

GEORGE ENGELMANN  
BOTANICAL NOTEBOOKS

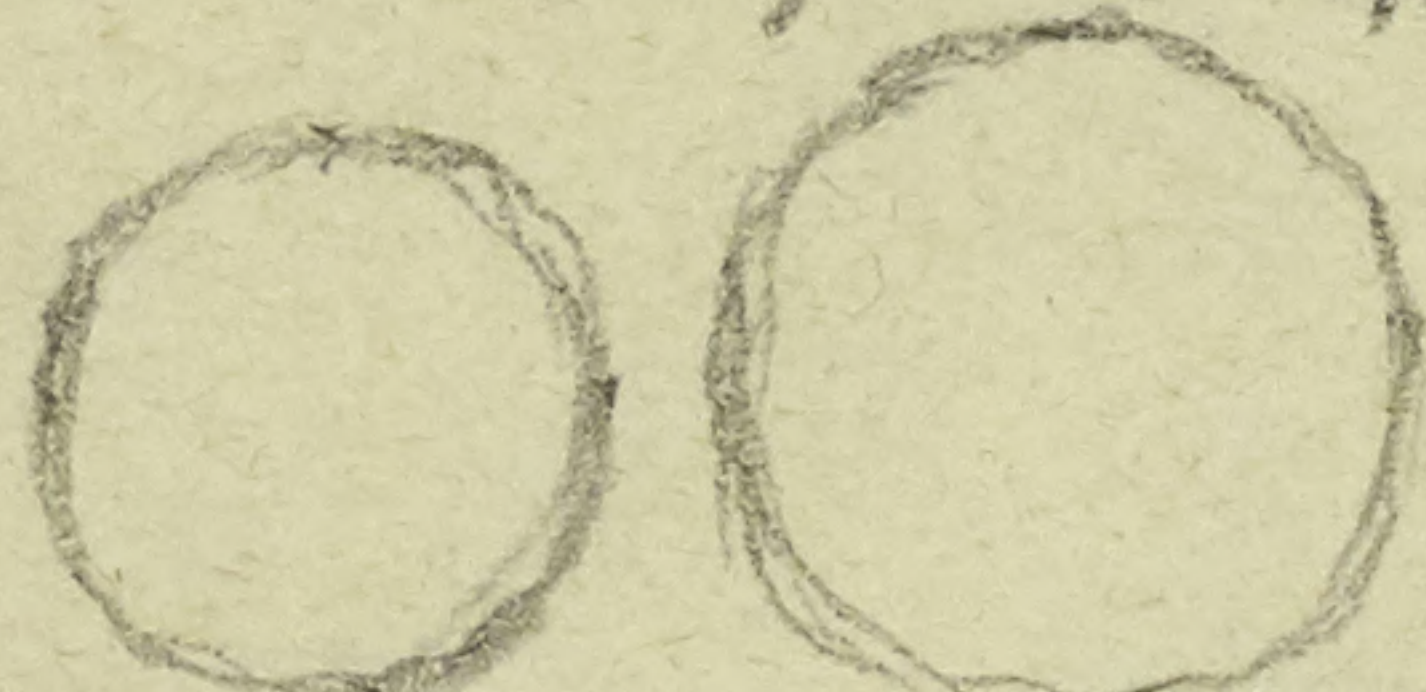
*Pagination Note:*

*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.*

April 24 1874

*Q. Emoryi*  
Pollen grains x415

Arizona, Palmer May 5<sup>th</sup> 1865

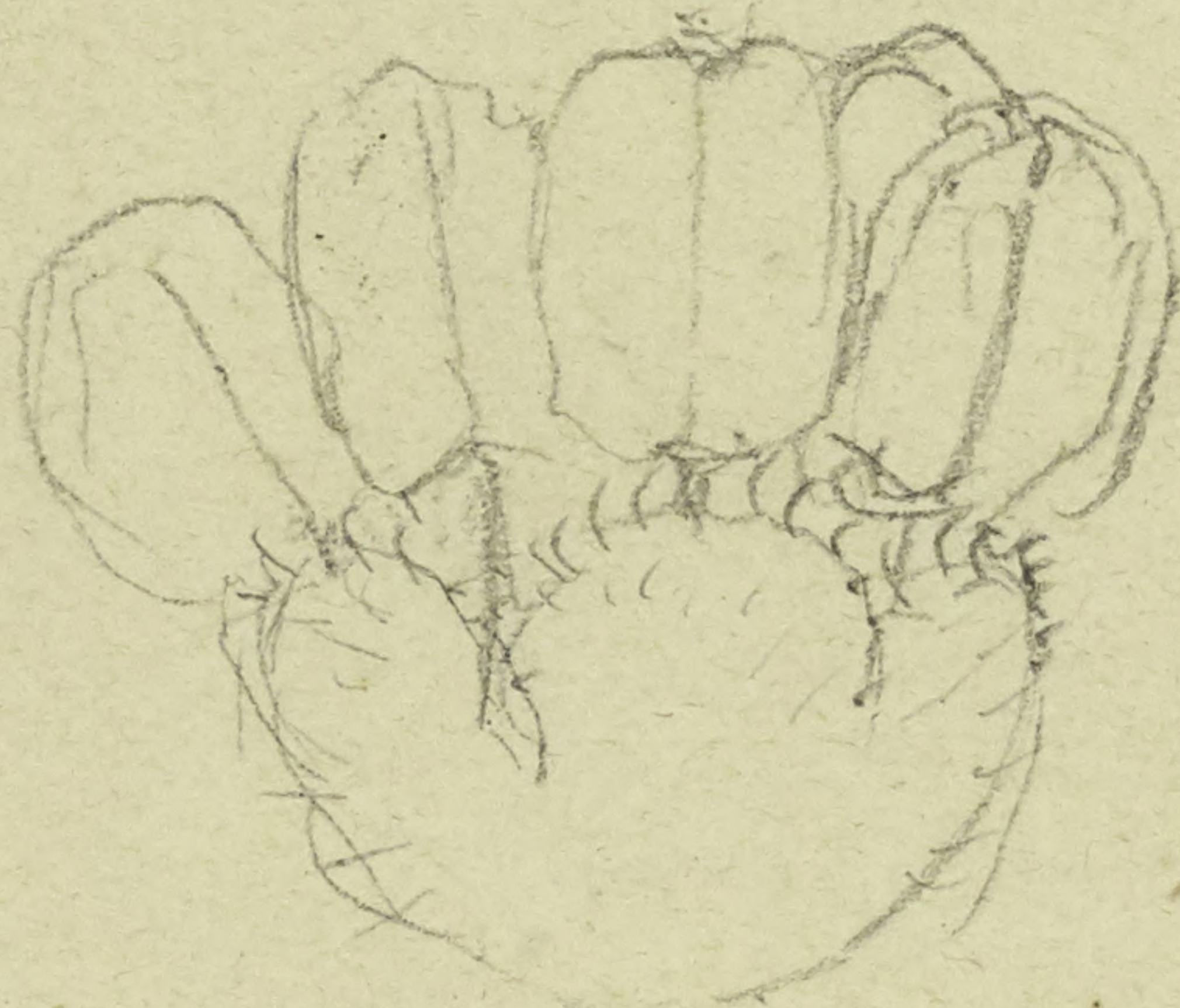


small perfect

x10



May 3<sup>rd</sup> 1874



