Missouri Botanical Garden
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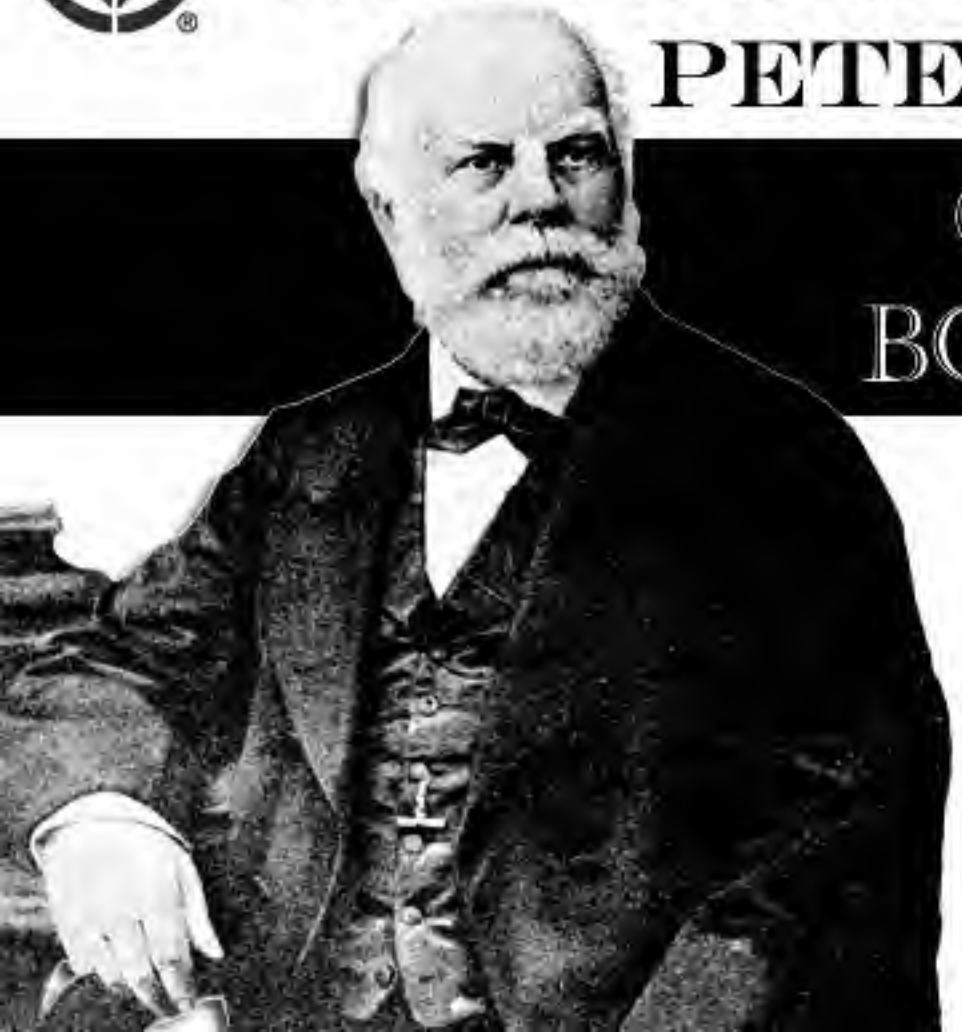

Pagination Note:
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Cereus Jamacaru Salm Grieve's Garden
Aug 25 1859.

flower horizontal, curved upwards, oblique

plant faint fragrance

flowers, night blooming, white, tube and sepals reddish brown and reddish green.

fl. 10 inches long; ovary 1/4 lines long 7 lines thick with 8-9 triangular scales

1920

lower part of tube 3 inches long, cylindric, almost naked, or with 1 or 2 scales; then widening 2 or 3 inches longer; sepals here in 3/8 arrangement about 20-25 lines oblong, obtuse fleshy, somewhat concave; the inner most green outer reddish brown

petals white, shorter the the interior sepals 21 outer ones respondent, ciliate, inner ones shorter broader, 8 lines long, obtuse, aristate dentate, laciniate ciliate

lower part of tube naked 18 lines, then being pale yellowish green filaments for 3/4 inches, curved upwards

no corona

Style thick, uniform 1/2 line, pale yellowish green; curved 15-16 greenish yellow stigmata thin somewhat subulate, erect-spreading; 9-10 lines long.

Whole length of style & stigs 8/4 inch.

Pollen grains spherical, large, 0.036-0.038 lines diameter; scattered by small transport globules, probably oil drops

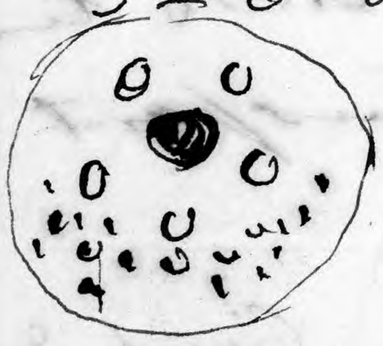
Ovula 0.3 or 0.28 lines long, on branched funiculi, fringed on the inside towards the micropyle.

OOms

Second flower 2 days later, similar
about 25 sepals and 25 petals; sepals
spreading and recurved, petals erect
spreading, forming a cupshaped corolla
about 4 inches diameter, style and
stamens declined, exterior stamens
forming a straight corona — but not
separated from the others at their
insertion; stigmata as long as pistils,
15 — Between 9 & 10 p.m. the flower was most fully
open, but anthers already empty. At 6 a.m.
flower still half open.

Flower opened 27th August in the evening, open all night,
but stamens effect about 10 o'clock, with 30th in the morning a
line of separation of flower from ovary was observed,
which increased till in the evening of same day the flower
fell off, leaving ovary or young fruit with long style,

Arcolae polyhedrate — 4 lines in diameter,
12–14 l. Distant — Spines on old areolae
12–16 on its lower part, unequal, 1/2 – 1 inch long,
3–6 on the upper part, irregular, central one
longest, at last deflexed, often 2–3 inches long
others shorter — long.



