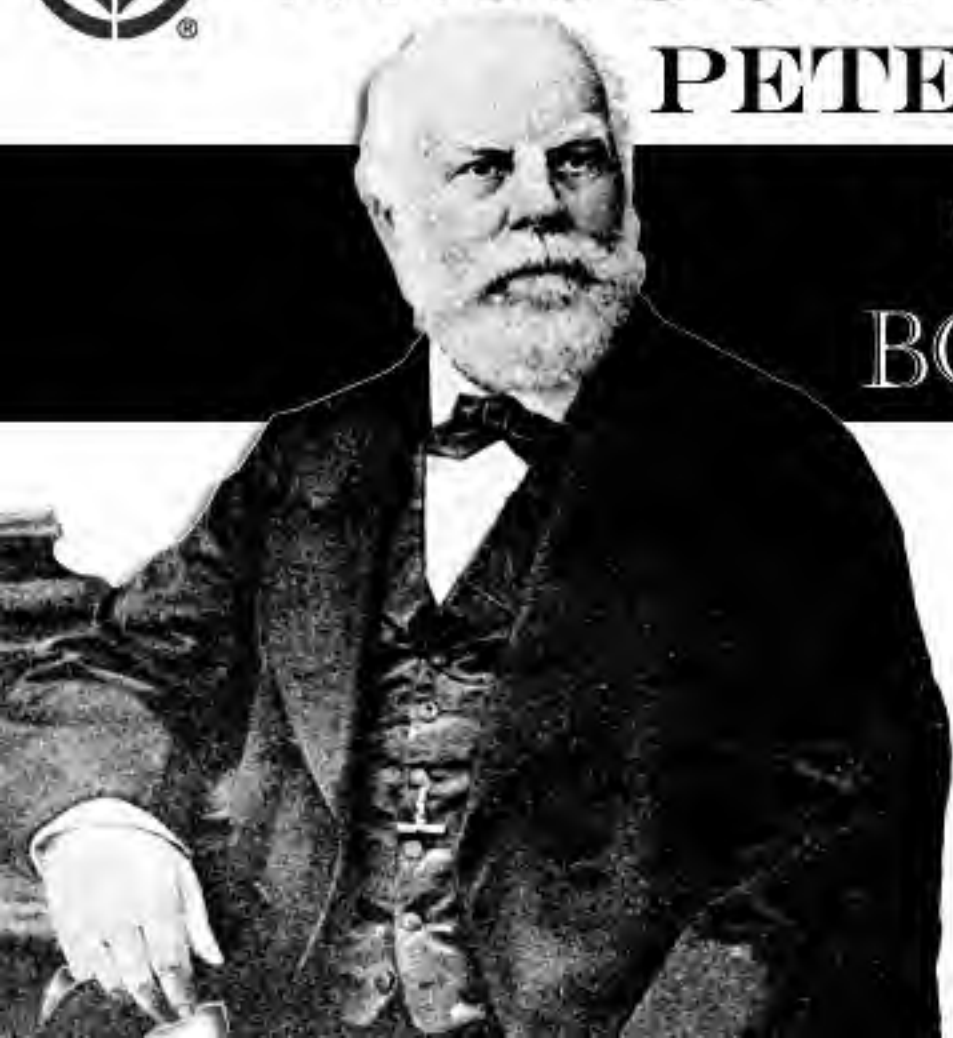




MISSOURI BOTANICAL GARDEN
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GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

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.

Show Tulips.

No.	Purchaser's selection	each.	per dozen	s. d.
	—	—	—	3 "
	—	—	—	2 "
1169.	Absalon. Light slate violet, flaked with pure white and blackish purple, a superb variety.			
1129.	Andromeda. Carmine, delicately striped with pure white.			
1079.	Belle Virginie. Snow white, flaked with deep violet and marbled with black.			
1168.	Bienfait incomparable. White, finely striped with maroon, a blood red reflex on the edges; a vigorous variety.			
1049.	Empereur Napoléon. Large, of good form, pure white, striped with purple.			
1003.	Feu de Lille. Lemon yellow, flaked with deep red and mahogany brown.			
1070.	Fidès. Cherry red, striped with pure white.			
1165.	Globe terrestre. Very large, white and yellow, flaked and striped with carmine on the edges.			
1172.	Globertine. White, finely striped with purple, with a cherry red reflex.			
1167.	Gloria mundi. Beautiful canary yellow, slightly flaked with mahogany brown; a vigorous variety.			
1041.	Jacqueline. Lilac, flaked with white and deep purple.			
1055.	La circassienne. White with a canary yellow reflex, striped with blood red and shaded with carmine, large.			
1164.	La guerre. Of perfect form, white, flaked and marbled with violet and deep purple.			
1166.	La sultane. Large, pure white, slightly striped and flaked with carmine.			
1170.	Le soleil. Straw yellow, flaked with blood red carmine, handsome.			
1133.	L'Étoile Belge. White, flaked with mahogany brown and shaded with violet.			
1060.	Liévin Bauvens. Straw yellow, slightly flaked with deep violet, with a mahogany brown reflex.			
1058.	Lisette de Béranger. Of very good form, lemon yellow, flaked and marbled with mahogany brown.			

8
(see oxycarpa)
2. J. J. J. J.

var.abilis E
leaves = 2^d or 3th
flower scales = 2' or 3'
inner of scales contrasted to stippled at base

and rough or smooth

3
leaves or more

Wm. Parry
Wright 1882
1883
part

Parry 1882
1883
part

Parry 1882
1883
part

Parry 1882
1883
part

86 7-8/10



0 1 2 3 4 5 6 7 8 9 10
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13426

ASSORTMENT H. — FINE

100 bulbs	2	10
50 —	1	8
25 —	1	"
12 —		

ASSORTMENT I. — Fine mixture of varieties with white ground (rose and violet) and yellow ground (bizarres) :

100 bulbs	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	6
50 —	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	8
25 —	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	"
12 —	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	3

6th SERIES.

EARLY DOUBLE-FLOWERED TULIPS.

The flowering season of these Tulips is at the same time as the early single-flowered Tulips and are adapted for forcing in pots.

N ^o .	Height in centim.		Each s. d.	Per cent. s. d.
432.	0,35	Couronne de roses (FLORE, XVI, 143). Bright satiny rose, very double and magnificent	" 2	12 10
446.	0,30	Duc de Bordeaux . Brown red, edged with yellow.	" 2	12 "
440.	0,30	Duc d'York . Red, edged with nankkeen yellow, very double	" 1	4 10



see over for specimens

essent
fruit single (rarely 2)
rough

Ephedra viridifolia

2-3 leaves

♀ 5-6 pairs or verticils (3) of rough ^{denticulate} scales

immovably contracted at base and united

at insertion
only with base itself

♂ anthers 4-6 subsessile, ^{or short stalked} scales
in pairs or 3^d

lowest - verticil sterile

Only sp with 2 or 3 leaves or scales

near *argyrea*

argyrea has always leaves in pairs & smooth fruit

viridifolia - - - 2 & 3 - - - rough fruit

but there are other intermediate ones, leaves 2 & 3, &
El Paso Argilosa & Virgata - - - smooth fruit



0 1 2 3 4 5 6 7 8 9 10

cm

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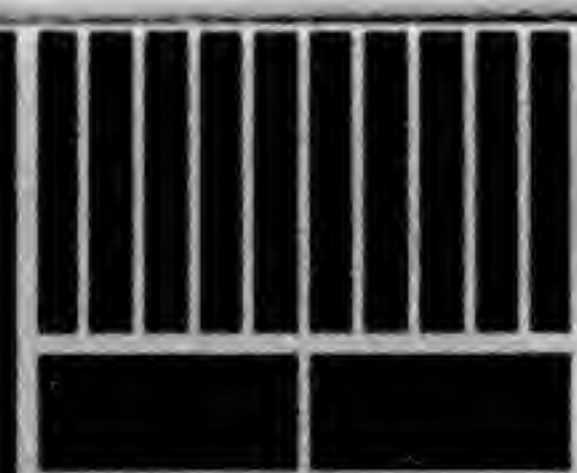


MISSOURI
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Frontera, Wright 1851 NR 1882
— — — 1883
— Parry 1852

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GEORGE ENGELMANN PAPERS



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11

It is specially among the double Hyacinths that varieties are met with which never produce but small bulbs; unfortunately, all purchasers are not aware of this; hence they believe themselves badly served, if, on examining the bulbs they have received, some are found to be small. When planting, we strongly recommend those who are unaware of this, to specially mark the small ones, and they will find, at the period of flowering, that the size of the bulb has not, in any way, influenced either the dimension of the spike, or the beauty of the flowers; the sorts, in the following list, to which the figure (L) is attached, are those which produce the largest bulbs; those marked (S) produce the smallest bulbs.

871-4
P. Jorjiana Walsby - part 3
Walsby, Perry

No		s. d.
502.	* A la mode. <i>Pale blush</i> , lilac eye, bells very double, reflexed	5
503.	* A la mode. <i>Porcelain blue</i> , tinted with grey and striped with violet.	5
504.	Albion. Very double, large pyramidal truss, deep blue with slate reflex; a late-flowering variety	5
506.	* Alida Catharina. Delicate satiny rose, as double as the finest Delphinium; a very early variety, admirable.	5
507.	* Anna Maria. White with violet centre, lobes tipped with green (L).	5
525.	Baron von Rothschild. Very bright red, large, very double	10
540.	* Blanchard. Pure white, pretty truss.	8
530.	* Bloksbergen. Pale porcelain blue, large bells and truss, fine (L)	5
532.	Bouquet orange. Pale nankeen, shaded with rose, very peculiar (L).	6
534.	Bouquet royal. (FLORE, XII, 91). White, shaded with <i>pink</i> , dark centre, very fine (L)	4
529.	Bouquet royal. Large, fine pure <i>white</i>	8
536.	* Bouquet tendre. Rich red, finely proportioned truss (L).	4
537.	Bride of Lammermoor. Fine blue with violet eye, superb truss.	5
546.	* Carl Kroonprins von Schweden. Greyish blue, fine pyramidal truss.	5
548.	* Cochonille or Éclipse. Very bright carmine; a charming variety (S).	5
549.	* Cœur fidèle. Pale pink with violet eye, very double, fine truss	5
552.	* Comte de St-Priest. Pale porcelain blue with lilac reflex; a very effective variety	8

wright H May
1883 - part
H George Perry
250



- 689.
- 698. * **Jenny Lind**. Pure white with purple eye, 1
- 696. **Jonathan**. Fine, semi-double, rose 3
- 697. * **Joséphine**. Very large, handsome bright pink 10
- 706. **Koh-i-Noor**. Extremely bright rose, very large pyramidal truss (L). 3
- 738. * **L'abbé de Velrac**. Light blue, very double 1
- 722. * **La belle alliance**. Rose, tipped with green, bells finely imbricated 8
- 724. * **La déesse**. Pure white, large truss 1
- 726. * **La Tour d'Auvergne**. Pure white; a very early variety (L) 5
- 727. * **Laurens Koster**. Deep blue, shaded with violet; a very effective and very fine variety 5
- 745. * **La virginité**. Pure white, large bells and truss 8
- 750. **L'élégance**. Dark red, beautiful well-garnished spike 5
- 728. * **L'espérance**. Pretty rose with nankeen reflex; an early variety (S). 10
- 729. **Lieutenant Waghorn**. Deep red, very large bells and spike 4
- 741. **Lord Palmerston**. Grand spike, very fine slate blue 10
- 733. * **Lord Wellington** (FLORE, XIV, 185). Tender *rose*, immense bells, admirably formed truss, very fine 8
- 734. * **Lord Wellington**. Very fine *blue*, lilac corolla, medium truss 6
- 735. * **Louis d'or**. Pretty nankeen yellow (S). 5
- 736. * **Louis-Napoléon**. Fine deep red, pyramidal truss 6
- 746. * **Louis-Phillippe**. Porcelain blue, large and handsome bells 1
- 778. * **Madame Marmont**. Azure blue, delicately shaded with white 8
- 780. * **Maria Louisa**. Rose, well-formed bells, beautiful truss 6
- 784. * **Mathilde**. Beautiful, delicate rose; a very early variety 5
- 786. * **Mignon de Dryshout**. Violet lilac, fine truss, of good size (L) 5



