

St Louis May 15 1875

of W Letterman Esq 6/15/53

Dear Sir

Your plants have been rec^d all right, but send them to my office in town, 201 South 5th St. in future, to avoid trouble & Expense, as the Express Co^y do not bring out things here

1 Veronica persequens

2 Geum vernum

3 Anemone Picheri Nutt (not in Gray)

4 Osmorhiza brevistylis

5 Antennaria plantaginifolia

6 Urtica ludoviciana

7 A. laciniata

8 Cerastium nutans

9 ~~Stem~~ Ellisia nyctelea var. ambigua

10 Chrysophyllum procumbens

11 Euphorbia commutata

12 Draba cuneifolia

13 Silybium ~~caeruleum~~ ^{3, 4 wood} var

14 Prigenon ~~bellidifolium~~

428 noo



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15 *Thermopsis venillana*

A study of this latter species, which
is, I believe very variable - sometimes
with very large leaves, would be interesting;
specimens in flower and in full grown
fruit & leaves would be interesting to me.

There are 2 or 3 other smaller *Artemisia*
sp. in the rocky regions of *Thermopsis*,
which you ought to look for. ^{a few better developed}
dried specimens would
be desirable.

A few good dried specimens - fl & good
fruit of *Euphorbia* are desirable -
Also good fruiting specimens of *Stiffney*
Elm.

Umbelliferous plants, need be collected
in fruit.

Did you find *Ulmus alata* - the
wing-branched Elm on the *Thermopsis*?
I thought I saw it there.

Yours truly

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Gray

You ought to try to find out the names of
plants yourself, one learns a good deal
more in such an attempt.



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St Louis June 30 75

G W Letterman

Dear Sir

Sorry not to have met you
yesterday. Your note warns me
not to come on account of high
water of the Mississippi, while I
sent you a P.C. that I would
be there today. Of course I
better defer, and hope I did not
inconvenience you by my (and
my son's) promise to be there to day.

Your plants are of the usual interest
and gave me a good deal of pleasure.

1 *Dipsacus sylvestris*

19 *Rudhus asper*

24 *Linaria elatine*

25 *Trifolium procumbens*

are introduced plants, of which 24
I had not seen since I left Europe
the others also, with the exception of 19
are uncommon out west, but



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All these plants make their way
west. Many have come here within
twenty years. The others are:

2. *Oethonema sinuata*
 3. *Psoralea Mobrychii* The short one seeded
pod ought to have warned you that it is
no *Desmodium*
 4. *Fragula Carolina*. not seen by me before here
 5. *Coropis palmata*
 6. *Stylosanthes elatior*
 - 7 & 8. *Osmorhiza*. correct
 9. *Leckia minor* a common, but interesting
little plant, evidently perennial, with
decumbent old stems, which may be con-
spicuously rugose more of it
 10. *Hedysarum hispidum*
 11. *Galium virgatum* 12. *G. Conocinnum*
 13. correct 14. *Hedysarum hispidum* ~~var.~~
largest, not *Angelii*, which is a delicate
plant
 15. *M. palay. aristata*
 16. correct 17. *Hypericum sphaerocarpum*
 18. *Hydrangea arborescens*
 19. 20. corr. 21. *Pteris nutans?* (pink?)
Cuscuta?
 22. *Crotalaria sagittalis*
 23. *Oxybaphus nyctagineus* var. *laevigata*
Cuscuta reflexa *Cuscuta dentata*
- Yours truly
G. Engelman



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Missouri Nov 9 1875

Geo Sellowman

6/15/53

Dear Sir

I have carefully examined your two maples
and find abundant difference - I have placed
the characters side by side on the other page
for you to study and to examine on different
trees and in different localities, whether
constant - also add the charact of bark
and size and growth of tree - & wood
Any more Ashory specimens?

It is singular how our eyes are
opened by study and investigation. I
think I would now distinguish any single
fruit of both Maples - while when we
were looking here at them, the difference
appeared slight and difficult to catch.

Please ascertain again the value
of both species for sugar making -
Yours truly

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G Engelmann



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Acer saccharinum

Acer nigrum

Tree

Bark

Petioles slender, ^{usually} longer ~~rather~~ than leaf

stouter, ^{usually} shorter ~~rather~~ than leaf

Leaf larger, thinner, paler

smaller, ~~thinner~~ firmer, darker coloured

sinus between the larger lobes

very narrow and acute

wide and obtuse

3 upper lobes 5 dentate

3 dentate

2 outer lobes 1 dentate

entire

Nut obliquely oblong

oblyobose

wing not much more

about 3 times the

than twice as long as seed

length of seed

narrower and almost parallel

wider and somewhat divaricate

Your poor specimens can be well dictionary
ished as above - but whether the
characters will hold good among
thousands of trees, remains to be
seen