Stem. on the flower peduncle 5 ribs
distant 5 winged ribs, nearly 2 inches broad
and 3/4 inch thick

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MISSOURI BOTANICAL GARDEN

H. B. Wien July 22 1869

Cereus Jamacaru, subsp. peruvianus, Nightflowering

Ovary 2 mm tuberculate 22 mm long
nectarian cavity 33
Staminate part of tube 85
petals 70
flower length. 210 mm = 9 inches

sepals of ovary very small transverse fimbriate scales with naked axils, 12 in number
lower part of tube for about 8 cent. with only 13 small scales,
upper part with 25 green, fleshy, with red tip and margins,
about 21 petals, white.
filaments greenish yellow
style same
stigmas 20 mm long filiform pale yellowish
sepals in 6/16 arrangement.
6 angled

Plant 6 feet high, & flowers scarcely two feet from the ground from very old parts, that have con last their spines, and green colour!
Some tomentum at base of flower

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Cereus Benselerii Baumann in Hort bot Audobon is similar to speciosissimus and said to come a hybrid between Cer speciosissimus as mother and Cer Fendleri as male parent.

Cereus Posdgiorianus is here nearly 2 feet high, apparently same as C. papillosus

Opuntia monacantha 10 feet high, very robust, lower terete part of trunk with large bunches of light brown tomentum and 15 - 25 spines!

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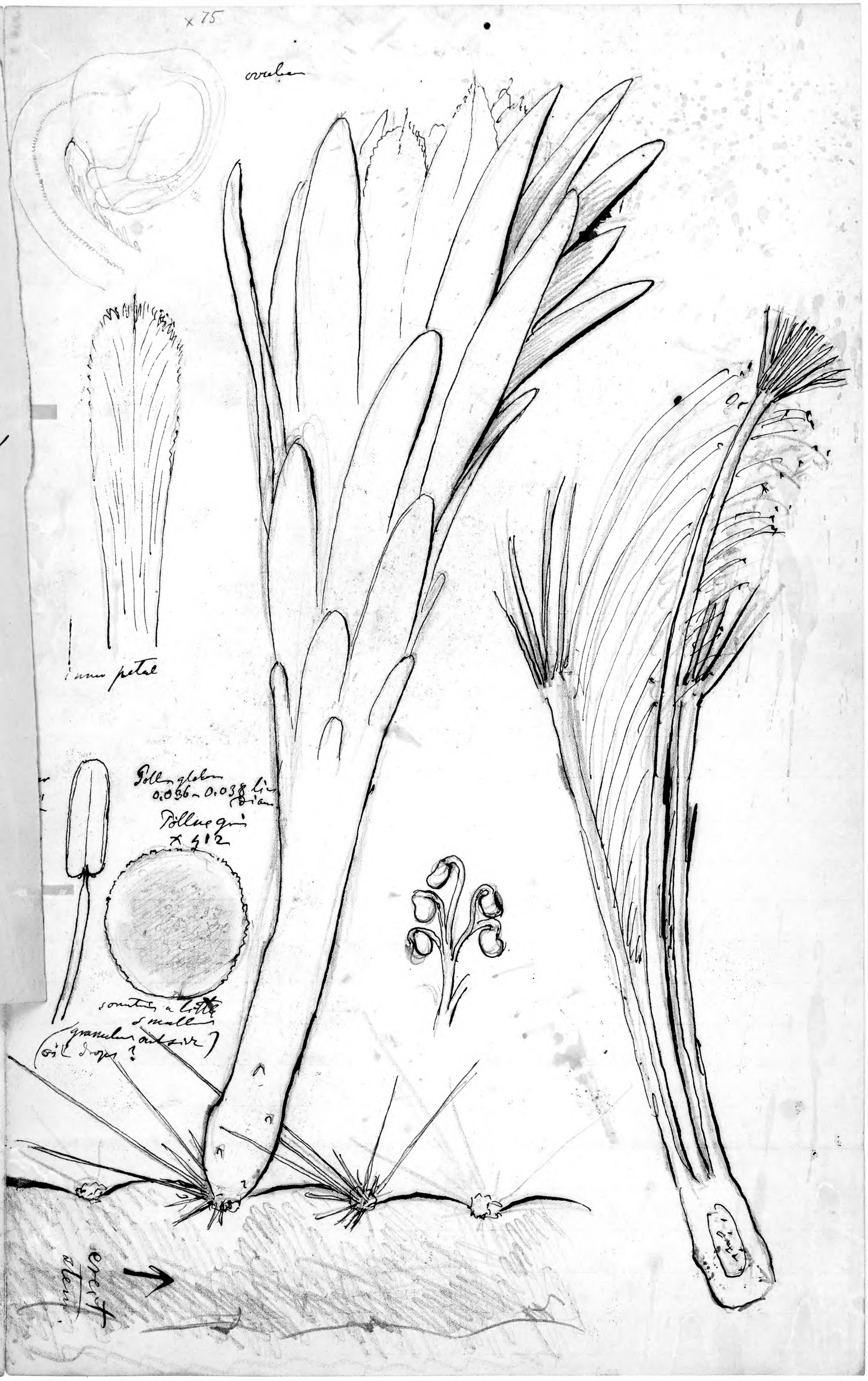