0 1 2 3 4 5 6 7 8 9 10

cm

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Ephedra Torreyana Wats. Kanab S. Utah

Mrs Thompson 1872

Santa Fe, New Mexico

Cotton woods near El Paso Arizona

Frederic W. Weyl 1883 - part

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♀ 5-8 verticils of scales, scales very thin, membranous,
smooth denticulate - orbicular or reniform,
striated, convolute 2 or 3, upper verticils equal,
1-3 more or less rough netted tapering
(young ones) not so strongly exserted

♂ scales in 3' orbicular, contracted at base,
denticulate - perian narrow, cuneiform,
enclaved, often 5-7 digits



0 1 2 3 4 5 6 7 8 9 10

cm

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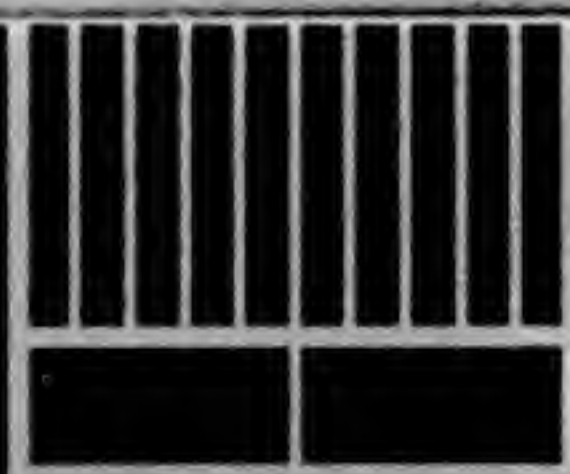
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Epilobium densiflorum Nutt. Kansas J. W. W. H.
New Thompson 1872
Butte Co. California
Cottonwood near Wilson's Agency
Kearney July 1872 - 1873

