



GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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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.*

Juniperus California, Monte Diablo

J. G. Stebbins April 1878

3½ feet diameter at base and
only 12 feet high!



0 1 2 3 4 5 6 7 8 9 10

cm

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BOTANICAL
GARDEN

will number the Blanks consecutively as received, and bring them before the *Standing Committee* for action at the next regular committee meeting after receipt. He will then endorse the action of the Committee on each blank, and give them to the *Permanent Secretary*. The names of members elected will be published in the daily programmes. New members, if present, are expected to call at the desk of the Permanent Secretary for their tickets. Copies of this blank will be furnished by the Permanent Secretary on application.—F. W. PUTNAM, *Permanent Secretary, Salem, Mass.*

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My specimens of Juniperus Calif.

- Bridges 291 ~ Mt. Kew
Bolander & Heller Bear Valley.
Lobb. 438
Parry 1850 San Felipe
Fremont 2^d Cap.
Bear Mountain Torrey
Brown 791 New Idria
" 792 " "
Pursh 91 Guadalupe Island
W W Hays Santa Lucia Mts
Greene 688 Yoano
Brown 110 San Gabriel
126 "
127 "
110 - 112 "
840 Mt. Field



0 1 2 3 4 5 6 7 8 9 10

cm

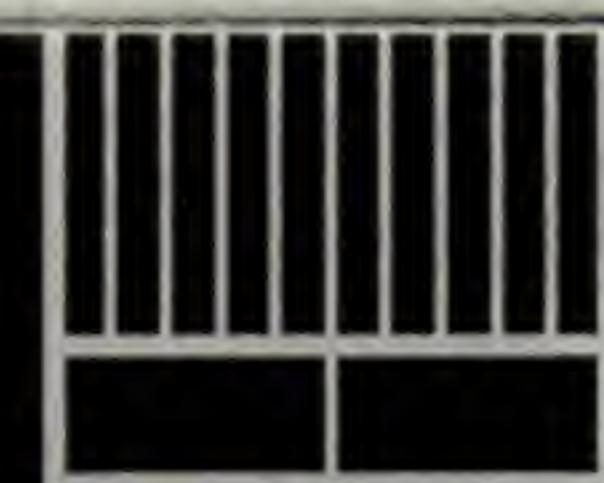
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cm

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J. californica Carr. (~~Bent. 3. 352. (1853); Conif. 58~~) *occidentalis*, ~~in part~~
~~Parlat. in St. Prog. 16.2. 190.~~



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cm

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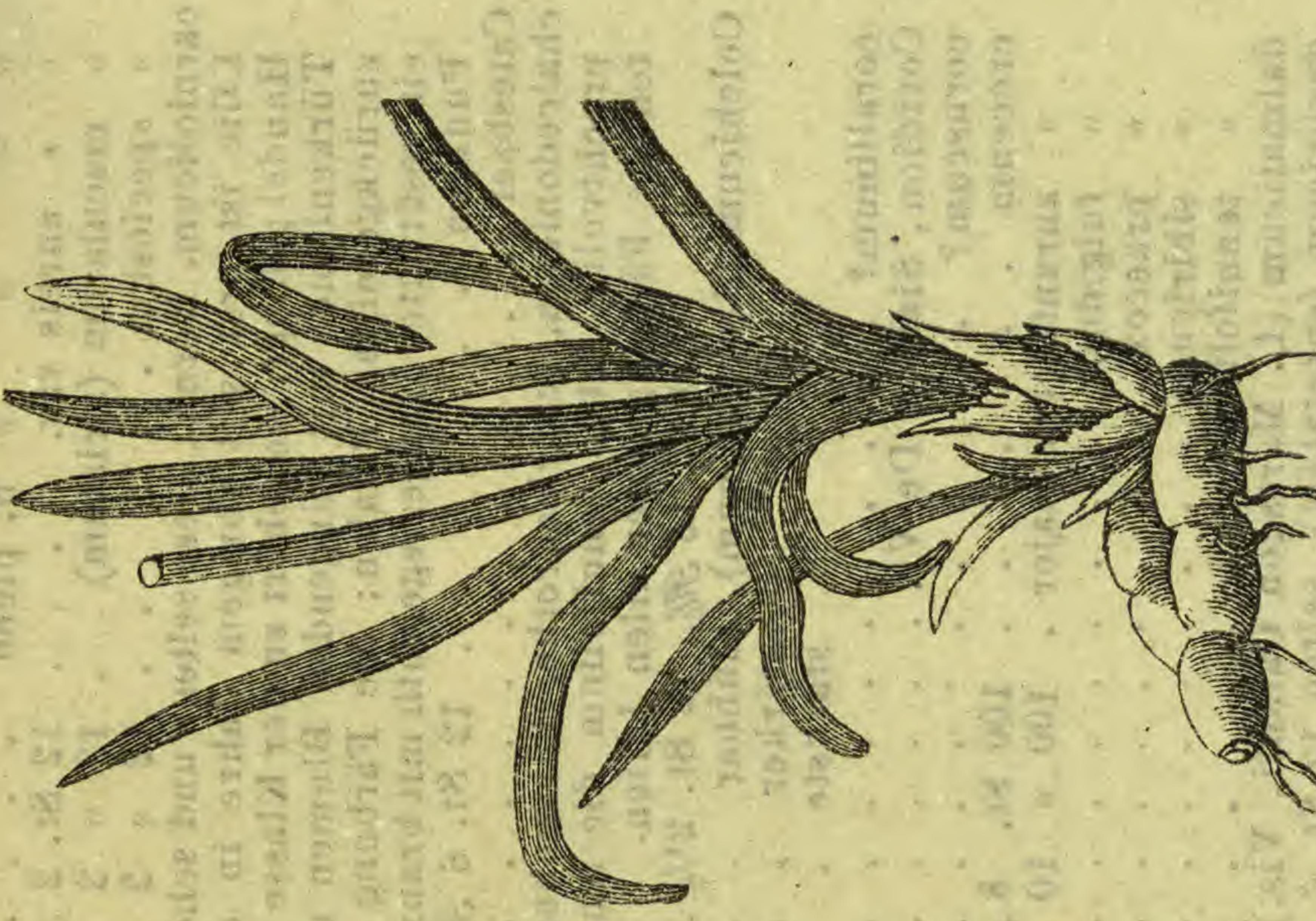
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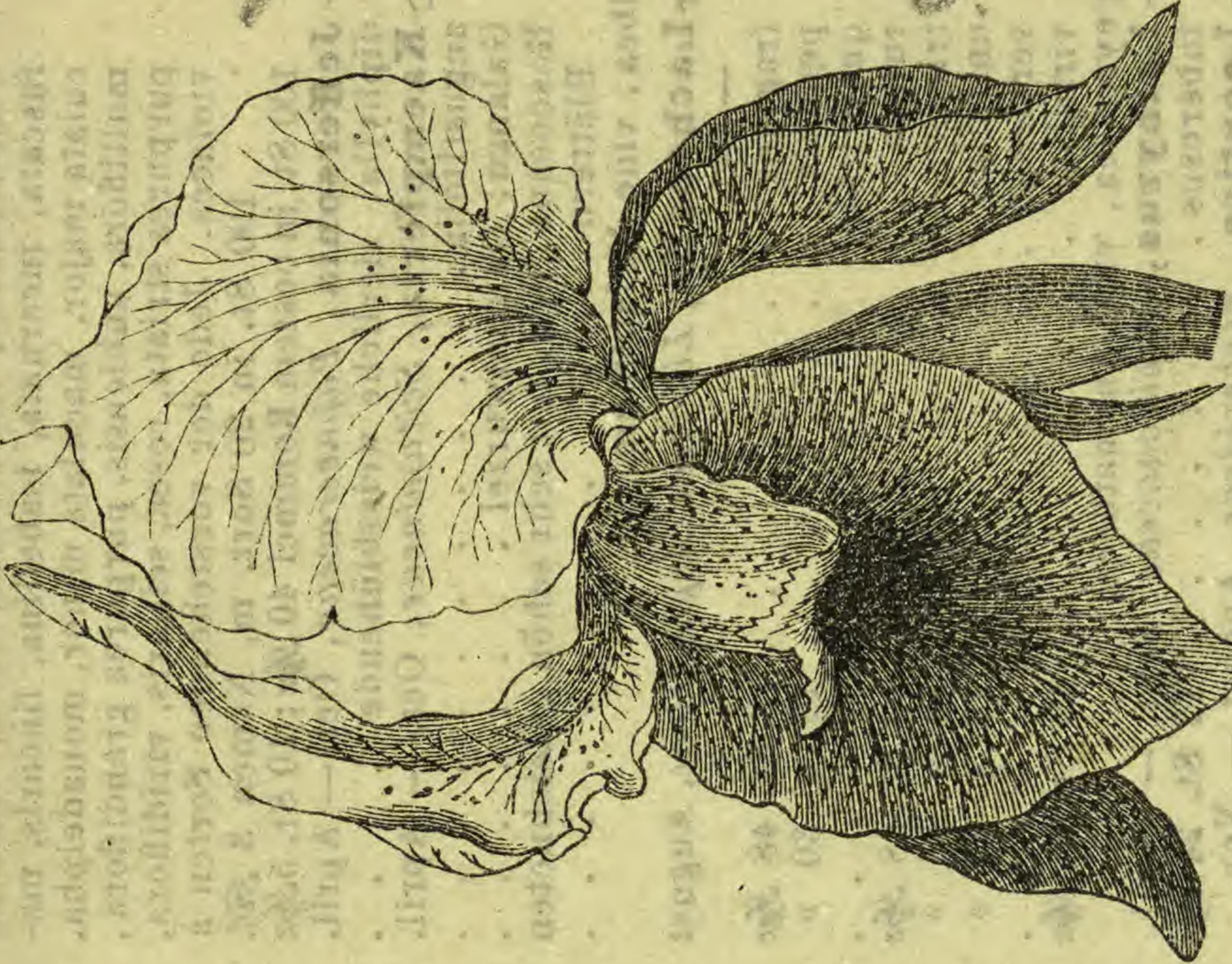
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Hymenocallis	— <i>Hyoscyamus</i>, Solanaceae, Sept. — April.
orientalis, schöne purpurrosa Blumen	6
Scopolia	4
— <i>Hypoxis</i>, Liliaceae - Hypoxidaceae, Sept. — Nov.	
<i>breviscapa</i>	8
<i>erecta</i>	6
<i>sobolifera</i>	6
<i>stellata</i>	6
<i>villosa</i>	12

b. Species mit feischigem Wurzel-Rhizom,	Sept. — April.
— fürs freie Land ohne Bedeckung:	
<i>albiensis alba</i> , schön	4
<i>coerulea</i> , schön	4
<i>pumila</i>	6 Stück 20 Lgr.
<i>aurea</i>	4
<i>californica</i>	6
<i>erratica</i> , schön	12
<i>dorentina</i>	4



Iris iberica.



Calopoma var. II Takey



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cm

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Dumijon California
var

July 17 1874

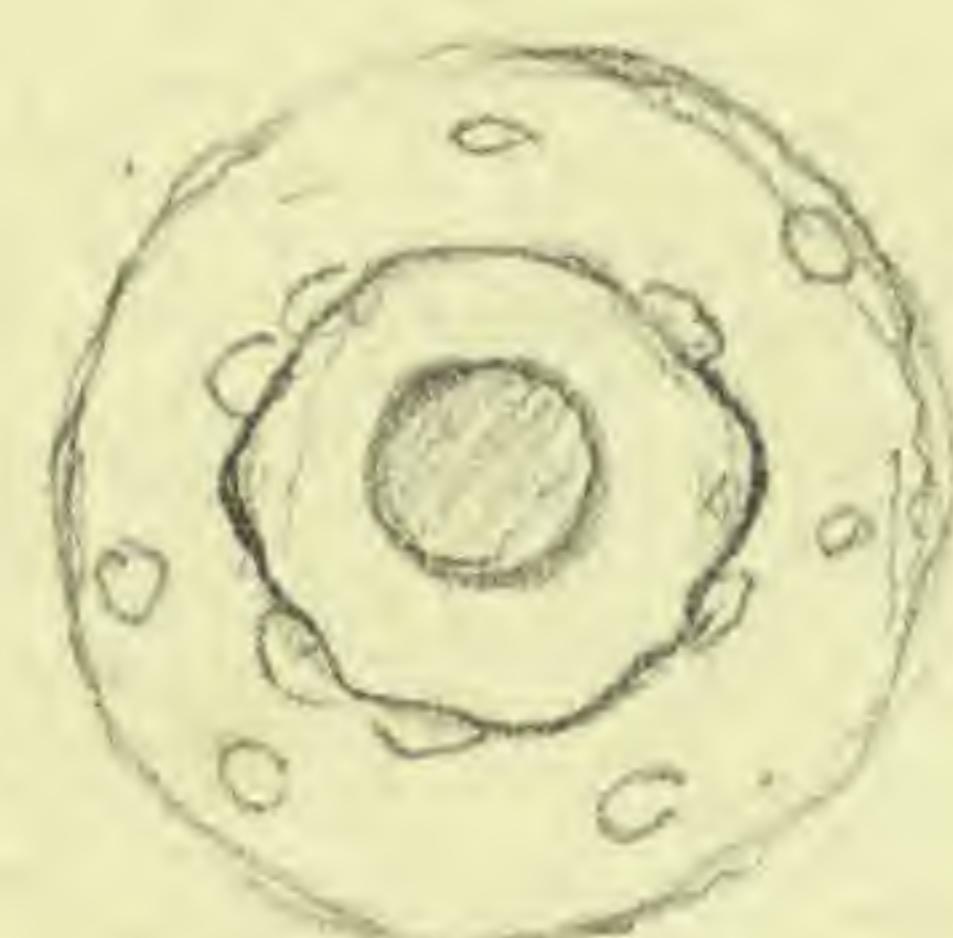
most buds
with 4, a very
small one with
3 Cotyledons

x2



bud

x2



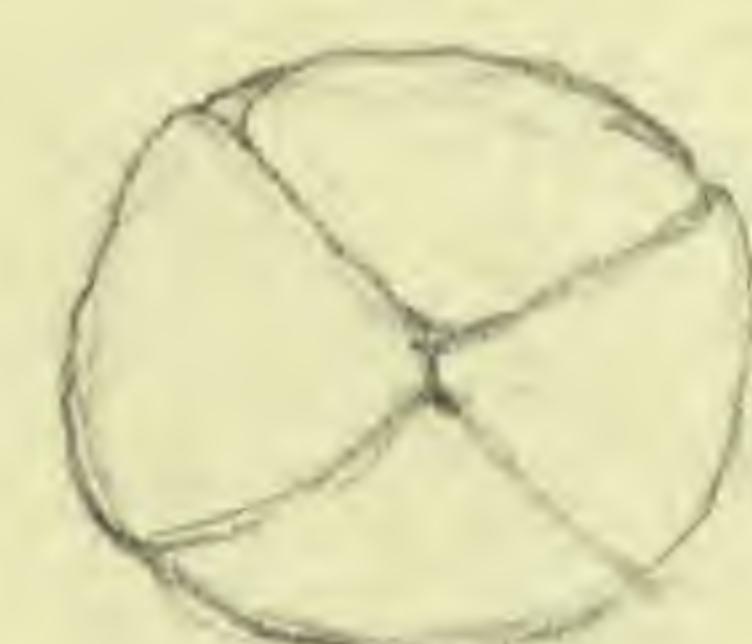
section of
berry

x2



scales in 3
open = 2⁵.

x10



top view

Cedar City Utah

& Parry July 6th



0

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3

4

5

6

7

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9

10

cm

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R. C. HARRISON,
508 Leffingwell Avenue,
Fruggist & Pothecary

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0
cm

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G. F. ENGLEMAN, M.D.,
3003 Locust Street.