styles & stigma, taken from a very young (abortive) fruit, styles hairy outside  
Ovules in young acorn about the middle, - old ones at base

4-5-6 stamens  
scurtious, &  
mostly 5



0 1 2 3 4 5 6 7 8 9 10

cm

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Fossil Creek  
Arizona, Dr Palmer, No. 741

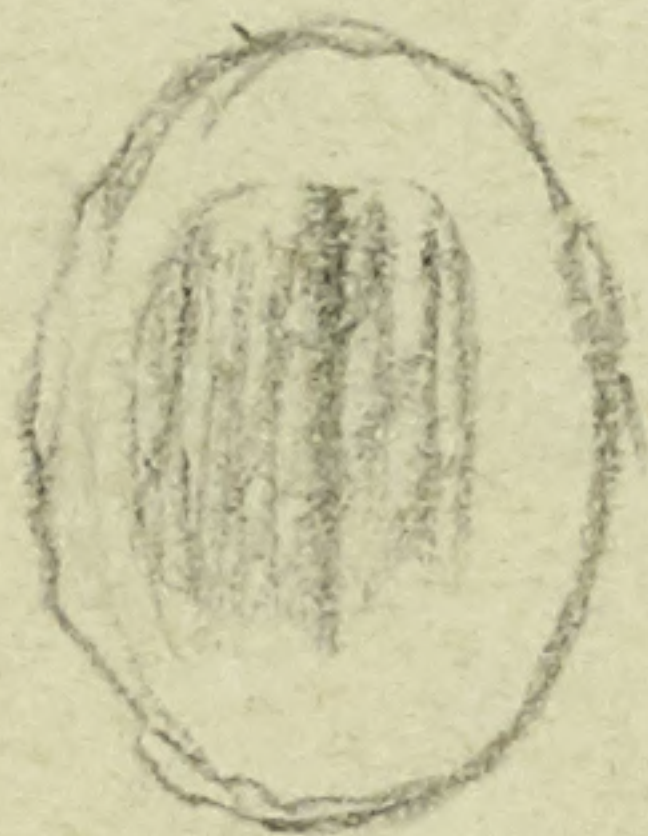
April 23 1874

(fol majoribus oblongis integris)

