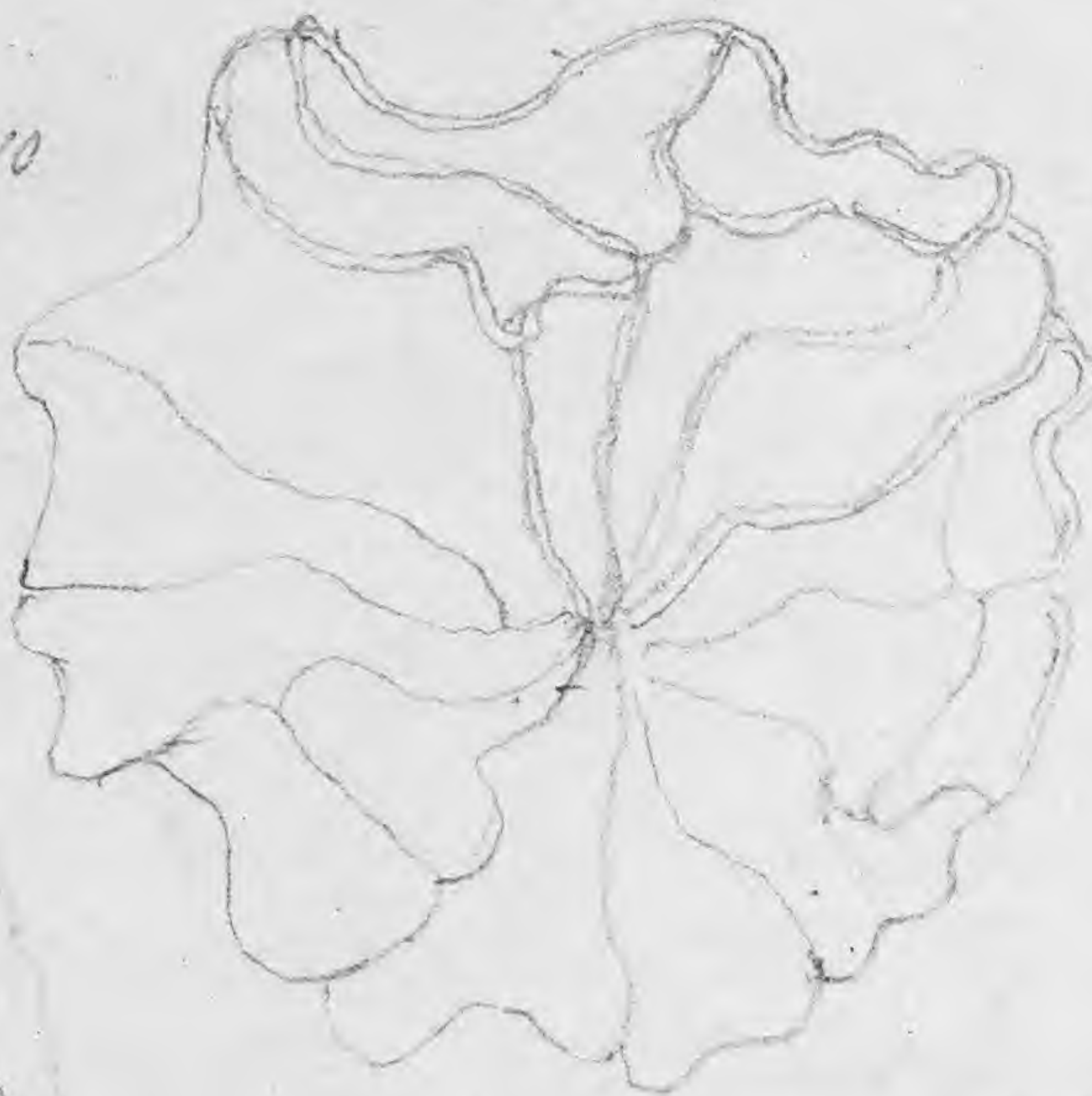
x280

x10



x10

often 6 anthers - very hairy
lower bract shorter than
lateral, or longer



part of
same

x280

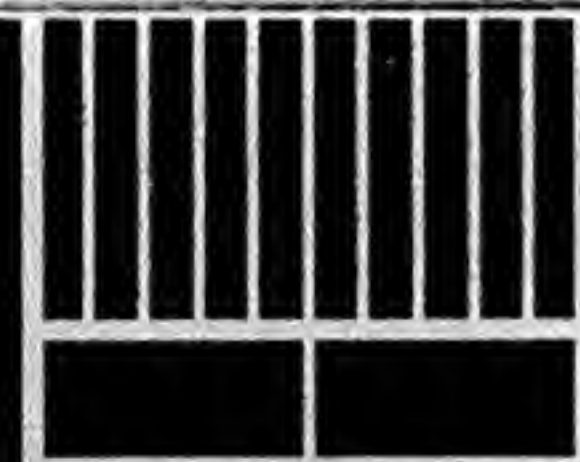