Isomijum Calif?

June 13 1877

leucodermis

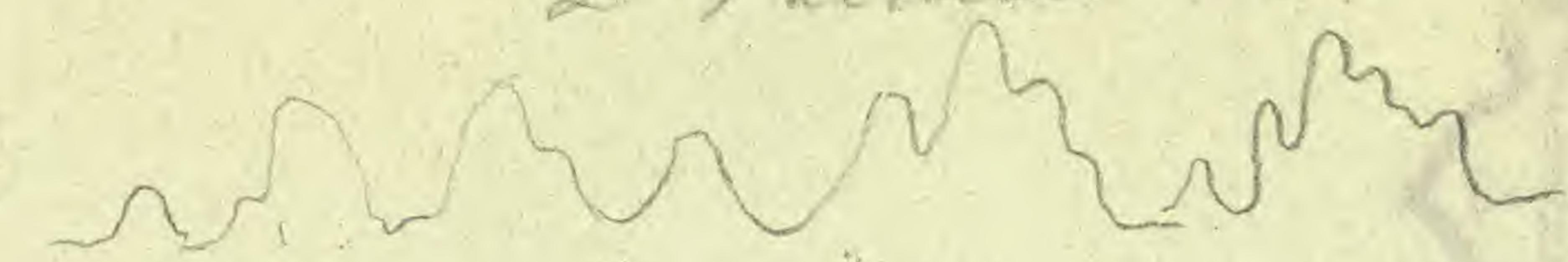
& Palmer Utah May 1877

x7

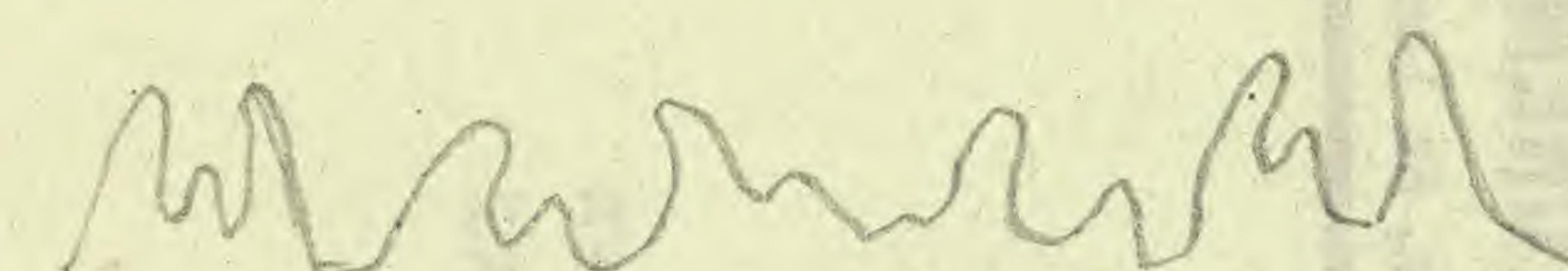
x2



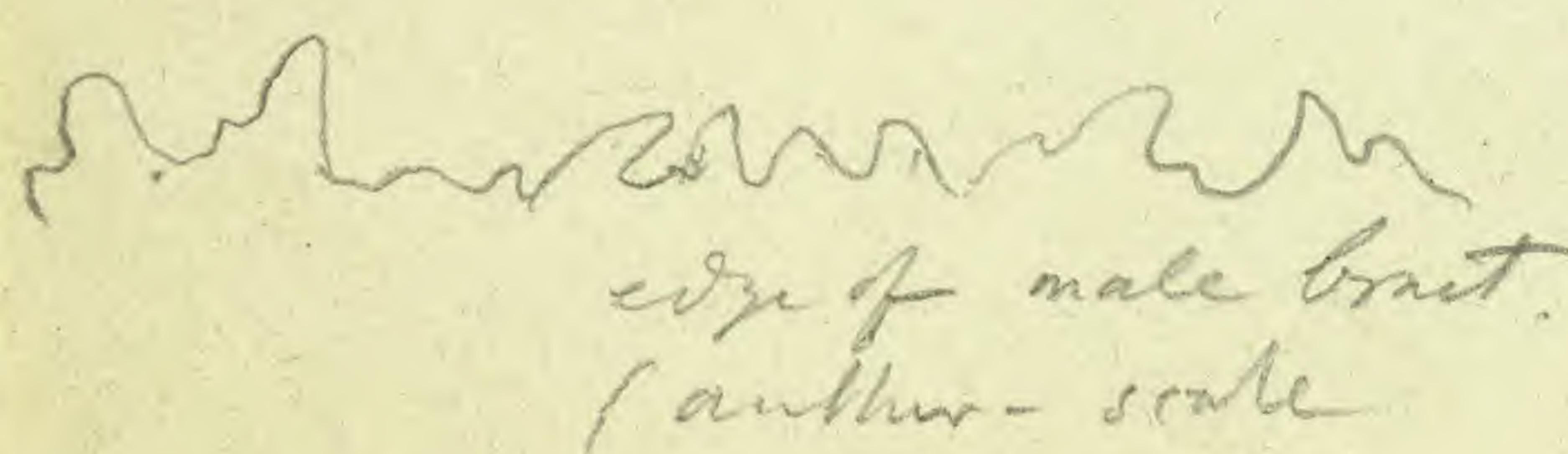
four forths, 2 and 3-nerved,
varicose,
scales very knobby
sharp.
single large seed



x2



edge of leaf



edge of male bract.
(anther-scale)



The leaves of Utah
City & Palmer May 2nd
1877. are similar, same
edge - in 3 ⁵ in 2
first larger, not knobby
seed the same



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cm

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100

106

X " 1136

107

X " 1186

X " 1208

In these, L. stansii is the great oak of
the valleys, usually with broad leaves and
majestic appearance -- what I here call
L. Garryana is perhaps L. Doylei, has
bark much thinner than the last and
grows on a drier soil - more thin on its
out-holes -



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cm

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Junip Californiae? up to alt. of 2000 feet 18-15 feet
high, often 30 feet high. Trunk at base up to 3 feet or
more, branching from base, wide head, 20-60 feet diam.

North Table Range, Brewer May 1862

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P. Balfouriana on high granite hills to the Mokelumne River

Brewer Aug. 1863

on granite peak Aug 20 1863 *P. Balfouriana* as much
as 5-6 feet diam. — *P. albicans* goes higher up

W H Brewer



0
cm

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Diverse Blumenzwiebeln, Wurzel- und Knollengewächse.

Iris	à Stück	Fr.
foetidissima	12 Stück	15 Fr.
» fol. arg. vittatis	8	2
fureata, schön.	12 St.	15 Fr.
» fl. albo	12 »	20 »
germanica	3	3
1 Sortiment von 50 Prachtsorten	5 Fl.	
1 » 25 » 2 »	2 »	
1 » 12 » 24 »	2 »	
in schönem Rommel	100 St.	2 Fl.
graminea	4	
Güldenstädti	12 St.	20 Fr.
laevigata	3	
pallida (odoratissima)	8	6
Pseudo-Acorus,	6 St.	24 Fr.
pulchella	4	
pumila in 6 verschiedenen Farben.	10	
alle 6 Sorten zusammen	4	
» im bestem Rommel	100 St.	2 Fl., 10 St. 8 Fr.
ruthenica	6	
tridentata	20	
variegata, reizend	4	
versicolor	6	
Δ für's freie Land während des Sommers, frostfrei zu überwintern oder gut zu decken.		
constantinopolitana	6	
confinbriata (Moraea), sehr schön	6	
japonica	8	
Colonia, dunkelviolett	20	
Leona, milchweiss m. helllilla gefleckt	20	
Lutetia, weiss, lilla geadert mit lebhaft blauem Fleck	20	
Massalia, bassillia mit dunkel viol. Fleck	20	
Psyche, dunkelviolettm. weiss geadert	20	
Thalia, hellviolett, einfarbig	20	
ibérica (Oncocyclus)	15	
in südneben Iris susiana, die schönste und auffallendste aller Iris.	20	
Kaempferi	4	
longipetala (Californien)	12	
odoratissima Jacq. (pallida, Lam.)	6	
susiana, Dame in Trauer, reizend schön, sehr rar geworden.	15	

Leontice	à Stück	Fr.
Rauwolfii, vide Bongardia.	8	
thalictroides, vide Caulophyllum.	2	
— Leucocoryne, Liliaceae-Hemerocallideae,		
odorata, Lindl. Spätherbst.	12 St. 4 Fl.	15
— Leucojum, Amaryllideae, August — Oct.	100 St. 2 Fl.; 10 St. 8 Fr.	
pulchellum	4	
» majus	8	
vernun, grosses Waldschneeglöckchen	8	
— Liatris, Compositae, Oct. — April.	1000 St. 12 Fl.; 100 St. 1½ Fl.; 10 St. 6 Fr.	1
elegans	8	
macrostachya	8	
pumila	8	
pycnostachya	8	
Elegante meist purpurroth blühende Zierpf.		
— Libertia, Irideae. In Töpfen das ganze Jahr.		
azurea	8	
floribunda	8	
formosa	8	
grandiflora	8	
pulchella	8	
tricolor	8	
— Liliorhiza, Liliaceae-Tulipaceae, Aug. — Oct.		
lanceolata, ein zierliches, den Fritillarien nahe stehendes Zwiebelgewächs aus California; die hängenden Glockenblumen haben eine grünlichgelbe Färbung	50	
— Lilium, Liliaceae-Tulipaceae, Sept. — Nov.		
auratum	—	
Zwiebeln. Grösse (4—6 Blumen) 12 St. 12 Fl.	40	
» 2. » (2—4 ») 12 » 10 »	30	
» 3. » (1—2 ») 12 » 7 »	20	
Die jetzt für Herbstversendung offerirten auratum sind bei uns cultivirte Zwiebeln, ganz frisch und gesund.		
auratum rubro-vittatum à Stück 14 Fl.	—	
» virginale à » 14 »	—	
Brownii	20	
bulbiferum	20	

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cm

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Diverse Blumenzwiebeln, Wurzel- und Knollengewächse.

13

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Hepatica	a Stück \mathfrak{H} .	\square Imantophyllum (<i>Civita</i>), <i>Anarylideae</i> , in Töpfen zu jeder Zeit verdaibet \mathfrak{H} .
triloba (Anemone Hepatica), Leberblümchen, före coeruleo simpl.,	Aitoni fl. rubro	Stück \mathfrak{H} .
1000 St. 15 \mathfrak{H} ; 100 St. 50 \mathfrak{H} .	cyrtanthiflorum.	30
6 St. 4 \mathfrak{H} .	Gardneri	2—10 \mathfrak{H} .
" coeruleo pleno	miniatum	4—10 "
" albo simpl.	nobile	30
" lilacina maxima	"	20
" rubro simpl. 100 St. 4 \mathfrak{H} . 12 " 30 "	"	60
" pleno	superbum	4
" 12 " 40 "	\square Imperata , <i>Gramineae</i> , Oct. — April.	—
Hermione, vide Tazetten Seite 3.	sacchariflora	4
\square Hesperantha , <i>Irideae</i> , Sept. — Nov.	\triangle Ipomoea , <i>Convolvulaceae</i> , October — April.	4
cinnamomea	candidans, sehr hübsche mit, geringer	—
graminea	Bedeckung im freien Lande aushaltende	20
pilosa	reichblühende Species aus Nordamerika	20
Δ Hesperoscordum , <i>Liliaceae-Asphodeleae</i> ,	\square Iris , <i>Irideae</i> .	—
Sept. — Nov.	a. Zwiebel- und knollenartige Species,	—
lacteum, hübsche, weisse, Brodiaea ähnliche Blume	Sept. — Nov.	—
\square Hessea , <i>Amaryllideae</i> , Oct. — April.	fürs freie Land:	—
spiralis, zierliche weissblühende	\square anglica (<i>I. xiphioides</i>)	80
12 Stück 30 \mathfrak{H} .	100 St. in 50 Prachtsorten.	30
\square Heterotropa , <i>Aristolochiae</i> , Oct. — Apr.	25 " 25 "	30
asaroides	100 " Rommel 1 \mathfrak{H} , 10 St. 100.	4
Δ Hibiscus , Malvaceae, Oct. — April.	hispanica (<i>I. Xiphium</i>), eine der schönsten Sorten,	—
palustris, knollenartige Species mit grossen	für sich allein	14
hellrothen Blumen, schön	coerulea pallida, schön zu Gruppen	—
Hippastrum, vide Amaryllis.	für sich allein	6
\square \cong Hippuris , <i>Haloragaceae</i> , Oct. — April.	100 St. in 25 Prachtsorten	40
vulgaris, Tannenwedel	25 " 25 " 100 " Rommel 100.	20
Homeria, vide Moraea.	persica, lässt sich auch treiben	—
\square Hordeum , <i>Gramineae</i> , Sept. — März.	Joh. Janub im blühs. Jahr 100 St. 6 \mathfrak{H} .	3
bulbosum	reticulata	15
\square Hoteia , <i>Saxifragaceae</i> , Sept. — April.	für Capkasten oder Kalthaus:	—
japonica	alata (<i>Xiphium alatum</i>), zartes lichtes	—
" fol. aur. reticulatis, Blattzeichnung	Himmelblau mit feiner gelber Zeichnung, die erste Frühjahrsblume im	—
so schön wie bei Anectochilus	Capkasten 100 St. 8 \mathfrak{H} ; 6 St. 20 \mathfrak{H} .	4
\square Hyacinthus , <i>Liliaceae-Asphodeleae</i> , Sept. — Nov.	junccea	—
amethystinus	Pavonia, vide Vieusseuxia.	—
corymbosus (Peribaia corymbosa)	Sisyrinchium, vide Moraea.	—
12 Stück 30 \mathfrak{H} .	tuberosa, Blume grün mit schwarzen	—
\square \cong Ionella , vide pag. 2—4.	samtartigen Flecken, sehr distinkt	—