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Engelmann, G. to

6/15/53

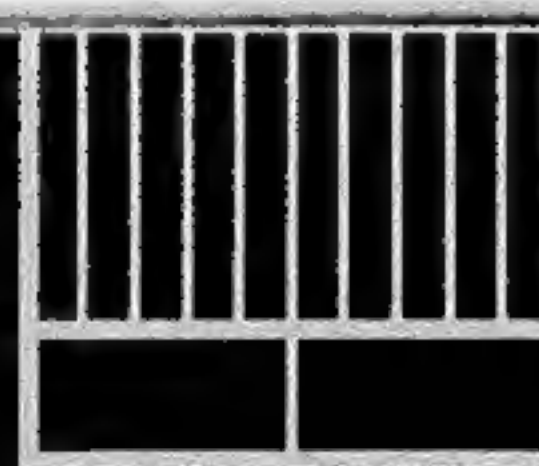
St Louis May 8th 1876.

My dear Mr Letterman

I have spent the whole afternoon in examining the fine lot of *Hibovis*, I got this morning from you, a few others which I gathered yesterday. And the result is rather unsatisfactory. The chambers of the male flower does not seem to be constant or striking.

Your *salosta* has a curious character in the anthers; the two cells are connected only in the lower half and divergent upwards. But I find something approaching to it in *alba*, and it may be an individual peculiarity of that tree. Look again!

I have been promised flowering



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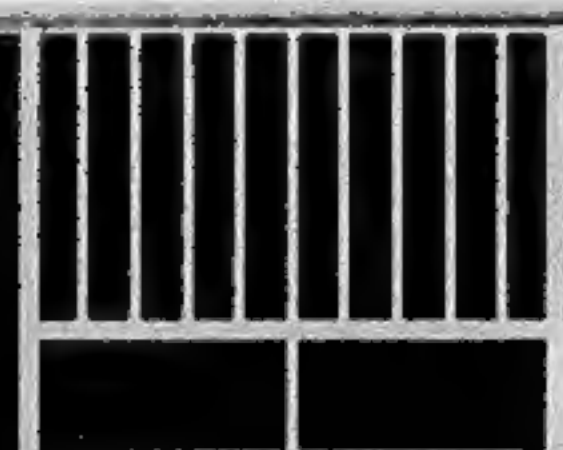
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specimens from up the River,
if bottoms not overflowed!
I hope you know which
is which, of your specimens, and
you can find the same trees
again in summer and in fall,
and are not as unfortunate
as I have been with a
peculiar oak which I discovered
several years ago and took
for a hybrid. Yesterday I went
out 8 miles, to get flowers
of it and found in its place a
new rail road!

Carya porcina seems to be
the latest and tomentosa perhaps
the earliest flowering of our species.
If you know yet the tree that furnished
those red velvet leaves & which you called *C. rubra*,
I wish you would look at it again, I
think it is *coroinea*, in that case
the leaves would be still downy



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while rubra becomes very early
glabrous; like patenter. I do not
recollect to have examined rubra
before flowering, but think it
is now so very downy or woolly.

Examining my Herb. I find
young flowers of rubra, as I stated, with
very light whitish down, which does appear
with the last catkins; so your plant of
2 weeks ago was, as I then suggested,
J. Coarctata.

Very truly yours,

J. Engelman



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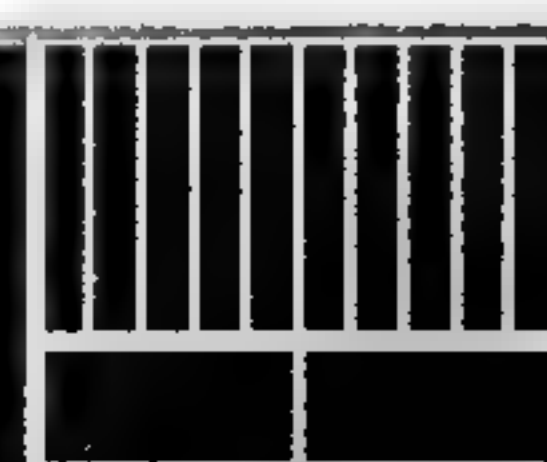
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A friend in Europe wishes for
a few perfectly ripe seeds, about falling
season, of *Erigeron bulbosa*.
I suppose cold March has killed them
off - but if you should happen to meet
with them, you will oblige me by
gathering them.
Yours
J. Engelman