teeth of leaf

x60



x280



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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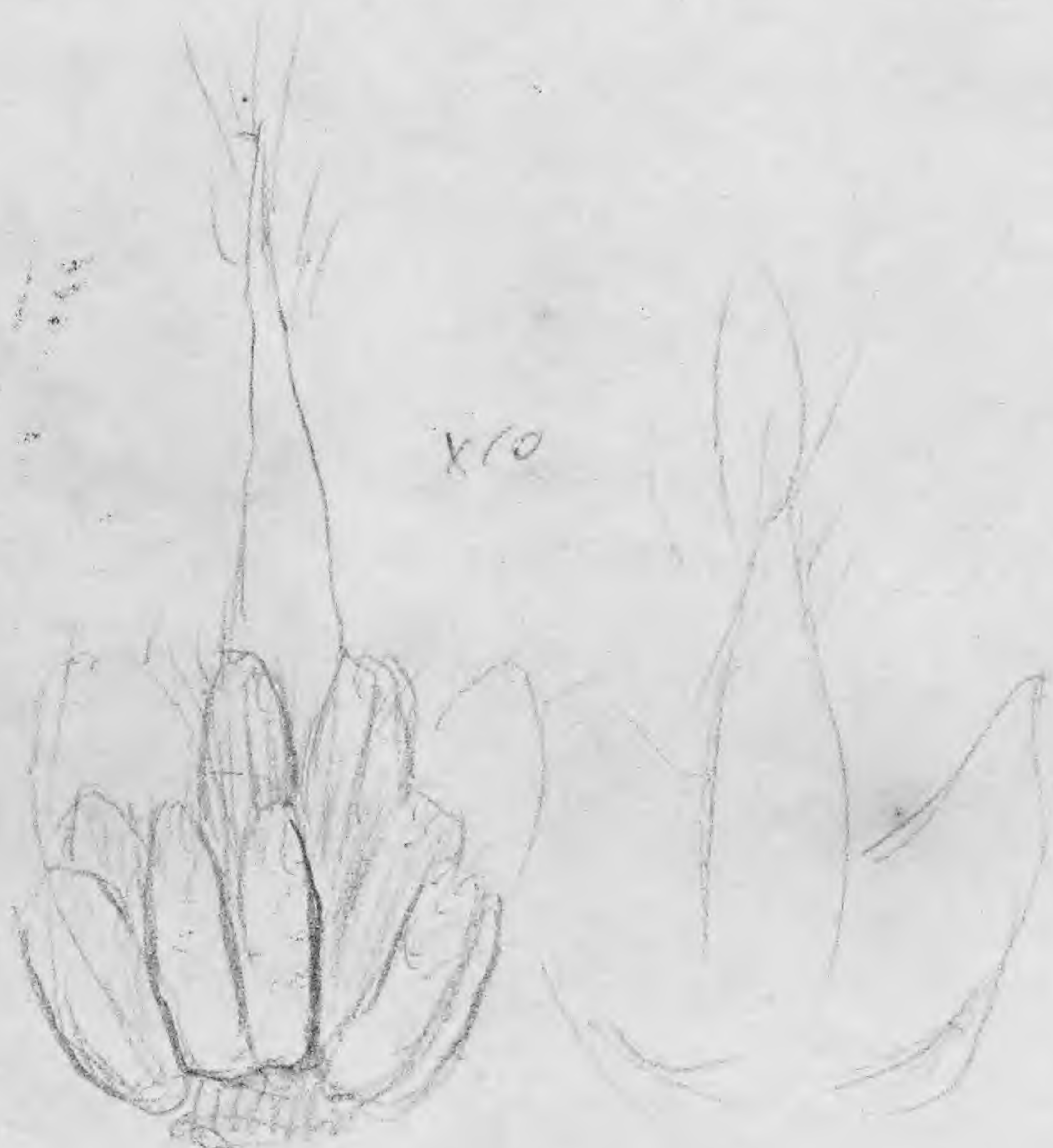


