

Rec Febr 16th

Mar 16

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feby 13th 1877

Dear Dr. Engelm.

I sent
you a few days ago on Dr. Gray's
request Mr. Nash's recent papers on
our Coniferæ.

I am at the "Botany of California"
again & we must try to finish it by
the end of the year. How much may
I ask you to do? The *Quercus* &
Coniferæ, which you are doing, come
pretty early in the volume, and the



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above Prof. Brown on the former, &c.
Mr. James promises to answer - and
if the volume includes more of the cryptog-
ams it will be done by Dr. Felt.

Dr. Gray is very busy & in connection
with the "Fl. N. Am."
He gives before I report a
misprint on page 301 (113) - i.e. 1095
for 1905.

Yours very truly

Wm. Brown



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7 Feb 13 '77
Mss. will probably be wanted in July or
the farthest. Probably that will not
give you time to think of taking up
anything preceding Quercus, such
as your jets the Euphorbs or
Loranthos — especially as immediately
after Coniferae comes Ephedra, which
you will put in shape, will you not?
However, if nothing better can be done,
may I not ask of you the favor to
read over my ^{Mss} sheets when ready & give
the volume the benefit of your knowledge
and good judgment in the way of correc-
tions & suggestions.

Mr. Bells is to do the willows. Dr. Thur-
ber is at work on the grasses. Mr.
Boott takes the conifers, as Col. Gray is



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GEORGE ENGELMANN PAPERS

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Rec April 23
A 26

HERBARIUM OF HARVARD UNIVERSITY,
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April 19th 1877

My dear Dr. Engelman,

You must
excuse me for asking you to look over
my proofs of the index for Cactaceae, for
you know that you are my only
resort in the matter. I have not
bothered you with any preliminary
questions but have waited till I
had the whole together in manageable shape,
and could trouble you once for all,
and the least possible. As it stands it shows simply what the books



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say about our species, as it was rarely
that I could go behind them and not often
that I have attempted it. And this is
just what I want you to do.
You will see that I have queried
some of the points. Some of the cita-
tions I have not been able to complete,
and of these some perhaps should be
omitted. I could get no clue to when
Galotti described his species - ditto,
Poselger. Some of the figures in Smoo's
report need to be disposed of in some way -
you can make some sort of guess as to
where they belong, which is all that is neces-
sary. Your later studies may have
satisfied you as to the true rank of
some of the queried varieties & species.
Please make ^{or indicate} any abbreviations or transpo-
sitions of whatever kind that will bring



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Apr. 19 '97

the list up somewhat near to the
level of your present knowledge
and so brief extremely

Yours very truly
Seward Watson

I remember your saying then you do not
take much interest in this work, but I trust
in your good nature for a satisfactory
response. When you are ready for
the Euphorbias of Calif. I want to send
you some specimens from Palmer's sets
which I rather think you have not seen
— *Stillingias*, *Aryzothamnion* & the like.



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the list up ...
and as they ...

James ...
George ...

I remember you saying that you do not
take much interest in this work, but I think
in regard to your interest for a ...
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The ...
you ...
which ...
— ...



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Rec^d June 16th
Am - 28

HERBARIUM OF HARVARD UNIVERSITY,
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June 13th 1877

Dear Dr. Engelm.,

Dr. Gray

has told me of his endeavors to
persuade you to join his party with
Dr. Hooker to Colorado. I hope that
you will go & enjoy you the pleasure
of the trip. But what will become
of your contract to Bot. of California,
which will be wanted before you can
possibly get back? Can you not
put it together in some shape before
you go? —

Yours truly
James Watson.



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Jan 12 1871

HERBARIUM OF HARVARD UNIVERSITY.
BOTANIC GARDEN, CAMBRIDGE, MASS.

1871
Jan 12
Dear Sir
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the loan of the book of the *Botanische Zeitung* for the purpose of examining the same.

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I am sorry to hear that you are unable to send the book to me at present. I will be glad to see it when you can. I am, Sir, very respectfully,
Yours truly,
George Engelmann



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Rec^d July 6th 1873

An Aug 15

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Dear Dr. Engelman July 3rd 1873

I do not want the California botany to keep you from your vacation in the Rocky Mts. The oaks and conifers can doubtless wait till you get back, and it is only the Torontes & Euphorbia that make the trouble. I send you my old revision of them as prepared four years ago. If I were to go over it again now, it would be entirely rewritten & modified in



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various ways and probably improved.
All the material is to be gone over
again & some species and genera
added. I am not at all sure about
the worth of the genus *Gymnostylis*,
and all that part of it is to be studied
over.

Please look it over, and if you
think it can be made passable,
give such hints as you think best
towards its improvement and let it go.
I do not like to publish poor work when
better can be had, but it is too much
to ask or expect that you should do it
at so much cost to yourself. And
it makes the less difference as Dr.
Gray will depend upon you for the
same in the flora of North America
which will give you an opportunity



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July 3 '77

To receive the whole ~~also~~ your
return.

Thanks for the seeds of
Lathyrus pusillus & your
notes.

Yours very truly
Allen Watson



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Rec^d Aug 13th
a 15

HERBARIUM OF HARVARD UNIVERSITY,


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Aug 9th 1877

Dear Dr. Engelman,

Can you
tell me whether Wolffia is known
from the Pacific Coast, and
what species of Lemna may
be credited to it.

I know of only
Trisulca
valdiviana
minor
+ polytricha.

Yours very truly
Seward Watson




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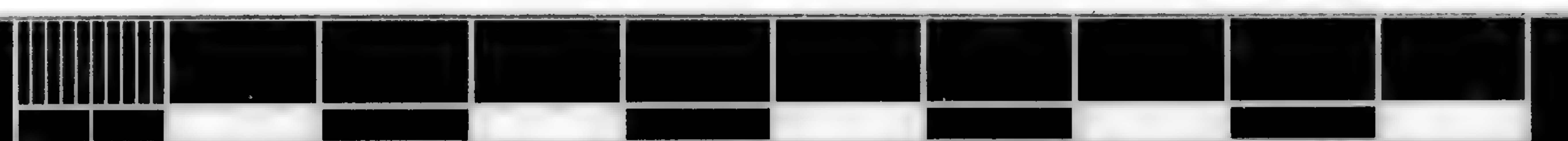
1842

Very
from the
tell me whether
from the
about
be

know of
The
Hilobium
main
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most
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Rec Oct 1st
Ans - 2^d

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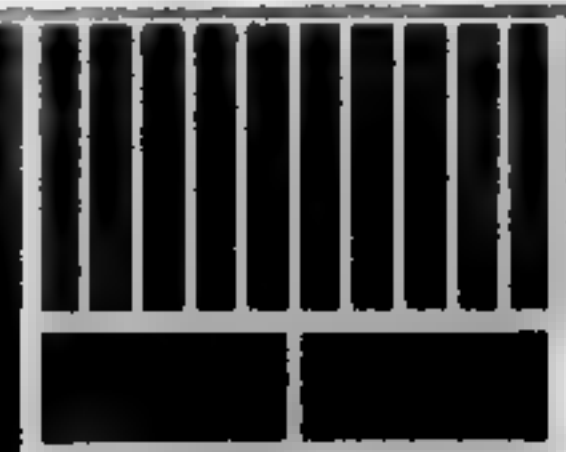
Sept. 25 1877

Dear Dr. Engelman

I enclose

a bit of *Euphorbia* which I do not identify right away. Dr. Gray is home again, with Dr. Hooker, and busy overhauling their gatherings. Will have notes and notions for you on *Comites* especially. How are you getting on with *Euphorbia*, etc? Please return me the your communication on my MS on the other *Euphorbiaceae* genera. It must be wholly rewritten. I find that a first revision is of no great use, except as a basis for a second one.

Yours very truly
Steven Watson



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1850

1850

1850

1850

1850

1850



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Rec^d Oct 20th
as - 21

HERBARIUM OF HARVARD UNIVERSITY,
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Oct. 17th 1877

Dear Dr. Engelman

How soon

can I expect the rest of
Californian Euphorbias
from you? They will
be needed first - then
the oaks - then the Legumes
- then the Conifers - in
pretty close sequence.

Will the 1st of December
be too soon to look for
it ^{all} or the most of it?

What is the enclosed Euphorbia
from S. Utah? At first look



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Oct 17 '77
I was going to put it
into E. Johnston, but it
is hard by that.

