Rec Febr 16th
Ans " 16-

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feby 13th 1877

Dear Dr. Engelmann

I sent you a few days ago 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 Genera & Coniferæ, which you are doing, come pretty early in the volumes, and the

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absent. Prof Eaton does the ferns, &c.
Mr. James promises the mosses — and
if the volume includes more of the crypto-
gams it will be done by Dr. Farlow.

Dr. Gray is very busy & in correct
with the "Fl. N. Am."

In your Agave paper I note a
misprint on page 301 (13) — l. c. 1095
for 1905.

Yours very truly

Asa Gray

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Feb 13 '77

Miss. will probably be wanted in July at the farthest. Probably that will not give you time to think of taking up anything pending queries, such as your Jeto the Euphorbs & Loranths — especially as immediately after Coniferæ comes Ephedra, which you will just in shape, with you not? However, if nothing better can be done, may I not ask of you the favor to read over my Miss sheets when ready & give the volumes the benefit of your knowledge and good judgment in the way of corrections & suggestions.

Mrs. Babb is to do the willows. Dr. Thurber is at work on the grasses. Mrs. Booth takes the cactaceæ, as also. Thurber is

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Rec April 23
Ans 26

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

April 19th 1877

My dear Dr. Engelmann,

You must excuse me for asking you to look over my proofs of ~~the~~ Index for Cactaceæ, for you know that you are my only resource 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 cared 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 citations I have not been able to complete and of these some perhaps should be omitted. I could get no clue to where Galeotti described his species — ditto, Pozuzo. Some of the figures in Errera'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 necessary. Your later studies may have satisfied you as to the true rank of some of the queried varieties & species.

Please make any alterations or transpositions of whatever kind that will bring

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Apr. 19 '97

the list up somewhat near to the
end of your present knowledge
and so oblige yr truly

Yours very truly
Sereno Watson

I remember your saying that 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^a. I want to send
you some specimens from Palmer's auto
which I rather think you have not seen
— Stillingias, Argythamnias & the like.

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Rec' June 16"
Ans — 28

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

June 13th 187)

Dear Dr. Engelmann,

Dr. Gray has told me of his endeavors to prevail upon you to join his party with Dr. Hooker to Colorado. I hope that you will go & enjoy the pleasure of the trip. But <u>what</u> will become of your contrib 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 Sereno Watson.

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Rec'd July 6th 15
Ans July 15

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 3d 187)

Dear Dr. Engelmann,

I do not want the California Ustilago 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 Euphorbias that make the trouble. I am sure you my dear 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 materials is there for one
again & some species and genera
added. I am not at all sure about
the limits of the genus Lysimachia,
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 write the whole of your
leisure.

Thanks for the seeds of
Lathyrus pusillus & your
notes. —— Yours very truly
Asa Gray

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Rec'd Aug 13th
Ans — 15

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Aug 9th 1877

Dear Dr. Engelmann,

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

Triadica
Valdiviana
minor
& polyrhiza.

Yours very truly
Sereno Watson

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Rec Oct 1 11
Ans — 2

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Sept. 25 1877

Dear Dr. Engelmann

Enclosed
a bit of Euphorbia which I
do not identify right away.
Dr. Gray is home again, with Sintenis
Harbour, and busy overhauling their
gatherings. will have notes and notices
for you on Cornifers especially.
How are you getting on with Eu-
phorbia, eh? Please return me the
your communication my MSS on the
other Euphorbiaceous 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
Sereno Watson

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Rec'd Oct 20th
Ans — 21

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Oct. 17th 187)

Dear Dr. Engelmann

How soon can I expect the Mss. of California Euphorbias from you! They will be needed first — then the oaks — then the Lorants — then the Coniferæ — in pretty close sequence. With the 1st of December be too soon to look for it? or the most of it? Or what is the earliest Euphorbia from S. Utah? A first look

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Oct 17 '77

I was going to write in
time to E. Schumann, but it
is handy that.

Yours truly
George Engelmann

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Rec Dec 17th
Ans Jan 11

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Dec. 15th 1877

Dear Dr. Engelmann,

I'm pinkus
I am just packed Euphorbiaceæ
and call for "more copy".
I can give them all but
Euphorbia and then must
stop so for — the Rickyfish
are concerned.
I have shared some of Hooki
expense of orders in Asper. & Heaths
+ Decaisne, as this for Nat. Calif.
they will run as follows —

* drop superior.