MISSOURI
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3

C. selovata
Allenton 14 May 1876

May 16 1876
Letterman



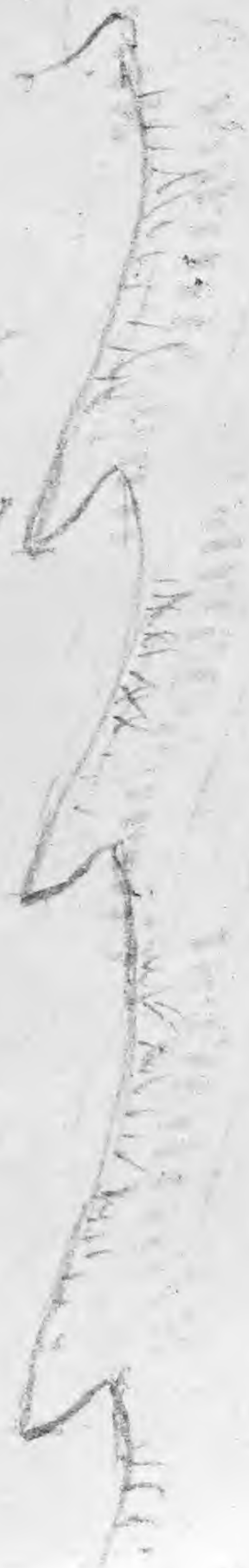
4 anthers

x60



scales of lower
side of leaf
small & sparing

x10



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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X

C. tomentosus

May 16 1876

Allen to 14/5 76 Letter

x60



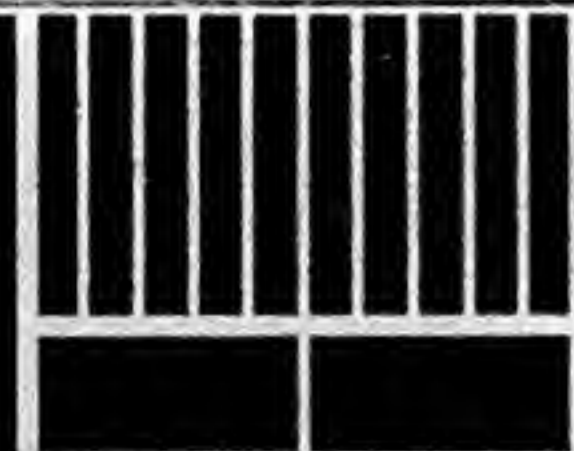
scales of lower side
small, angular,
sparse



x10



basal bract as
long or shorter
than lateral



0 1 2 3 4 5 6 7 8 9 10

cm

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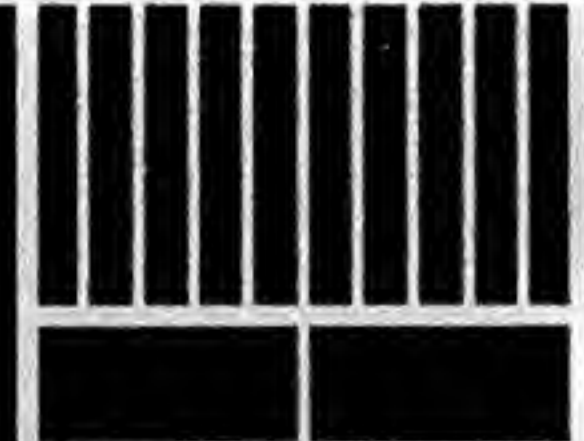
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0 1 2 3 4 5 6 7 8 9 10

cm

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C. Tomentosa
Lithium, Allenton 14 May.

May 16 1876



x10

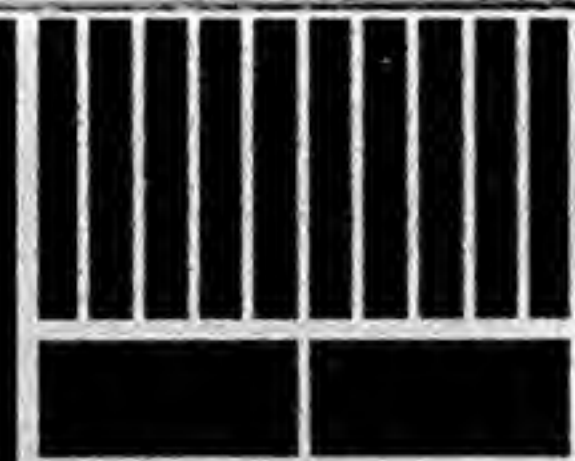


x60

scales & hair of
lower side



x10



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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May 18 1876

C. porrina

allerton 14 May, Letterman

long bract

x10



x60



scales on lower side



0 1 2 3 4 5 6 7 8 9 10

cm

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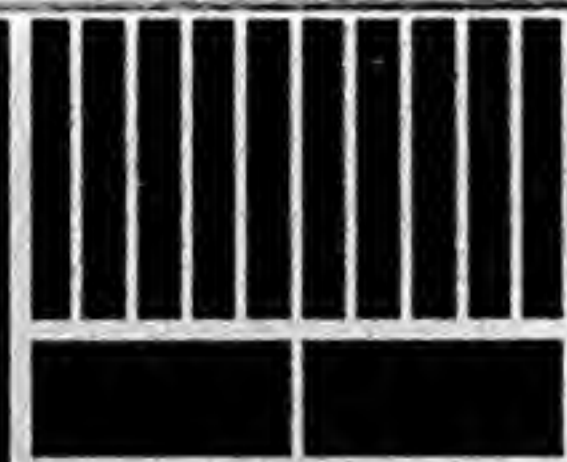
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Streets.