Yours very truly
Simeon Johnson

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Rec Dec 17th
An Jan 11

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Dec. 15th 1877

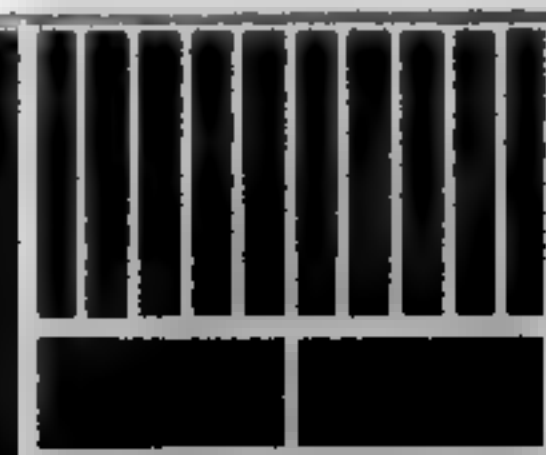
Dear Dr. Engelman,

The printers
have just reached Euphorbiaceae
and call for "more copy".
I can give them all but
Euphorbia and then must
stop so far as the Dicotyledons
are concerned.

I have altered somewhat the
sequence of orders in App. & Macoub
& Decaisne, as they for Bot. Calif.

They will run as follows -
* very superior.

- | | |
|--------------------|----------------------|
| 76. Myrtaceae | 84. Urticaceae |
| 77. Polygonaceae | 85. Platanaceae |
| 78. Amaranthaceae | 86. Burseraceae |
| 79. Chenopodiaceae | 87. Euphorbiaceae |
| 80. Boraginaceae | 88. Callitricaceae |
| 81. Lamnaceae | 89. Saururaceae |
| 82. Myrsinaceae | 90. Ceratophyllaceae |
| 83. Elaeagnaceae | 91. Betulaceae |
| | 92. Myricaceae |
| | 93. Salicaceae |



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** Trany inferior.

94. Juglandaceae

~~95. Cupuliferae~~

96. Corylaceae

97. Aristolochiaceae

98. Rafflesiaceae

99. Santalaceae

~~100. Loranthaceae~~

and then

~~101. Gnetales~~

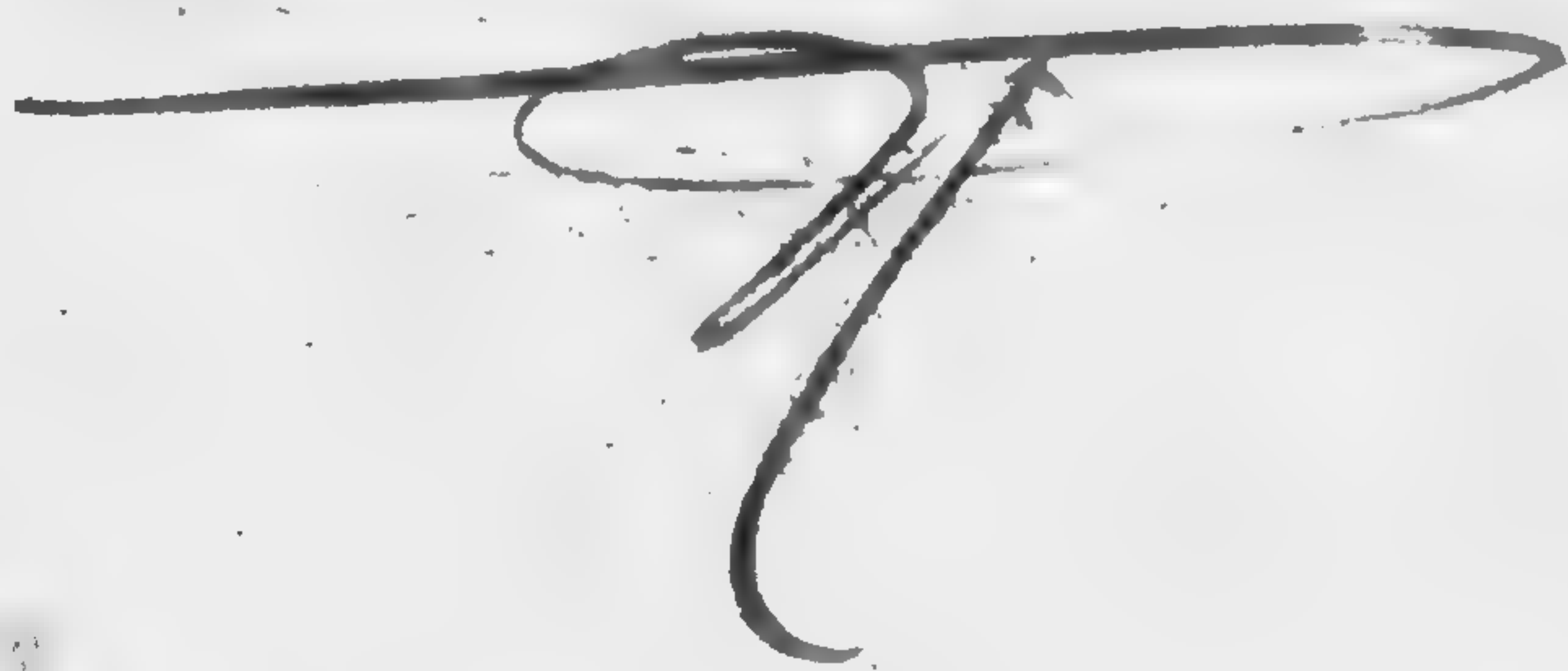
~~102. Coniferae~~ —

which seems to be about as
good a linear arrangement
as can be made.

A note from Dr. Parry this
morning; otherwise nothing from
of you in a long time.

With the compliments of
the season Yours very truly

Frederick Watson



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Recd = Jan 22^d
Ans same day.

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

Jan 19th 1878

Dear Dr. Engelman,

When did

Euph. schizoloba get its name? Boissier
cites Desf's Report, but there it is published
as "E. incisa". Must not that name
be incis, inasmuch as it does not seem
to be otherwise appropriated?

I enclose a bit of Palmer's "n. 512, in
part", Prescott, Arizona, 1876. It puzzles
me to place it, but it does not concern
the California flora.

Are you sure of the identity of Palmer's
E. eriantha? We have none of Hinds' originals,
but Boissier appears to have seen it. These
have none of the sharply & remotely dentate
leaves, some of them whitish at base - nor are
the involucre in 3 to 5 clustered heads on each
branch - the glands are 5, not 3 or 4, - and
the seeds are not diversely covered with depressed
tubercles. The description of the involucre