76. Nyctaginaceæ
77. Polygonaceæ
78. Amarantaceæ
79. Chenopodiaceæ
80. Balanophoraceæ
81. Lauraceæ
82. Thymelaceæ
83. Elæagnaceæ
84. Urticaceæ
85. Platanaceæ
86. Buxaceæ
87. Euphorbiaceæ
88. Callitrichaceæ
89. Saururaceæ
90. Ceratophyllaceæ
91. Betulaceæ
92. Myricaceæ
93. Salicaceæ

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** Dray citation.

94. Jay Landacca
95. Cuyahifera
96. Corylacea
97. Asiostrachia
98. Rafflesiacea
99. Santalacea
100. Loranthacea
and Thes
101. Grubacea
102. Coniferæ —

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

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

With the compliments of
the season Yours truly
Geo. Engelmann

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Rec'd Jan 22
Ans Sunday.

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Jany 19th 1878

Dear Dr. Engelmann,

When did Euphorbia schizoloba get its name? Boissier cites Hooker's Report, but there it is published as "E. incisa". Much as I wish, incasmuch as it does not seem to be Mexican 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 Hind's original, but Boissier appears to have seen it. These have none of the sharply or remotely dentate leaves, some of them entirely at base — nor are the involucres in 3 to 5 clustered heads on each branch — the glands are 5, not 3 or 4, — and the seeds are not dimly covered with depressed tubercles. The description of the involucre

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Jan 19 '78

lobes and plants may grass. I have
drawn up my description from Palmer's
specimens and noted discrepancies.
Dr. Gray gave to Watkins me to
Wednesday to making up Smithsonian
Reports. Letter from Dr. Parry
& Asa Gray.

Yours Very Truly
Simon Watson

Jan 1867

Prof. Am. Acad 3. 173

Engl. Bot.
vol. 3 plate

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Rec Jan 29 1878
Ans —30

Cambridge, Jany 26

Dear Dr. Engelmann,

I send you
copy of Buckham's original description
of Euph. Eriantha. There is no mistaking
this account of the inflorescence. You
have now Wright's specimens, only Palmer's
from Camp Grant and the Tanktillas Mts.
In these there are I think but 2 involucres
at the end of a branch in any case.
I now want to work materials I examined
only one involucre, which had as many
glands as lobes, both glands and lobes
proximately deft 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 there being two species.
The new species (as I suspect) - has the habit
of Palmeri + schizolobum, perennial, the branches
numberless and simple or mostly once forked.
See Tracing. E. schizolobum is sometimes slightly
suberect above (remember polycarpum + melanadenium).
How about Queretaro + San Luis Potosi? Must
I wait for them?