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cm

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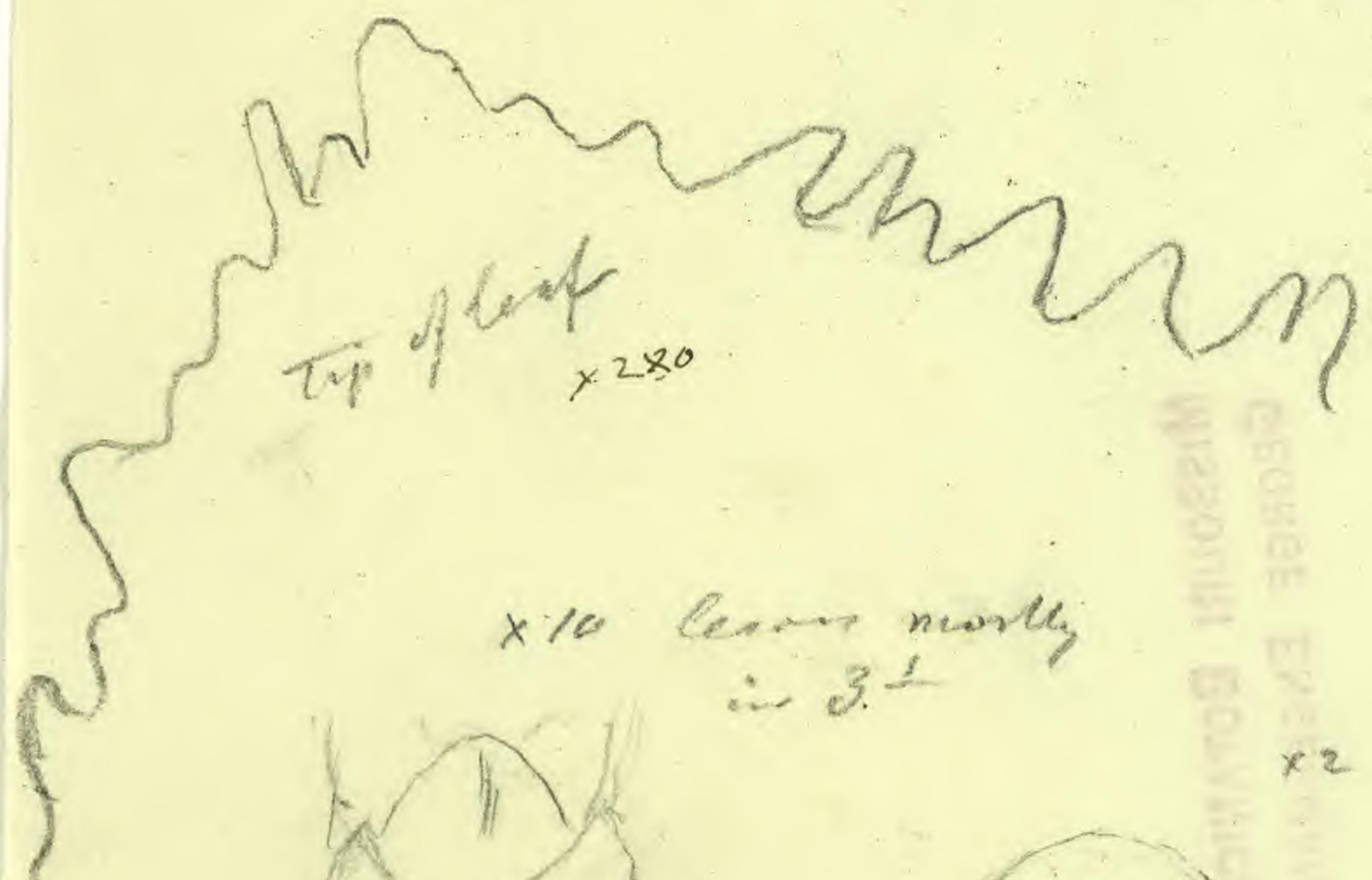
Juniperus occidentalis

Feb 12' 1874

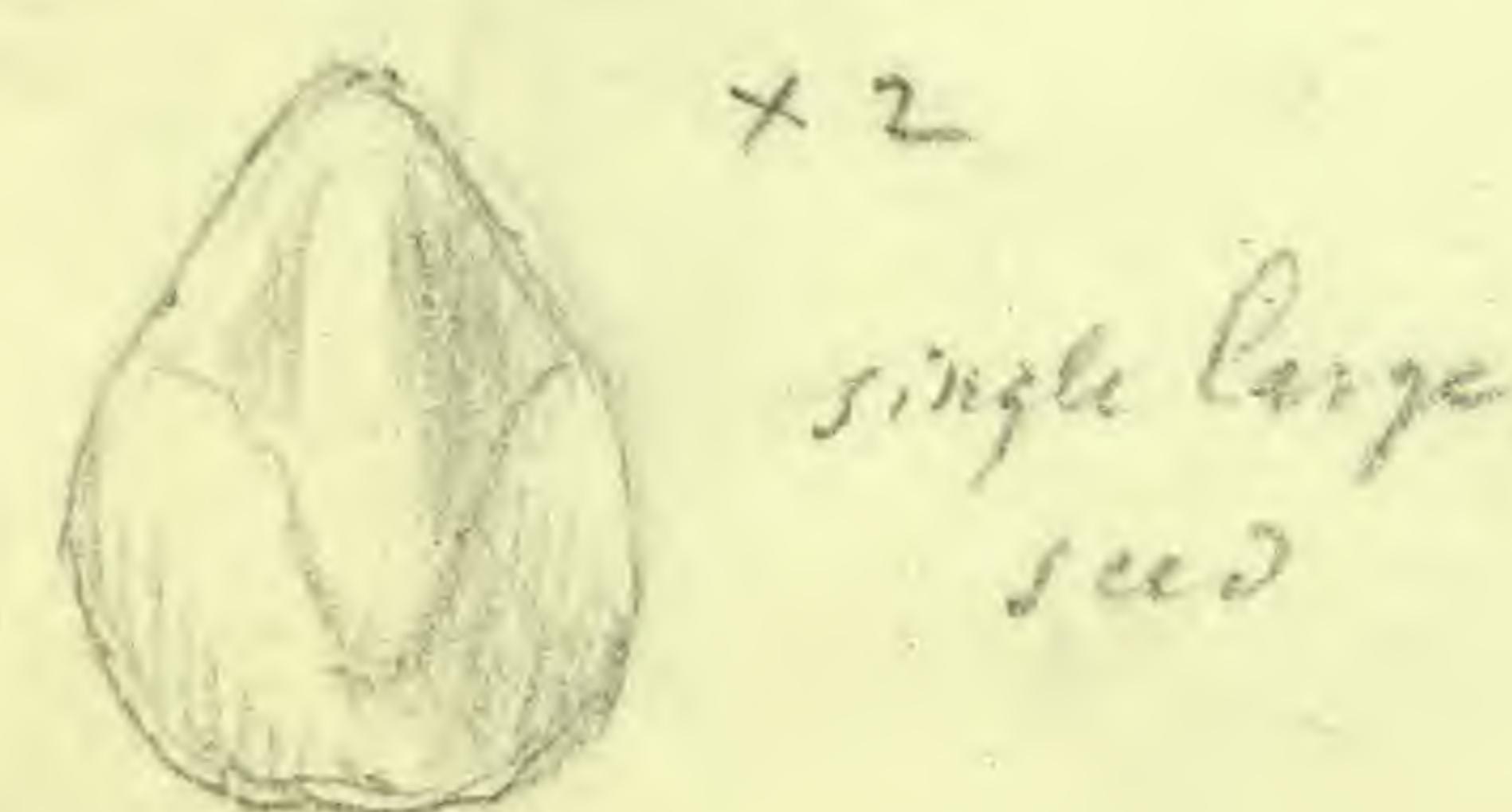
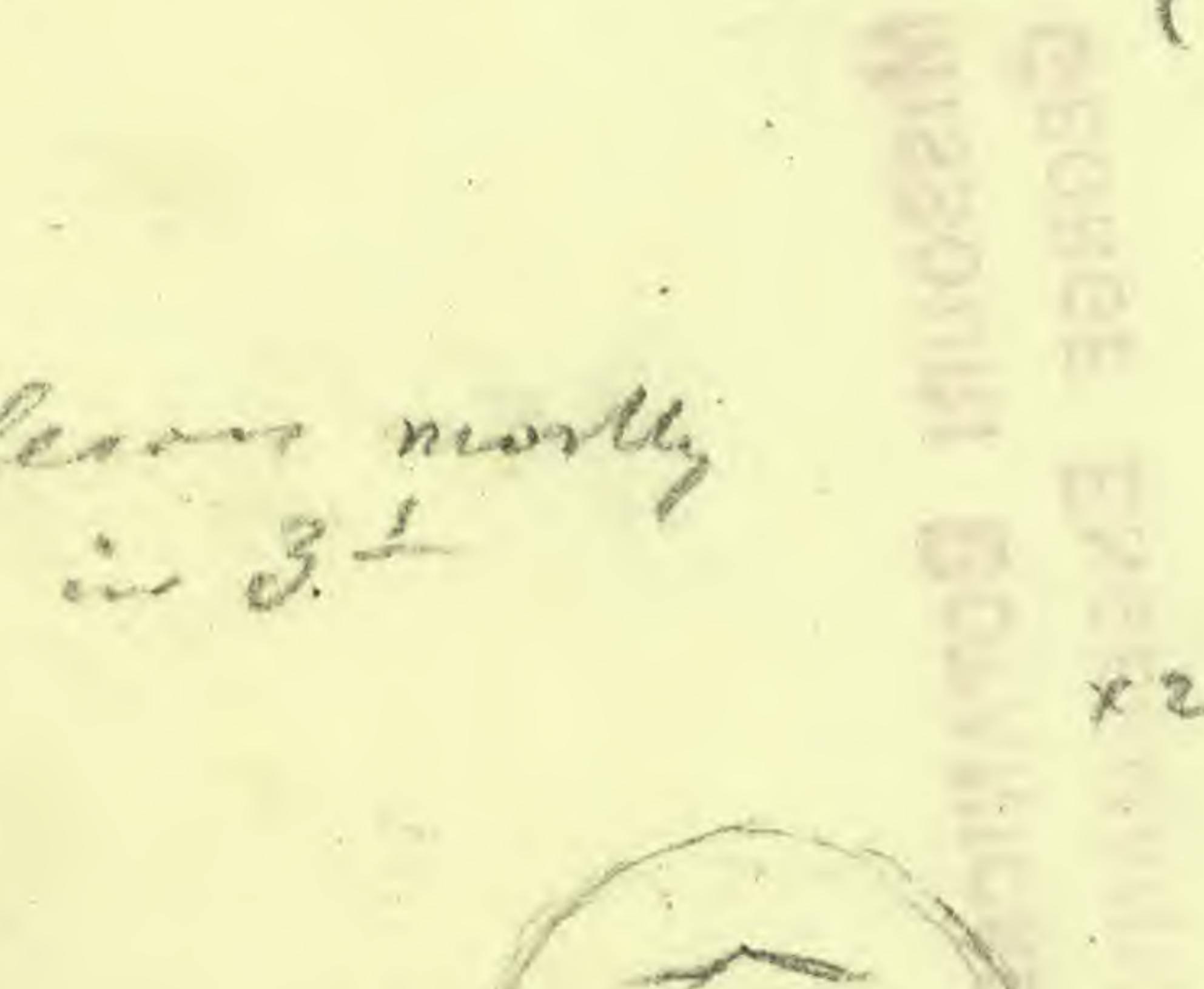
Herb Agrio. dep.

Salmon trout River [Nevada]

Forsman's Expl. Oct 1. 1845-



x10 leaves mostly
in 3's



= Camp Floyd plant

two berries preserved
detached, both with
scars in 2"



0 1 2 3 4 5 6 7 8 9 10

cm

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COR. 4TH & OLIVE STS. ST. LOUIS.

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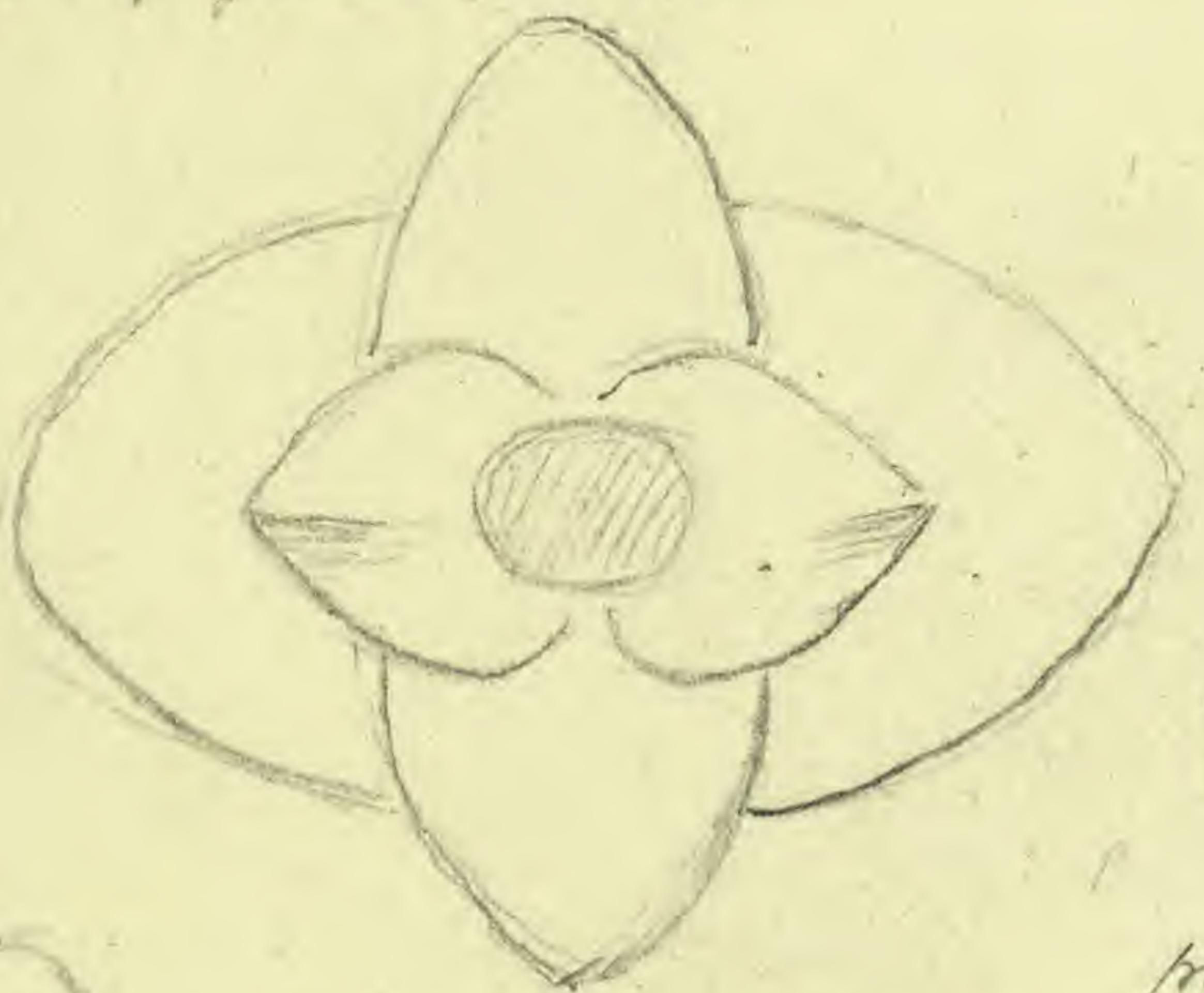
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Juniperus occid.
straight form, large berries
Camp Floyd March 1869