13429

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GEORGE ENGELMANN PAPERS

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



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Phedra Torringtonia Wilson

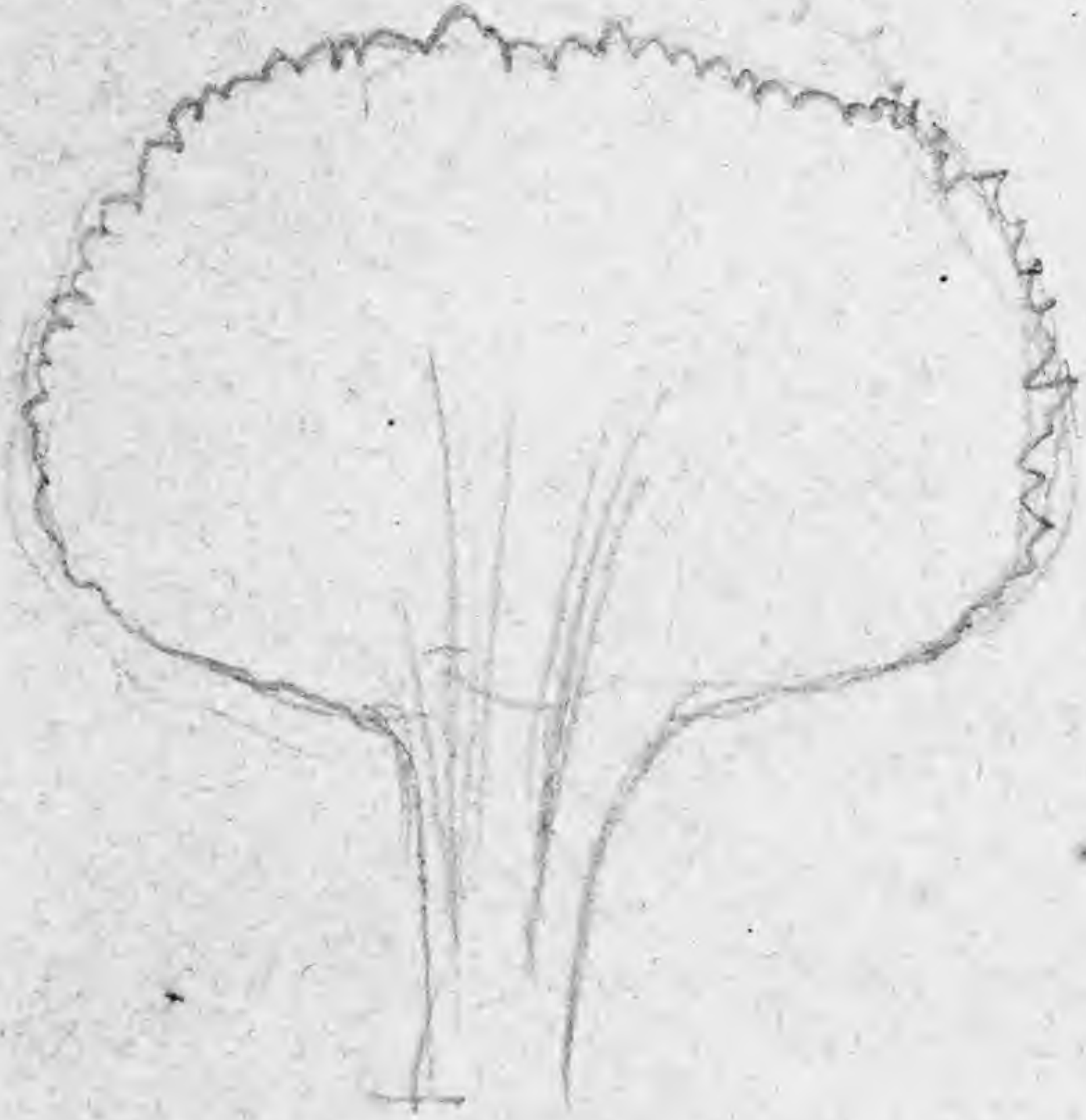
June 17 1882

South Whales, Parry, 1874 No. 250

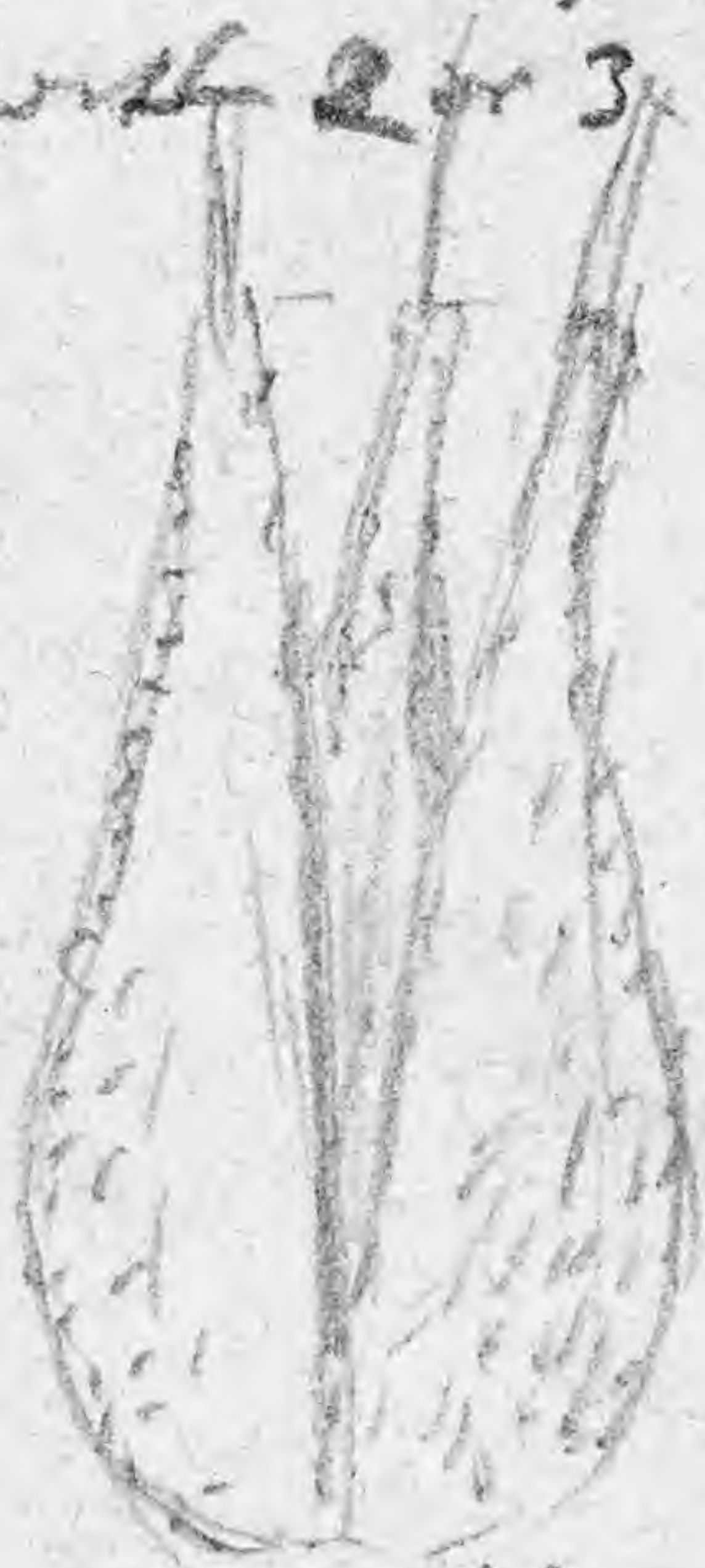
alkaline soil

x4

♀ 8 verticils of 3 bracts (24)
length 2 or 3 very small

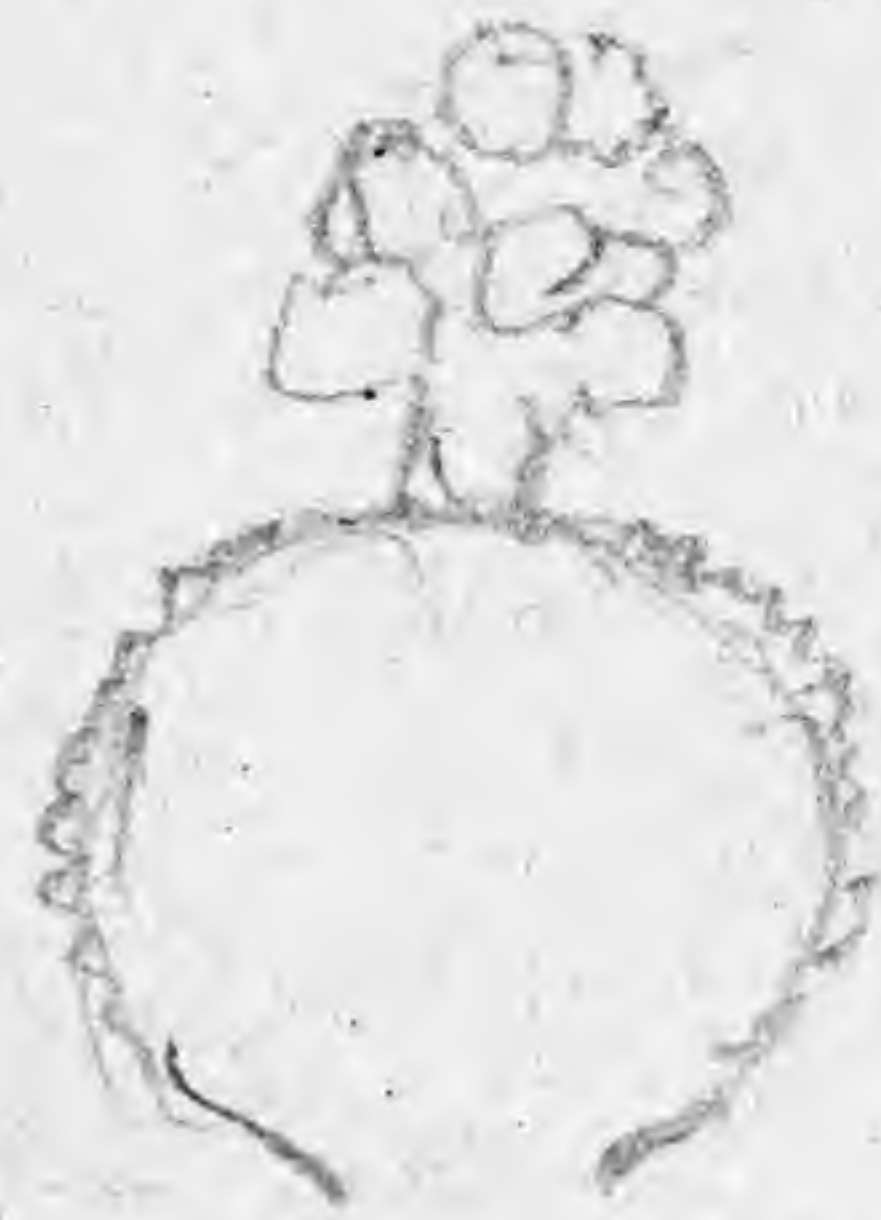


inner scales

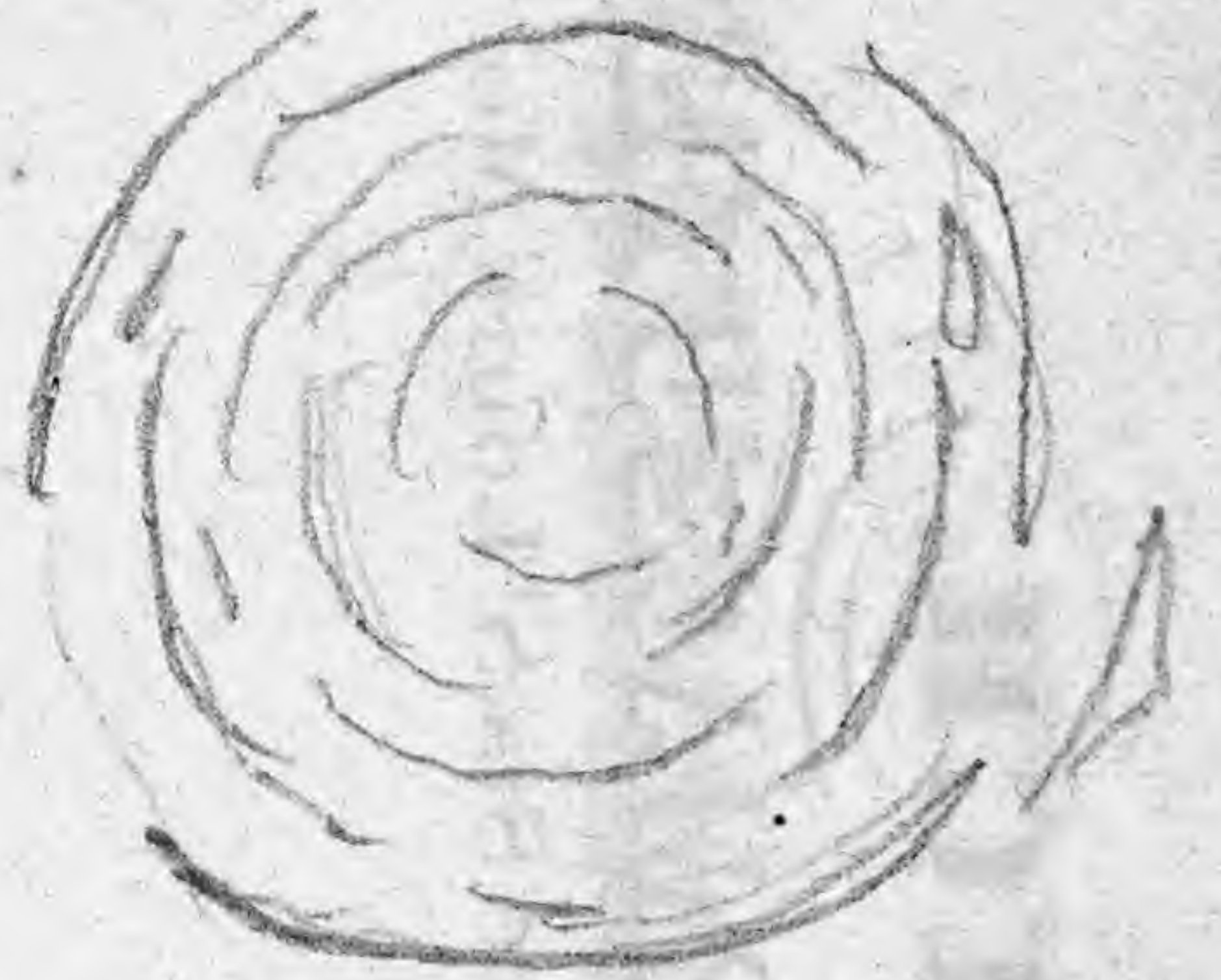


3 pistils

x4



6-7-8 phod
slipster anthers



♂

small
globose

sheath as long

as bract, not exserted at all
bract contracted at base

lower pairs of bracts carinate
small; — bracts cross

then 2 empty verticils of 3,
after that fertilous

x4



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GEORGE ENGELMANN PAPERS

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

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



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cm

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E. spinosa E

Paris 1385

222

LOUIS VAN HOUTTE'S CATALOGUE (1879-80).

11th SERIES.

SUNDRY TULIPS. — *Botanical species.*

No.	Height in centim.		Each. s. d.	Per dozen. s. d.
4272.	0,30	<i>carinata rubra.</i> Beautiful red	" 3	2 "
4273.	0,30	<i>Clusiana.</i> Flower widely distended, exterior rose, interior and edges transparent white	" "	4 "
4274.	0,50	<i>cornuta (stemopetala).</i> Yellow lanceolated petals with red tips.	" 2	1 3
4277.	0,30	<i>Elchlerl.</i> Dazzling red	" 1	" "
4279.	0,50	<i>Morentina.</i> Lemon yellow, delightful violet-scented	" 3	2 "
4280.	0,30	<i>fulgens.</i> The most bright brilliant red	" 3	2 "
4283.	0,45	<i>Gesneriana (hortensis).</i> Bright crimson with pansy blue eye.	" 2	1 3
4284.	0,30	<i>Greigl.</i> Orange red with black and yellow eye, leaves spotted with dark brown	" 2	" "
4285.	0,30	<i>Kolpakowskiana lutea.</i> Yellow	3 3	" "
4286.	0,30	— <i>rubra.</i> Red	3 3	" "
4287.	0,35	<i>lutea.</i> Fine golden yellow, good form.	" 2	1 3
4288.	0,50	<i>Oculus solis.</i> Vermilion with black eye	" 2	1 3
4290.	0,20	<i>persica.</i> Yellow, sweet-scented.	" 3	2 "
4292.	0,30	<i>retroflexa.</i> Canary yellow	" 3	2 "
4293.	0,40	<i>stellata.</i> White, small, starred	2 6	" "
4294.	0,25	<i>sylvestris.</i> Lemon yellow	" 3	2 "
4296.	0,40	<i>turcaea.</i> Tongue-shaped, lacinated petals, yellow, edged with shiny reddish carmine	" 3	2 "
4298.	0,50	<i>viridinora.</i> Green with whitish reflex; a very curious species.	" 3	2 "

AND OUTLINE



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9th SERIES.

EARLY DOUBLE-FLOWERED TULIPS WITH VARIEGATED LEAVES.

N ^o	Height in centim.	Description	Each. s. d.	Per cent. s. d.
448.	0,30	Duc de Tholl. Red, bordered with yellow, leaves richly edged with a <i>silvery white</i> ribbon	1 3	" "
447.	0,30	Duc de Tholl. Red, bordered with yellow, leaves slightly streaked with <i>golden yellow</i> on the edges	" 5	" "
568.	0,30	Rex rubrum. Scarlet, shaded with carmine, leaves delicately bordered with white	" 3	20 "
543.	0,35	Rose jaune. Beautiful yellow, sweet-scented, leaves bordered with yellow	" 3	16 "
587.	0,30	Tournesol. Red, edged with lemon yellow, leaves slightly streaked with yellow.	" 10	" "

EARLY DOUBLE-FLOWERED TULIPS.

bulbs in fine mixture	s. d.
100	6 6
50	3 8
25	2 "
12	1 3

LATE DOUBLE-FLOWERED TULIPS.



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Ephedra sp.