Yours very truly
Sereno Watson

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

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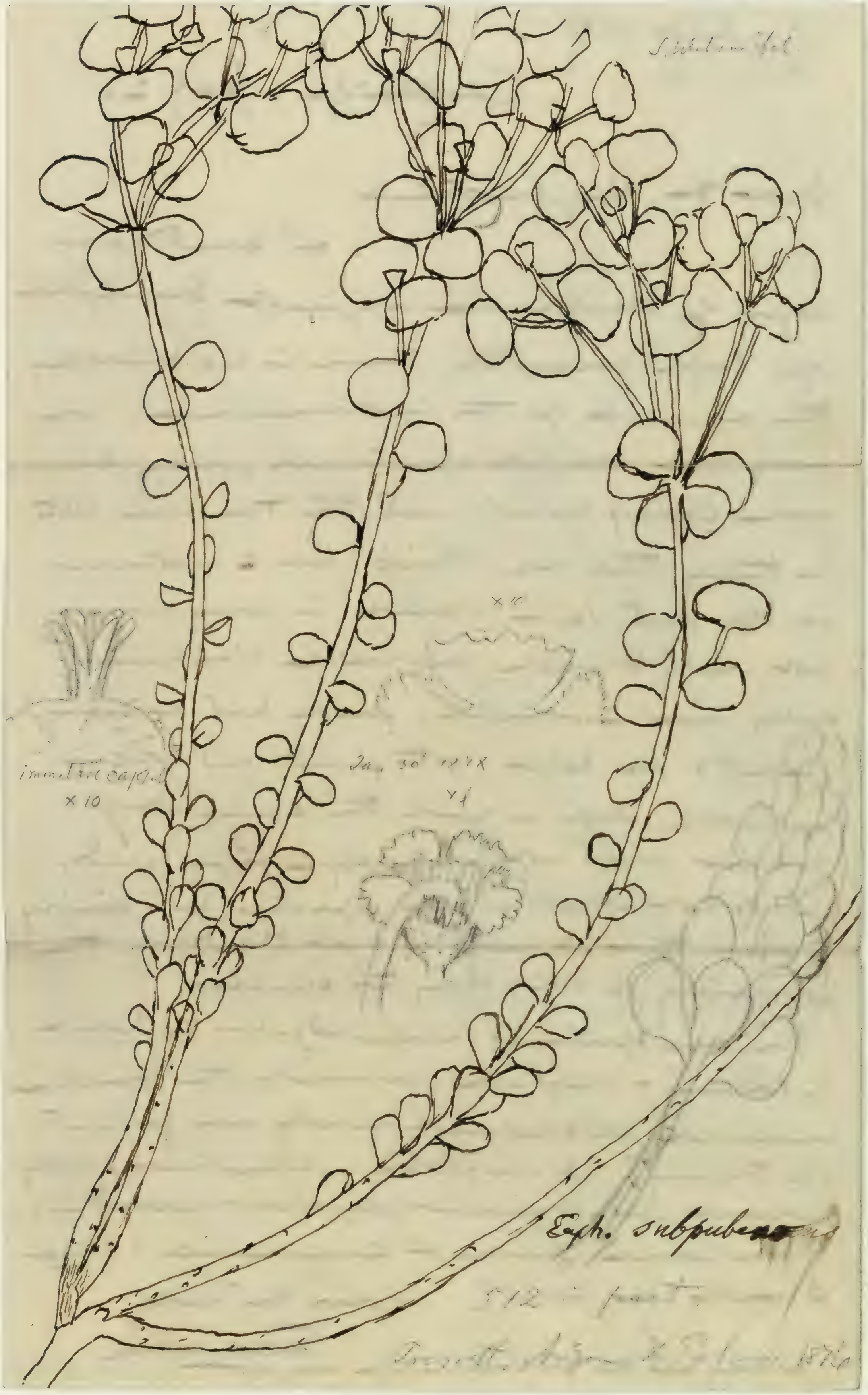

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Rec'd Febr 4
Ans Same day

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Jany 31st 1875

Dear Dr. Engelmann —

Whether 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?. The E. polycomiphylla 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 & 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 Euphorbia micromeris I know only from the original Wrightian specimens, and have not examined them closely. They look as though the species were a decided annual.

I had the Castor Zin Ricinianis all straightened out in the herbarium, ready for your name.

There — is that all?

Yours truly

Asa Gray

Jan 31 '76

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

The Californian C. obtusa have nothing to do with the Texan ones. Then is the common C. Californicus (procumbens) and a slender southern one which I call C. tenuis, both distinct from the Mexican C. gracilis and from the eastern C. Nuttallianus, &c.

I have seen no evidence of Euph. hypericifolia in California or its neighbourhood.

Euphorbia triacanthus of my Wheeler 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 Engm's revision, E. obtusata, 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,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feby 6th 1878

Dear Dr. Engelmann

Yours of 4th at hand. Your Jatropha pauciflora is certainly not the genuine thing, of which we have specimens & have had life in cultivation. It comes nearer to Benthamii J. macrorhiza apparently.

I did with Pop[ulus] all that my professional work warrants. Shall send you the paper gradually & if in receiving any attentions may be able to do better a second time.

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

Jatropha cystiophila
Low Canyon
Lower 7 to about 9 petal round, not evident thin long,
acute veins
lobes (lobed to below)
leaves 2 – 6 inches long, 2½ – 8 wide
petioles short the leaves
stipules multifid 2 – 3 l. long
at most 3 per 4 lin long
Low Canyon
Lower 7 to about 9 petal round, not evident thin long,
acute veins
lobes (lobed to below)
leaves 2 – 6 inches long, 2½ – 8 wide
petioles short the leaves
stipules multifid 2 – 3 l. long
at most 3 per 4 lin long

Jatropha multifida L. Benth
Pl. Hartw. p. 5
No 35

Jatropha

Dc. Prod 15. 2 1076.