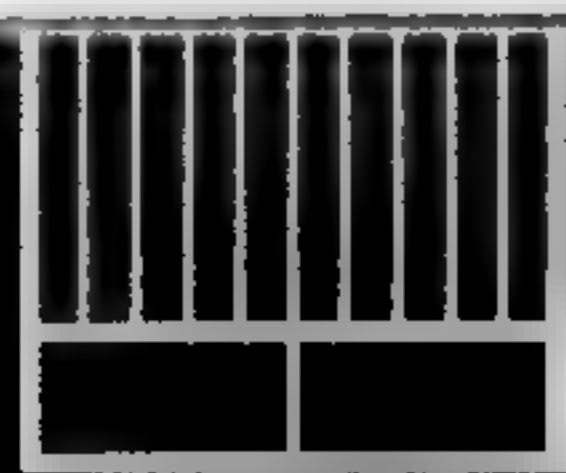
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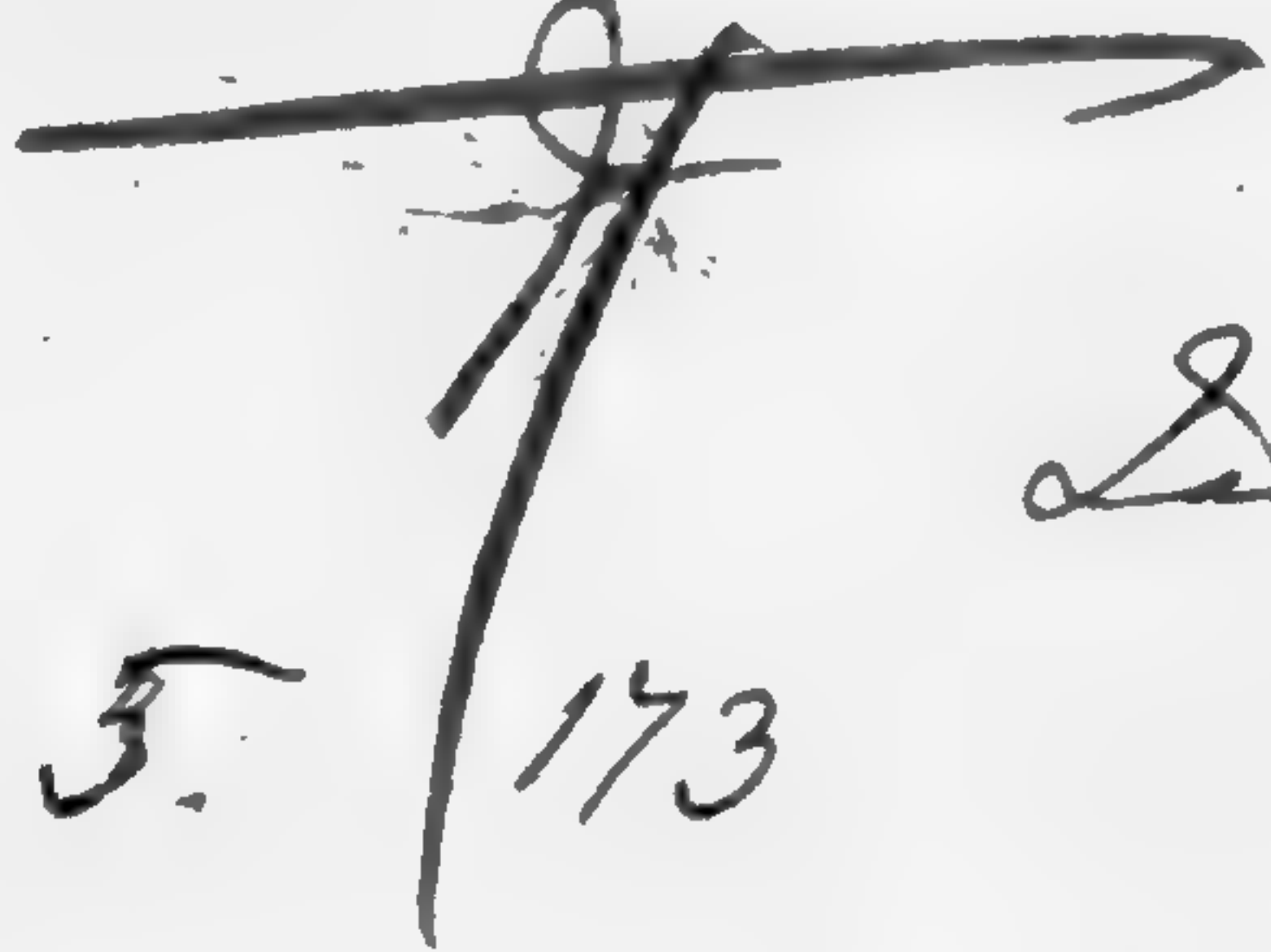
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lobes and bands may pass. I have
drawn up my description from Palmer's
specimens and noted discrepancies.
Dr. Gray goes to Washington next
Wednesday to meeting of Smithsonian
Reports. Letter from Dr. Parry
de Nova Carya.

Yours very truly
Frederick Watson



Jan 1864

Eng. & Church
Sch. York

Proc. Am. Acad. 5. 173

of Deser. with that name
has been Jan 1864



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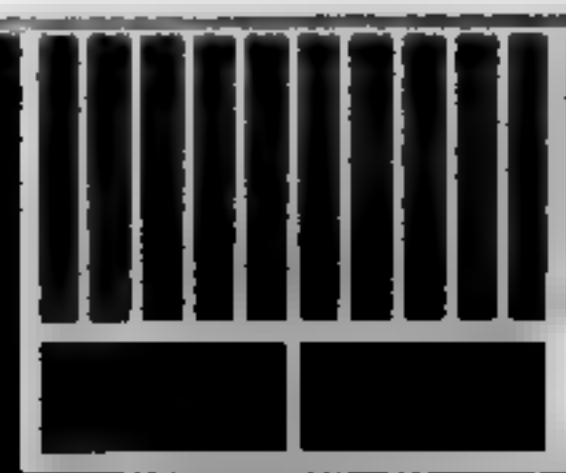
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Dec Jan 29 1878
Jan - 30

Cambridge, Jan 26

Dear Dr. Engelman,

I send you
copy of Bentham's original description
of *Euph. eriantha*. There is no mistaking
this account of the inflorescence. We
have now Wright's specimens, only Palmer's
from Camp Grant and the Tankillas Mts.
In these there are I think but 2 involucre
at the end of a branch in any case.
Now wanting to wash material I examined
only one involucre, which had as many
pands as lobes, both pands and lobes
practically cleft in much the same way.
Boissier could not have seen ripe ends.

I do not want a new species, but simply
to show that it may be best to indicate the
possibility of their being two species.

The new species (as I suspected) - has the habit
of Palmeri + schizoloba, prostrate, the branches
umbellate and simple or mostly once forked.
See tracing. *E. schizoloba* is sometimes slightly
pubescent above (remember polycaepa + melanadenia).

How about *Quercus* + *Sorathana*? Must
I wait for them? Yours very truly

Steven Watson
Dr. Gray had the Benthamian in type long ago. [Watson, Sereno]



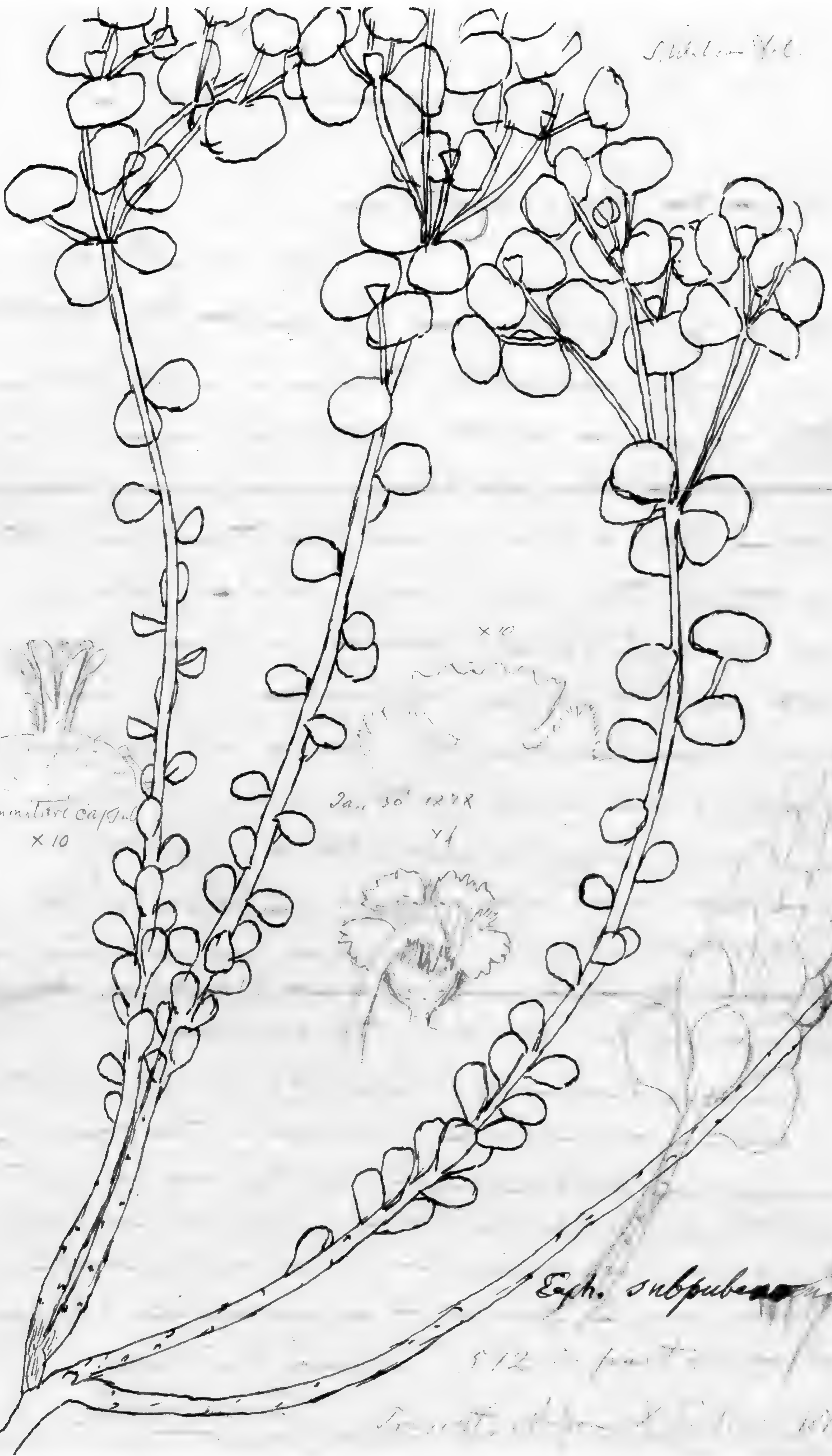
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S. Watson Det.



immature capsule
x 10

Jan. 30 1878

44

Eph. subpuberula

512 in fruit

Desert of California 1878



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Rec^d Feb 4
An Jan by

HERBARIUM OF HARVARD UNIVERSITY,

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Jan 31^m 1878

Dear Dr. Engelman -

What a
lot of questions! I was in
Washington during the printing of King's
Rep. and Palmer's things were added
there, from his collection sent to
Parry at the Agric. Dep^t. The E. poly-
conifolia must be there now, if
anywhere - and is probably E.
parryi, I should guess.