x10

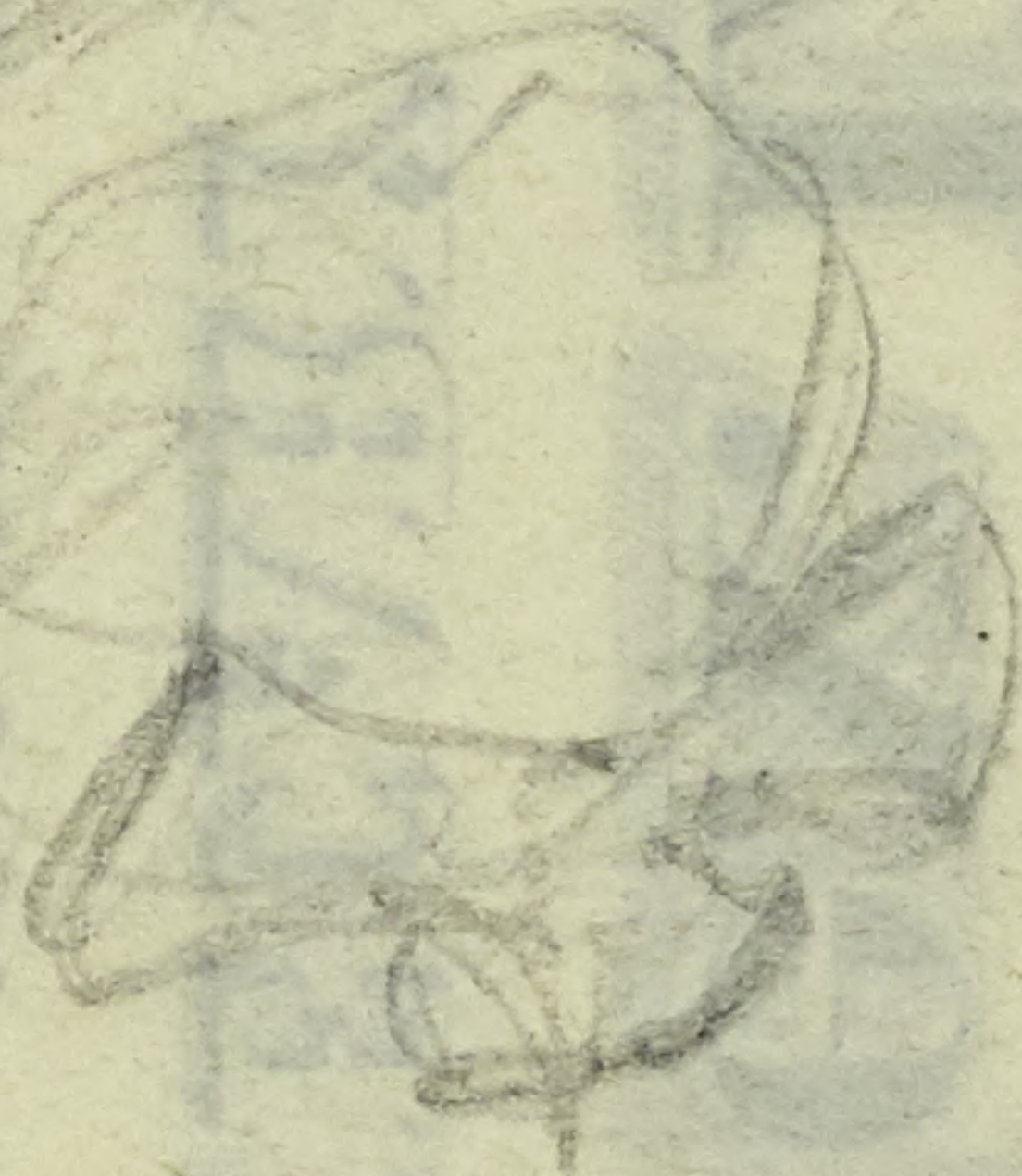
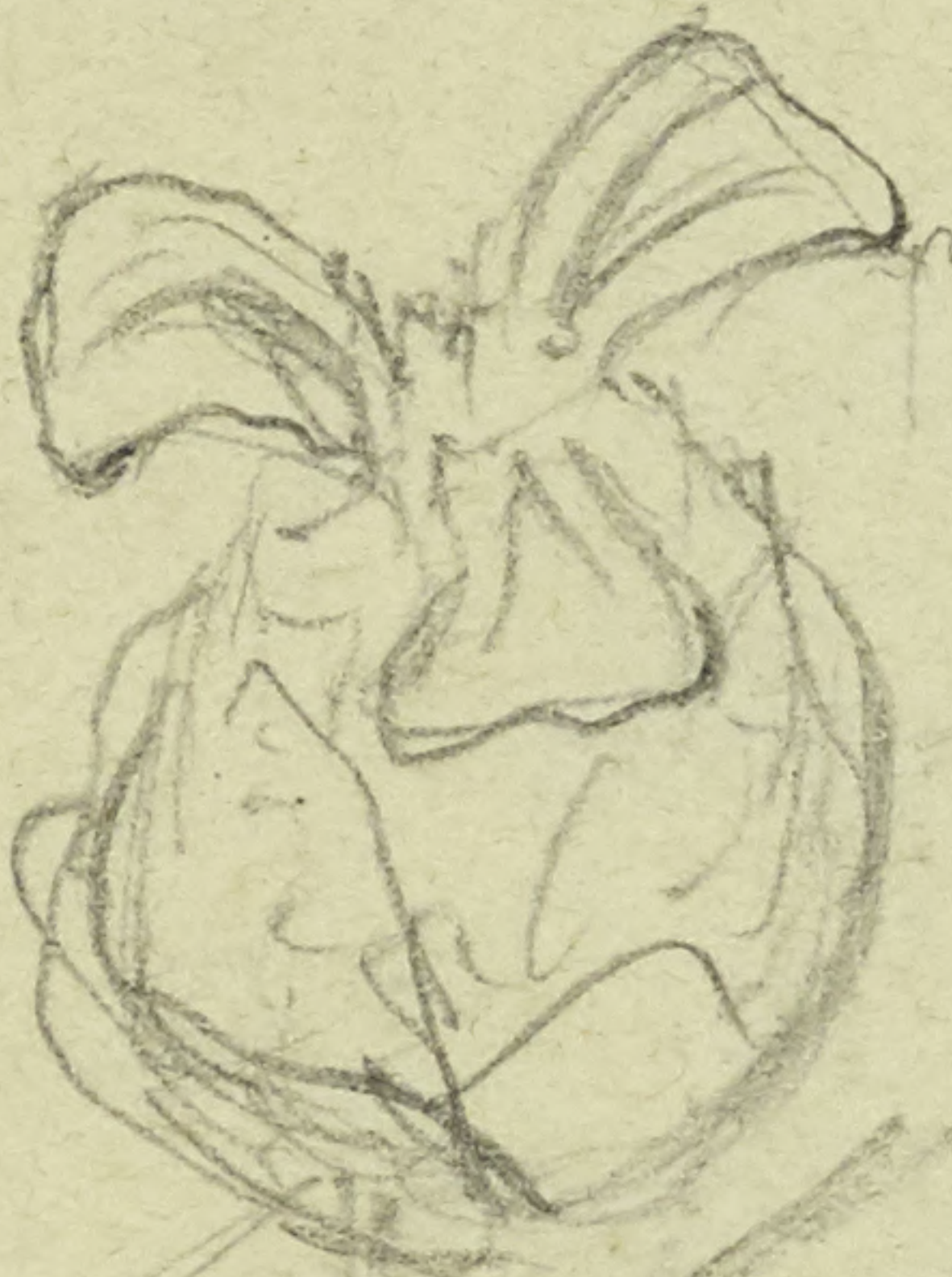