I. Curcas corolla pseudo-gamopetala
II Adenorhopium petala libera

p. 1081 14 J. gossypifolia (Ortega) Müll
p. 1082 9. J. cardiophylla (Torr) Müll
8. J. canescens (H.B.K.) Müll

1. Anthers oblongo-lineares, connectivo
2 Anthers linéares rectæ
extrorsæ paulo longiores quam latæ
filiformes elongatæ
p 1083 3. Anthers aequales stigmata crassiora

a calycis laciniæ ovatæ, integræ stipulæ haud
c " " " stip. fissæ
p. 1085 c. " " oblongo-lanceolato stip. dilatato

× fol. longe petiolata
×× " "
××× " " petioli glandulosi
p. 1087 ×××× petioli breves (1/2 folii longit.) petiol
fol. ad med. petiolo stipul. setaceo fissi

28. J. macrorhiza Benth

××××× fol. profunde partita

1089 4. Anthers aequales oblongæ stigmata crassiora

35 J. multifida L.

1090 36 J. Berlandieri Torr

5 Anth. aeq. breves stigmata brevia linearia

1096 III Curcas petala deficientia — stimulae hispidae
calyx petaloideus

1100 60 J. furcata L. non stimulosa

61 J. furcata Müll

1102 62 J. angustidens (Torr) Müll.

The next species allied to macrorhiza
to be named J. septemloba

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Rec'd March 2
Answered

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feby 27th 1874

Dear Dr. Engelmann,

I have received the returned proof and your notes thereupon, for which accept thanks. Dr. Rothrock had sent me your MS. for his report, which I sent back without delay. It seems that he includes only species collected in the Western survey, instead of all the species of the country as I supposed — which would have been a very different matter.

Our firs did not cross much. I modified the talk about E. eriantha a little after hearing from you, but not very much — It is essentially same form & substance as before I saw your MS. I had no idea of making a new species of it. I enclose a specimen of it from Rothrock which puzzles me. a little fruit shows the seed nearly globose (slightly angled), brownish & smooth.

Prof. Whitney is after me because

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2 lin. longa. Segmina mandibulae maturae
in ramo posteriore.

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Feb 27 '78

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

Mrs. Cauley is here today — like Friday making the most of his time.

Yours very truly

Samuel Watson

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Acr 'Shark' 1878

Feby 25th

Dear Dr. Engelmann,

I cannot help you much as to flowering-time of the Arceuthobiums. Harvey was in Kimberley every month in the year except April and May — his 1864 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 once, or a distance Arceuthobium on the headwaters of the Provost River in the Rockies, but collected no specimens.

Yours very truly

Sereno Watson

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Rec May 15th
Ans 23

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

May 13th 1874

Dear Dr. Engelmann,

Am sorry to have caused so much trouble to you. Was I was so bothered with those specimens just as 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 West. Calif^n. G. Macrocephalus is, I suppose, distinct from G. xiphioides. But there are two forms, one chiefly from near the coast (Bolander seems to have got it in the Yosemite), with ancipital stems, no ligules, and inflorescence either 1-few. cephalous or paniculate (your varieties α & β) — the other, the common one, in the Sierras from Kern Co. to Oregon, with subcompressed (rarely ancipital) stems, conspicuous ligules, and the same differences in inflorescence. This includes your var. gracilis — very possibly also G. chlorocephalus, but I do not quite make connection. It is so rarely that anything like mature fruit have been collected that the difficulty of drawing lines is much increased.

"G. procerus" of course yields to var. breviscapus of

May 13 '78

J. Hansen.

Our printing specimens of "J. acuminatus" from California show that it is quite distinct from the Ont. woods species — a stricter and longer panicle, thinner and subglobose capsule, less distinctly carunculate seeds, &c. 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 Darby the other day I saw that the catkins are not always borne by branches of the preceding year, as stated in the manuals, but may appear wherever there are lateral leaves, even on branches that are current years old. Mr. L. viridulus is very near L. Darlingtonii, but appears to be distinct.