I am not sure about E. mon-
tana from Arizona, as we have
no specimens here from there.
There is no reason why it should
not be there, as it ranges from
Utah to New Mexico. In King's
Report I probably lumped things
together that did not belong together,
in giving the range. I doubtless gave



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The *Enphthalma micromma* I know only from the
ovine 2 micophthalma specimens, and have not examined
them closely. Now look at through the spiracles and
beards appendages.
I had the *Enphthalma micromma* all specimens
and in the herbarium, ready for your name.
There — is there all?

Yours very truly
Ernest Ingham





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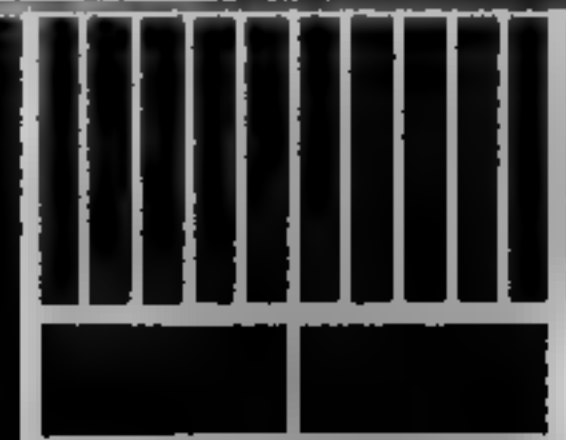
Jan 31 '76

"Sonora" on your own authority
in Bot. Mex. Bound. I cannot
verify my determination of
Whitler's plant as it was
returned to him at Washington.
His collections of 1871 & '72 were
very rubbishy.

The Californian *Crotovus* ~~have~~
have nothing to do with the
Texan ones. There is the common
C. Californicus (procumbens) and a
slender southern one which I call C.
tennis, both distinct from the
Mexican *C. gracilis* and from
the eastern *C. Neomexicana*, or.
I have seen no evidence of
Euph. hypericifolia in California
or its neighborhood.

Euphrasia triacantha of my Whitler list
is of course a misprint for trichantha
(there is but one other blunder of the kind in the
list), and is really, according to Gray's
revision, E. calycosa, various specimens
of which had been previously so named
by good authority.

We have nothing of the *Abies grandis*
or *concolor*.



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HERBARIUM OF HARVARD UNIVERSITY,
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Feb 4th 1878

Dear Dr. Engelman

Yours of 4th at hand. Conceivably Jatropha multicaulis is certainly not the genuine thing, of which we have specimens & have had in cultivation. It comes nearer to Benthams J. macrocarpa apparently.

I did with Populus all that my pocket would warrant. Shall send out the paper generally & if it receives any attention may be able to do better a second time.

Will send you sheets of the Euphorbia and I have arranged them for Bot. Calif.

Jatropha septentrionalis

stem leafy

from King Valley

leaves 4 to almost 9 parted Geranium Watson road, but within this log.

acute sinuous

lobes lobate or dentate, lobes acute

supra-axillary opposite calif

leaves 2 - 6 inches long, 2 1/2 - 8 wide

petioles short the leaves stipules multifid 2 - 3 l. long

calyx 3 per 6 li long corolla 5 6 li petals six calif



Jatropha ^{microphylla} ~~multifida~~ Benth

Art. Herb. p. 6

N. 35

Jatropha

Dec. 15. 2 1876.

9. *J. cardiophylla* (Zorr) Mill

I. *Curvas* corolla pseudo-gamopetala

14. *J. spiculata* (Vahl) Mill 2. *J. curvas* (Zorr) Mill

p. 1081

p. 1082

II *denocephala* petals lobes

1. Antherae valde inequales, recurvae

2. Antherae inequales rectae
externae paulo longiores quam laterales
internae elongatae

p. 1083

3. Antherae aequales stigmata crassiora

a calycis laciniis integris stipulis brevibus

b " " " " stip. fissis

p. 1085

c. " " " " calicis dentatis stip. dissectis

x fol. longe petiolata

xx " " " "

xxx " " " " petioli glandulosi

p. 1087

xxxx petioli breves (folioli longit.) petioli
fol. adnatis stipulis setosis fissis

28. *J. microphylla* Benth

xxxxx fol. profunde partita

1089

4. Antherae aequales elongatae stigmata crassiora

35 *J. multifida* L.

1090

36 *J. Boissierii* Zorr

5. Anther. aeq. brev. stigmata binnaria
linaria

1096

III *Cucidoscolus* petals deflexis - stigmata hispida
calyx petaloides

1100

60 *J. Jucosa* L. var. *stigmata*

68 *J. Jucosa* Mill

1102

62 *J. angustidens* (Zorr) Mill.

The new species allied to *microphylla*

to be named *J. septemloba*

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Over



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Recd March 2^o
Am sam by

HERBARIUM OF HARVARD UNIVERSITY,

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Feb 27th 1874

Dear Dr. Engelman,

I have recd
the returned proof and your notes
thereupon, for which accept thanks.
Dr. Rothrock had sent me your list
for his report, which I sent back with-
out delay. It seems that he includes
only species collected in the Weber
survey, instead of all the species
of the country as I supposed —
which would have been a very different
matter.

Our fire did not cross much. I modified
the talk about *E. crinita* a little after hearing
from you, but not very much — It is essen-
tially ~~the~~ form & substance as before
with you. I had no idea of making a new
species of it.

I enclose a Texan one from ^{the same place as the} Rev. ^{at the} ~~the~~
which puzzles me. a little fruit shows
the seed nearly globose (slightly angled), brown-
ish & smooth.

Prof. Whitney is after me because



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2 l. long. Squama rotunda matura
in sicc. foeculata.