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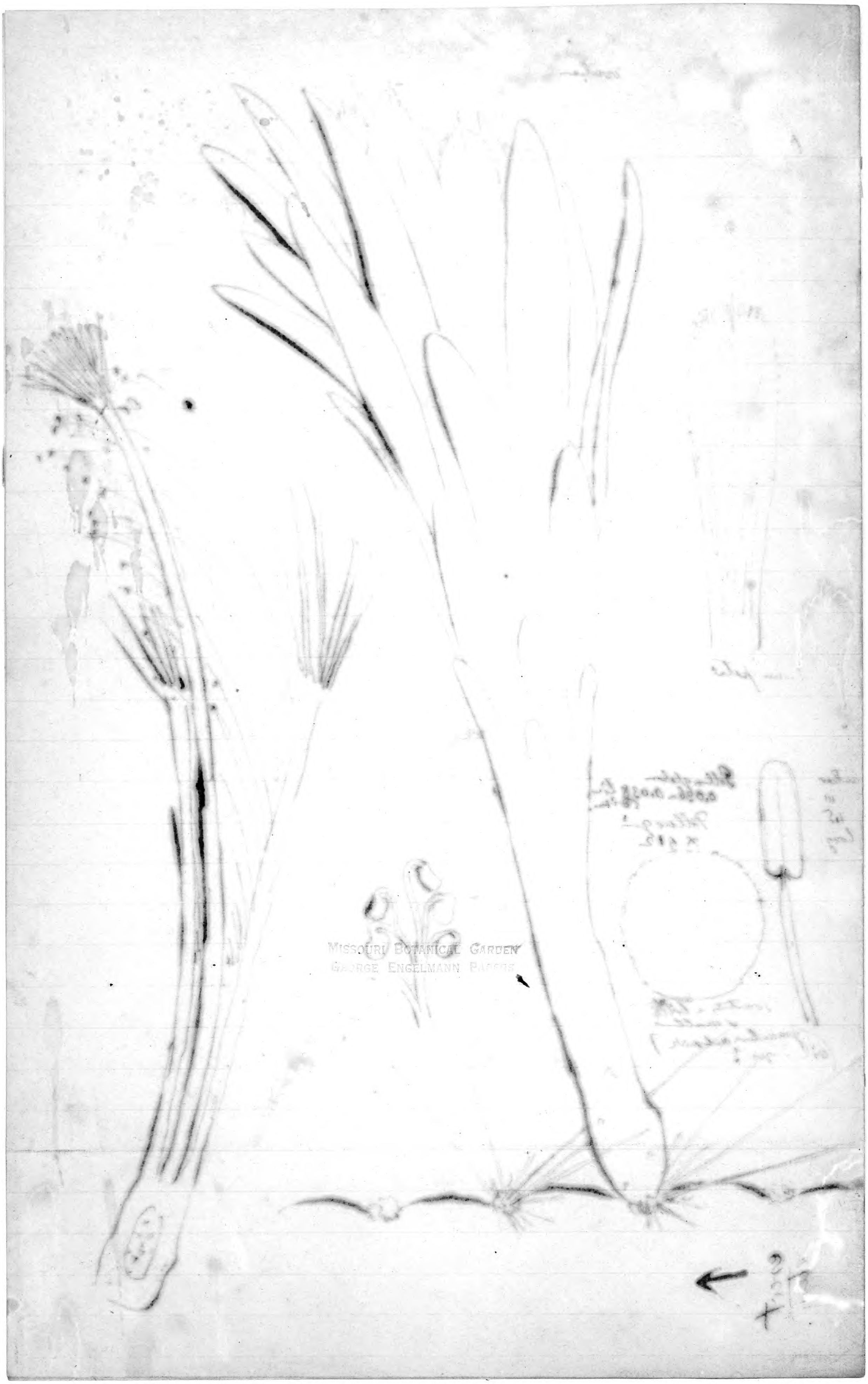

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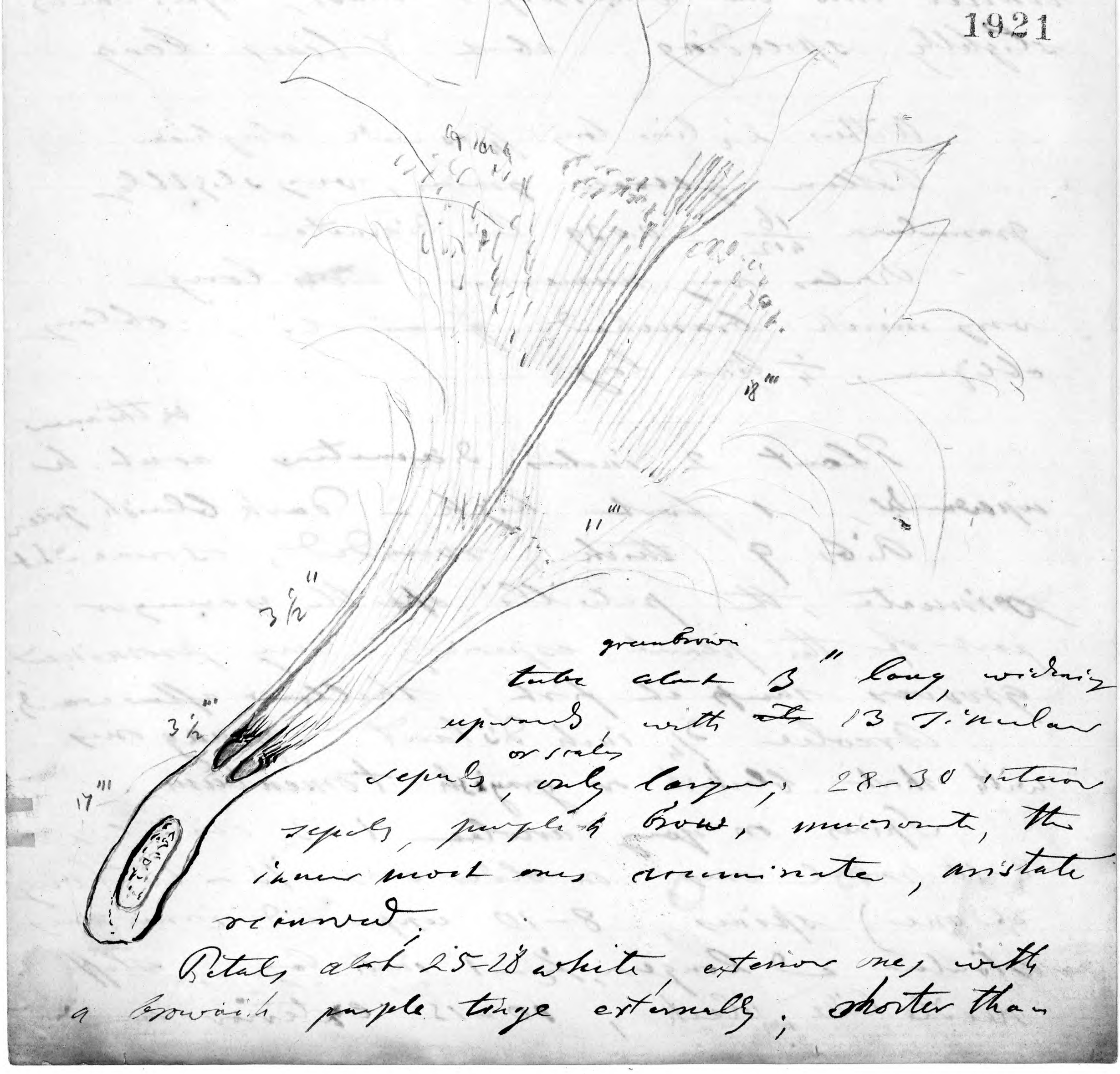
Fl. at Mr Mathews', St Louis,
July 9th 1861

Cereus "chalybeous"

Flower opening July 9th after 4 p.m., closing at daylight next morning. Springing from one of the upper areolae of last year's growth.