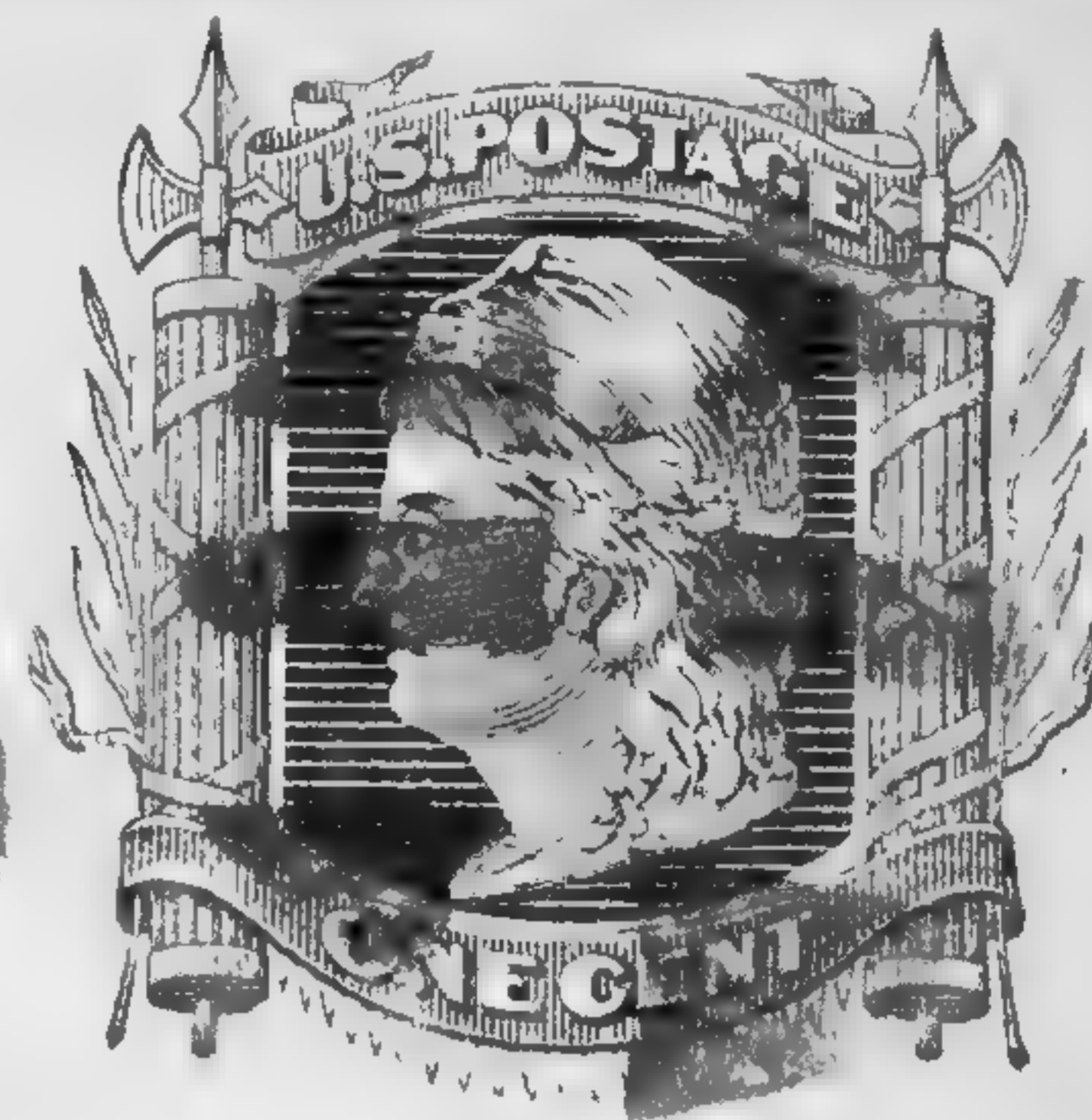
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J W Letterman Esq

Allenton

St Louis Co

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GEO. ENGELMANN, M. D.

3003 Locust Street.

St. Louis, Mo., Saturday 187.

If that is really *F. quadrangulata*, the books are wrong. Among ours only *F. sambucifolia* is classed as having "short-oblong" anthers, all others have linear-oblong macrocarpa anthers. Now is described as hermaphrodite, your *quadrangulata* is hermaphrodite and has short reniform ^{sessile} anthers.

⊙ Both cells running together, horseshoelike!

Watch it! See whether there are ash trees with distinct sexes and on them the anthers differed.

JL

Does the "imm" both colors
after blue? (Stem blue white)?