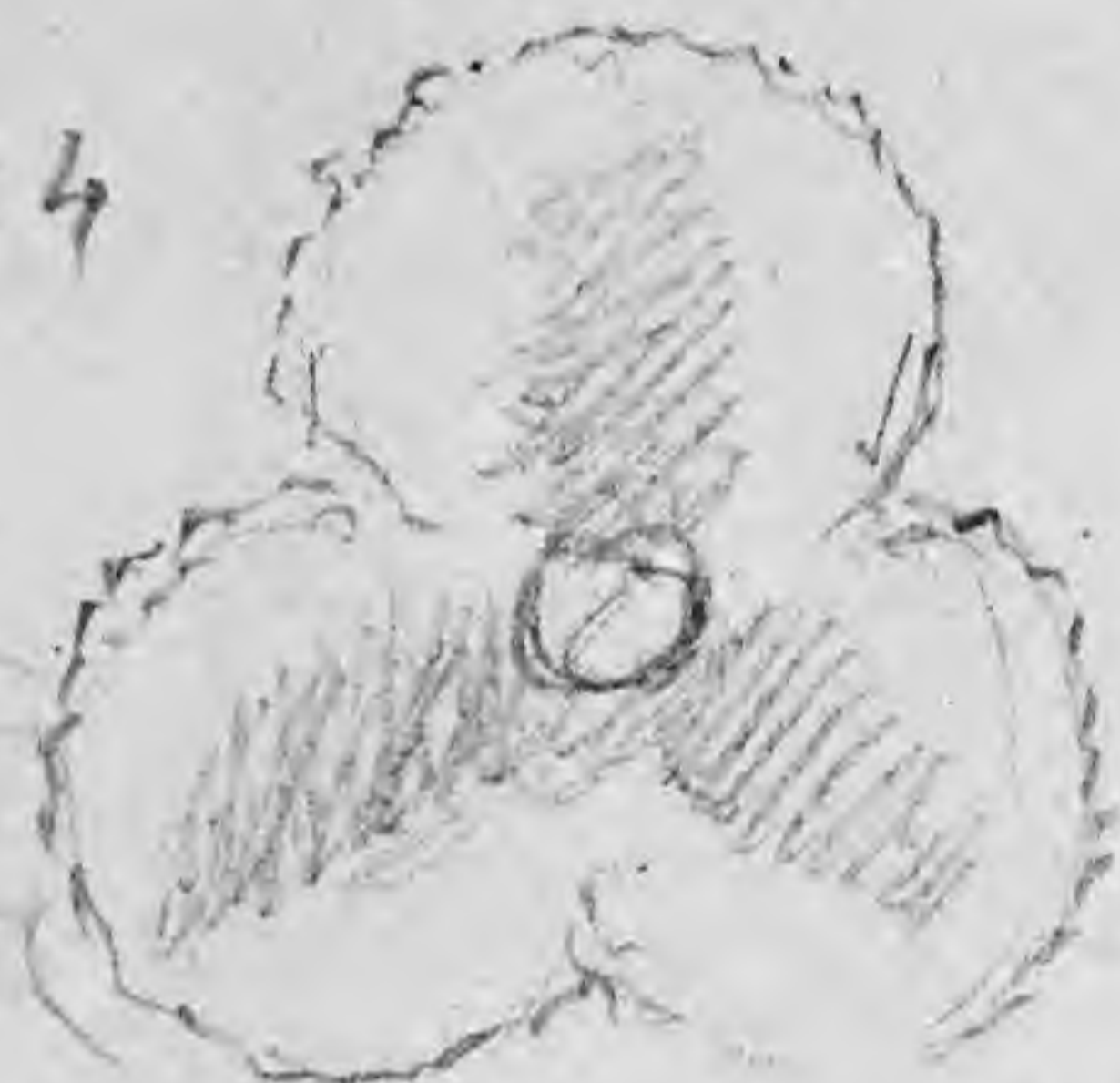
June 15 1882

♀ *Mt.* in Mohave Desert N. 1385

5 x 8 mm

Parish May 1882

x4



3^d verticil of bracts



one of the inner
most bracts x4
of 6th verticil
containing a beak,
oval; denticulate crosse
on membranous
margin



young seed
single



lower
verticil of
cupules

x4



upper

x4

albida!

18 bracts in
6 verticils



0 1 2 3 4 5 6 7 8 9 10

cm

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13432

A. SZERENYI'S
LEFFINGWELL AVENUE DRUG STORE,
2746 Morgan St., Cor. Leffingwell Avenue.

E. F. SAILOR, PR. ST. LOUIS.

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GEORGE ENGELMANN PAPERS

B

GEORGE J. ENGELMANN, M. D.,
Office, 411 Olive Street. Residence, 3003 Locust Street.



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cm

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17

Ephedra

Dec 11 '82

X4

Wright, Fremont

№ 1883

part

ex HG Gray



one of the
lowest verticils



5-6 verticils



young fruit
single, very rough

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cm

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Ephedra

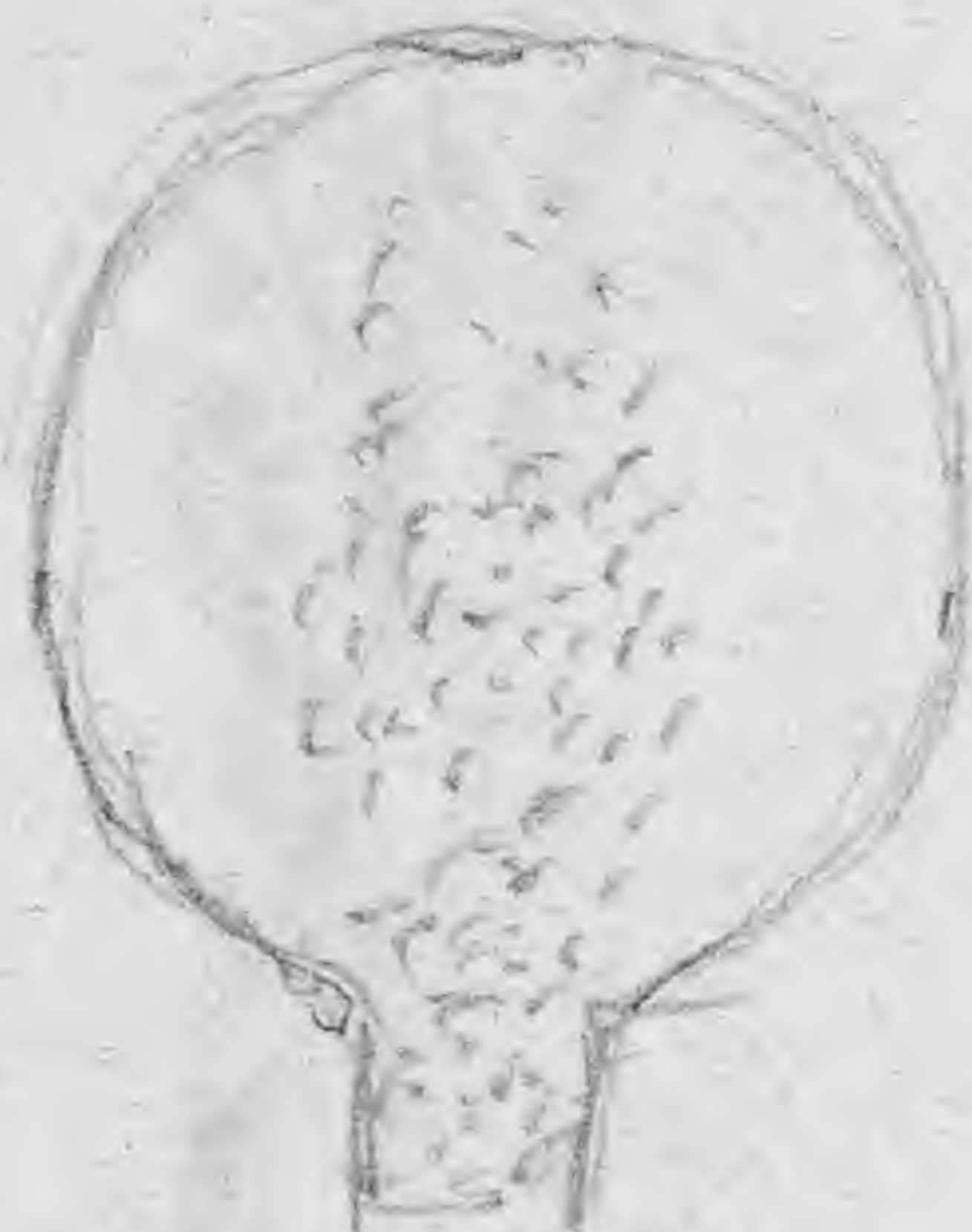
June 17 1882

Fontaine, Paraguay 1852

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leaves - ♂ - 3'
- ♀ sp. - 2'
or 3'

x4



innermost scale
mostly pairs
5 pairs or usually
lowest very small
gradually larger
scales outside rough

young fruit
as long as scales
rough
single



leaves more frequently in pairs

♂ - 3'

about 5 or 6 joints and
below 1 st. vert. of
scales -

sheaths as long as scales
usually about 6 (first)
anthers, stipitate

below the lowest joint
(of 3) of the ♂ plant is a
pair of scales or bracts
lateral to the supporting bract



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI BOTANICAL GARDEN
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Leitch & Corlies

DRUGGISTS

South-west
Corner Fifth
and Market
Streets



0 1 2 3 4 5 6 7 8 9 10

cm

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Ephedra
 Saltillo, Perry

Dec 8 1882

MISSOURI BOTANICAL GARDEN
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A pair of scales
 slightly rough
 on back



immersed
 scales contorted
 at base, almost
 free

seed single



seed (unripe)
 enclosed



stem x60



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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♂

Ephedra

June 19 1882

Castrovela, Mexico

S. Gray 414

x60

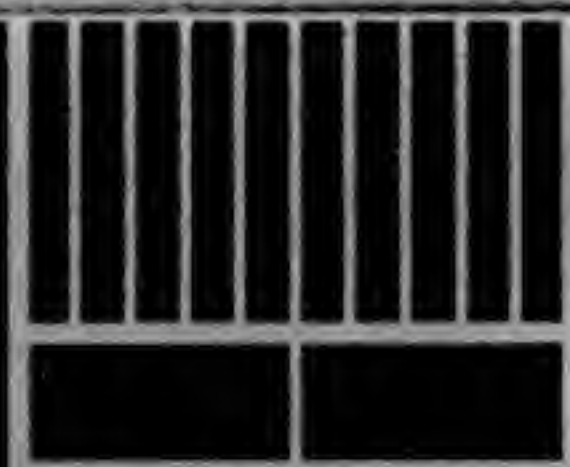


stem very rough

x10



connate scales all but the lowest
fertile; sheath exserted
anthers mostly 6, stipitate



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI BOTANICAL GARDEN
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Leitch & Corlies