Fl. 8 inches long; 4 inches in diameter; exterior calyx leaves or sepals recurved, spreading, exterior petals slightly x, inner ones erect, forming a cup, much like those of C. grandiflorus

Ovary oval, somewhat angular with about 13 very small sepaloid scales, about 18 l. long, 6 l. in diameter



grenadier

tube about 3" long, widening upwards, with 13 similar or scaly sepals, only larger, 28–30 interior sepals, purplish brown, mucronate, the inner most ones acuminate, assistate recurved.

Petals about 25–28 white, exterior ones, with a brownish purple tinge externally; shorter than

1921

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sepals, spatulate long acuminate.

Ovarian cavity 10 l. long elongated oblong

Naked space of tube 3/2 lin long somewhat arched over by the base of the lowest filaments

The next 3/2 inches of tube bear very numerous filaments, a naked space 10 or 12 inches wide follows then in the upper and widened part of the tube, and then a corona of exterior stamens, about 1/2 inch long follows

Style bears about 15 filiform acute stigmata, of pale yellowish white colour; at first united into one clubshape mass, afterwards slightly spreading, about 7 lines long

Anthers 2/2 lines long 1/4 as wide, oblong linear,

Pollen globose grains, very slightly granular $\frac{16}{412} = 0.039$ lin diameter

Areolas very numerous, long very much branched funiculi, oblong oblique, 1/4 line long.

& thinner

Plant 2 inches diameter, acutish upwards, 1 foot high — Dark bluish green

Ribs 9 thick, rounded, somewhat prominent, the pulvilli of the younger part of the plant especially very prominent grooves sharp at first shallow afterwards.

Areolae 3/4 inch distant young ones with short bluish or greyish tomentum.

Spines on young areolae 1–3 central and 8–10 radial ones, on older ones 15–25 (very old ones) spines, 8–10 upper and inner ones stouter and longer, 1/2–1 inch long, stiff needle like, black, 10–15 exterior and

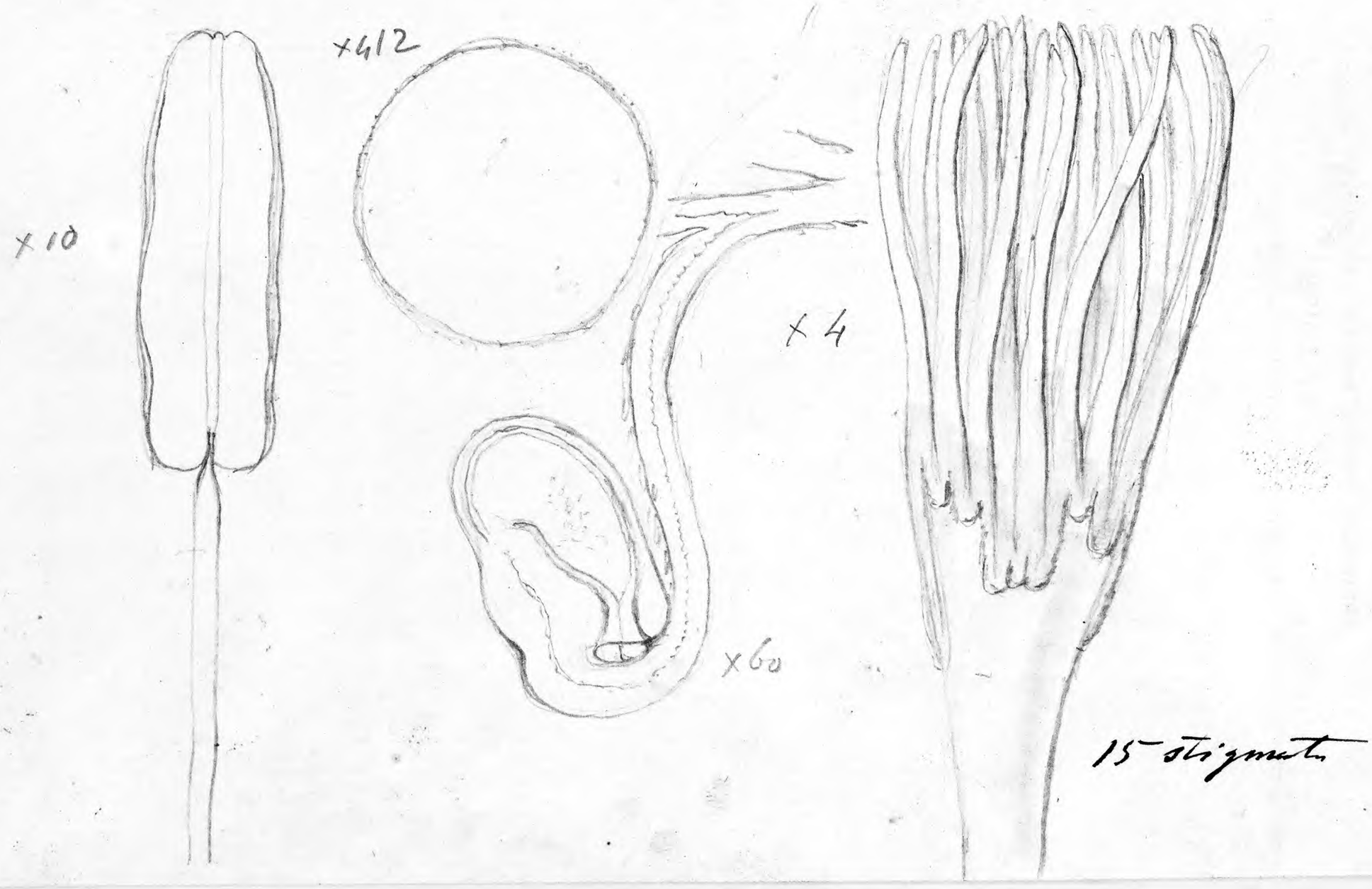
inferior ones indistinct, paler, shorter, 3–4 l. long.–

This is named C. Chelybaeus, H. Bor but seems to belong rather to C. caesiosens Salm, on account of the larger number of ribs ~~and of~~ ~~Spring~~ but the figure of Pfeiff II. t. 24 of C. caesiosens shows 8–10 spreading greenish stigmata. — Both perhaps not different?