Jan 8 1874

H. C. Chapman

base of fruit $\times 10$



large seed
seen $\times 2$



berry $\times 2$, with 4 knobs
(tips of scales opposite)
leaves of branchlet $\pm 2^{\circ}$

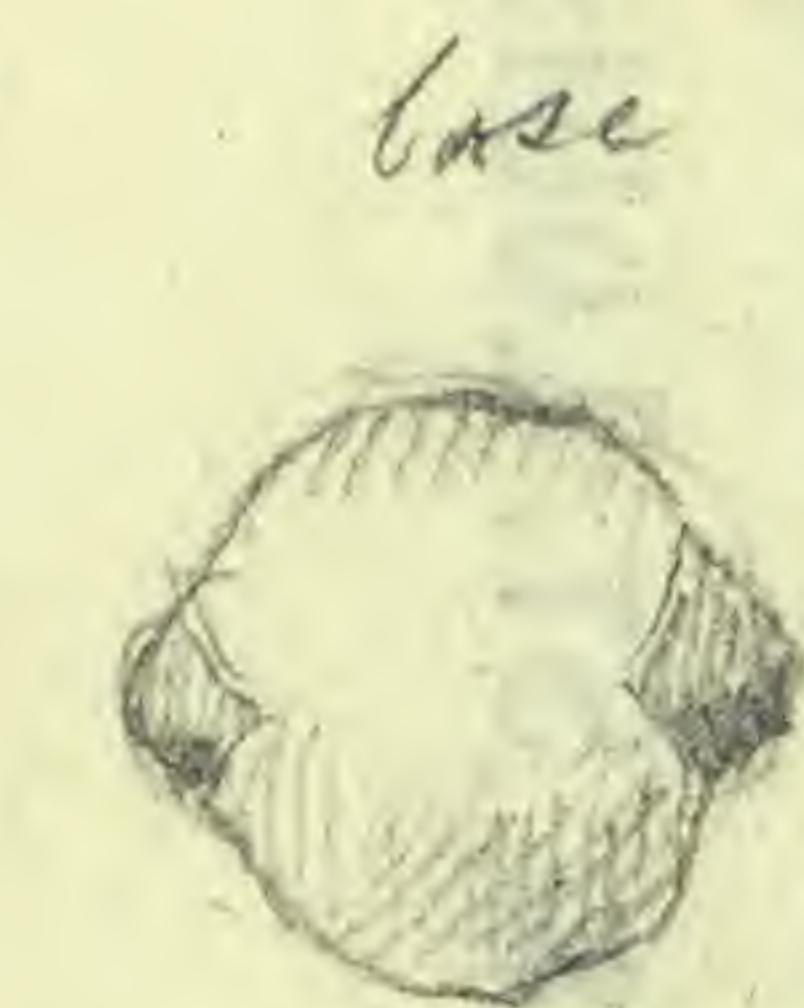
seed $\times 2$



scat of
berry



spike dull
triangles



base



top

scat. of 2 seeds fruit



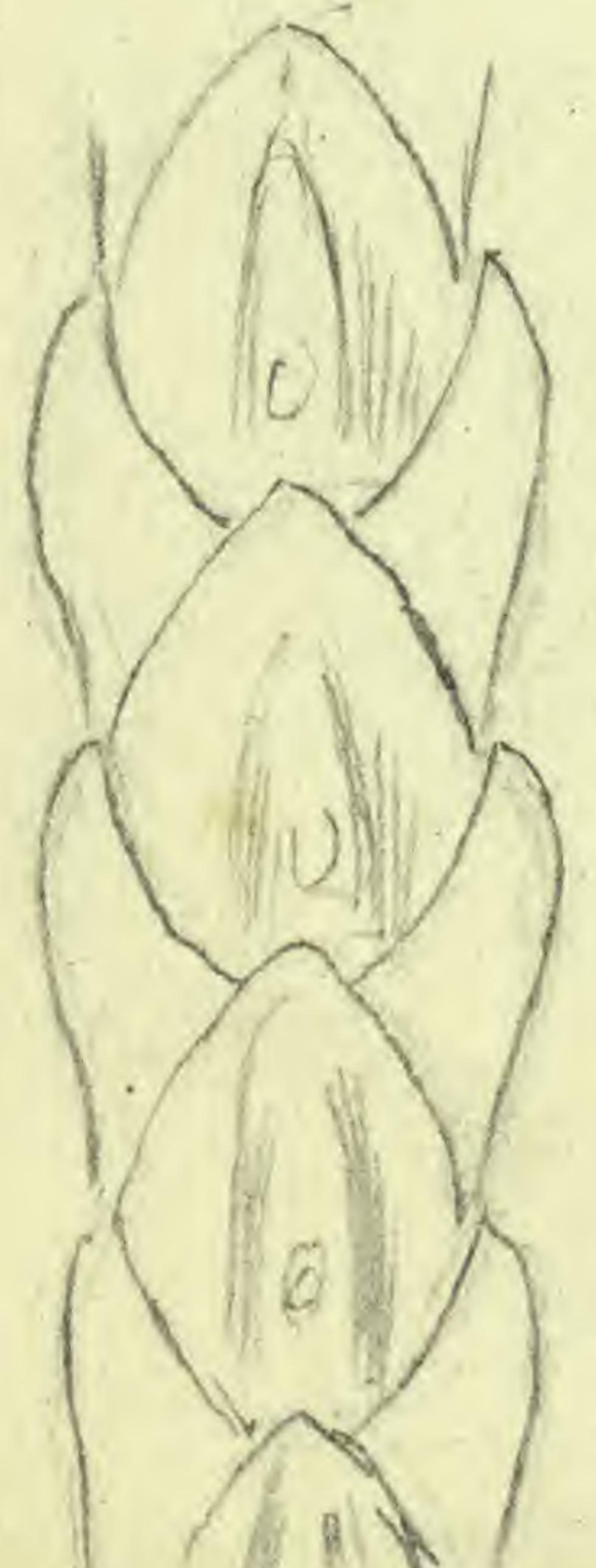
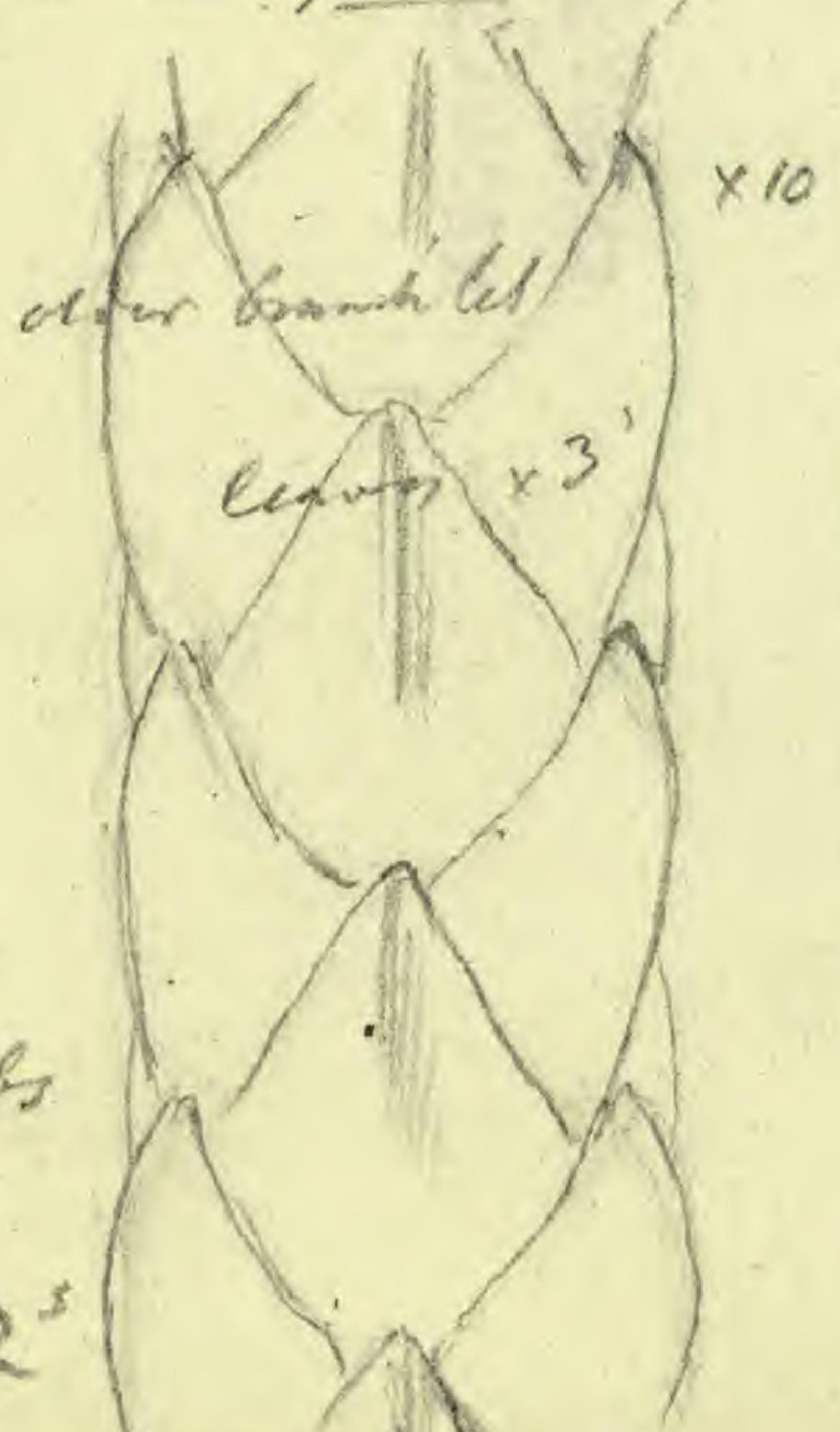
section
of seed

no embryo, seed full
grown but not mature
 \approx March



tip & side
leaf
 $\times 280$

older branchlet
leaves $\times 3$



branches
mostly
4 joints

$\times 10$

leaves

$\times 3$

leaves

$\times 10$

leaves



0 1 2 3 4 5 6 7 8 9 10

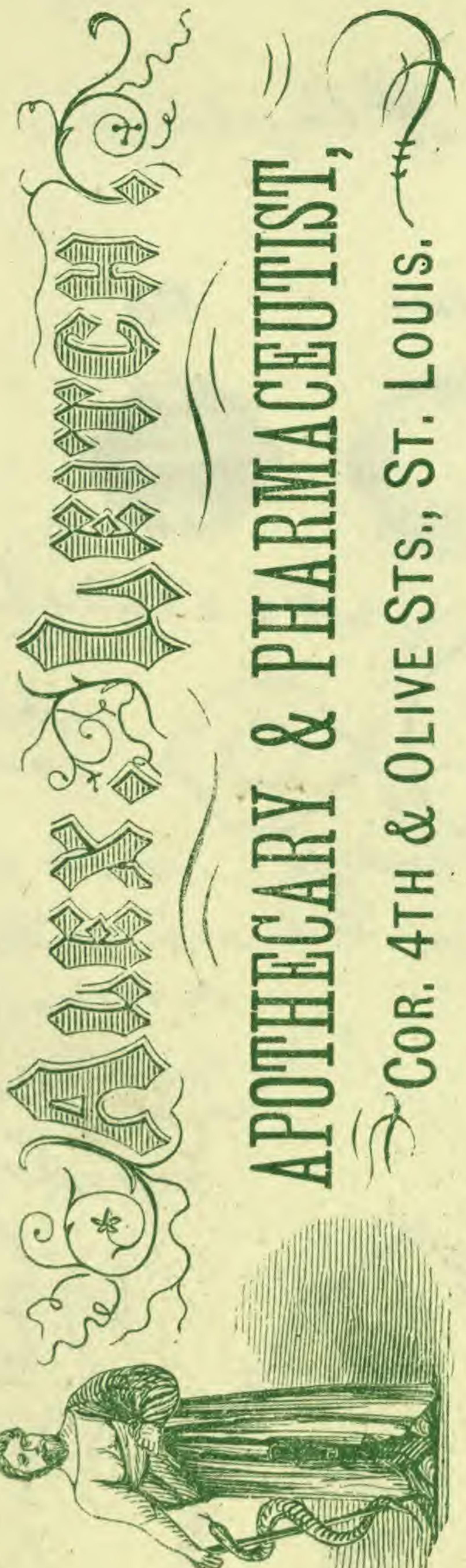
cm

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APOTHECARY & PHARMACEUTIST,

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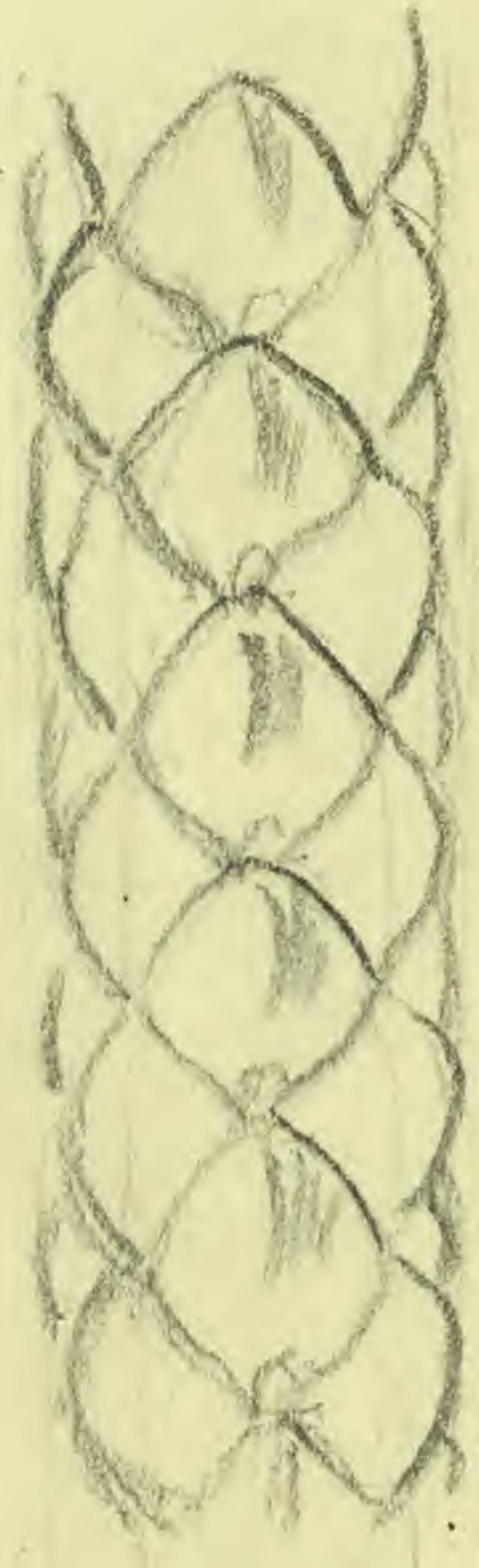
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I. occidentalis
narrowarpa