Cuprinus Lawsonianus and subcalvus are likely to be the same thing.

Yours very truly
Sereno Watson

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Acc Sum 2'
Ans 5

Cambridge, May 29

Dear Dr. Engelmann

I do the best I can & send you in registered package (to be returned) a young cone of P. Coulteri, and both our Lyall specs of Abies. I do not know where 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 & expecting to start for the Alleghanies next week with Mrs. Gray, Sargent & others. Mrs. Gray is just now rather poorly. — Yo Truly
Sereno Watson.

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POSTAL CARD.

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

CAMBRIDGE STA MAY 29 6 PM MASS

ST. LOUIS, MO. REC'D MAY 31 10 PM

POSTAGE ONE CENT

Dr. George Engelmann

3003 Locust Street

Saint Louis

Missouri

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Rec'd Oct. 23

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Oct. 19th 1870

Dear Dr. Engelmann,

I am rejoiced indeed at the promises 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 Mss. all well in hand. The other genera (Larix, Sequoia, Torreya, Taxus, &c.) 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 shall be settled. Perhaps your material would be of service. I would be glad at any rate to see it. If you wish 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

Oct 19 '78

with the pines ponderosa and a lot of "trash" that has accumulated in the Englemann pigeon-hole — if you can do.

(Rocky Mts.; H + H.)

I see but a single young cone among the P. ponderosa specimens. Dr. Havard brought in from the Yellowstone a single cone, of which must be that species, I am sure, but only 2½ inches long. Enclosed is a scale from it. He describes the tree is rather small (perhaps 40 or 50 feet high), with cones more 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 truly

George Engelmann.

Prof. Sargent is expected home on Wednesday next. —

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Rec Nov 17.

Botanic Garden, Cambridge, Mass.

Nov. 13

Dear Dr. Engelmann,

If by 7 flora Indica" you mean Hooker's work, I am sorry to say that it has not yet progressed so far as the coniferæ. I have gone back to the original figure + description of Pinus Coulteri in Lamb. Pin. and send 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

Sereno Watson

Sereno photo of figs
Letter of Sept 8 enclosed me
: C. Oct Sept 24

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Rec Dec 24

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Dec. 19th 1875

Dear Dr. Engelmann,

I have
not answered your note of
the other day in regard to the
Bot. Calif. Vol. I. for the first place
I know not, entirely aside from
that, to express my concern &
sympathy with you in your
domestic 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 Cyperaceae & Gramineae is very
well advanced & will be ready when
ever it is wanted. Thurber has taken
hold of the grasses in earnest & has

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them nearly completed. So with the Carices, the Ferns, &c.

If you cannot positively do the Alsineae & Oaks very soon, (say nearly for the printers 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 just throw into such shape as you can, indicating such points as you want me to attend to, and that the matter will have to answer so.

I am busy with answering some of your questions. We have still the original Herbarium, and I had the opportunity of examining it in favour this summer & comparing 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 & with them make up my mind more positively.

By Lasiw decidua I must have meant L. Europaea. No species of Larch has been found in California, or many than the headwaters of the Deschutes R. (S. Oregon) — but L. occidentalis probably get over the boundary into the mountains of N. California.

Yours truly Edward Tuckerman

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Rec March 31st
and answ'd by

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

March 29th 1879

My dear Dr. Engelmann,

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 as long as 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 death bed — not suffering, but
failing gradually, quiet and grace-
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 seem open
ing 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 part of the beatitudes
of the Book — "Blessed are the dead."

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 information, but there will be opportunity also in the appendix to make any changes that you see fit, so that them will still be some months before what will be really your final word for the volume. I have made numerous promises to have the book out this year, and to keep

there is 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
Sereno Watson

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Have you fruit or flowers of any Ephedra from the Coast Ranges of St Barbara County and southward?

Cambridge — Apr. 14

Rec'd April 17th 1879
Ans — 20

Dear Dr. Engelmann,

I have taken up the Ephedras, and find, as I have long supposed, that the Nevada species is plainly distinct from the original E. antisyphilitica. The 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 Rothrock'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 — Sereno Watson.

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Rec April 28 1879

Botanic Garden, Cambridge, Mass.