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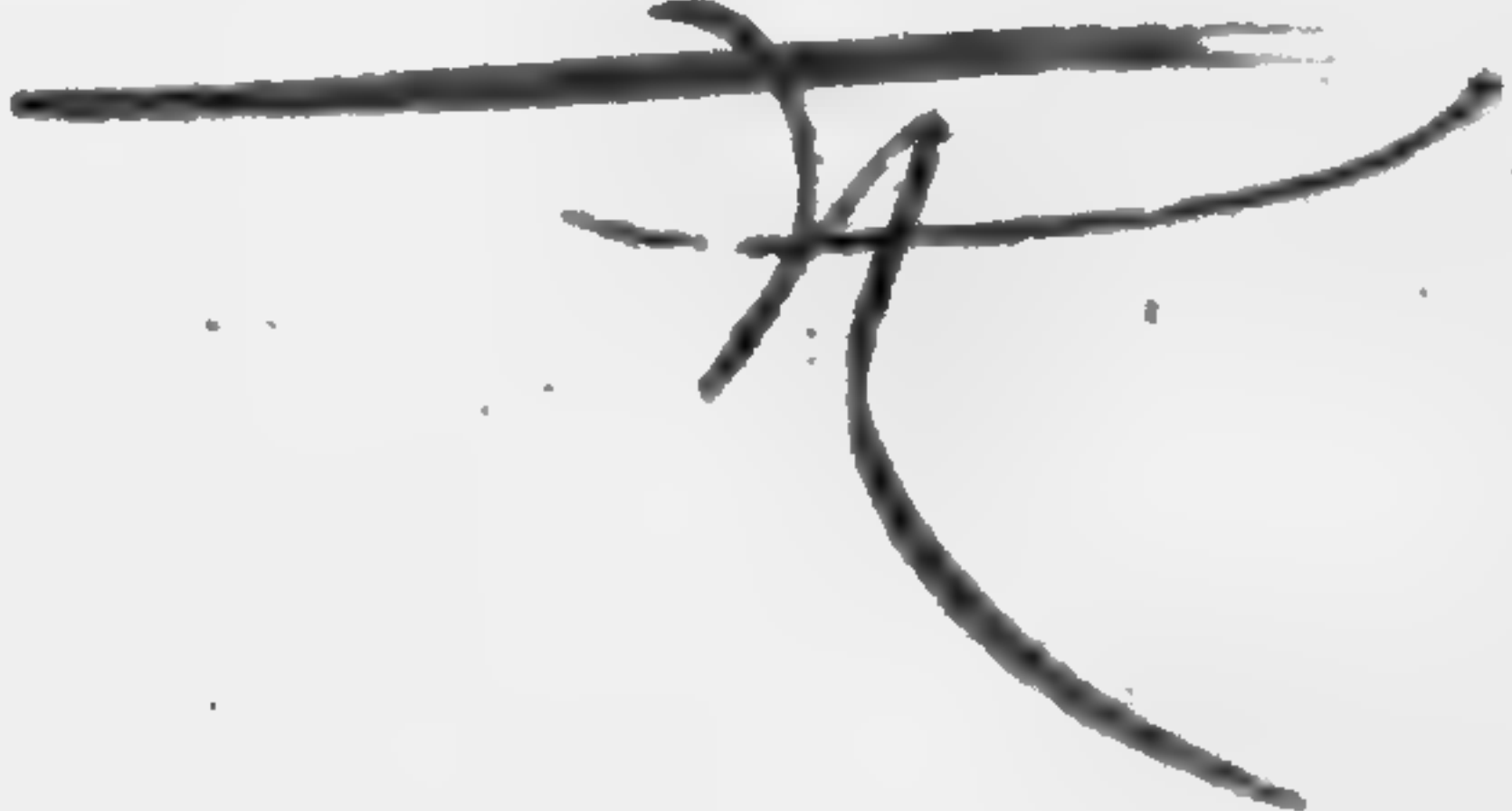


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Feb 27 '78

the printers are waiting for your copy. I tell him that I cannot help it. I will undertake anything but the conifers - those I won't touch. How much longer will we probably have to wait?

Mr. Canby is here today - till Friday making the most of his time.

Yours very truly
Ernest Watson




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[Vertical handwritten notes on the right edge of the page]



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Acc. 'March 4' 1878

Feb 28th

Dear Dr. Engelman,

I cannot

help you much as to flowering-time of the *Arceuthobium*s. Harvey was in Newberry every month in the year except April and May - his 1764 however was probably collected in July or August, judging from the run of his numbers, though this is not mentioned in his journal. There is no date to Lyall's specimen. I have looked over ours to see what ♂ specimens had any date given, and enclose you the results.

I suspect that I saw ^{on a distance} one *Arceuthobium* on the headwaters of the Provo River in the Wasatch, but collected no specimens.

Yours very truly
Severus Wats.

~~Severus Wats.~~



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Rec May 15th
Am 29

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

May 13th 1874

Dear Dr. Engelman,
Am sorry to
have raised so evil ghosts to
trouble you. But I was so bothered
with these enciform juniper that I
could not keep it to myself. I am a
little better satisfied regarding them now,
but not wholly so. It is for the bot. Calif.
Q. macrocephala is, I suppose, distinct from
Q. xiphoides. But there are two forms, one chiefly
from near the coast (Bolander seems to have got it
in the Yosemite), with aciculate stems, no ligules,
and inflorescence either 1-fl. cephala or paniculate (your
varieties a & b) — the other, ^{common} in the Sierras from
Kern Co. to Oregon, with subcompound (very rarely
aciculate) stems, conspicuous ligules, and the same
difference in inflorescence. This includes your
var. *gracilis* — very possibly also *Q. chlorocephala*, but I
do not quite make connection. It is so rarely
that anything like mature fruit has been
collected that the difficulty of drawing lines is
much increased.

"*Q. procera*" of course yields to var. *brunnea* of



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J. effusus.

May 13 '78

Our printing specimens of "*J. acutus*" from California show that it is quite distinct from the old world species - a strict and longer panicle, more and subtenser capsule, less distinctly cordate seeds, etc. I venture to call it *J. robustus*.

What other corrections do you suggest? I did not intend troubling you with them till you were through with your other matters, & you may throw it all aside for the present if you choose.

Looking at laurel the other day I saw that the catkins are not always borne by branches of the preceding year, as stated in the manual, but may appear wherever there are leafbearing spurs, even on branches that are several years old. The *L. occidentalis* is very near *L. decidua*, but appears to be distinct.

Cupressus lawsoniana and *nuttalliana* are likely to be the same thing.

Yours very truly
Seward Watson

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Rec June 2'
Ans 5

Cambridge, May 29

Dear Dr. Engelman

I do the best I can &
(to be returned)
send you in registered package a young
cone of *P. Coulteri*, and both our Lyall species
of *Abies*. I do not know when you got the locality
"Galton Range" nor just where that is. You will see
that the label says "between the Cascade Mts. & Ft. Colville",
which lies to the east on the Upper Columbia.

Thanks for your photograph. Dr. Gray is well & ex-
pecting to start for the Alleghenians next week with Mrs. Gray, Sar-
gent & others. Mrs. Gray is just now rather poorly. — W. L. Dudley
George Watson.



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CAMBRIDGE
MAY 29
5 P M
MASS

ST. LOUIS, MO.
RECEIVED
MAY 30 1892

WRITE THE ADDRESS ON THIS SIDE - THE MESSAGE ON THE OTHER

George Engelmann
3003 Locust Street
Saint Louis
Missouri

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Rec. Oct. 23

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

Oct. 19th 1876

Dear Dr. Engelm.,

I am rejoiced indeed at the promise which you give me. I do not care which comes first, Oaks or Pines, as I shall not start the printers again until I have the Ms. all well in hand. The other genera (*Larix*, *Sequoia*, *Taxus*, *Pinus*, etc.) are all done in a manner. *Cupressus* too has undergone a good deal of discussion and is cleared up in good measure, though doubt still hangs over one or two points, which I hope still to settle. Perhaps your material would be of service. I would be glad at any rate to see it. If you will take up, instead of *Cupressus* for the present, the 2 or 3 species of *Ephedra* that come into California, which I have not looked at lately but which I think need not give any great trouble or take much time, I shall be very well satisfied.

I can send you our material together



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Oct 19 '78

with the *Pinus ponderosa* and a lot of
"trunk" that has accumulated in the
Engelmann pigeon-hole - if you
say so.

(Rocky Mts., H+H.)

I see but a single young cone among
the *P. ponderosa* specimens. Dr. Havard
brought from the Yellowstone a single
cone, of which must be that species,
I suppose, but only $2\frac{1}{2}$ inches long.
Enclosed is a scale from it. He de-
scribes the tree is rather small (perhaps
40 or 50 feet high), with cones never larger
than this - common there. He called
it *Pinus rigida*.

We have the same from the Black Hills,
and perhaps all the Colorado thing is like it.

Yours very truly
Samuel Harker

Prof. Sargent is expected home on Wednesday
next.

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Rec Nov 17

BOTANIC GARDEN, CAMBRIDGE, MASS.

Nov. 13

Dear Dr. Engelman,

If by "Flora Indica" you mean Hooker's work, I am sorry to say that it has not yet progressed so far as the conifers. I have gone back to the original figure & description of *Pinus Gerardiana* in Lamb. Pin. and sent tracing of same. The cone is said to be 9 or 10 inches long, & is therefore a little reduced in the figure, but the seed is probably intended to be shown of natural size.

Yours very truly

Edwards photo of Sept 9

letter of Sept 8 reached me

: C. Oct Sept 24

Severus Watson





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1877

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

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[Faint handwritten notes or signatures at the bottom of the page.]



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Rec Dec 24

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Dec. 19th 1874

Dear Dr. Engelman,

I have not answered your note of the other day in regard to the Bot. Calif. Mss. In the first place allow me, entirely aside from that, to express my concern & sympathy with you in your semi-invalid condition & my hope that you may speedily recover entirely from it.