Ex Notes – Hort Wien. Jan 1858

~~Opuntia senica = Op. macrorhiza~~
Cereus chelybaeus white, nightflowering.–

Cereus chelybaeus July 10 1861
Hort Matthews



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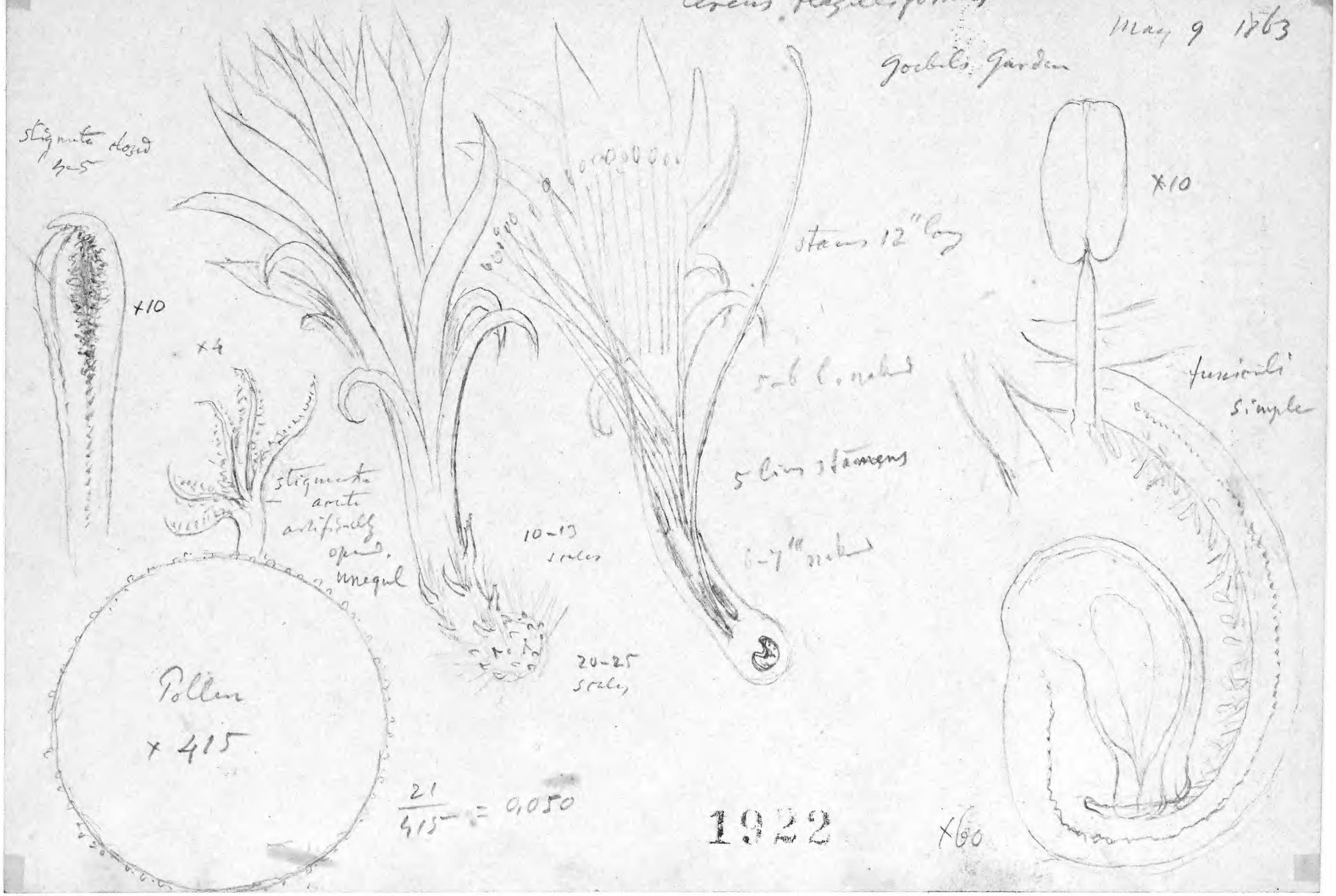
Cereus flagelliformis

May 9 1863

Gosbels Garden



1922

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M. W. ALEXANDER,

SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,

ST. LOUIS.

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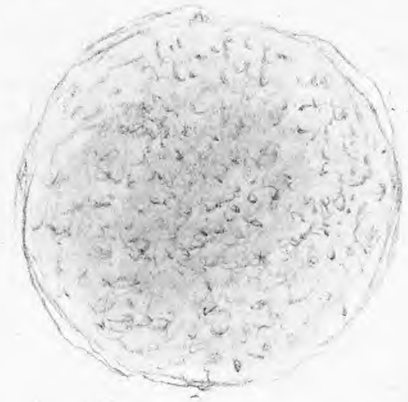
Cereus Tweedii

21 Sept 1860

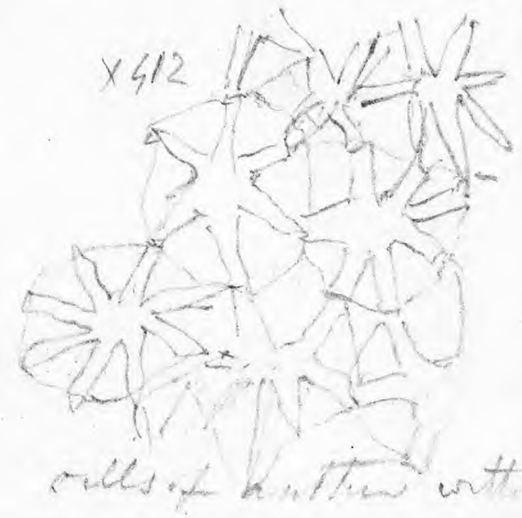
Hort Bot Missouri

Pollen under some pressure



Pollen
0.028–0.030

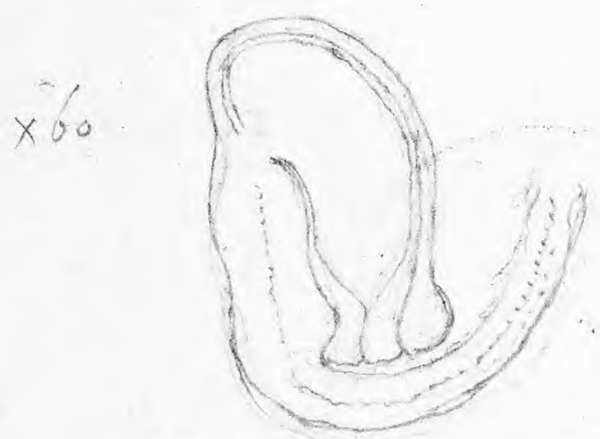
Pollen paletred anthers, deep velvety purple when wet beautiful carmine, and tinging water; 1 line long



cells of anther with stellate markings

cavity full of nectar!