4 large rather  
lobes of calyx  
strongly fimbriate  
woolly outside  
ovate - cucurbitate



Pollen x415

x10



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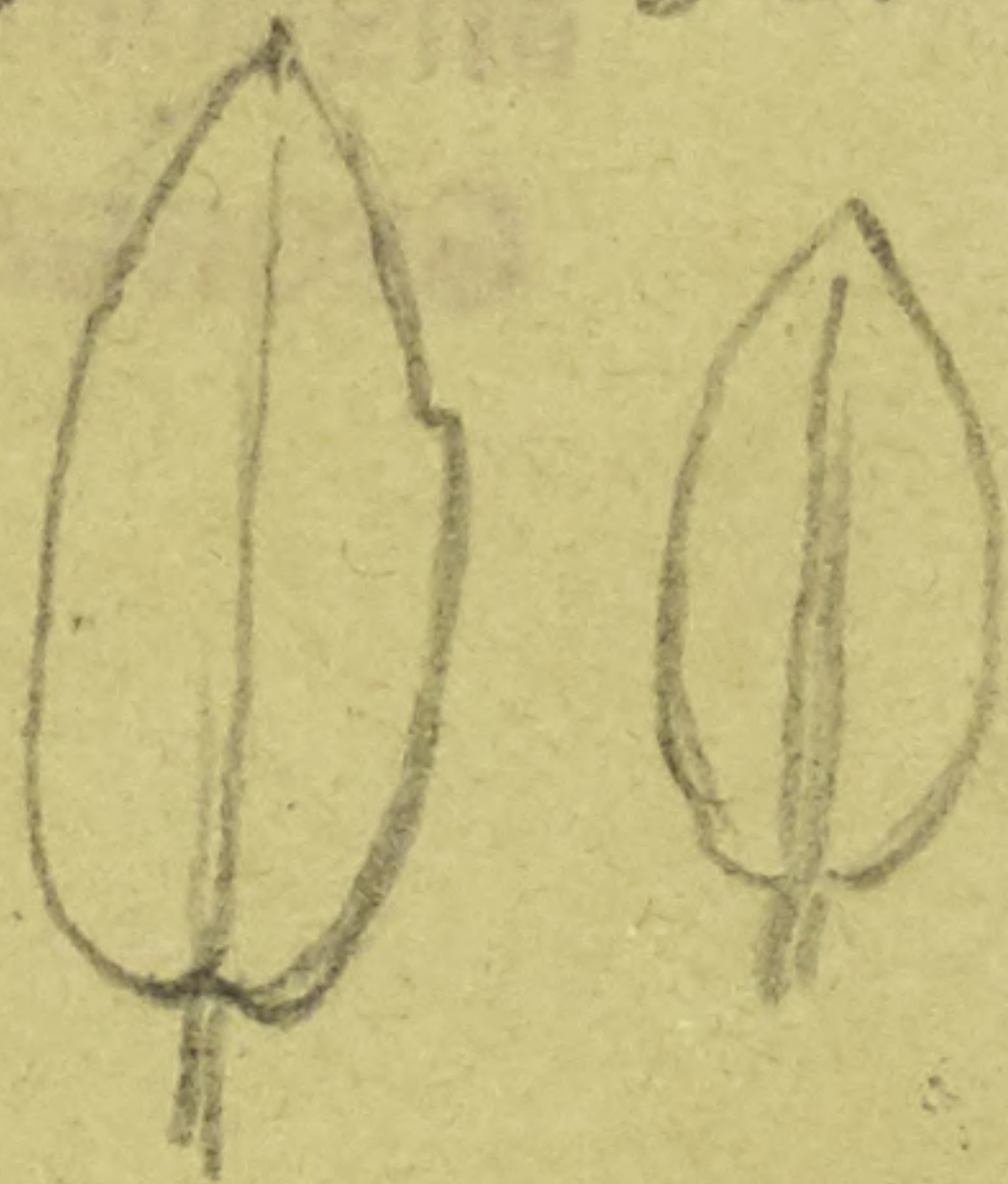
*Quercus Dougl.* Torr Herb June 19 1876  
smaller specimen with persistent leaves of last year  
mixed with *Q. Dougl.*, Sonoma, Cap EK Smith, in HB Torr

articulate hairs on both sides of young leaf  
on rachis and calyx! visible yet on  
leaf a year old, especially on lower side