DRUGGISTS

South-west
Corner Fifth and Market
Streets



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cm

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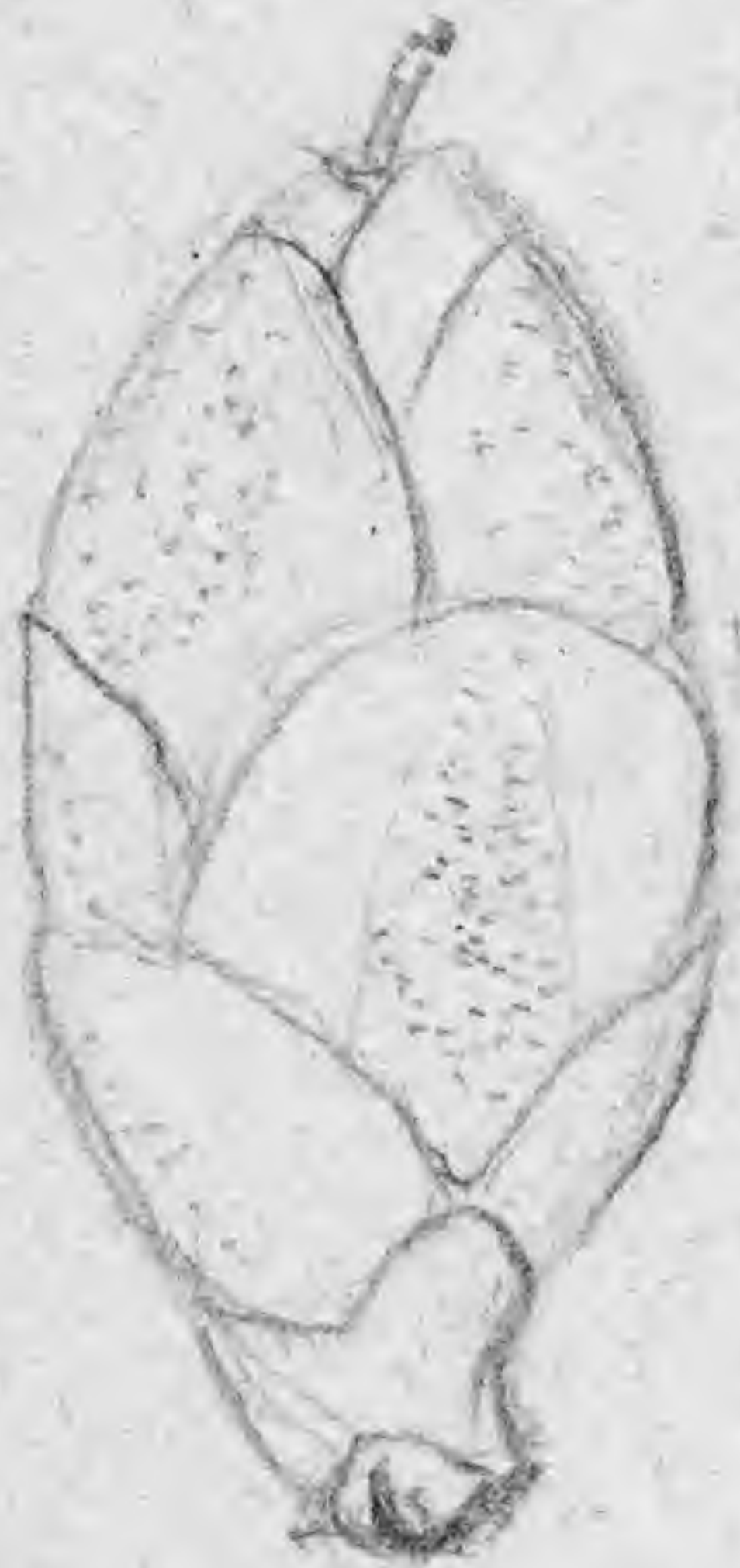
Ephedra
Sierra Madre

Dec 6 1882

E Palmer 1282

just in flower

x4



sessile

5 pair of scales
and 1 pair of small
bracts at base
scales orbicular



inner most
pair of scales
only united
at contracted
base
strongly overlapping
each other, slightly
rough on back



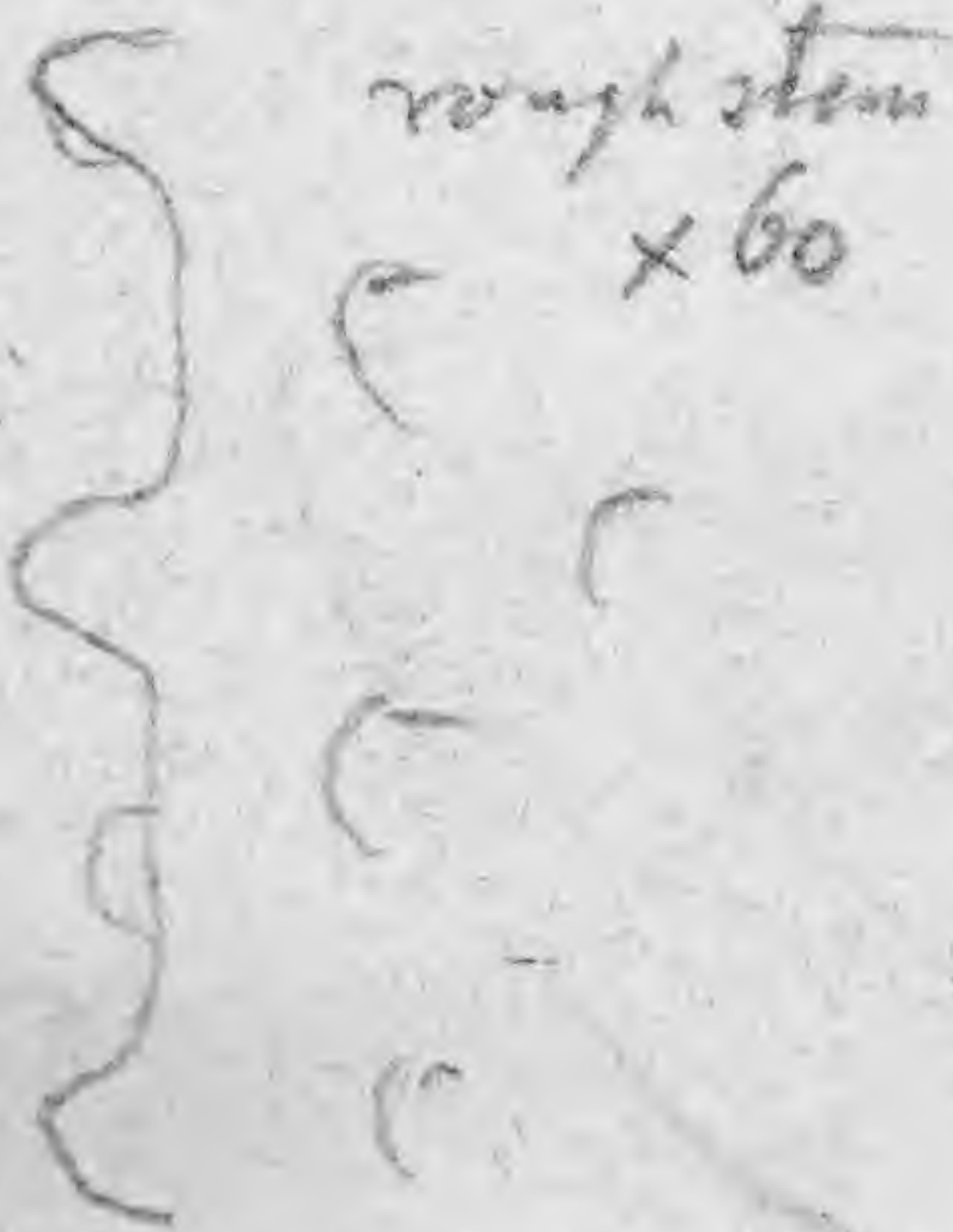
scale
spread out

x4



4-6 stamens

scales orbicular
united at base
rough on back



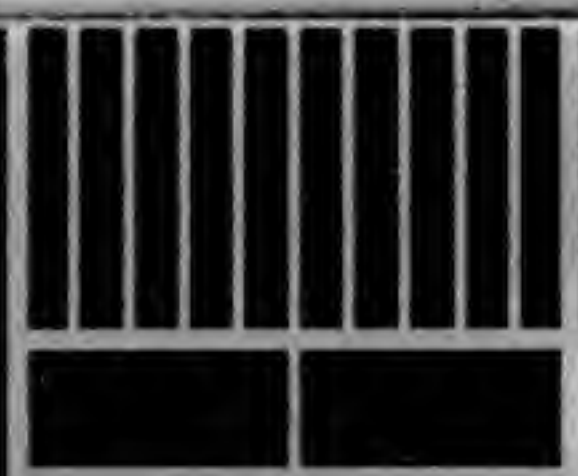
rough stem
x60

seed single



x10

6 stamens from
a bud



0 1 2 3 4 5 6 7 8 9 10

cm

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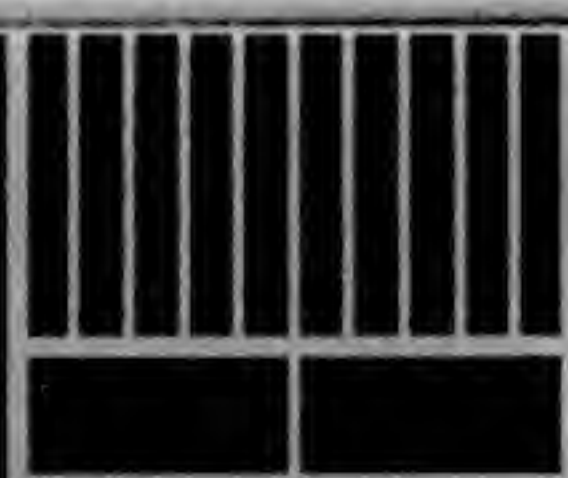
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Leitch & Corlies