April 24th

Dear Dr. Engelmann

I am rejoiced to know that you are on the Pinacæ. 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 differ from yours. I do not think that I can be mistaken in considering Nuttall's original specimens, though without male flowers, as the same with those which you call E. pedunculata. And as you prefer that their name should be ignored in connection with the other species, I propose,

E. meadowsii
^ for Utah which you have called E. antisyphilitica.

I am in a little doubt about Brown's and Xantus' specimens from Santa Barbara & from Tejon, which have written flowers not fruit. They probably belong to E. meadowsii.

Under E. Torreyana I include your E. acanthina and most of E. venustula.

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

Parry speaks in his last letter of having an E. podocarpa, n. sp. - He probably means your E. fasciculata.

I arrange the Gymnosperms for Bot. Calif^a as follows —

CI. Gnetaceæ.
1. Ephedra

CII. Taxaceæ.
1. Torreya
2. Taxus.

CIII. Coniferæ.
Subordo I. Cupressineæ
*
1. Juniperus.
* *
+
2. Cupressus
3. Chamæcyparis

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Apr 24

4. Thuja.

5. Libocedrus.

Subordo III. Sequoineae

6. Sequoia.

Subordo III. Abietineae.

7. Pinus

=

=

Larix

Young twig

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

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Rec May 24
Ans 25

Botanic Garden, Cambridge, Mass.

May 21st 1879

Dear Dr. Engelmann,

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

When the Quercus copy is ready with 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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Rec'd July 16
Ans July 18

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 14 1879

Dear Dr. Engelmann

I send you this morning galley proofs of the "Quercus" and your MSS. You will see that I have interpolated the usual paragraph respecting 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 measurements of the following pairs 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 mss. will you also give a key to your genus, the most conspicuous characters in brief.

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

Yours very truly

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Botanic Garden, Cambridge, Mass.

Aug. 1st 1879

Dear Dr Engelmann,

I send you proof of the Lonicera with your old MSS. The ordinary character is remodelled to conform with the style of the rest. The "var. Concolorus" rather bothers me as hardly allowable, and I reduced it to "condition" at the venture. Would not some other name be better?

We come at once to the coniferæ, and all is in type but your own contributions. Please send with the returned proof characters of your genera in brief for the synoptical key, & oblige yours truly

Sereno Watson

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Dec. 3rd 1879

Dear Dr. Engelmann

Taxus Floridana

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

Yours very truly

Sereno Watson

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Chas. Jesup 27

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

Feby 24 1880.

Dear Dr. Engelmann,

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

"6 I.S. Isoetes.

I. lacustris. Hab. Bottom of Lakes. Leaves all radical, 2–5 in. long, subulate, fleshy, semicylindrical."

What a pity that we cannot be as easily satisfied now! I would like your duplicate of Braun's paper of 1846 — we have the other.

I have not 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

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Rec April 20
Asa Gray

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Apr. 16 1880.

Dear Dr. Engelmann

Thanks for Cactus notes.

Dr. Gray puts in fragments of Erythraea. He thinks your Cuscuta from Mrs. Austin must be the same that he has put into C. calycoma = 113 of Lemmon. I think it has nothing else from Mrs. Austin of that kind. Yours truly

Sereno Watson

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Rec'd May 19

May 17 '80

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

May 17th 1880.

Dear Dr. Engelmann,

"Address"

received thanks. Your kind ol-
ready sent the description of
flowers of Mam. Branch.

The Argythamnia shrubs in
A. serrulata, Gray (in herb.), and
the Stillingia one of the
two species in second part of
my lily paper — probably S.
linearifolia.

There is one end to the address
book of shrubs pin them all
and come as near to finishing
things as I can.

Dr. Gray will not have much
September so that the inter-
regnum will not be long.

Yours very truly Asa Gray

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Rec'd Sept 12th
Ans'd same day

1880?

Cambridge, Sept. 9

Dear Dr. Engelmann

I send you proof of your corrections, & your own MSS. 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 contorta latifolia, and refer to the Atlas annotations of that work under concolor, where it belongs.

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

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

Please see that the paragraphs under Principles is made right & send you. If you can shorten that last page a trifle ~~a trifle~~ 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 extra stock off of the Quercus, Lonchocarpus, & Abrichimus together, in good shape. How

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
Ellen Watson

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