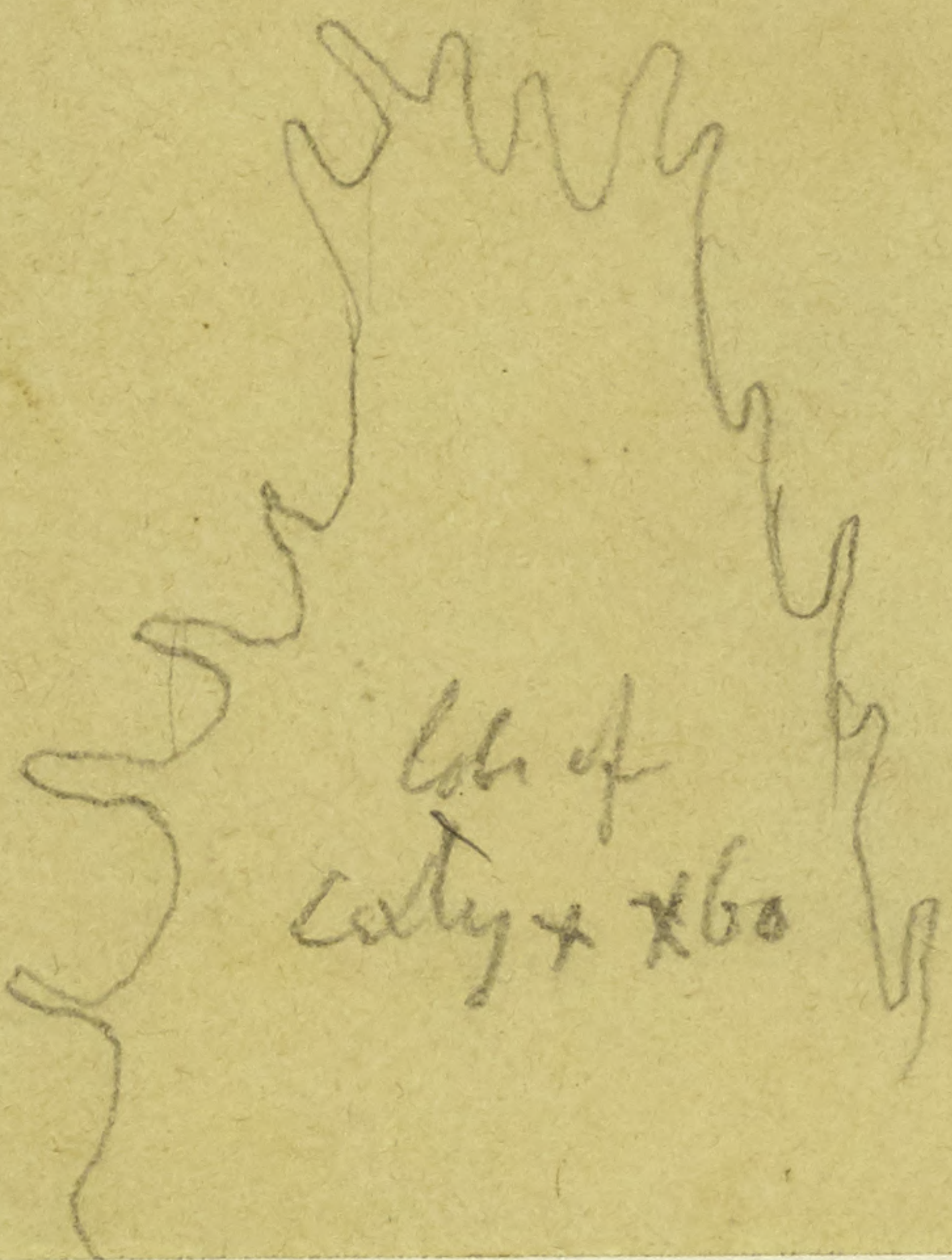


anthers globose,

4-6 stamens  
calyx & rachis  
glabrous pubescent  
1<sup>mm</sup> diam



folia oblonga  
subintegerrima



lobe of  
calyx x60



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**DRUGGISTS**

South West  
Corner Fifth  
and Market  
Streets.

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March 1882

*Quercus Durandii* Buckley 1860

San Sebeana 1873 are identical

"Durandii", the older name (1860), must stand, though it is not probable that the plant grows now in Alabama.

*Durandii* is the larger tree, with the larger and at last glabrate leaves

San Sebeana is the bush, leaves silvery to the back.

Always readily recognized by the close appressed, silvery pubescent underneath (much like a *Croton*) while the allied *grisea* has a hoary pubescence

branchlets soon smooth; leaves obovate or oblanceolate, usually attenuate at base entire or usually obtusely lobed, lobes and tip rounded.