DRUGGISTS

Corner Fifth
Market
Streets



0 1 2 3 4 5 6 7 8 9 10

cm

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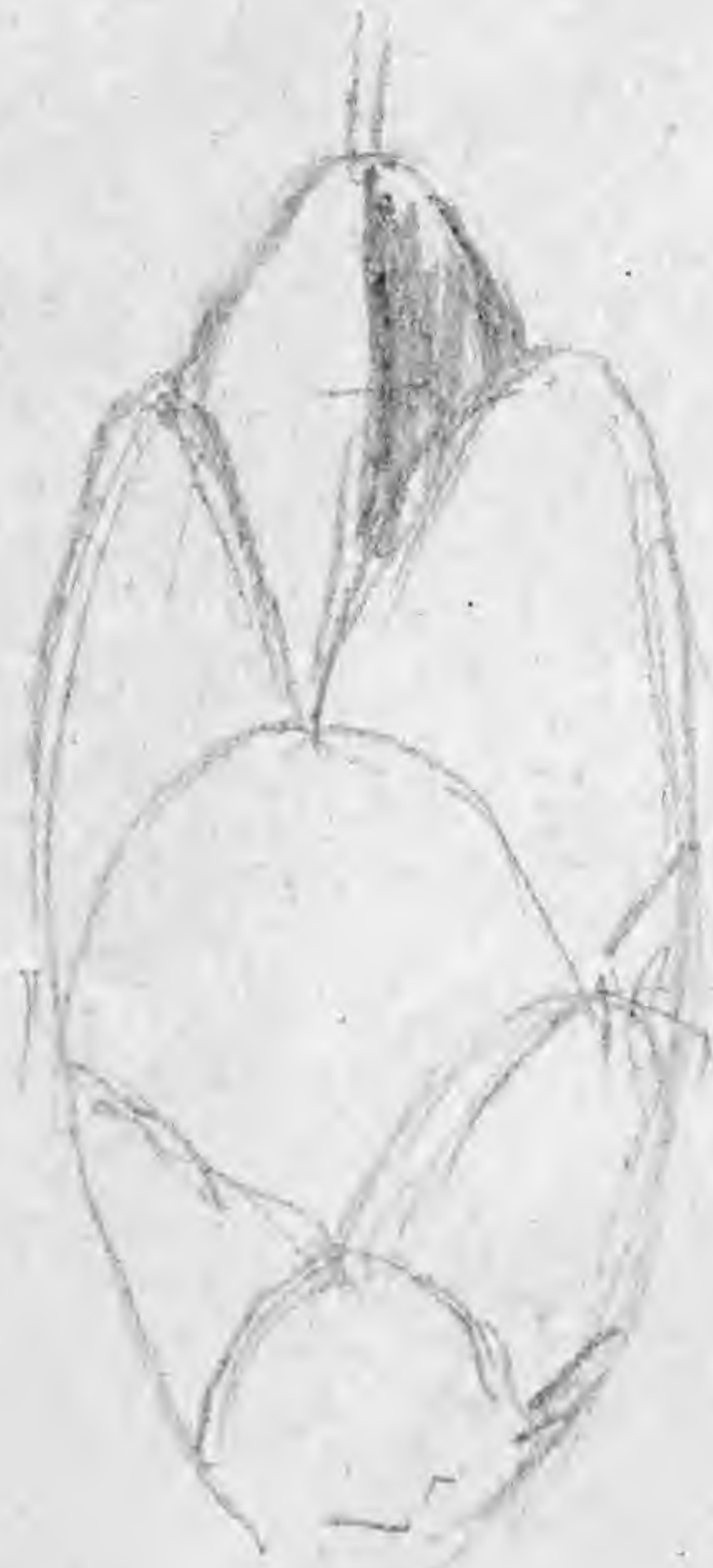
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Ephedra

Saltillo, G. Parry 1878

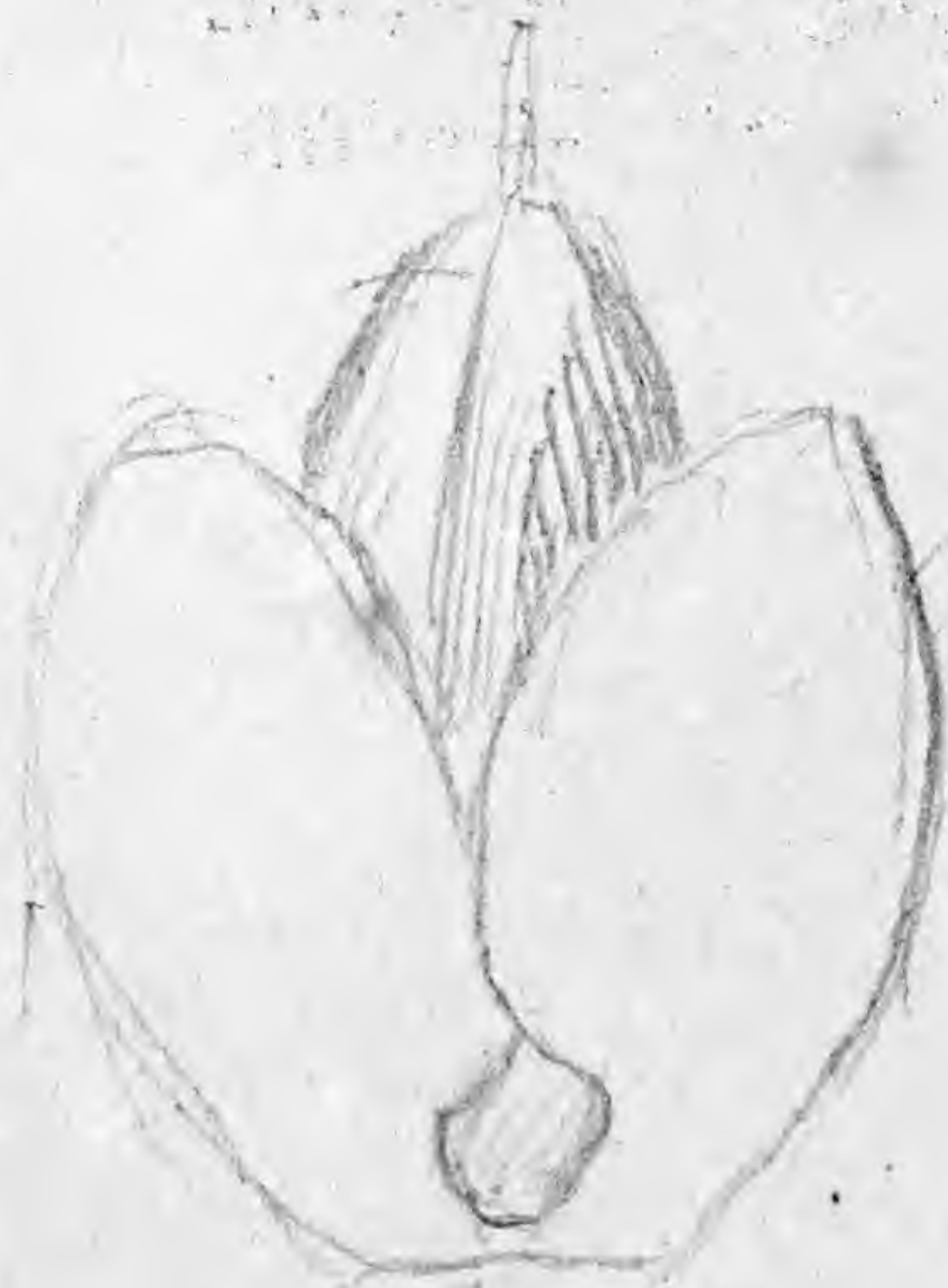
June 19 1882

no. number



4 pair of scales
or 5

single ovule



inner scales
contracted at
base into a broad
stipe; margin thin
membranaceous

stem quite rough



x60



0 1 2 3 4 5 6 7 8 9 10

cm

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13438

Alex. Leitch

APOTHECARY & PHARMACEUTIST,

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



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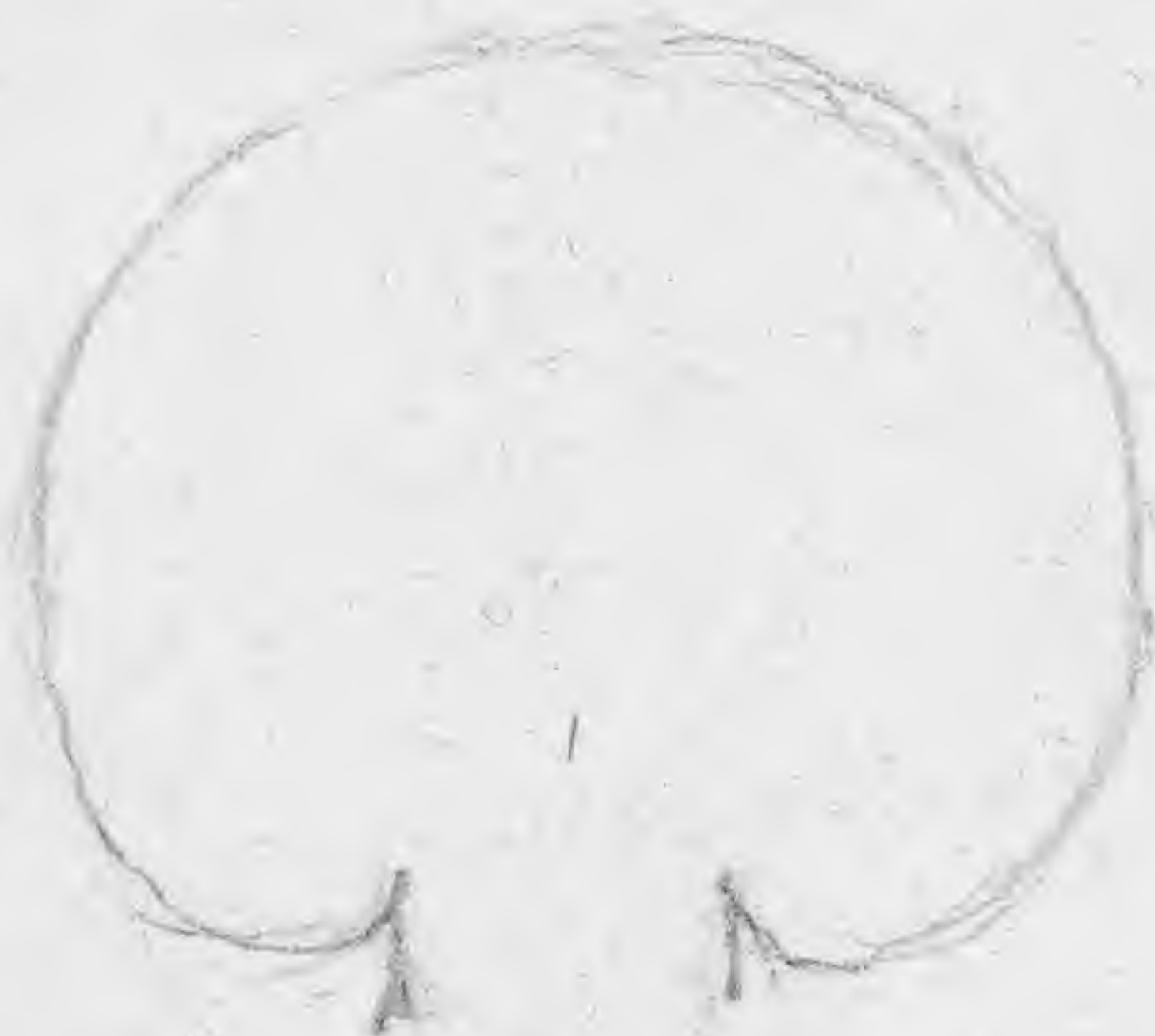
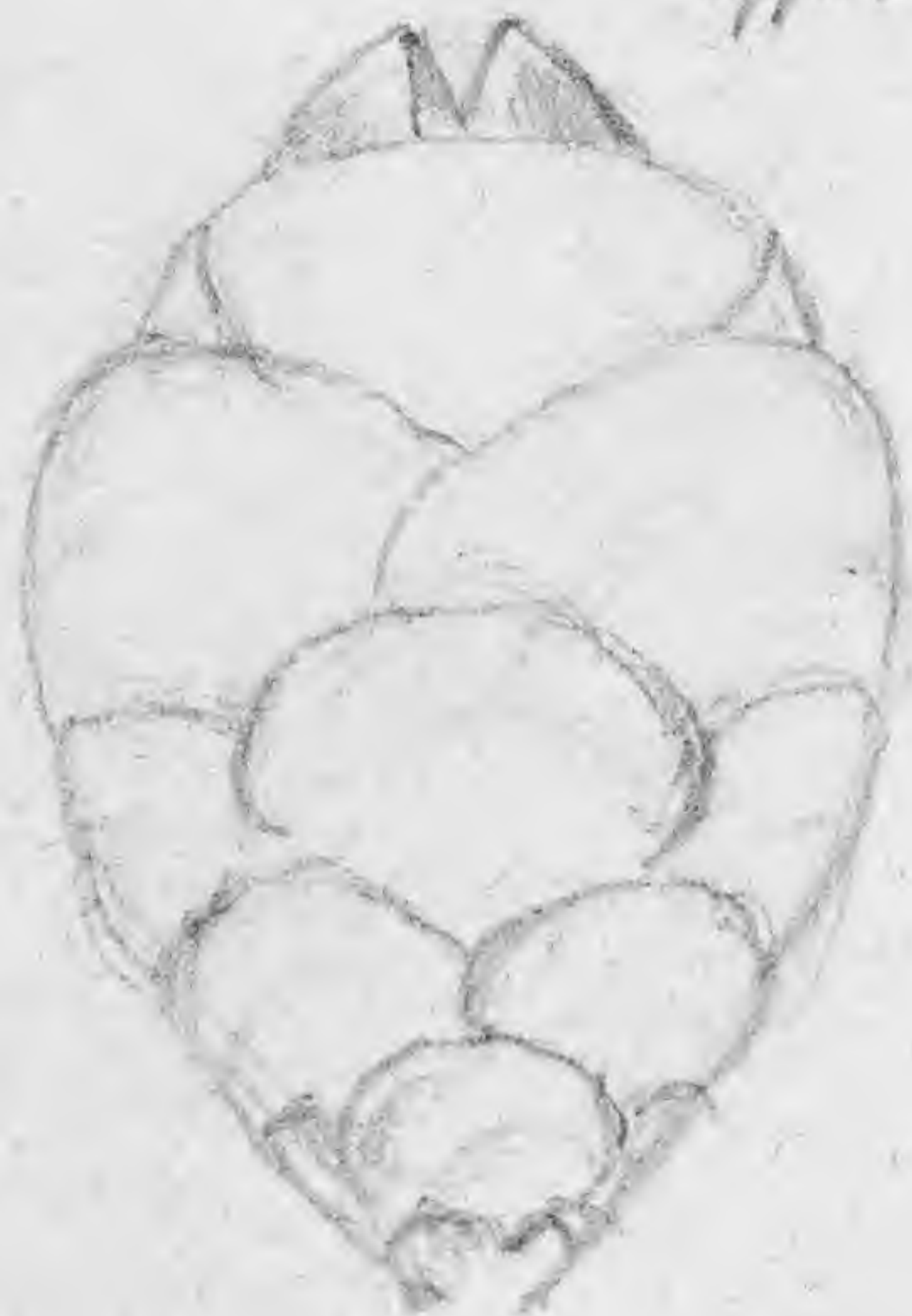
Ephedra Californica