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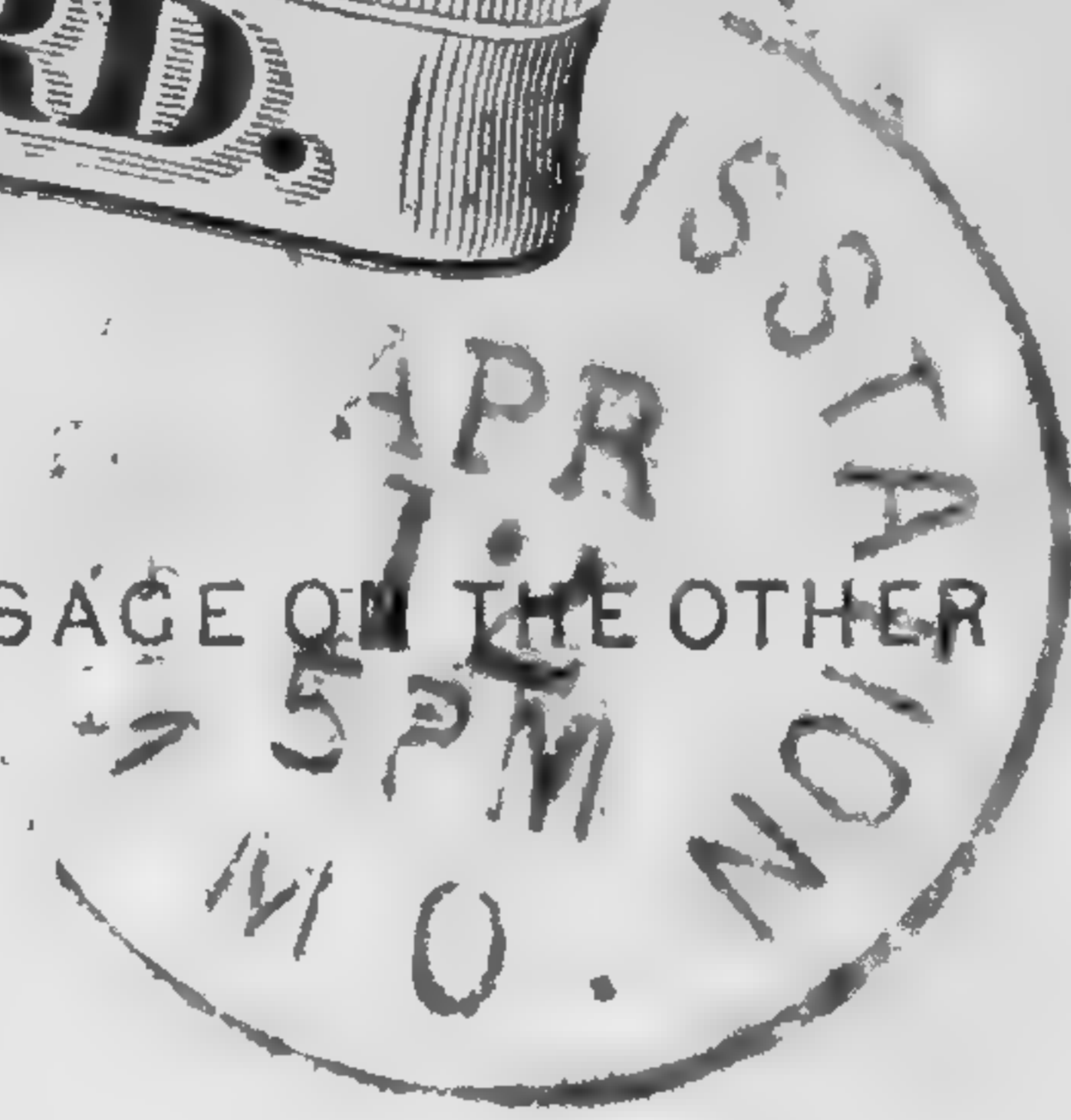
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G. A. Letterman

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GEO. ENGELMANN, M. D.

8003 Locust Street.

St. Louis, Mo., April 17 187

Yes, by all means let us have
Good seed of *U. Amer* & *fulva* and if
possible also *U. alata*.

If, my patients & the weather
permit, I should like to be with
you Saturday - if you have no other
plans; Answer! I will also write
again.

Yours
G. E.



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APR 1 1892
S.P.A.



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8-55
Omaha

G. W. L. Hermann Esq

Attenton

St Louis Co

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GEO. ENGELMANN, M. D.

3003 Locust Street.

St. Louis, Mo., 187

Patients and, I fear,
the weather will prevent
me from looking with you
at *Carya* and *Quercus*!
Another time! But don't
forget *Ulmus* if you please
Yours
G. E.



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J. W. Sellevan Esq

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Alton

St. Louis Co



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I will send fragments of leaves, when dry. May 10

I expected to have a talk with you about your finds, can not keep the specimens a week longer to discuss them.

The interesting parts are 2 sp, I should raise the expectation that we are on the trace of *pygmaea* alba x *porcina* & *porcina* x alba x

1 one of your *porcina* "from the hills" has slightly ciliate leaflets - and with less sharply incurved teeth.

2 one of your alba also "from the hills" has very narrow leaflets, not dull and smooth, below but shining and glandular, like *porcina* ^{intermediate} see would well, if you can to rediscover those ^{intermediate} ones and watch their ^{intermediate} maturity of leaves and of fruit.

Yours G C



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GEO. ENGELMANN, M. D.