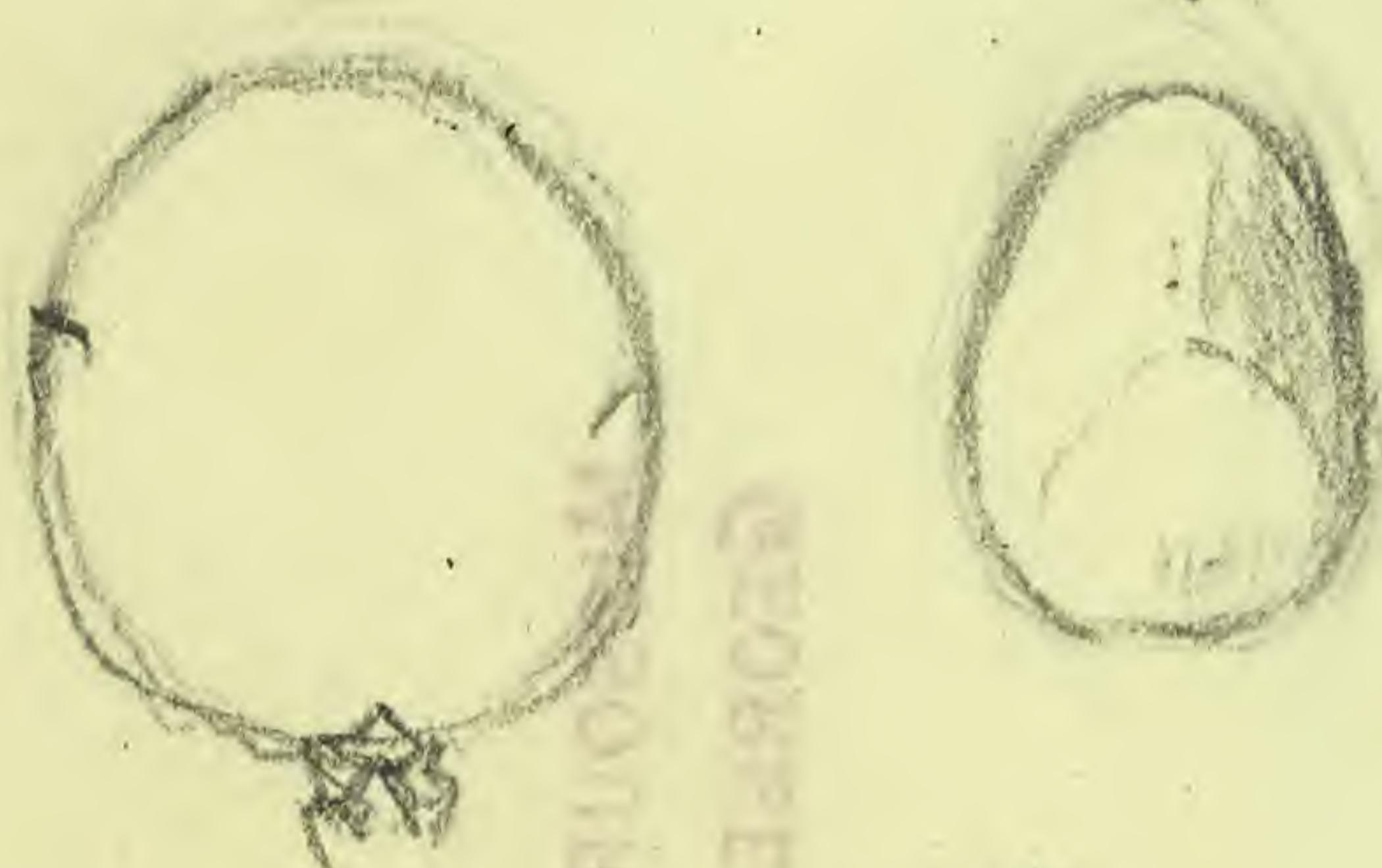
Feb 23 1896

Fort Whipple, Arizona, Drs. Compton & Palmer

$\times 10$

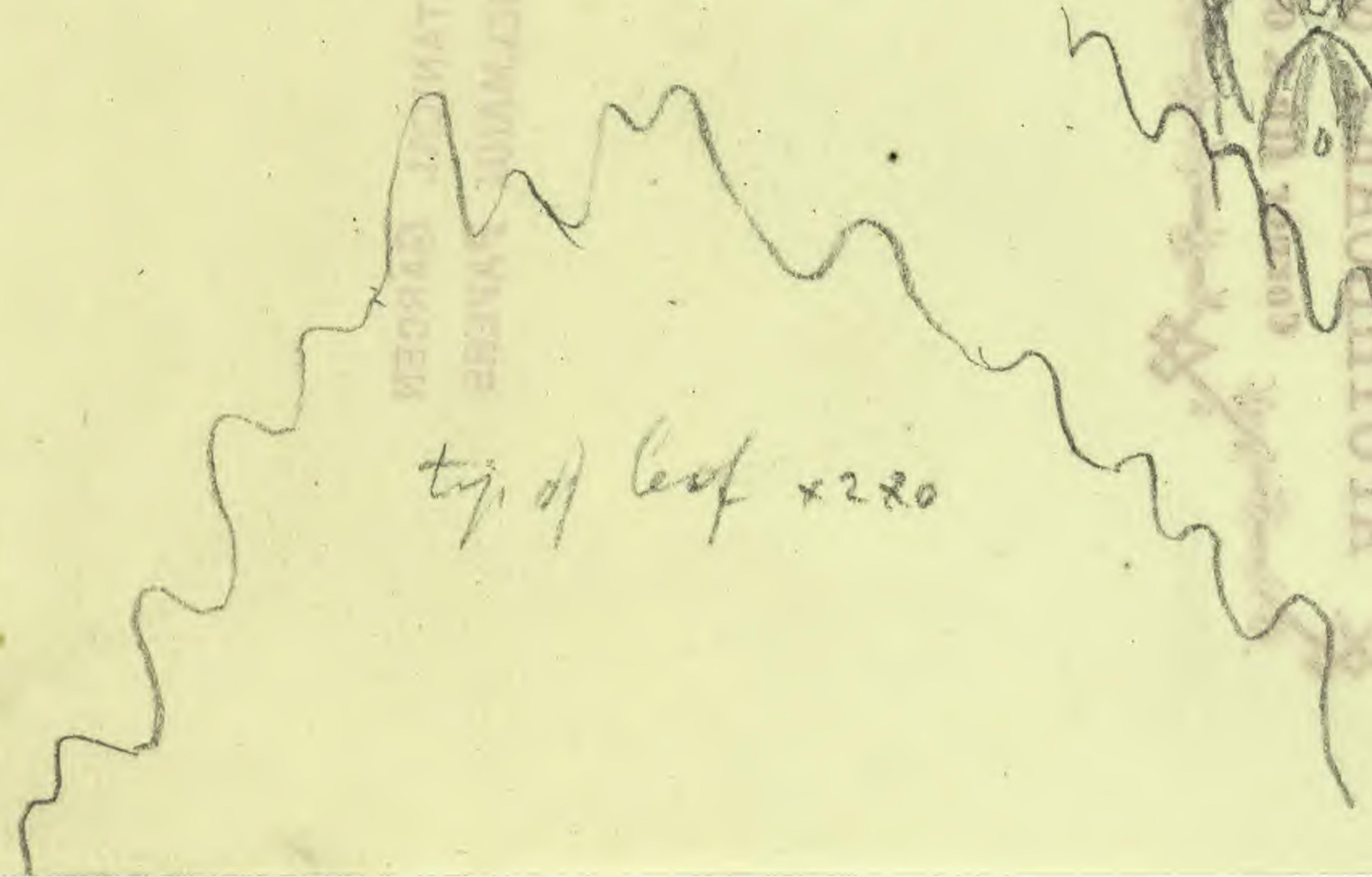


immature $\times 2$



fruit scales $\times 2$

leaves mostly
 $\approx 3\frac{1}{2}$



tip of leaf $\times 2 \times 20$



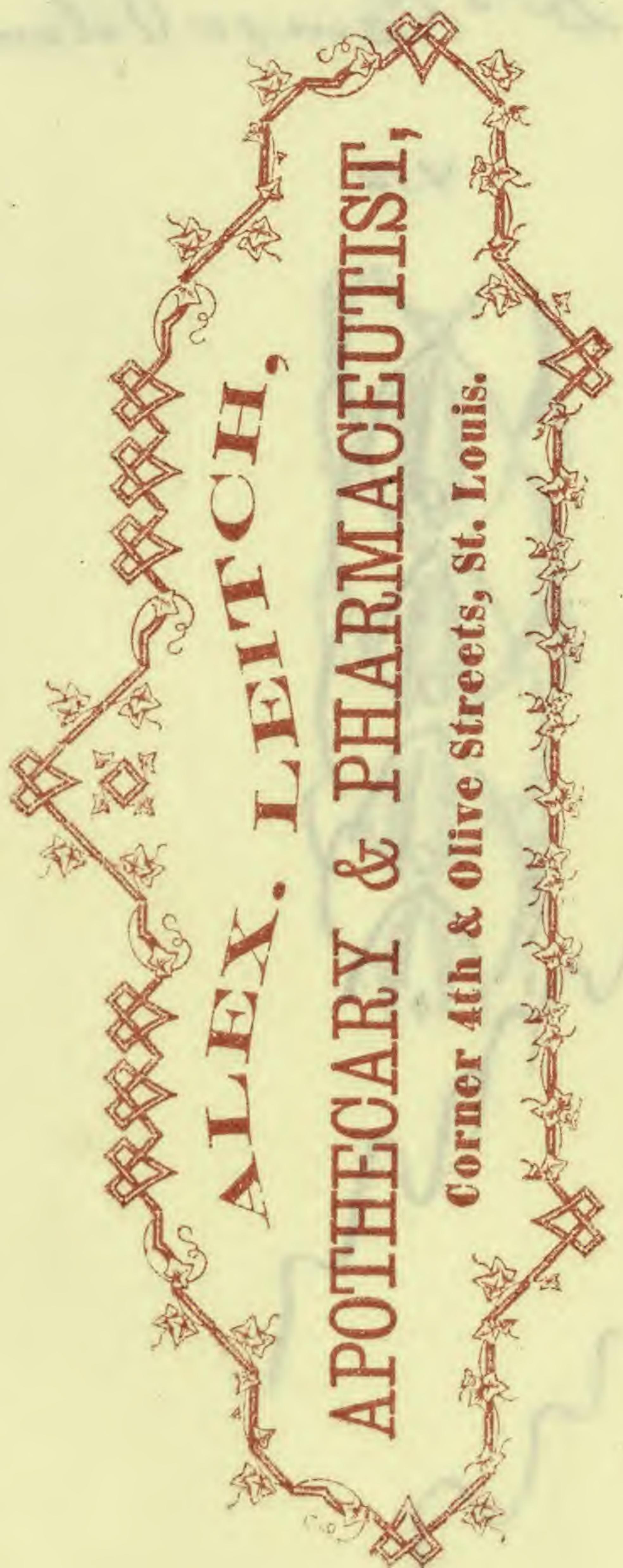
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cm

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cm

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Juniperus utahensis

St George, Utah

about 20 feet high - the usual firewood of the country
branches low down - bark shreddy; heartwood
dull red, slightly fragrant

W. Barry April 14 1874



0 1 2 3 4 5 6 7 8 9 10

cm

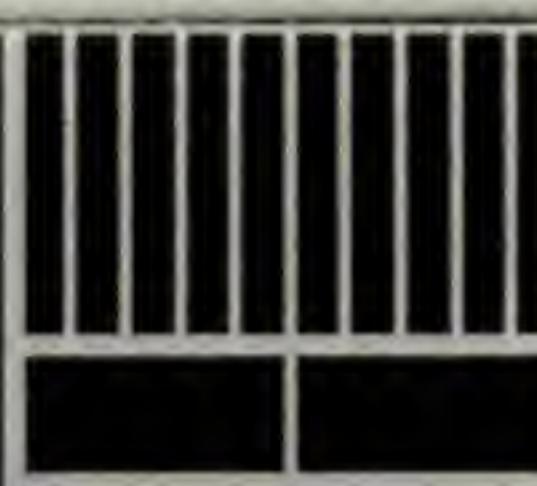
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0 1 2 3 4 5 6 7 8 9 10

cm

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Juniperus Utahensis

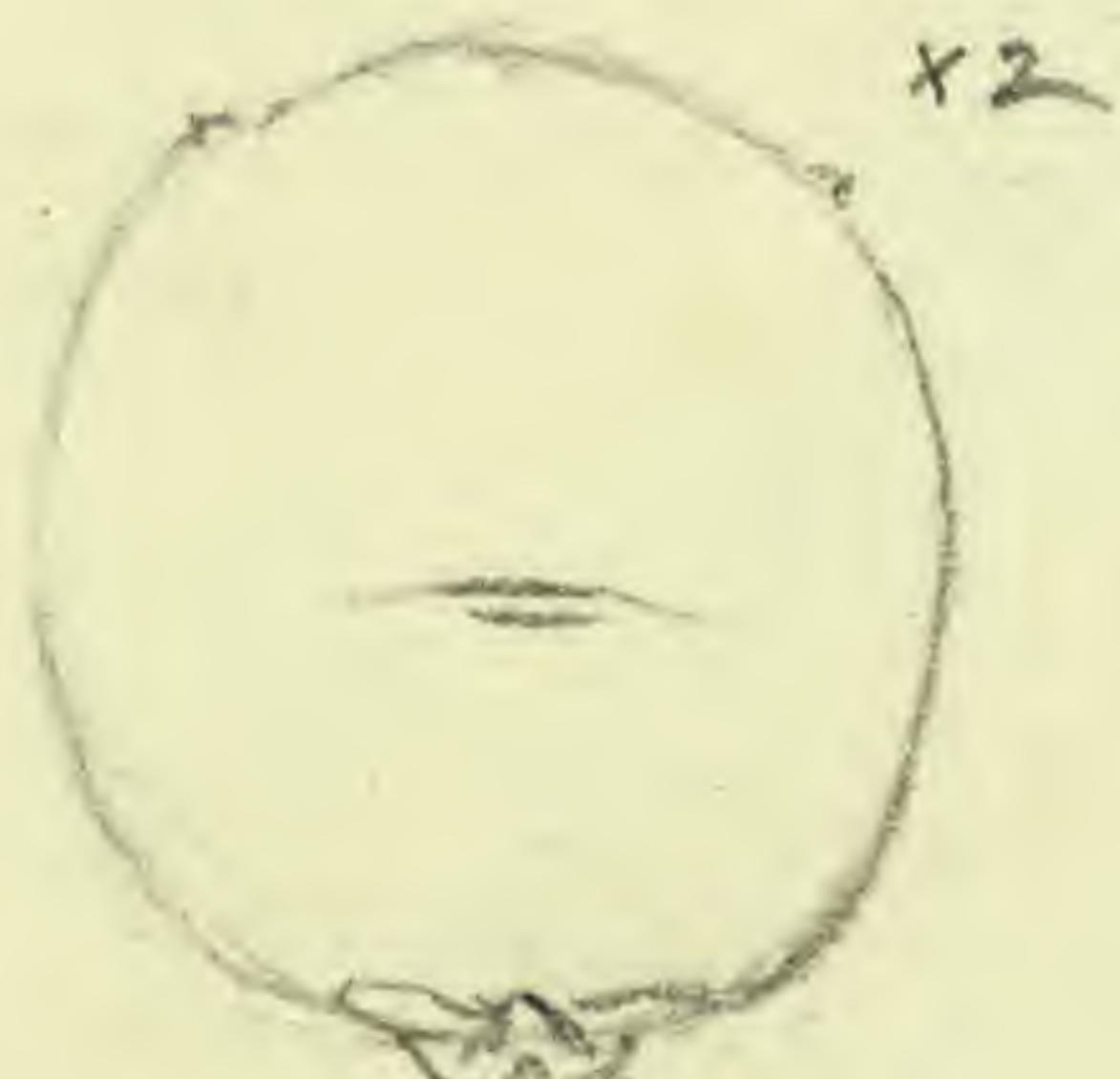
April 2, 1874

immature green fruit

Provo, Utah, & Parry March 1874

all seeds

wormy!