*Q. Durandii* and var. *argentata*

= San Sebeana



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*[Faint, illegible handwritten text in cursive script, likely bleed-through from the reverse side of the page.]*

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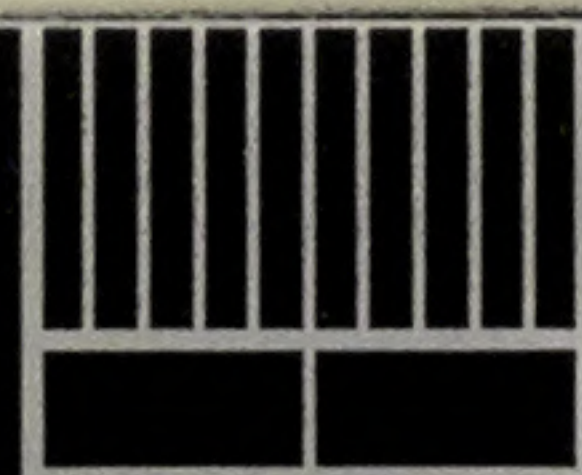
*Quercus Durandii* Buckley in Proc. Ac. Phila

part II. June July 1881. p 121

discovered 1859 near Atlanta, Wilcox Co Alabama, I know not the  
5-6 feet diam. - Also on the Colorado of Texas, 60-70 feet high  
also near the Brazos and near Austin

*Quercus rubra* var *Texasana*, olim *Q. Texana* Buckley

MR. S. B. BUCKLEY has notes upon some Texas oaks in the Proc. Phil. Acad., Part II, 1881. His *Quercus Durandii*, which Dr. Engelmann regards as one of the varieties of *Q. undulata*, he still holds as good, though in spite of a fling at closet workers, it takes a good deal of temerity to dispute Dr. Engelmann's decisions among the oaks. In the same paper *Q. Texana* is reduced to a variety of *Q. rubra*, but by others it is regarded as *Q. palustris*.



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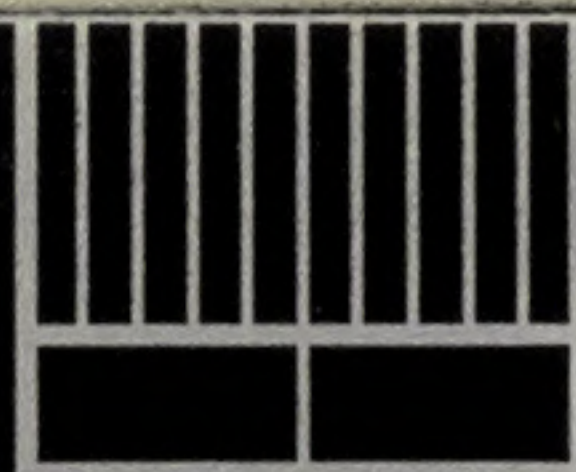


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~~I have looked over  
your journal sent to me  
some weeks ago and find that  
I can not help you any, nor  
have I the time for it. So you  
will have to excuse me~~

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Dr Ch' Mohr writes Nov 12 1882

I found Quercus densa on rocky limestone hills bordering the Little  
Catawba River - 2 feet diam. 70-80 feet high.

It is said that this oak is found as a fire proof tree - <sup>Dallas Co</sup> ~~Wilcox Co~~, while  
Buckley discovered it in the neighborhood <sup>1839 & 1840</sup> of Wilcox Co. - Leaves deciduous  
Wilcox & Dallas are S & W of Montgomery.



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Calif. Desert Camp  
oval obtuse yellow

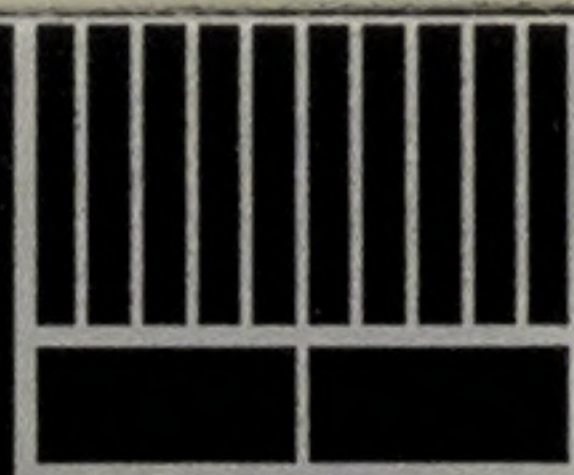
Ariz. Palms " "

Ariz. Bisbee  
Utah Rottrock, Capt Smith  
Army

Palms - -

Colo. Bendigo - -  
Greer - -

Q. pinguis



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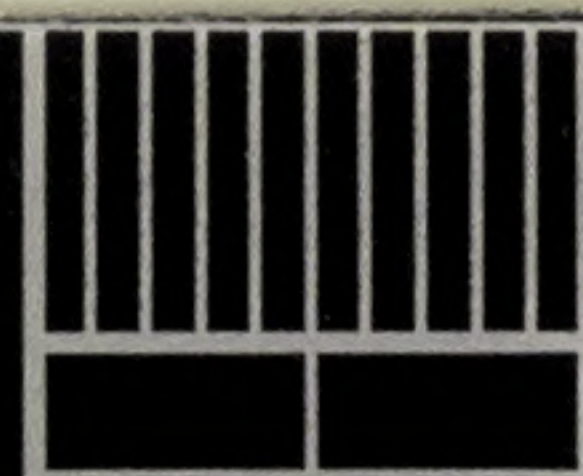
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Feb 12 1877