5003 Locust Street.

St. Louis, Mo., May 23 1877

I had reexamined the specimens and also taken them for a pubescence alba! The young fruit of that tree are interesting because quite irregular. It will be well to get a lot of them, and to watch the mature fruit in the fall; I will explain when you call again.

A pint of slippery Elm is quite enough and a quart I can ~~use~~. No, thanks for *Erigeron* - My *Gonolobus* is just coming up!

GE



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G. W. Letterman

*Alenton
St. Louis, Mo.*

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St. Louis, Mo., Jan 17 1877

Our poplars are not at all well known and a series of specimens cultivated in the low grounds of the Arboretum would be a benefit to botany. Of course, if possible, male and female plants ought both to be planted.

P. tremuloides and *grandidentata* form together with the European *tremula* and *alba* a distinct section. *Grandidentata* I have from Wisconsin and New England. *tremuloides* in the same locality and is said to occur also through down to North Missouri. It is very abundant in the Rocky Mountains as a low bush in great elevations where it is apt to spring up after

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the burning of the Pine woods
and as a large tree in creek bottoms
where it is the principal food of the
beaver.

P. balsamifera is a northern tree,
common e.g. on the Great Lakes—
on Goat Island of the Niagara, and from
New England to Wisconsin.

P. canadensis of New England is
said to be a form of it.

P. angustifolia of the Rocky
Mountains is closely allied
to it, perhaps only a narrow
leaved variety;— cultivated in
Denver streets as a shade tree.

P. heterophylla I have never
seen, it is northern, and said to
come down to the Ohio River.

The remaining *Canadensis*
monilifera and *angulata* are
all in a mass and must be



stated above.