x2

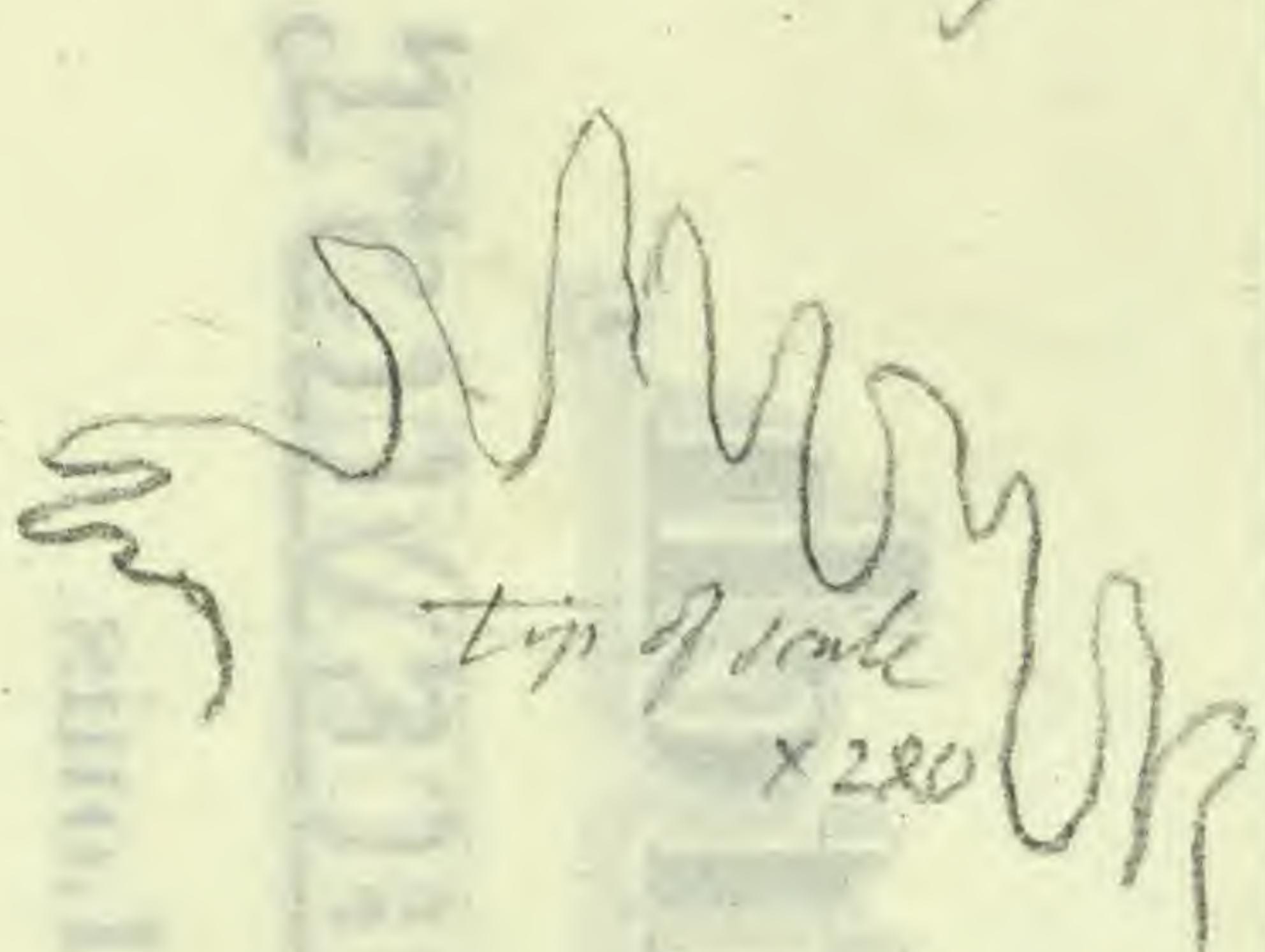
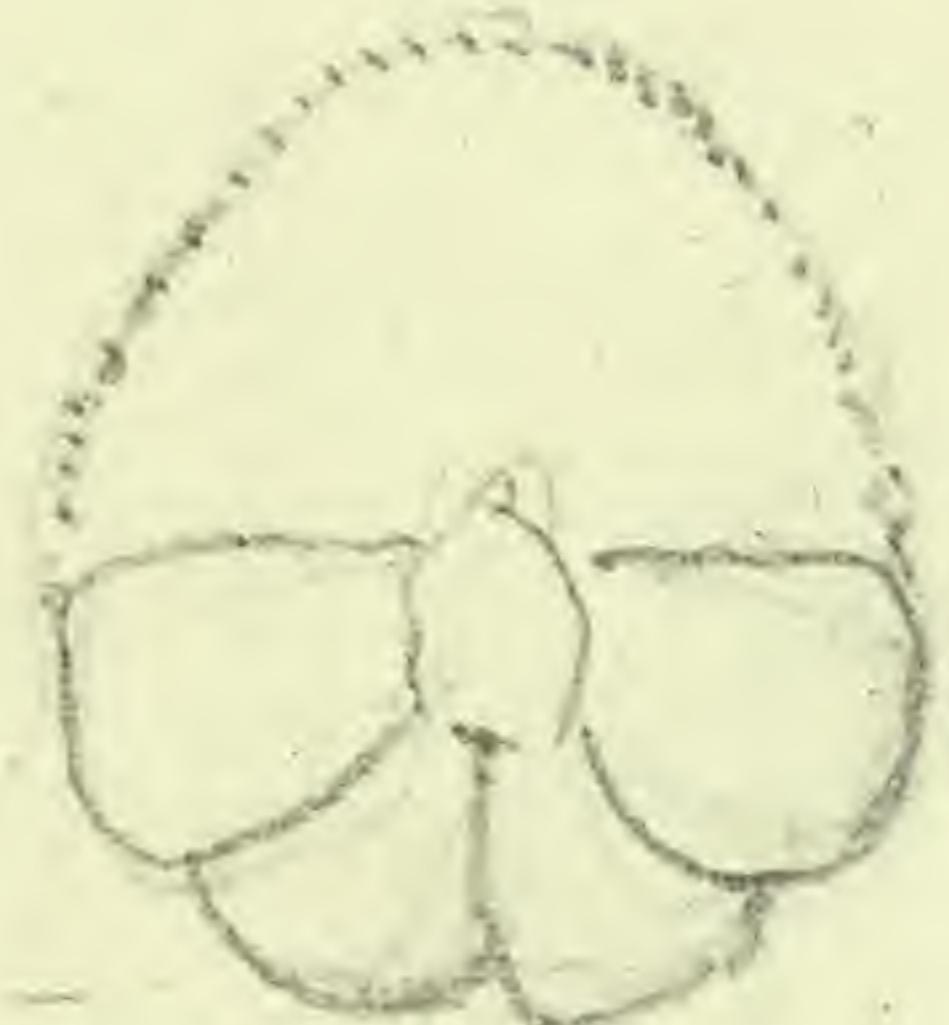


x2



scales always
in pairs seeds single
pulp thin and dry, immature

scale x10

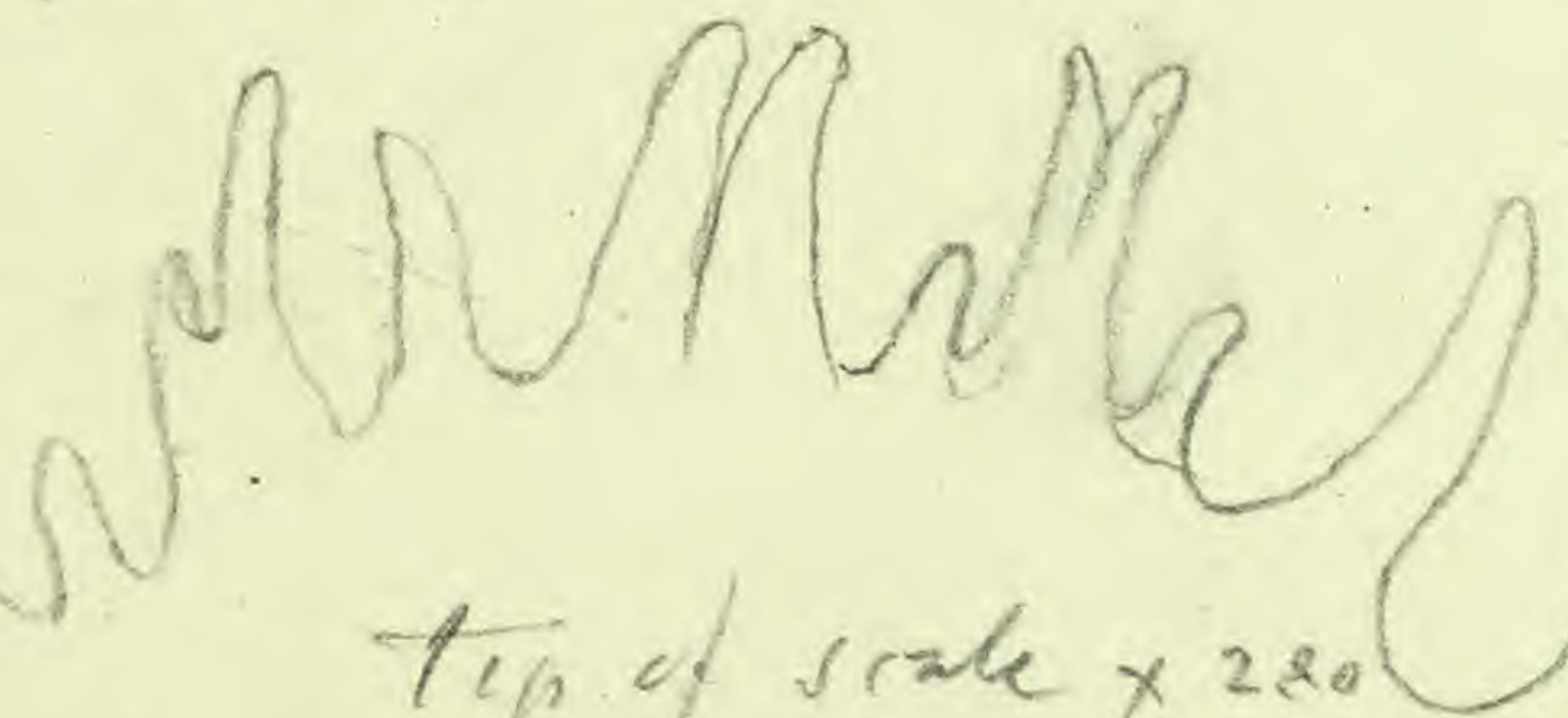


tip of scale

x220

bud of ament x10

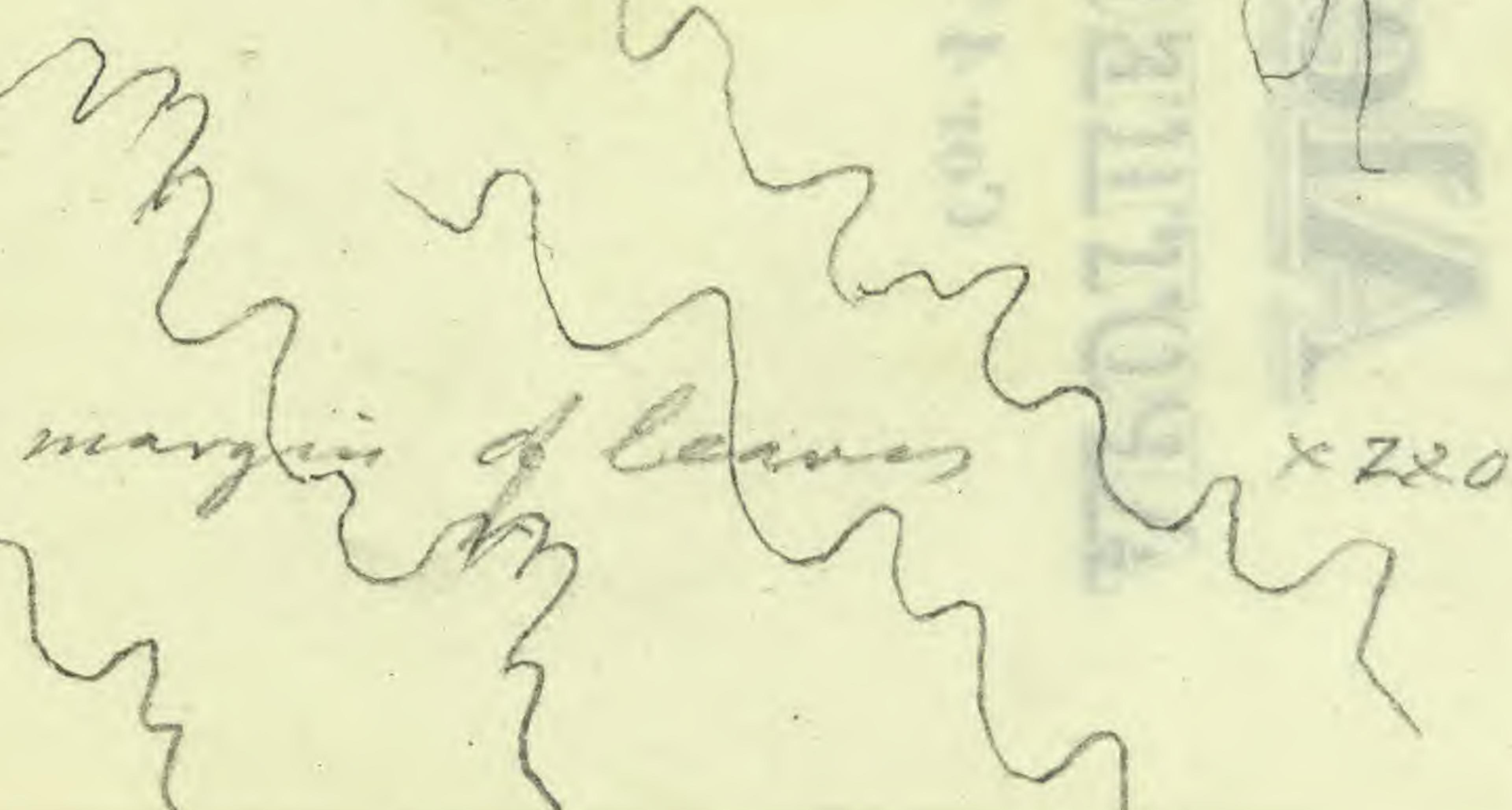
Ament always
terminal on
long branchlets
1/2 - 1 inch long



tip of scale x220



Pollen x315



margin of leaves

x220



0 1 2 3 4 5 6 7 8 9 10

cm

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**ANEX. Leitch,
APOTHECARY & CHEMIST,**

Cor. 4th & Olive Sts. St. Louis.