7 subpetaloid stigmata, yellowish



funiculi much branched with ~~very long short~~ fibres

lower part of tube, 3 lines naked, yellow, full of sweet liquid, (glutinous)

stamens attached to tube, 3 lines slanting

next space glabrous long, then a corona of short (4 lines) stamens

1923

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ST. LOUIS.

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Cereus Baumannii

Hbs Mus

Sept 3 1862

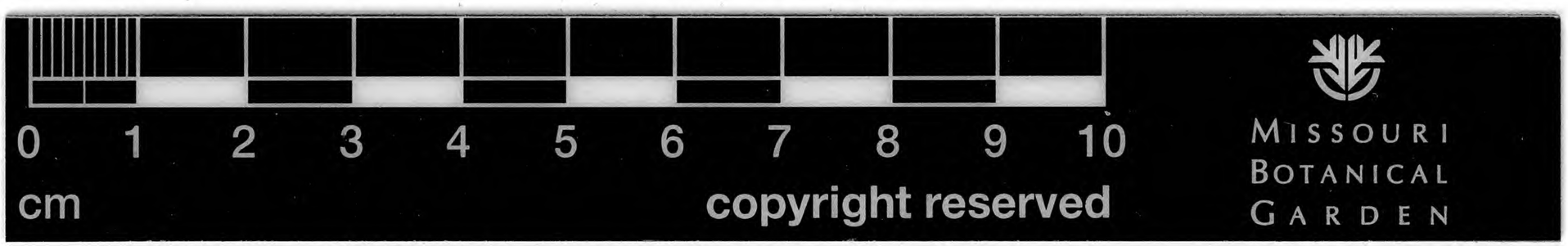
×60

×10

8 stigm

1924

VIOLLIECAY VILLIUR MEITCH'
BOTANY AND CHEMIST'
Hunger ellnogen Jrenny Mo.



ARTHUR LEITCH,

APOTHECARY AND CHEMIST,

Sixth and Market streets, St. Louis, Mo.

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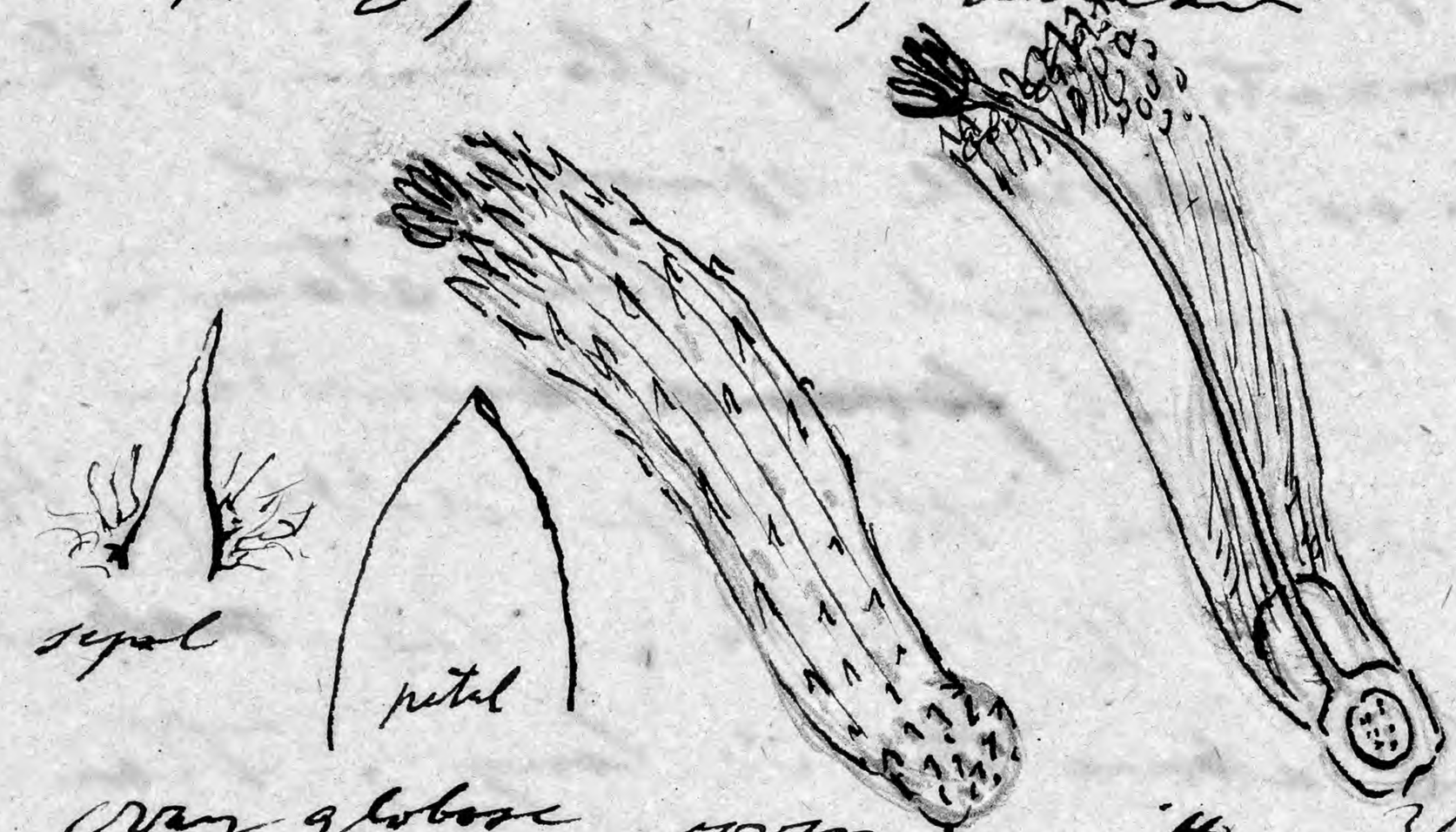
(Cr. Baumannii H. Paris.)

Cereus Tweedii Hook

in Hort Kew. Aug 1857

About 3 feet high 1¼–1½ inch in diameter; flowers on the upper part of this stem lateral, crimson red scarcely inclining to orange; 2 inches long, curved, tubular



ovary globose, covered with 30–40 red fleshy subulate scales which bear a sparse white wool in the axills. – tube of the flower long curved, covered with the same kind of scales, which all ~~with the~~ but the upper most only bear wool or hair in the axills; tube grooved longitudinally grooves 13; sepals with hair in the axills on the tube about 40 upper sepals crowded near the top

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of the tube also about 30, gradually changing into petals which are scarcely different from the interior vertically of about 13 petals, only a little broader the th sepals — erect short, not expanded into a limb at all.