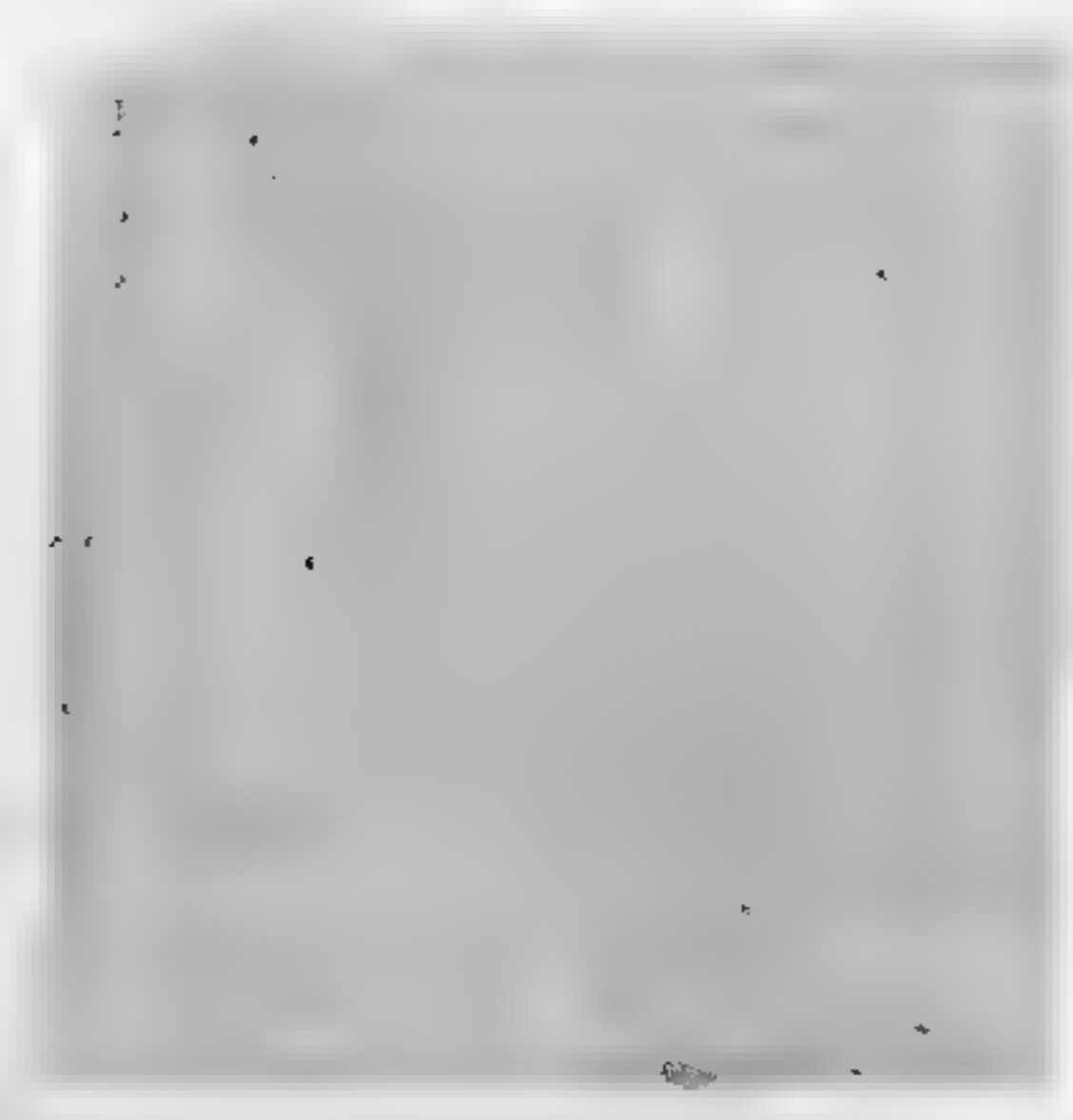
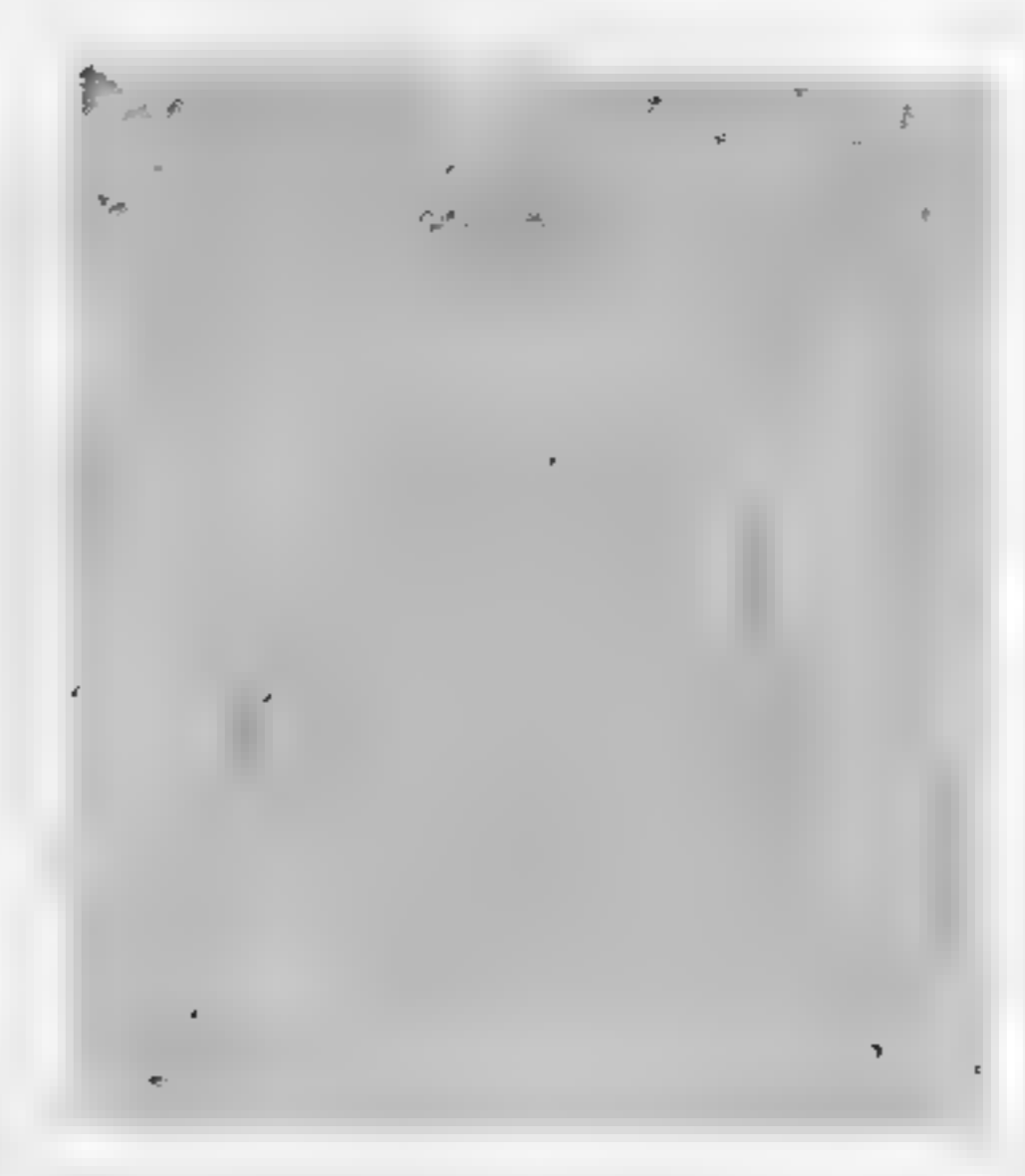
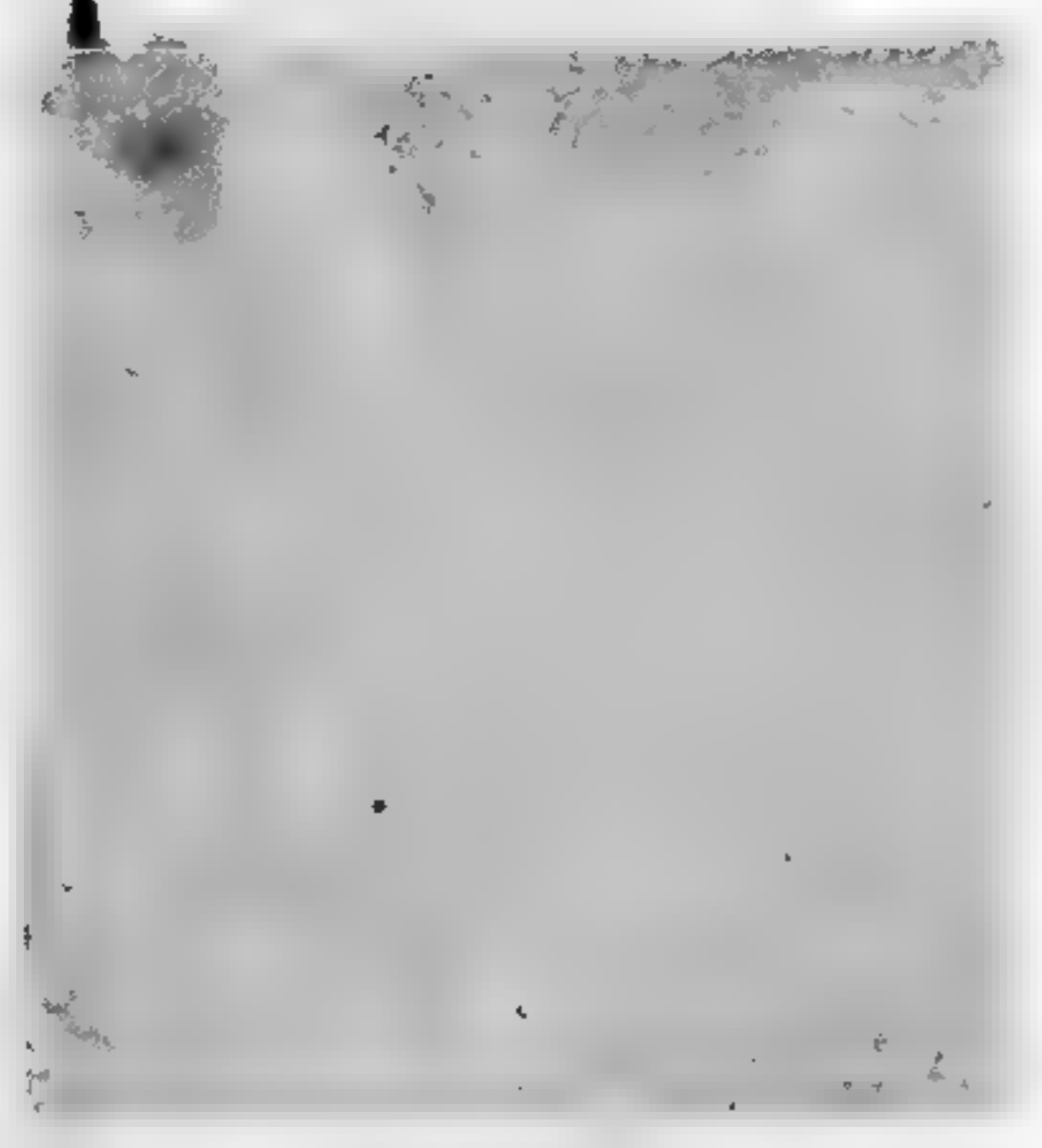
Our common Cottonwood is considered to be *angulata*, and the northern form (along the Lakes, in New England etc) as *Canadensis* (or *monilifera* which seems the same). The characteristic Cottonwood of the upper plains, as far as Denver should grow on the Platte within the city limits, and which is the only tree along the water courses of the plains, is probably also *monilifera*.