Dec 12 1882

nd 2 scabrous!

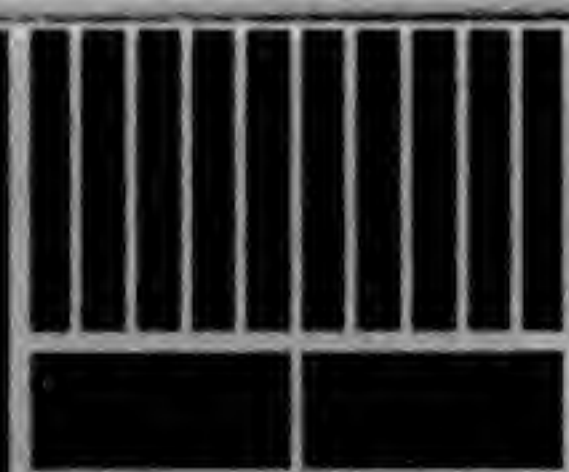
San Diego, Calif. Dr. Parry 1882

marked cones and then
apparently 2!



one of the
innermost
scales

6 verticils
scales broadly orbicular,
overlapping; innermost ones
auriculate, short and broad.
Striped



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

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MISSOURI BOTANICAL GARDEN
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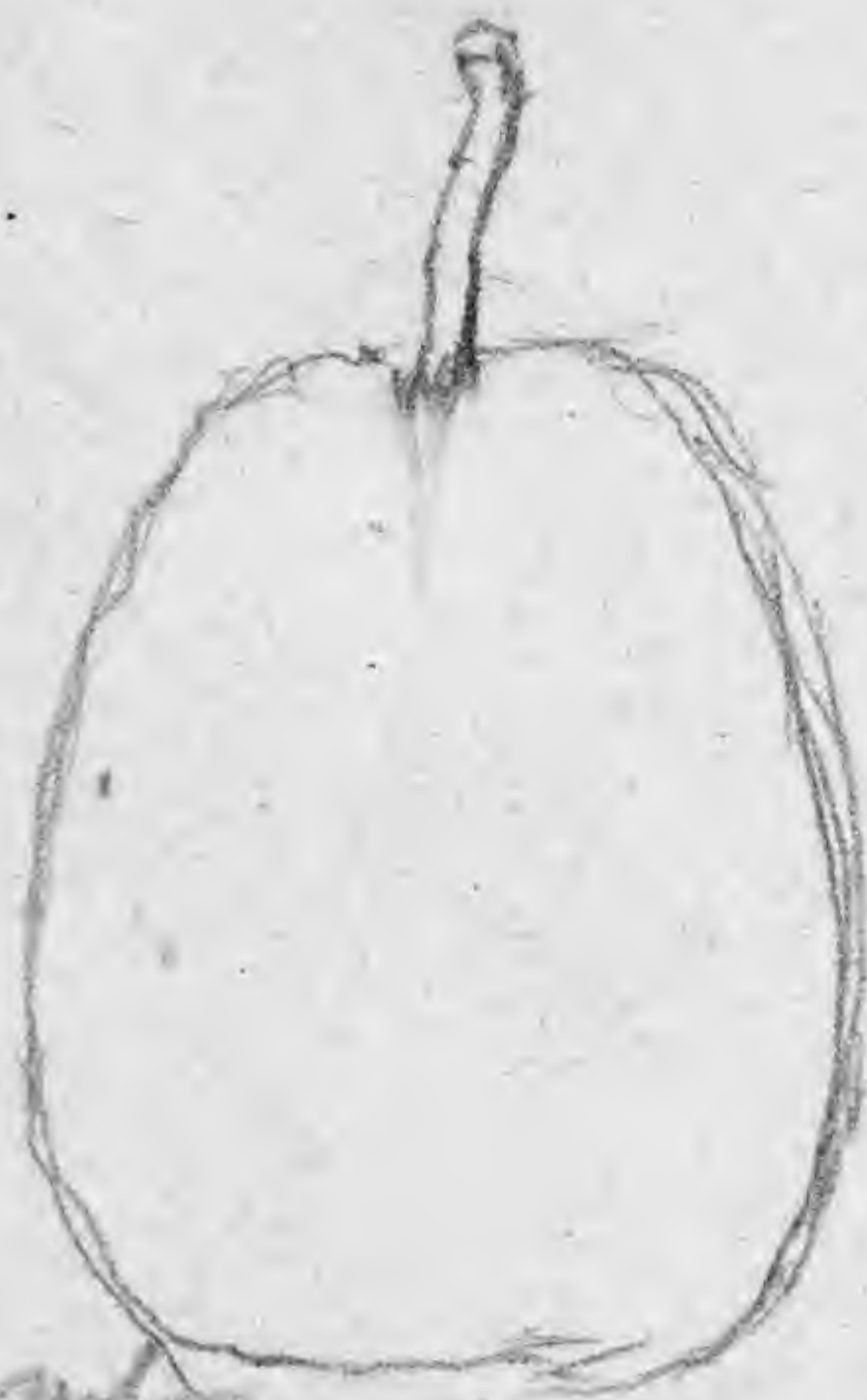
MISSOURI
BOTANICAL
GARDEN

Ephedra Calif

White water desert, Calif

Nov 6 1881

Parrish



x4

capsule
fleshy, trilocular?