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

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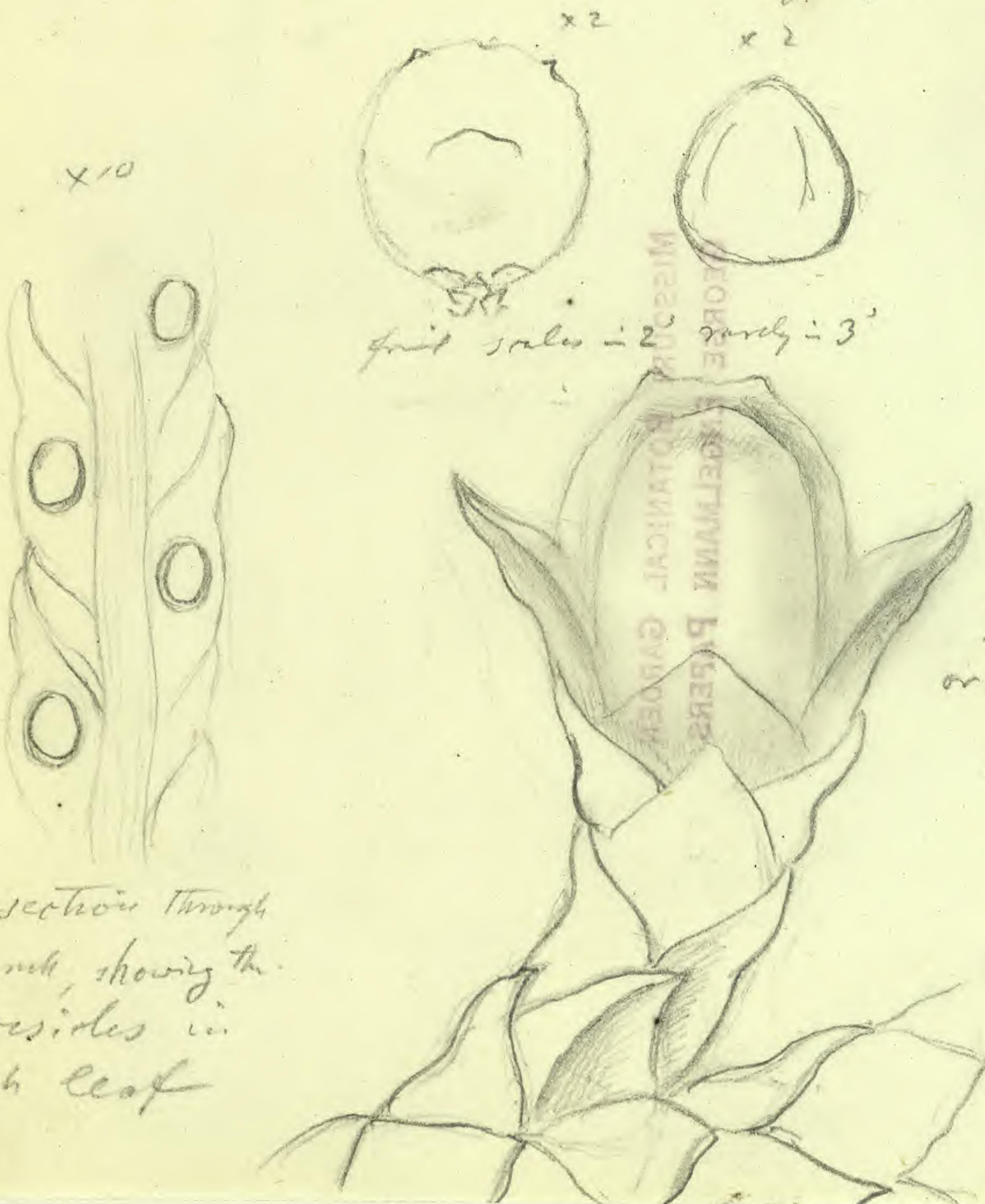


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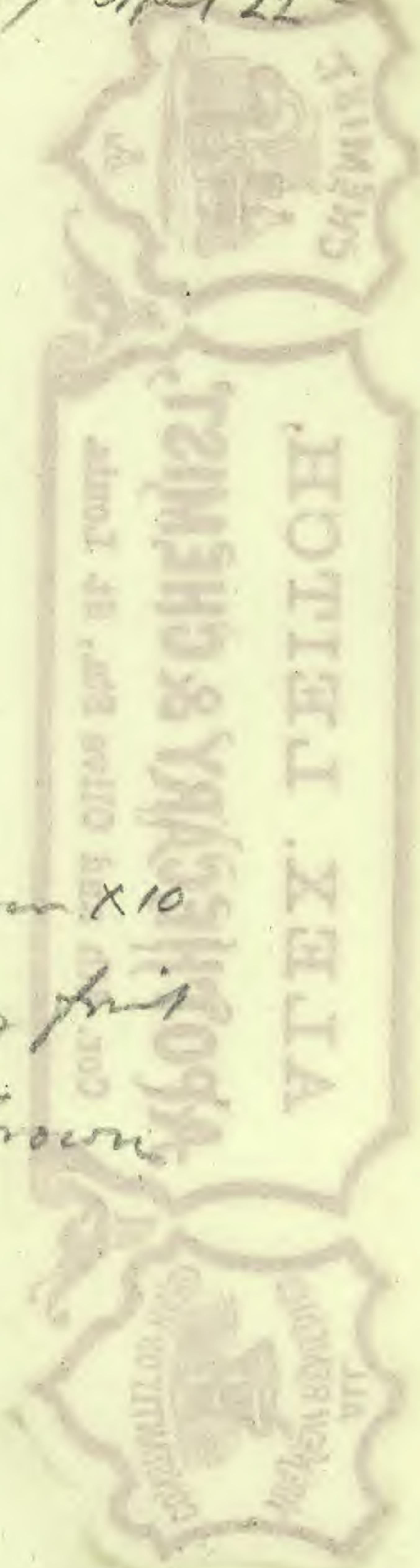
Juniperus litellousii

May 2 1874

A George, Webb, & Parry April 22nd



prep section through
branch showing the
oil vesicles in
each leaf



0 1 2 3 4 5 6 7 8 9 10

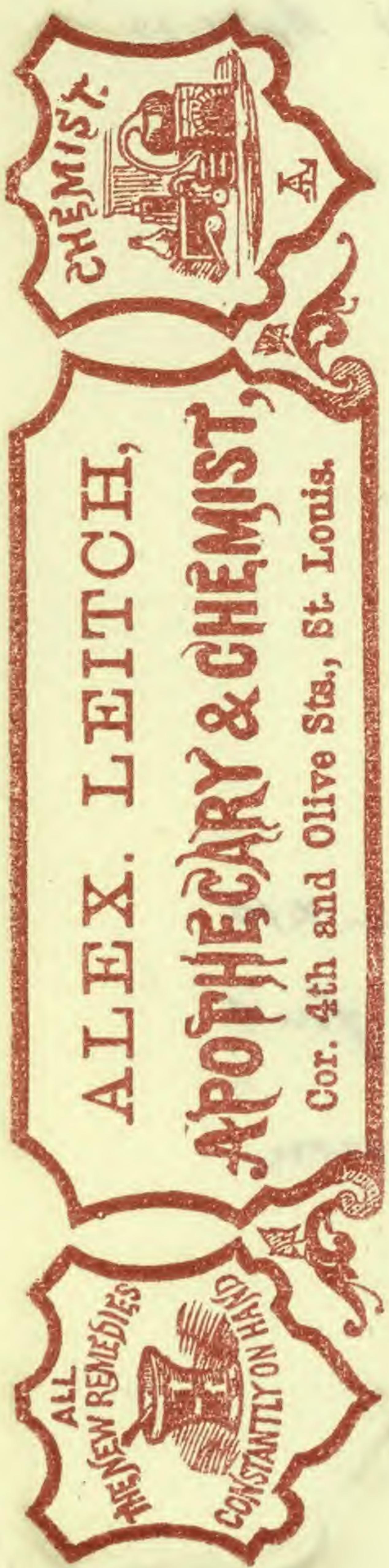
cm

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Cor. 4th and Olive Sts., St. Louis.

ALEX. LEITCH,
APOTHECARY & CHEMIST,

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0
cm

1 2 3 4 5 6 7 8 9 10

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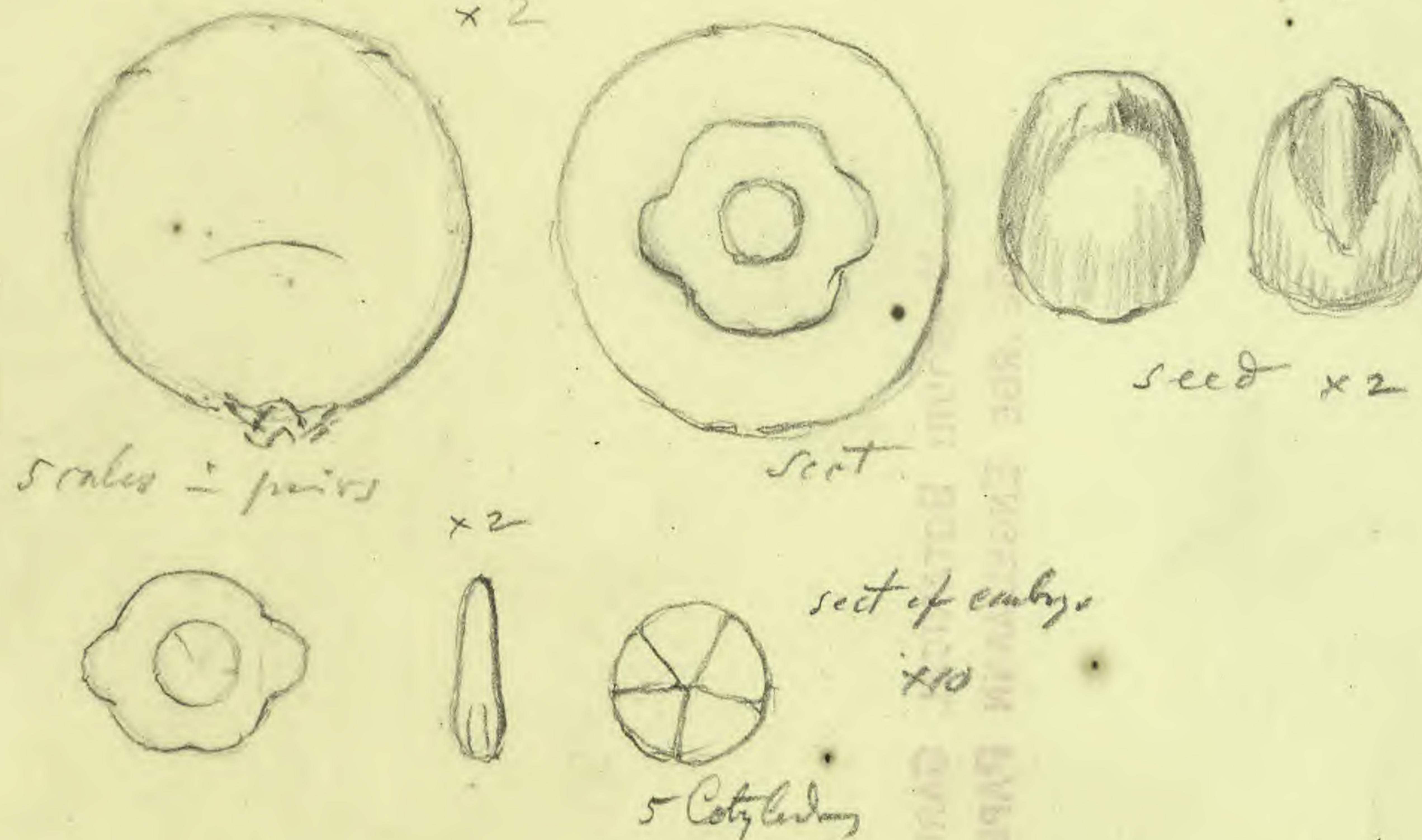