Lower part of tube, about 4 lines, naked, and almost arched over with the corolla base of stamens; the corolla is small spare, about 2 or 3 lines from which the long stamens arise — which ~~forcon~~ a bundle fasciculate on the upper side (the arch) of the corolla. The ~~[illegible]~~ space above them is long. There comes almost at the end of the tube a circle of short stamens 2 lines long only — anthers regular and purple; just within the tube stigmata 7 exert.

Similar to Wedd's plate No. 30 from Bolivia.

Similar plants are Cer. Colubrinus & Cer. serpentinus

Cer. Thigosus & limensis are shorter & thicker

Notes on Cactaceae Hanover June 1857
made at Dr Muhlenpfordts.

Cer. Baumanni Muhlenpf. is the older name
of a plant which Hooker has lately figured
& published as C. Tweedii

1926

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Muhlenpfordt

Notes on Cactaceae

Hermosillo 1847

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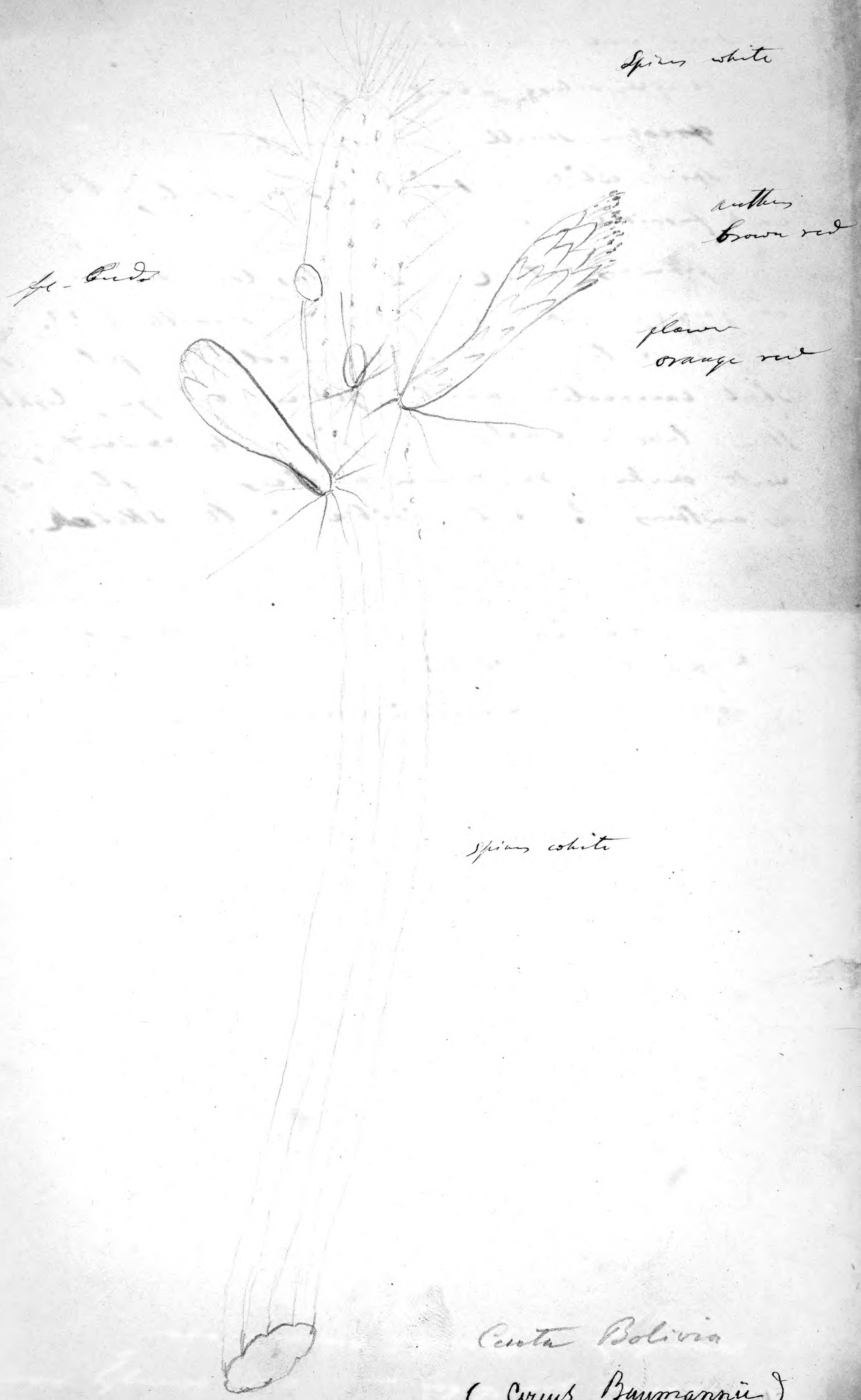
Weddells south America Cactaceae

N 29

1927



Cereus Bolivia

(Cereus Baumannii)

Salm Dyck 1857

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29

Cinti, Bolivia.

Stem erect or twining, scabrate ??
angles obtuse about 8
~~Opu~~ corolla small approximate
spines white 1 inch long or shorter, 6 or 8 in each fascicle ?

flowers lateral 2 inches long or more oblique; ovary orange red smooth (??) scales of tube short, lanceolate, petals similar short lanceolate erect yellow-orange, lighter than tube; erect; filaments exserted, yellow, with darker red brown anthers. style as long as anthers? not visible in the sketch. —

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Certainly a Cereus, with short erect petals and exserted genitalia — and wrongly named by somebody "Opuntia aurantiaca"