style
membran.
-ariseous



embryo



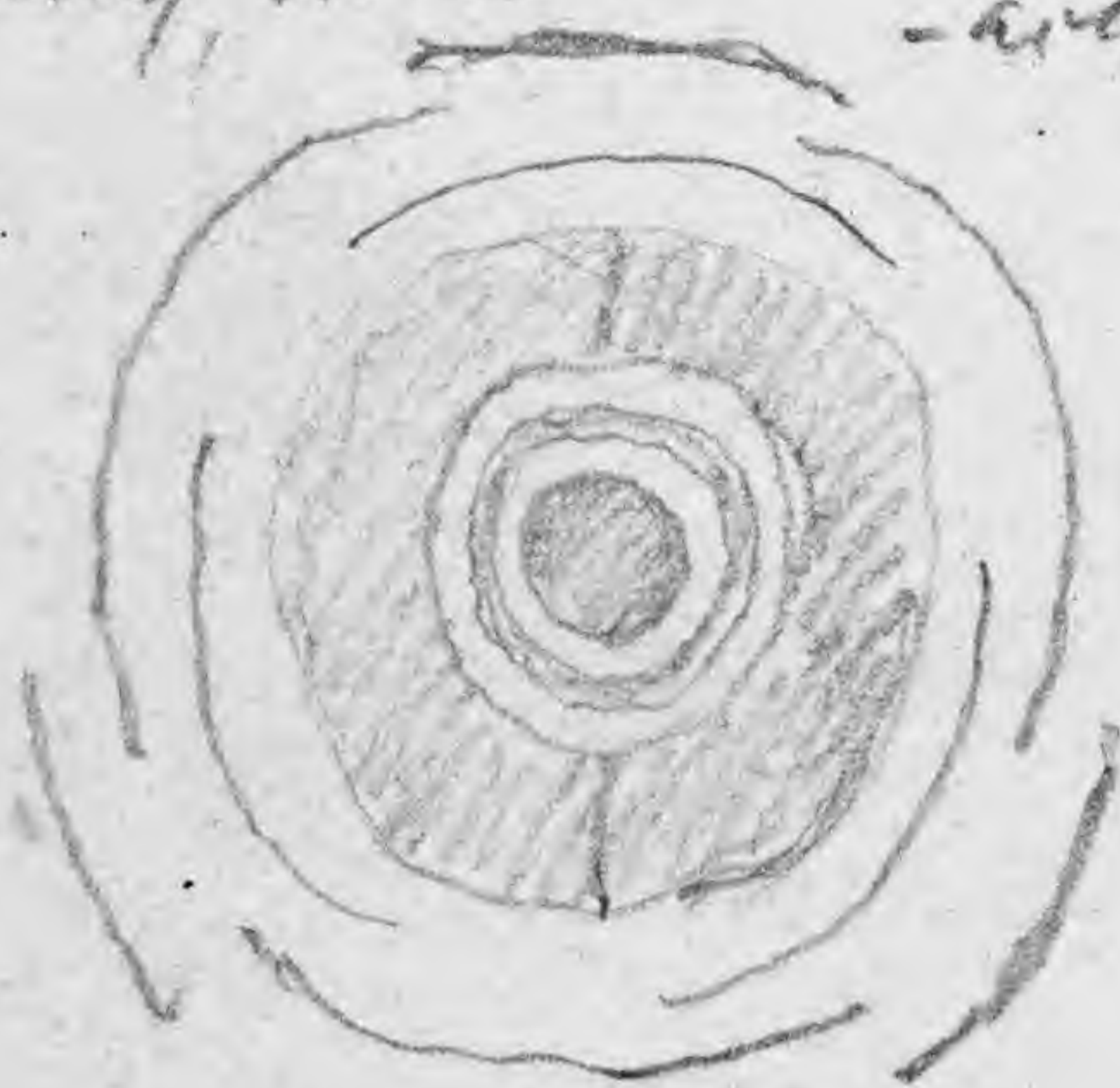
x8



3-5 anthers

the upper 2 or 3 stipitate
lower sessile
perigon enclosed

6 lower scales of ♂ anther
small, sterile, 2 ventral



split to near
swollen base

leaves of upper branches
from San Diego



old leaves from
white water desert



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

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ST. LOUIS, MO.



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Ephedra Californica

mark 1882

Leaves



x 10



tip of tube



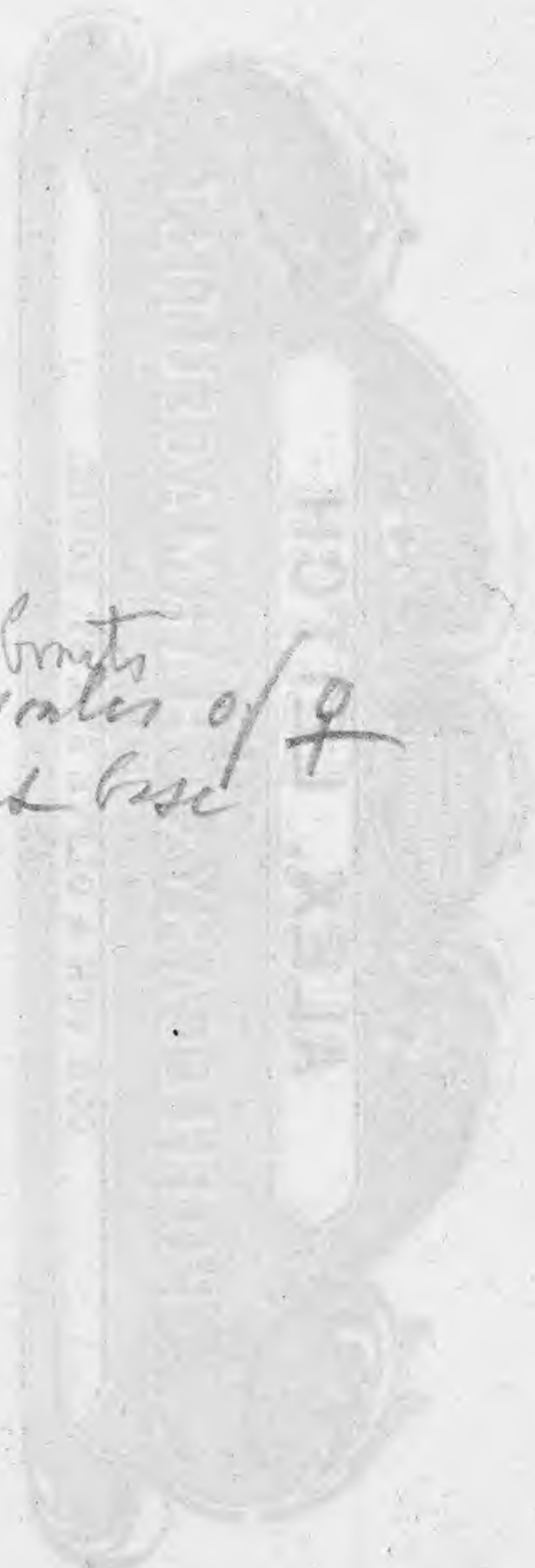
x 4

innermost scales of $\frac{1}{2}$ contracted at base

ovule & nucleus
within the fleshy perforated
perianth? from a bud
second, interior or real
utricle thin, membranous
protruded into a slender tube
with an oblique opening
External utricle (perianth?)
fleshy, green, perforated.



leaves of very
young shoot



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5881 June 1885

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ALEX. LEITCH
APOTHECARY & PHARMACEUTIST
COR. 4TH & OLIVE STS. ST. LOUIS.

[Faint pencil sketches of botanical specimens, including what appears to be a cross-section of a fruit or seed, and handwritten notes in cursive script.]



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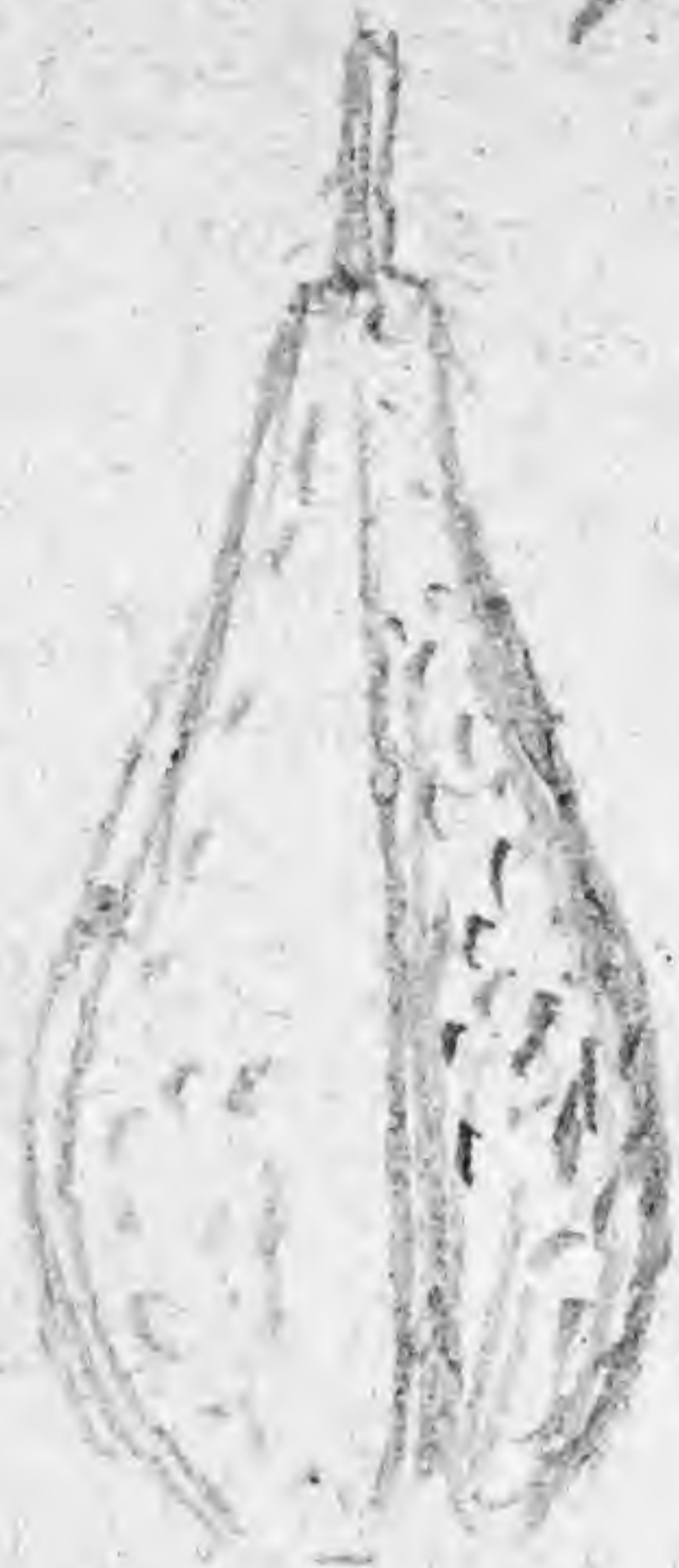
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June 17 1882

Ephedra

Wright ^{no} 2882 H. Gray 1851

x5



leaves ternate or binate
on sam. ♀ specimen
male sp. with binate leaves

5 pair of scales
or 5 verticils of 3³
scales ternate or binate.
seed single or rarely 2

seed
= 2¹.
scales
cont. rooted
below

x4



leaves ternate in ♀

all the male flowers, with their numbers
have scales in pairs,
the sheath exserte,
anthers 4-6, subsessile on
exsert. stipe.



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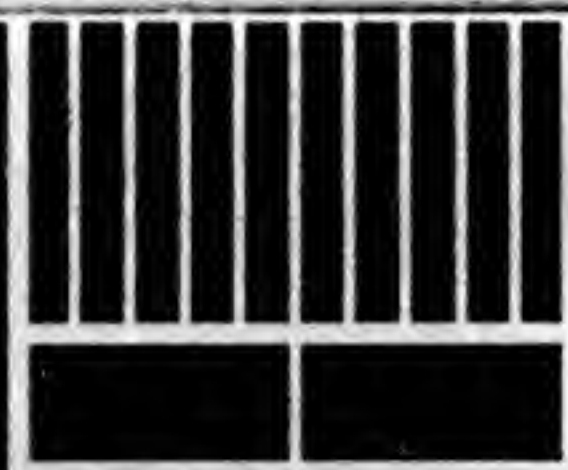
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Casparia 3 months dark green
single fruit, stem rough
4 or 5 pairs of scales, inner ones contracted,
or stipend at base, throughout
of perianth exserted, all scales but the lowest fertile
slender 8-6 short stipitate subsessile



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cm

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