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8. *Smilax*

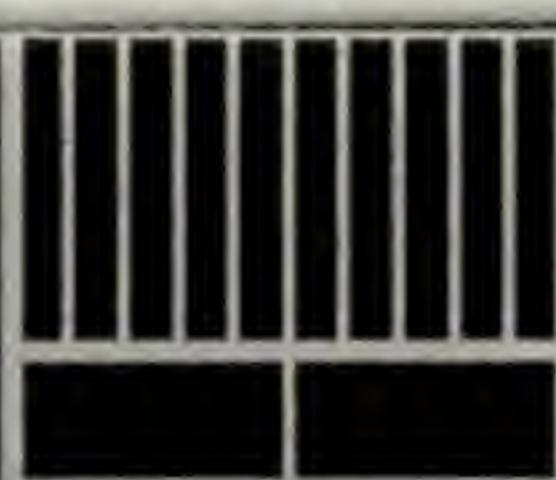
March 3rd 1874

Camp Apache Arizona Jan. 1874 D. J. D. Grinnell



ALBION HENRY & THOMAS GARDNER

PRINTERS TO THE BOTANICAL EXHIBITION



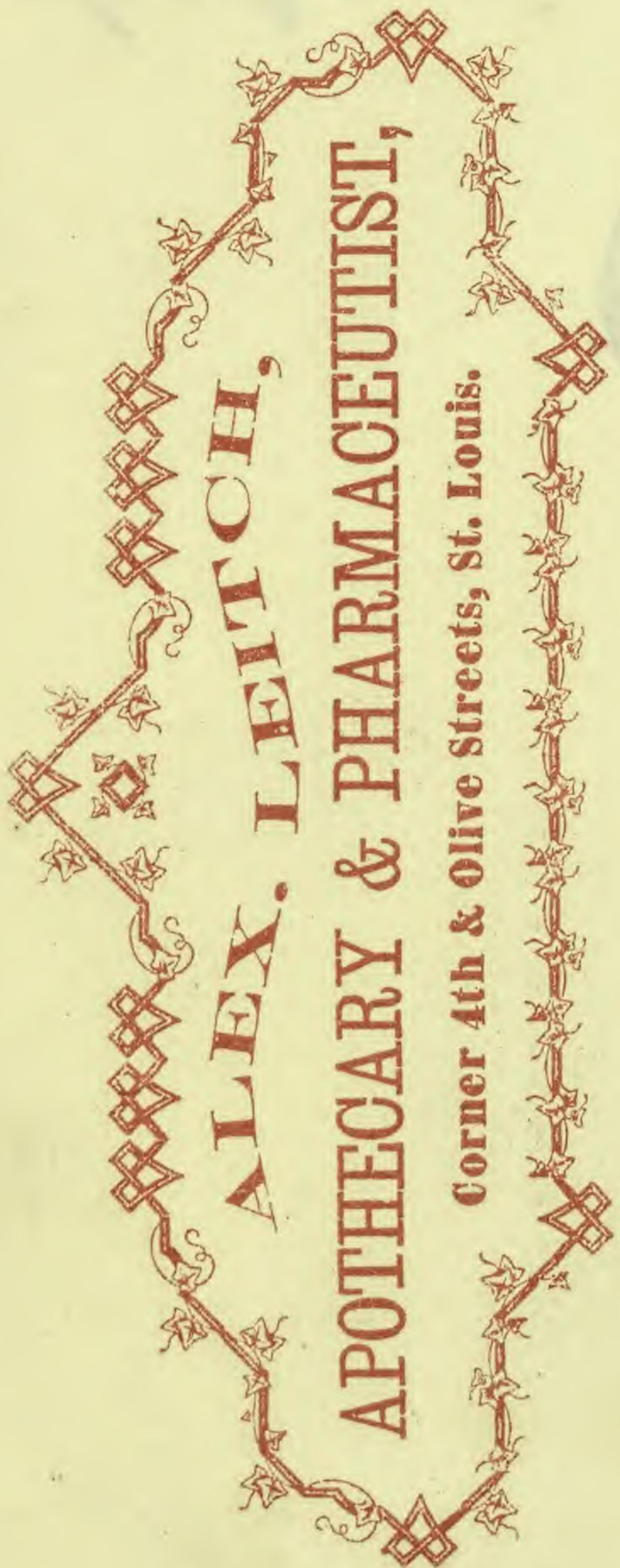
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cm

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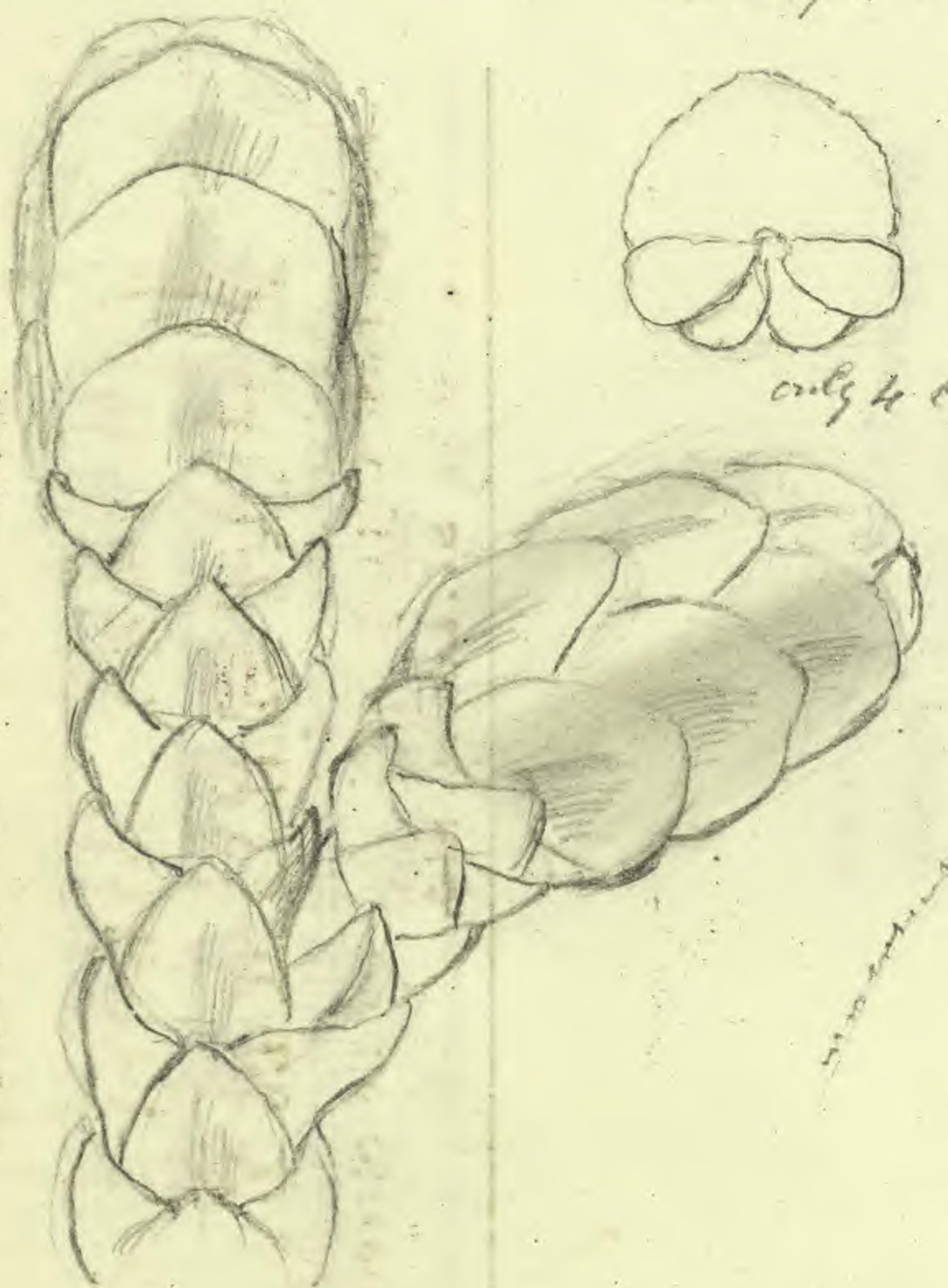


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J. J. Gray

March 4, 1874

Camp Apache, Arizona, Jan 1874 Dr J. B. Ward



only 4 cells

x10



tip of scale



x280

Pollen 11.5-12
415

tip of leaf
x60

tip of leaf
x280

aments 4 angular
angles on the sides of scales
scales not connate but depressed in middle



0
cm

1

2

3

4

5

6

7

8

9

10

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Deutsche Apotheker.

HENRY DIERS,

APOTHECARY,

South East Corner Fifth and Biddle Streets,
ST. LOUIS. MO.

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GEORGE ENGELMANN



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cm

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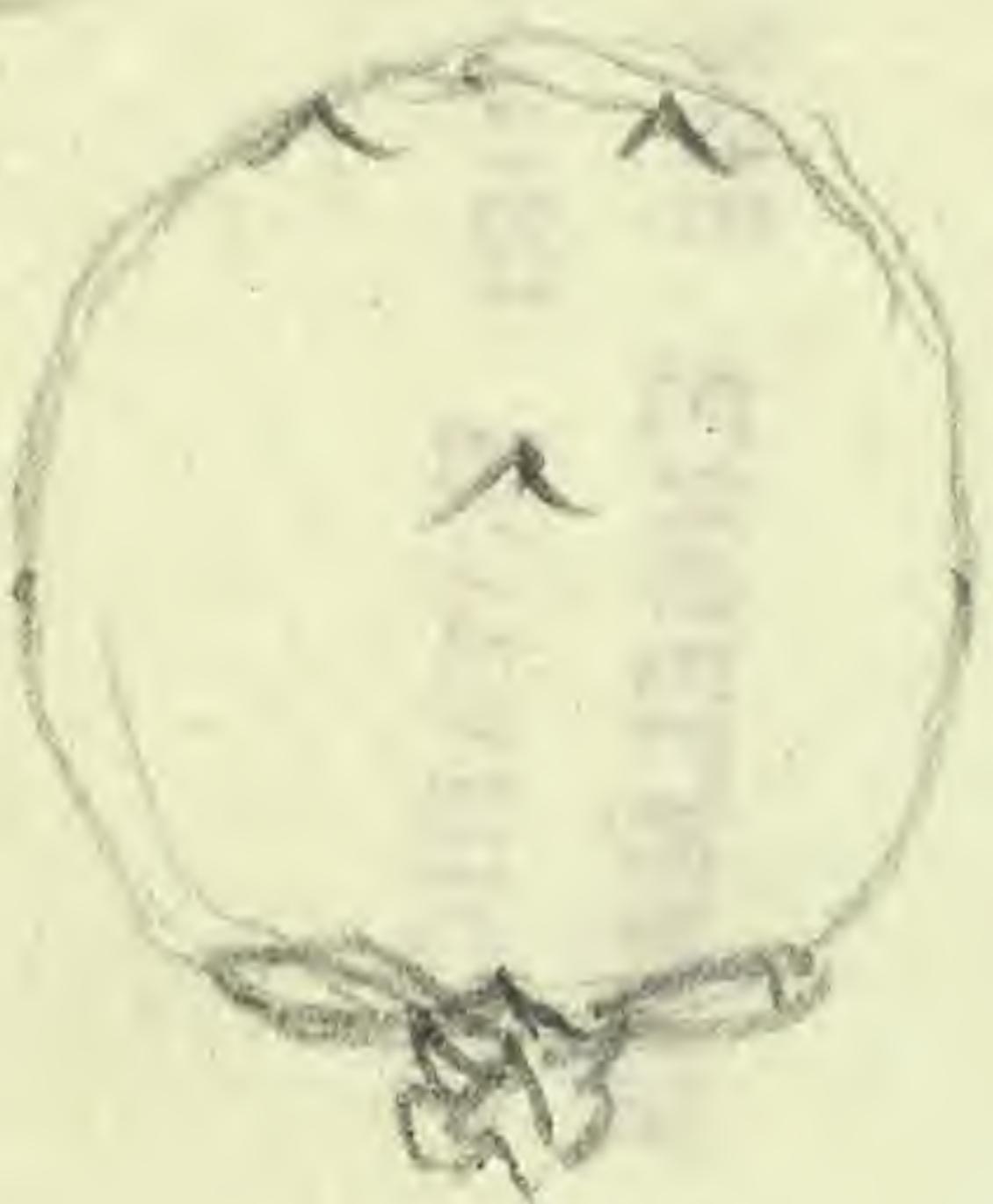
"*I. Cemosianus Kellogg*"

Jan 18 1874

Cors Island. Calif. & Kellogg No. - H. Torrey



* 2



seed 2

ovalish - leaves always 2 3'
downy - seeds of first
or uppermost fruits large
circular flower, 2 all sp
examined - no other seen

80
80
with
all 3' 3'



0 1 2 3 4 5 6 7 8 9 10

cm

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R. C. HARRISON,

508 Leffingwell Avenue,

Aruggist & **A**pothecary



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3003 LOCUST STREET.

G. F. ENGLEMAN, M.D.,

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0 1 2 3 4 5 6 7 8 9 10

cm

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Description d'un nouvelle espèce de Genévrier
Juniperus Californica, Carr.



Fig. 21. - *Juniperus*
californica.

Fruit coupé longitudinalement.

- A. Partie charnue du galbule.
- B. Noyau.

C. Ovule.

GEORGE ENGELMANN BULLETS
 MISSOURI BOTANICAL GARDEN

Revue Horticole, Tome III. 352, 353. (1854.)

13183

Ramilles adultes entièrement recouvertes de feuilles squamiformes, courtes, très-papillées et étroitement imbriquées. - Galbules solitaires, subcylindriques ou pointus, sur des ramilles fruitières très-courtes, jusque globuleux ou ovoïdes, souvent légèrement atténues aux deux bouts, mais un peu plus au sommet, long d'à peu près 0.012 à 0.013, larges de 0.010-0.011 à peu près, lisses ou légèrement tuberculeux vers la partie supérieure, aux points correspondants à la soudure des écailles, recouverts, même assez longtemps avant la maturité, d'une poussière glauque, renfermant à l'intérieur un noyau extrêmement dur, exactement de même forme que le galbule commun; loge unique, renfermant une seule graine desséchée. Cette espèce, récemment découverte en Californie par Mr. Bowdier de la Rivière, présente des particularités assez remarquables pour ce rapport de ses habitudes. Elle occupe une localité à peu près située de toute autre espèce de Conifères; elle y forme un groupe d'environ 50 individus, croissant au sommet d'une montagne escarpée, entre les fissures des roches de schiste taquené, à reflets vifs et brillants. Ce sommet qui, qui domine une profonde vallée, est à environ 300 mètres au-dessus du niveau de la mer, et est exposé à des vents très-violents. Cependant, même dans ces mauvaises conditions, ce *Juniperus* atteint 10-12 mètres de hauteur, et son tronc acquiert 40-50 cm de diamètre; mais il se bifurque souvent à peu de distance du sol et alors les branches sont aussi grosses qu'en tige principale, et s'élèvent verticalement en jetant de nombreuses branches secondaires. L'outline de l'arbre forme une belle masse, car il a deux ou trois sommets de

Q'environs 50 individus, croissant au sommet d'une montagne escarpée, entre les fissures des roches de schiste taquené, à reflets vifs et brillants. Ce sommet qui, qui domine une profonde vallée, est à environ 300 mètres au-dessus du niveau de la mer, et est exposé à des vents très-violents. Cependant, même dans ces mauvaises conditions, ce *Juniperus* atteint 10-12 mètres de hauteur, et son tronc acquiert 40-50 cm de diamètre; mais il se bifurque souvent à peu de distance du sol et alors les branches sont aussi grosses qu'en tige principale, et s'élèvent verticalement en jetant de nombreuses branches secondaires. L'outline de l'arbre forme une belle masse, car il a deux ou trois sommets de



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hauteur presque égale, qui se terminent en pointe et plient sous l'action des vents, le bois est flou, et les rameaux, d'une grande flexibilité, se rompent difficilement. Les feuilles et les sèmonces exhalent une odeur très-pénétrante, mais agréable.

D'après ce que nous venons de dire de *F. monosperma*, nous pouvons espérer que cette espèce nous rendra d'importants services par sa rusticité, son peu de dimensions, ainsi la nature du sol, et surtout par les meilleures qu'elle atteint encore dans d'assez mauvaises conditions que celles où elle croît naturellement.

Carrière.

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Brent Hawker Jan III 1853 (1854)

12: Verdon.

Y baigner à plusieurs pas de profondeur
comme dans l'océan.
C'est à la surface que l'on peut faire
des observations.



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

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