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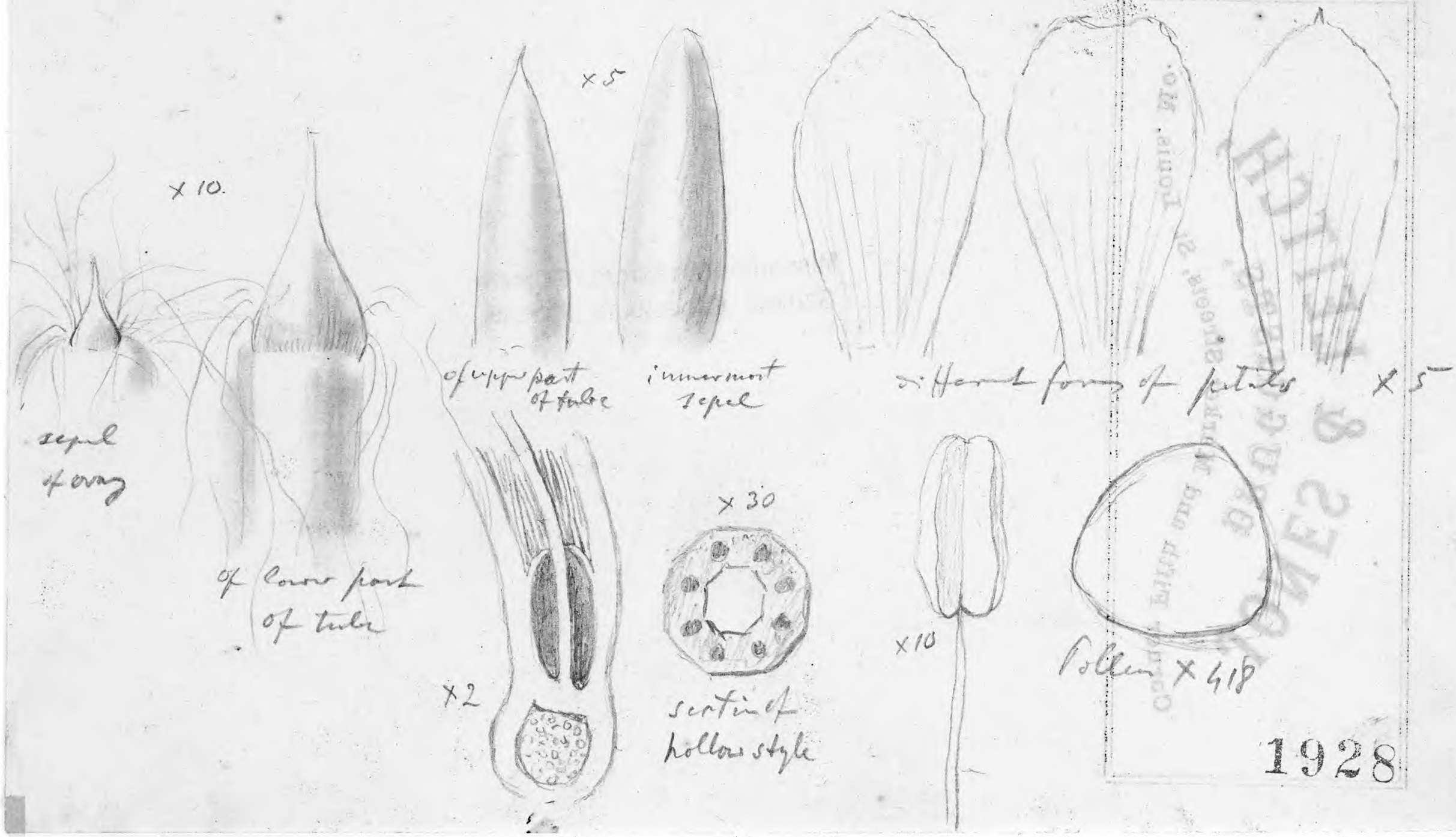
Cereus Baumannii H. B. Mission Sept 3 1862



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JONES & LEITCH,

DRUGGISTS,

Corner Fifth and Market Streets, St. Louis, Mo.

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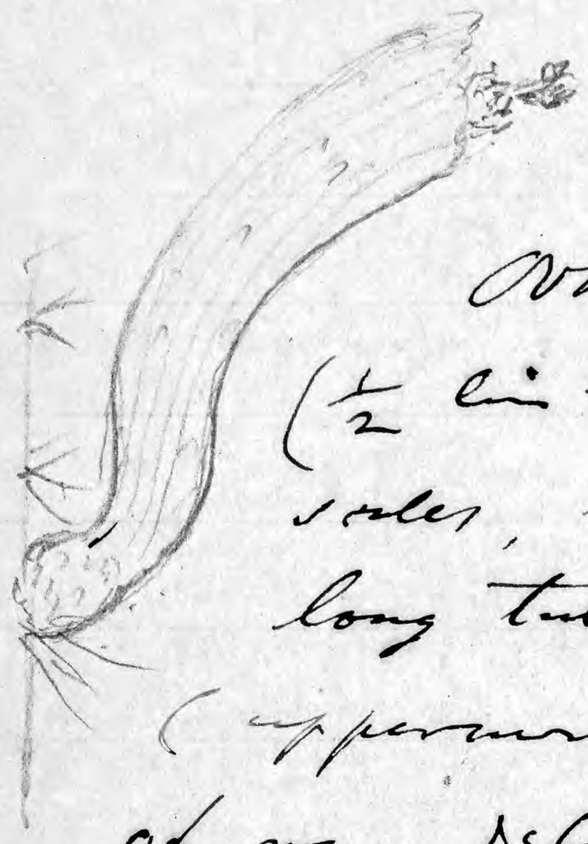
Sept 5th 1862

Hort Paris – Salm p. 214 1929

Cereus Baumannii or Forcadel Hort Bot Missouri

abundantly blooming



Flowers crimson – scarlet, 2 in 2¼ inches long, with a double curvature, & oblique rim

Ovary globose with about 30 very small (½ line long) ovate acuminate or bristle pointed red scales, bearing long wool in axil; scales of long tube not so close, 50–60 in number 1–3 lines long (apparent longest) their pulvilli forming a number of very distinct ridges on the tube, which thereby appears (15) ribbed; most of these linear lanceolate acute, with wool in axils, upper ones destitute of wool, and top ones linear oblong

Petals erect 10–12 spatulate, 3–4 lines long, less the half as wide, acutish or even ~~cuspidate~~ mucronate, mostly obtuse, even emarginate

Ovary 3 lines diamet. globose, tube above the ovary free for about 4 lines, forming the nectariferous cavity almost closed by a membrane formed by the base of the lowest filaments; tube then staminiferous 5 or 6 lines and free for the remaining 9 or 10 lines, (3 + 4 + 5½ + 9½ = 22 lines) 0 or 5 Free + P4 = 26 lines

where, at the fauces or insertion of petals a single line of short stamens from a crown

Filaments & pistil exsert.

anthers about 1 line long oblong, emarginate & cordate at base; pollen 11/418 lin diam. subtriangular spherical;

Style a hollow tube, 8 angular, with 8 greenish, subacute acutish stigmata

Ovules very numerous, on long branching filamentose funiculi; ovules scarcely ¼ line long

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