*Girardinia*

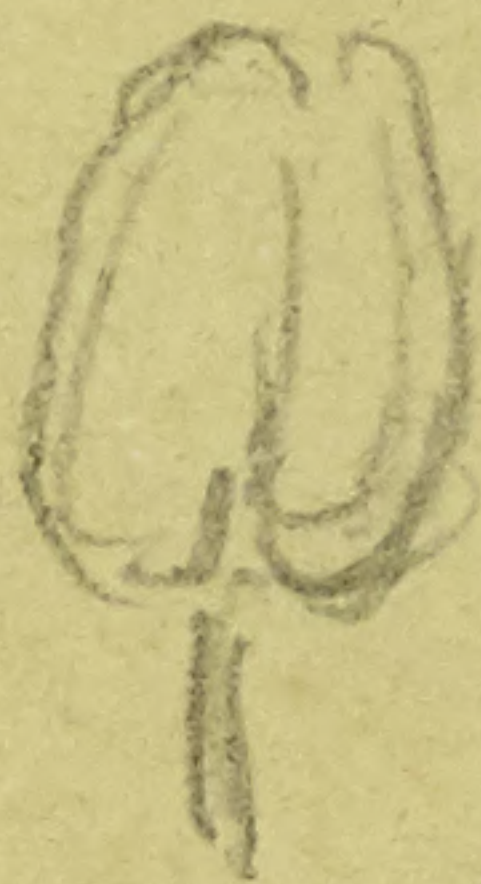
(looks like *virens*, with long peduncled fruit)

Camp Apache, & Rothrock July 1874



Calyx 7-10.

very woolly



usually 5 anthers

Shades tomentose  
Calyx very woolly  
5 lobed

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1. 3. red leaved  
Michey

2 Michey Knobley  
Cup

4. Michey. fr. pedunc.  
= birt

5 typical Michey  
fl.

above hoary leaf  
especially below on ribs  
single hair



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*g. bicolor* 6-8  
Litter stem  
cut stem 7-8(-9)  
Litter  
Mushy only 8-9(-10)  
H

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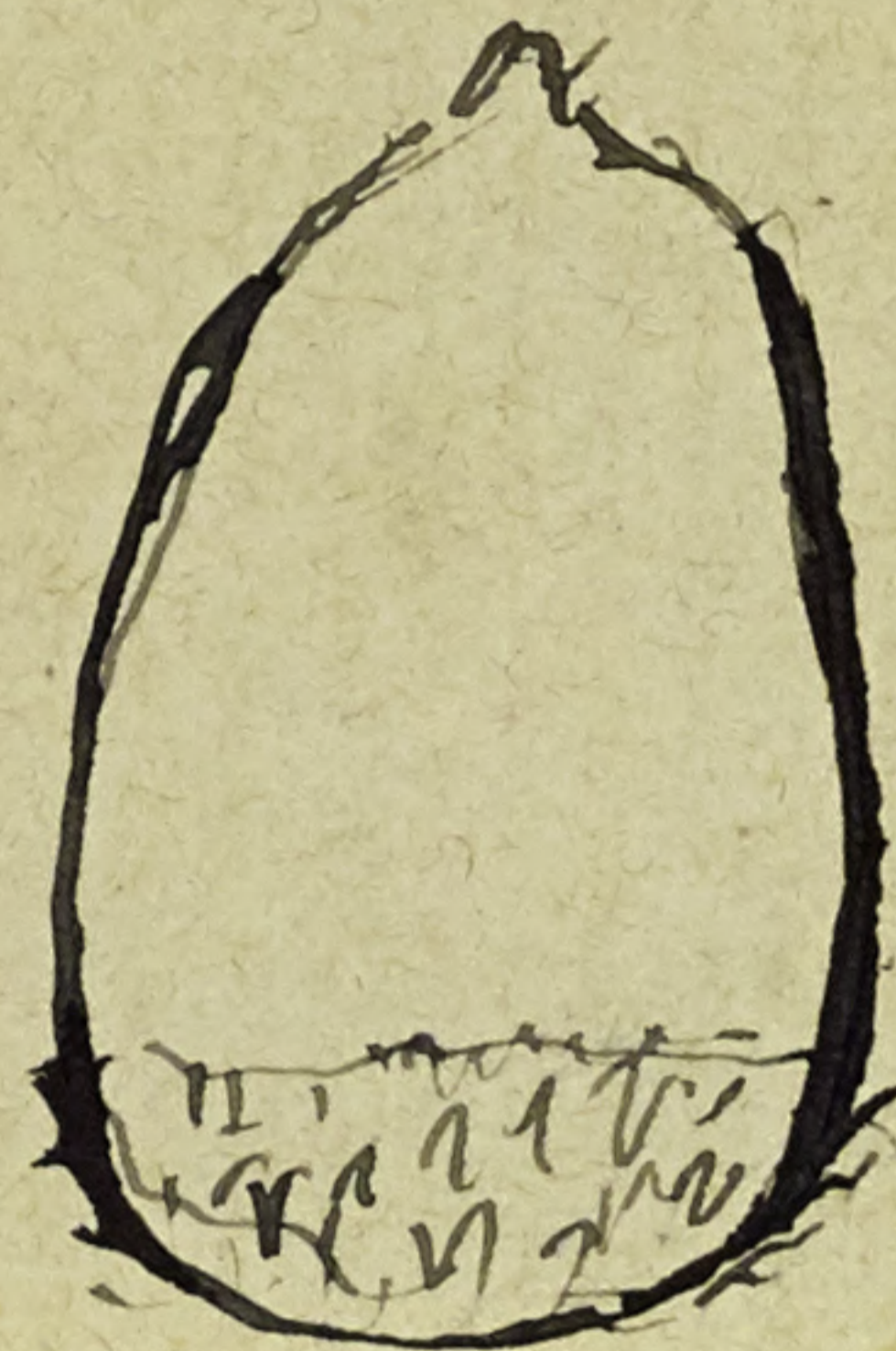
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The same was distributed  
by D. A. Kellogg & W. G. W. Hartford  
1868-9 under No. 911.  
(Hb. Agr. Dep. 1881)

= my San Gabriel tree.