I do not know what to say. The printing of the volume must not be delayed much longer. The work on the endogens & cryptogams is very well advanced & will be ready whenever it is wanted. Thurber has taken hold of the grasses in earnest & has



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them nearly completed. So with
the canines, the fangs, &c.

If you cannot positively do
the abichinas & oaks very soon,
(say ready for the printer by the
1st of February), then I must
of necessity take your notes
and see what I can do with
them. But I do not see what
I can do in the way of investigation
which you have not already
done, nor how I can work up
your notes so well as you can
yourself even when confined to
your chair. I think that you
will best put them into such shape
as you can, indicating end points
as you want me to attend to, and
that the matter will have to
answer so.



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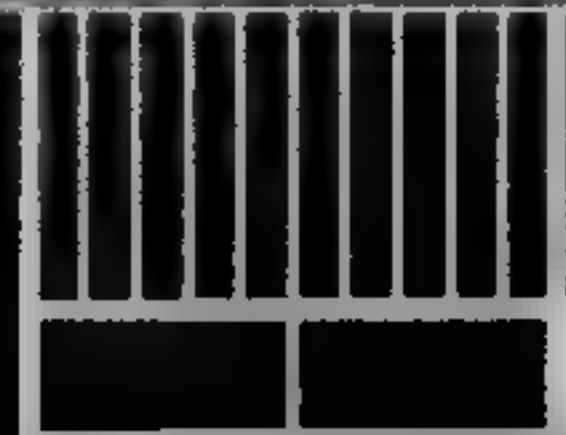


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Dr. Gray will answer
some of your questions.
We have still the original
Hesperaloe, and I had the
opportunity of examining it in
flower this summer & com-
paring it with the specimens
of the new one. I should think
that they must be distinct,
but shall have occasion to take
them up again shortly & will
then make up my mind more
positively.

By *Larix decidua*. I must
have meant *L. Europaea*.
No species of *Larix* has been found
in California, or nearer than
the headwaters of the Deschutes R.
(S. Oregon) — but *L. occidentalis* probably
get over the boundary into the moun-
tains of N. California.

Yours truly
Gerrit Hobart



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Rec March 31st
and came by

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

March 29th 1879

My dear Dr. Engelman,

Some months
have passed since my last
letter. Meantime trouble and
heavy grief have fallen upon
you, in which I have sympathized
with you sincerely notwithstanding
my silence. I could not
intrude upon your sorrow,
and would wait at least until
the sharpness of the pain
might be over.

I go today to Northampton to
visit my mother for the
last time. She is in her eighty
seventh year and lying upon



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her deathbed — not suffering, but
fading gradually, quiet and peace-
ful. I cannot sorrow greatly
in the prospect of her going. In
the course of nature her time
has come. Her many years have
been well spent. She has been a
faithful loving mother, living
in and for her children, of
whom a dozen have become
men and women, and but three
have passed before her. I know
that this life must soon open
out for her into a higher and a
better, and when I think that I
shall see her no more here
I can but comfort myself
with that verse of the beatitudes
of the Book — "Blessed are the dead."



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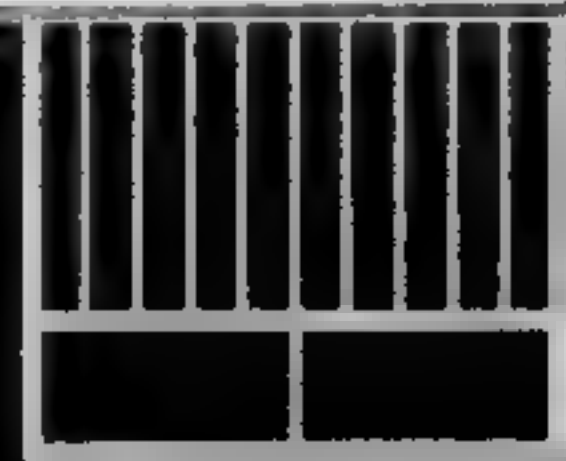
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Mar 29 '79

I suppose that you have
not had the heart, scarcely the
opportunity, to think of the
Bot. Calif. But will you not
send me your notes upon
the oaks, that I may have
them ready. And when may I
perhaps hope for the pines?
Put them in as satisfactory shape
as may be done with present in-
formation, but there will be
opportunity also in the Appendix
to make any changes that you
see fit, so that there will still
be some months before what
will be really your final verdict
for the volume. I have made
numerous promises to have the
book out this year, and to keep



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Then it will be necessary that
there should be no further delay
that can possibly be avoided. This
must be my excuse for
mentioning the matter at all
now. —

Yours very truly
Steven Watson

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Have you fruit or flowers of any *Ephedra* from the Coast Range of St. Barbara County and
Southward?

Cambridge - Apr. 14

Dear Dr. Engelman,

Rec^d April 18th 1879
— 20

I have taken up the
Ephedra, and find, as I have long supposed, that
the Nevada species is plainly distinct from the
original *E. antisiphilitica*. The ~~only~~ ^{only} name for any
form of it is "*E. pedunculata*, Engelm." as cited by me in King's
Report, 330, which however does not appear in Simpson's
Report. I suppose you will not object to father the species
— perhaps you have already reinstated it in Rottrock's
Report, though I believe it was not collected by him.
Am very glad to hear that your son is so much
better. Yours very truly —

Frederick Watson.



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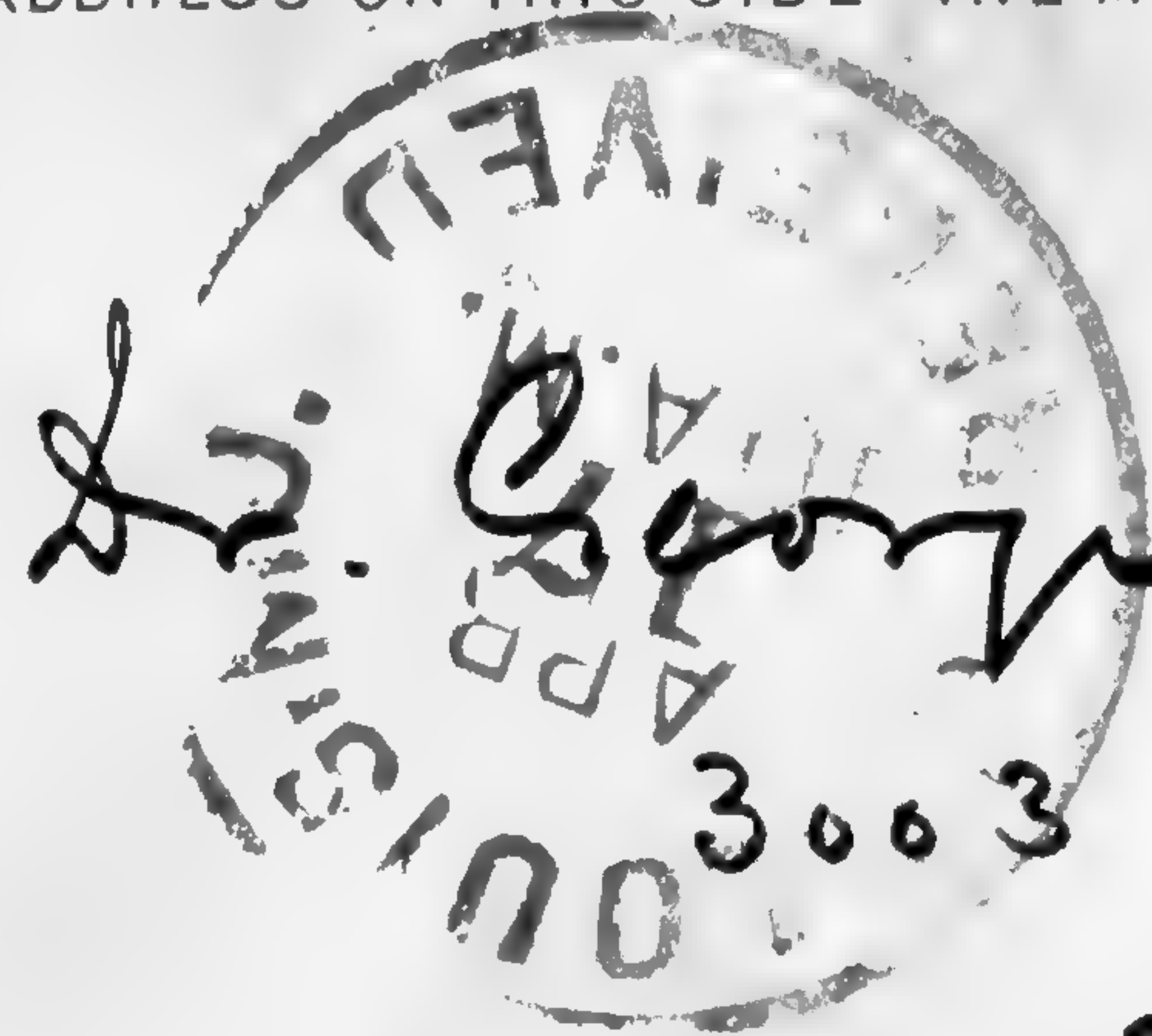


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Dr. G. Engelman
Locust Street
Saint Louis
Missouri

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Rec April 28 1879

BOTANIC GARDEN, CAMBRIDGE, MASS.