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0 1 2 3 4 5 6 7 8 9 10

cm

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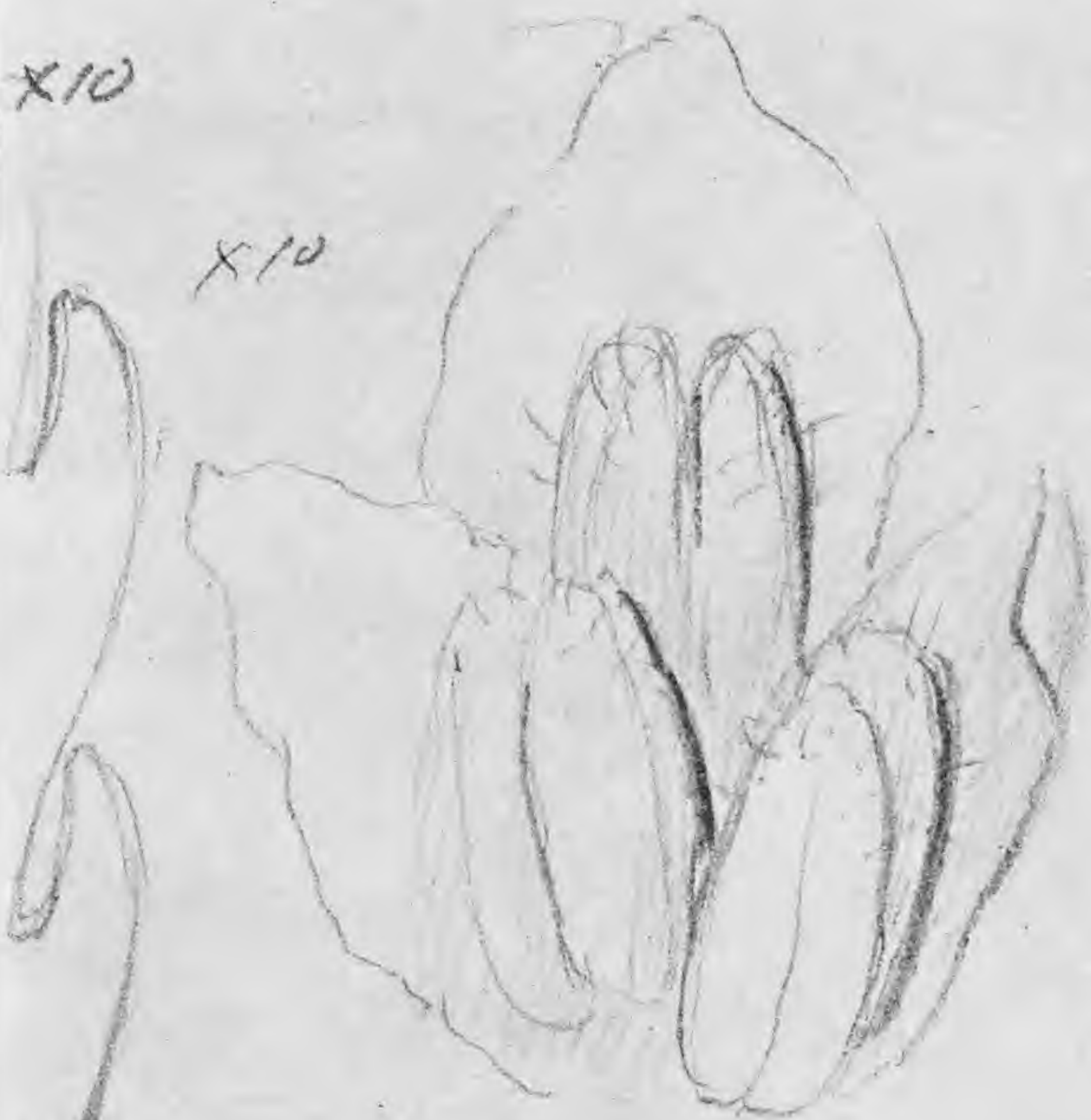
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Carya amara

May 15th 1876

Atlanta May 14th

x10



x10

x10



margin of anther,

old leaf

x10



x10

4 anthers in 2 pairs

3 or 4 anthers

bracts almost glabrous

3 anthers



sect of petiole
of lower leaf
x10



sect of petiole
of upper leaf
x10

margin of leaf



x60 scales

on lower side

in some species all scales
are large and abundant

in others they are smaller



irregular

and sparing

x60



0 1 2 3 4 5 6 7 8 9 10

cm

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cm

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