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Embryos of Quercus Feb 20 1880.

Quercus Blackoaks have <sup>stalk</sup> stipe of Cotyled. shorter than  
caulicle;

Much shorter, less than half as long, in Coccinea strimontoni,  
rubra ilicifolia agrifolia

shorter in nigra, imbricaria, pumila Kelloggii  
densiflora the same

Whiteoaks have <sup>stalk</sup> stipe of Cotyled. mostly longer than caulicle

alba stellata Prinos bicolor Muhlenbergii Muhlbergii

prinoides Garryana, Douglasii Breweri, densa purpurea  
occidentalis serotina, viridis longicauda  
shorter than Caulicle I find it in:

macrocarpa & undulata (except var purpurea) in pedunculate  
varb trunc as long of Europe  
very much longer, but connate in Q. virens

Chrysolepis has very short stipes and apparently large plumule

The hybrid of macrocarpa & alba has the Cotyled. stipes  
as long as in alba, but the plumule unusually developed.  
(a hybrid character ??)

hybrids alba Prinos & alba macrocarpa much like alba

to exam chrysolepis & Eschscholzi & purpurea



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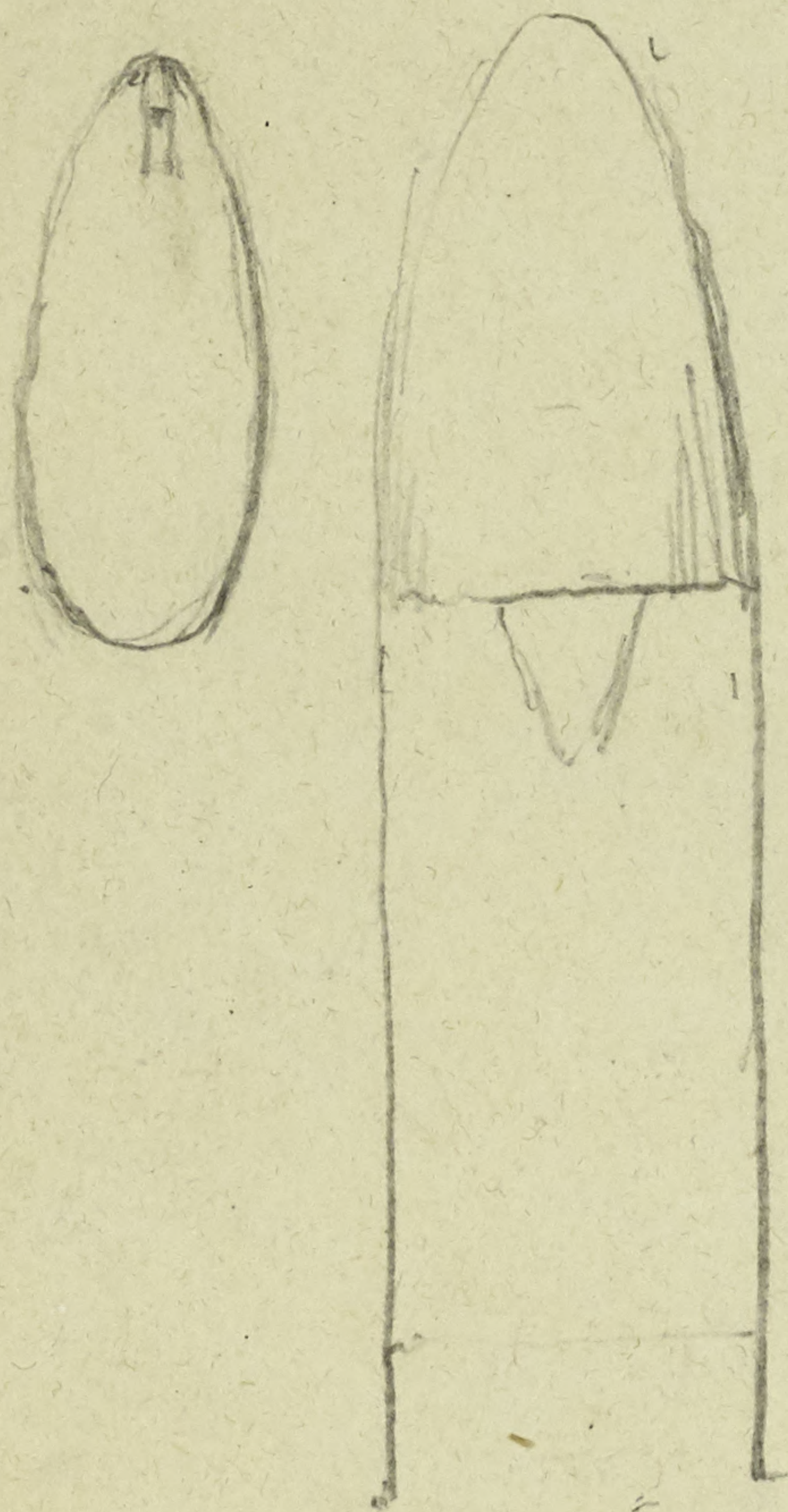
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*Quercus occidentalis*

Feb 25 1880

cult Frisco, Versailles

J. Gay



DR. GEO. ENGELMANN,

OFFICE: 201 South Fifth St.,

RESIDENCE: 3003 Locust St.



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