April 24th

Dear Dr. Engelman

I am rejoiced to know that you are on the point. I am clearing away the shrubbery around that you may have the less territory to go over. The Ephedras were all ready in MS. for the printer some days ago. You will see from my notes how far my conclusions differed from yours. I do not think that I can be mistaken in considering Melandier's original specimens, though without male flowers, as the same with those which you call *E. pedunculata*. And as you prefer that that name should be ignored in connection with the other species, I propose



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E. nevadensis
for that which you have called *E. anti-*
siphilitica.

I am in a little doubt about Brown's
and Lambert's specimens from Santa
Barbara + Cook Tejon, which have
neither flowers nor fruit. They
probably belong to *E. nevadensis*.

Under *E. Torreyana* I include your
E. scariosa and most of *E. variabilis*.

E. Californica seems to me to be
quite distinct. I have both male
flowers and fruit.

Perry speaks in his last letter of having
an *E. podocarpa*, n. sp. - He probably means
your *E. pedunculata*.

I arrange the *Cycnospirum*
for Bot. Calif. as follows -

C I. Quercaceae.

1. *Elmudra*

C II. Taxaceae.

1. *Torreya*
2. *Taxus*.

C III. Coniferaceae.

Suborder I. Cupressineae

*

1. *Juniperus*.

**

+

2. *Cupressus*
3. *Chamaecyparis*



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April 24

- 4. Thuja.
- 5. Libocedrus.

Suborder II. Sequoineae

6. Sequoia.

Suborder III. Abietineae.

7. Pinus

+

-

Larix

Yours very truly
 S. W. Gardner

I had forgotten all about
 any E. variabilis, + cannot now
 recall any reference to it.



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Rec May 24th
ca, I 25

BOTANIC GARDEN, CAMBRIDGE, MASS.

May 21st 1879

Dear Dr. Engelm.,

I hear from Dr. Parry that he is sending you his Mexican Euphorbias, etc., for determination. I hope that you will not let them tempt you from the California work, as he can wait much better than the Bot. Calif. can, and I am crying for your MSS. daily.

When the Quercus copy is ready will you please send it on at once, and I will set the printers at work. — Accept the enclosed. Do you ever exchange? Would be glad to have yours.

Yours very truly Asa Gray



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Recd July 16
am 1879

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 14 1879

Dear Dr. Engelman

I send you
this morning galley proofs
of the "Quercus" and your
ms. You will see that I have
interpolated the usual paragraph
repecting distribution, &c., and also
a key to the species. It seemed
to me best to have something
of the kind, but you may
cross it out if it does not
please you, or make any
improvements that may
suggest themselves. The changes
in the rest of the matter are rarely



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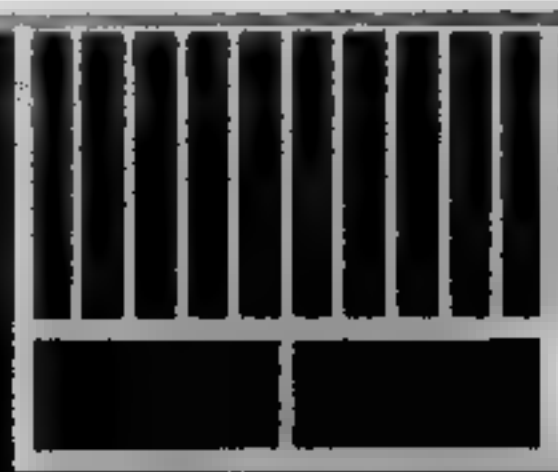
more than verbal ones or slight
modifications of arrangement. In
the measurement of the pollen grains
I have substituted lines for mm., for
uniformity's sake. You will also
notice that "Hook. & Arn." is restored in
case of the Bot. Beechey species, as I
think must be done. They were first
published in Bot. Beechey with nothing
to indicate that they should not be credited
to H & A like all the other new species.
Moreover in Hook. Icon. they are
credited to "Hook. & Arn.", which would
seem to settle the matter. &

When you send the *Pinus* wood.
will you also give a key to your genera,
the most conspicuous characters
in brief.

Am very glad to hear that your
purpose coming to Cambridge.

Yours very truly
Aspenstrom

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Recd Aug 4
A very sunny day

To send to Benth
Miss G. Benth

BOTANIC GARDEN, CAMBRIDGE, MASS.

Aug. 1st 1879

Dear Dr. Engelm.,

I send
you proof of the *Loasanthaceae*
with your old MSS. The ordinal
character is remodelled to con-
form with the style of the rest.
The "var. *concoloris*" rather bothered
me as hardly allowable, and
I reduced it to "concolor" as a
venture. Would not some other
name be better?

We come at once to the conf.
exam, and all is in type but your
own contribution. Please send
with the returned proof characters
of your genera in brief for the synop-
tical key, & oblige yours very truly
Evelyn Watson



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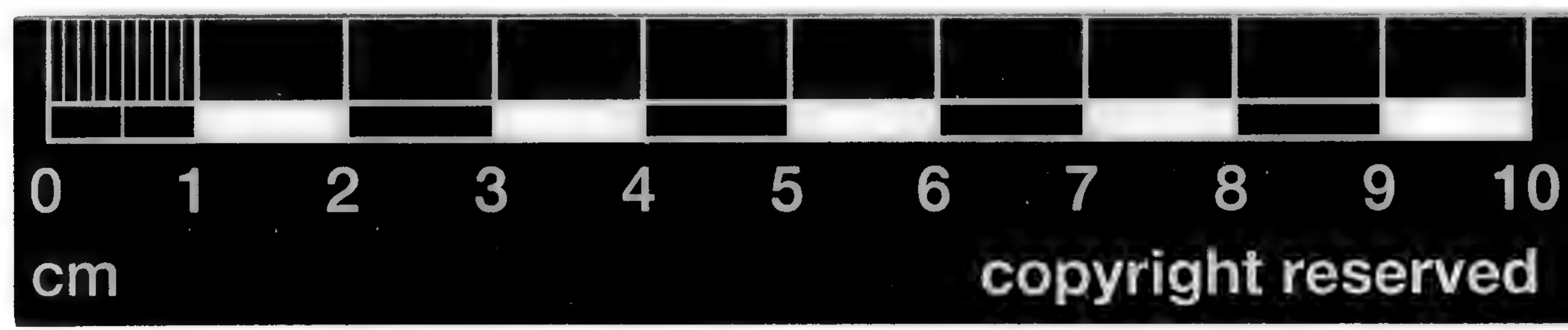
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1847

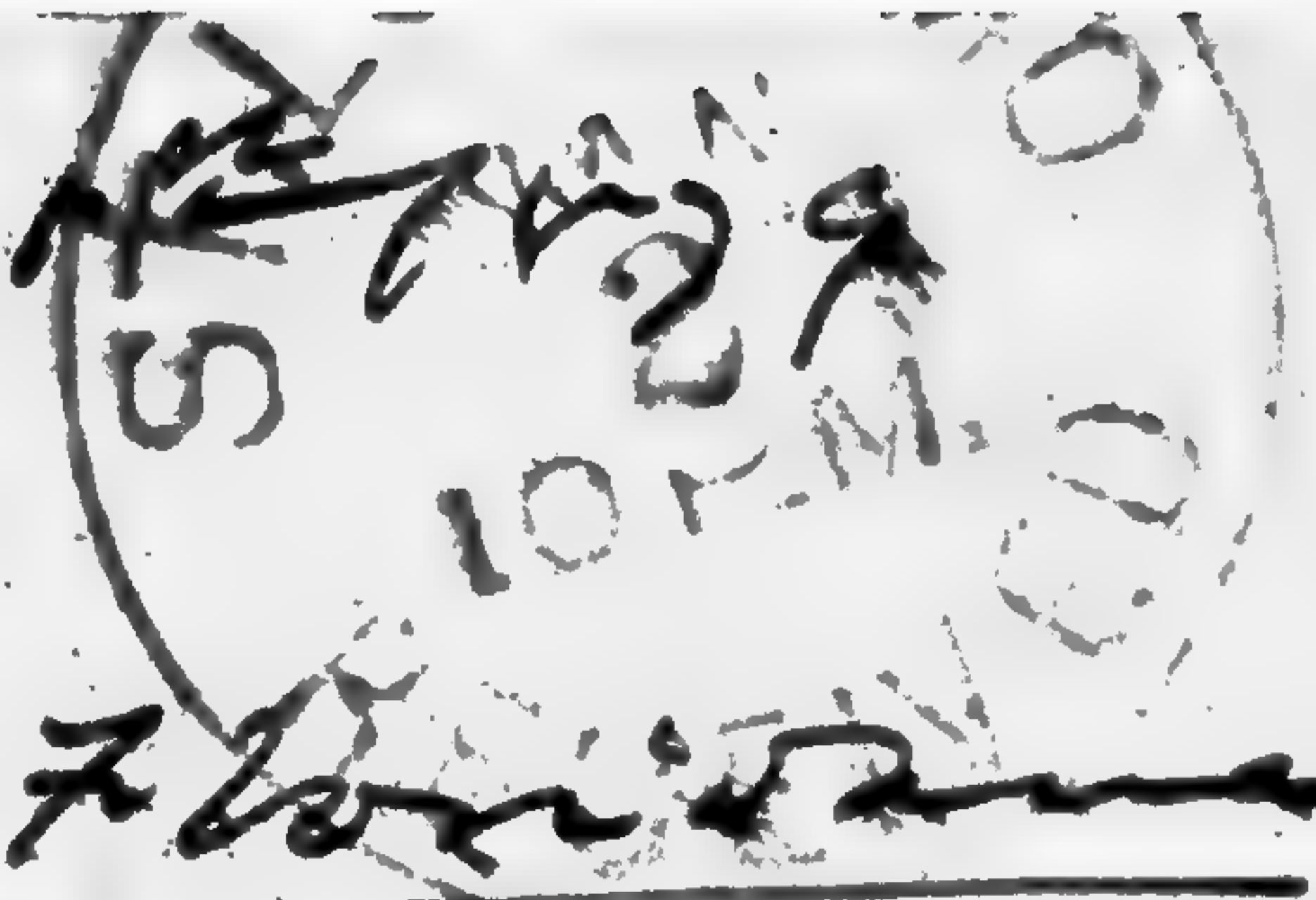
Bluff 1847

Some of the specimens
I have to send to
you for the purpose of the
analysis. The specimens
I have to send to you
are of the same nature as
those which you have
sent me. The specimens
I have to send to you
are of the same nature as
those which you have
sent me. The specimens
I have to send to you
are of the same nature as
those which you have
sent me.

We have seen the same
specimens in the
Museum of the
University of
Missouri. The
specimens are
of the same
nature as those
which you have
sent me.



Dec. 3



Dear Dr. Engelmann

Taxus floridana

is mentioned, but not described, by
Kuntze in Sylva ij. 92, where he refers to
specimens in Herb. Philad. Acad., collected by
Crown, and so named. He quotes from a letter
from Dr. Torrey - "I have another Taxus yet undescribed,
given me by Crown. It is an erect tree, often 30 feet high,
with foliage and male flowers resembling the European Yew."

Yours Very Truly

Jerris Watson



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Recd Feb 27

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feb 24 1880.

Dear Dr. Engelman,

Dr. Torrey's
working up of Isoetes in his
"Compendium of the Flora of the
Northern & Middle States - 1826", is
very compendious, as follows -

"615. Isoetes.

I. lacustris. Hab. Bottom of lakes.

Leaves all radical, 2-5 in. long, subulate,
fleshy, semicylindrical."

What a pity that we can now
be so easily satisfied now!

would like your duplicate of
Bramm's paper of 1846 - we have
the other.

I have now laid my plans yet
for the western trip. Must get this
Bot. Calif. off my hands before I dare
think of anything else.

Yours very truly
Elliott Couder



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Rec April 20
Chas Jan Day

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

Apr. 16 1880.

Dear Dr. Engelman

Thanks for
Cactus notes.

Dr. Cronquist puts in fragments
of *Erythraea*. He thinks
your Cuban from Mrs. Austin
must be the same that he
has put into *C. calycosa*
= 1138 Lemmon. I think we
have nothing else from Mrs. Austin
of that kind.

Yours very truly
Asa Gray



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Rec May 19

May 17 '80

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

May 17th 1880.

Dear Dr. Engelman,

"Add & com."

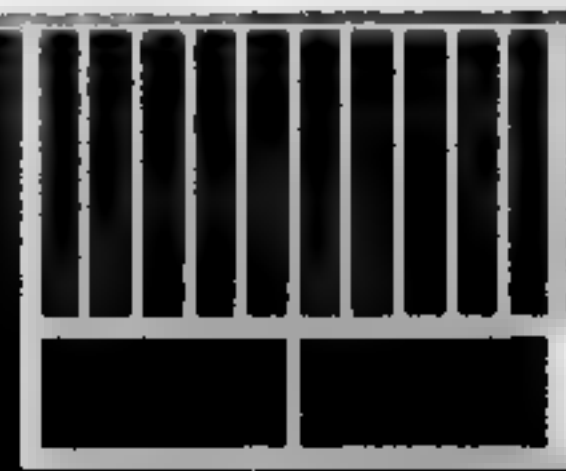
received thanks. You had already seen the description of flowers of *Mamm. densa*.

The *Corythamnus* should be *A. sericophyllus*, Gray (in herb.), and the *Hillieria* one of the two described in second part of my Lily paper - probably *S. linearifolia*.

There is no end to the address but I shall give them all and come as near to finishing things as I can.

Dr. Gray will not leave until September so that the inter-
regnum will not be long.

Yours very truly Frederick Watson



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Recd Philad Sept 12th

From same day

1880?

Cambridge, Sept. 9

Dear Dr. Engelman

I send you
proof of your conifers, &
your own Notes that you
may see where the variations
are. You will not find them
of much moment.

I added some citations of
your work in Wheeler's Report,
which it seemed right to do.

I also cite King's Report as an
earlier publication of *concolor*
latifolia, and refer to the *Annals*
annabitis of that work under
concolor, where it doubtless
belongs.

On making up the pages the
matter was found to run
over a few lines onto page



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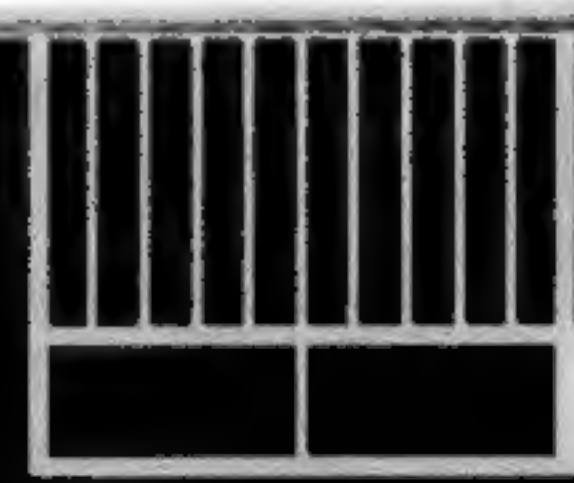
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129, and as it is very desirable
that it should end with an
even folio, I contrived to
crowd it back without much
loss. You will see that the
second page is still short. Can
you not add a couple of
lines?

Please see that the paragraph
under *P. insignis* is made right
to suit you. If you can
shorten that last page a trifle
~~after~~ it will look better.
It is now full length.

Do not hesitate on account
of trouble to make any changes
anywhere that you think
advisable.

When cast I will have extras
struck off of the *Quercus*,
Loranthaceae, & *Abietinae*
together, in good shape. How



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

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MISSOURI
BOTANICAL
GARDEN

Sept 9

many of them would you like?
And shall I send them to St.
Louis or let them await you
here?

Yours Very Truly
Frederick Watson



0 1 2 3 4 5 6 7 8 9 10

cm

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[Faint, illegible handwriting on lined paper]

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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

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