Specimens cultivated side by side would be of great interest. Thus we could ascertain the true relations of these different forms, and whether they are distinct or belong to one single widely diffused and varying species.

Respectfully

G. Engelmann





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Engelmann 1879
GEO. ENGELMANN, M. D.

3003 Locust Street.

St. Louis, Mo., March 4 1879

My dear Mr Letterman

Your letter of Feb 9 was duly received, but you know why I could not attend to it - and now George had a relapse - a severe attack of Dysipelas. I think he is gradually improving - at least out of this second danger. -

I understand that the best time to cut trees is late in fall; at that season the sap rises and the wood is more apt to crack. I think the best way would be to keep them sheltered from sun and rain, to avoid the alternates contraction and expansion, to prevent cracking - but I have seen them crack also under such careful treatment. It is probable that a larger piece will not crack as readily as a short section.

I have not seen such a big *Abies* as you describe

Here, we have *Copallina* and *glabra* here, but, I believe, not *typhina*. *Abies* exudes a black gum, or one that turns black, and is very much like the black varnish of Japan which is also produced by *Abies*.

Had no mind to attend to any thing - and then your eastern plants



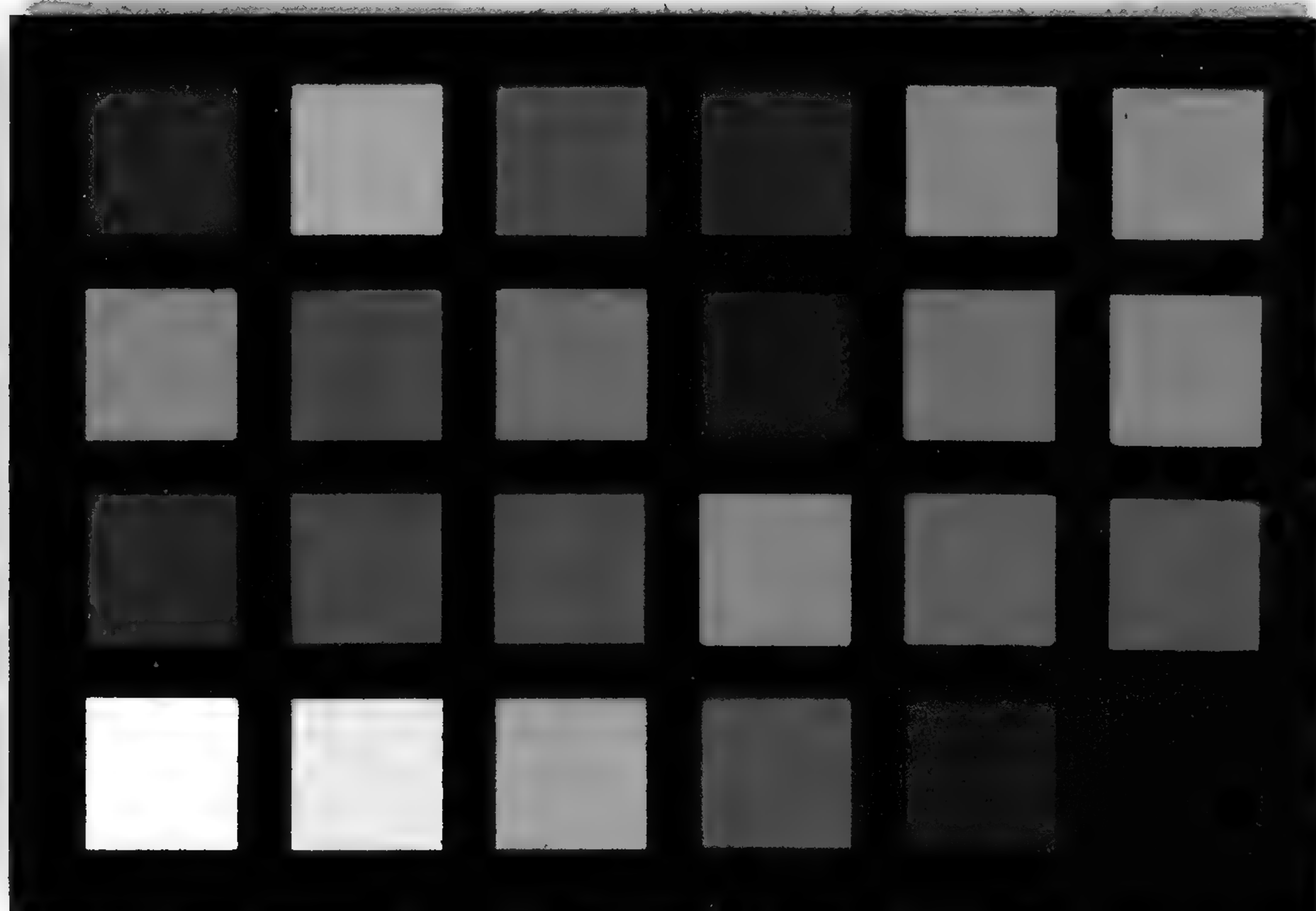
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are still neglected.

Yours truly

J. Engelmann

Have you heard from Funtler? I have written to him lately.

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St. Louis, Mo., Aug 5 1879.

My dear Mr. Lott

Your package has arrived in good condition
 You ought to have numbered the specimens, no
 trouble with the P.O. - You are not to know what
 I refer to!

Your names seem correct except:

Androsace is *Jussiaea decurrens*

Anemone *angustifolia*

Salvia *apurea*

Chrysopsis I suppose you name the glabrous

glabrous *Grindelia* - not enough
 developed - get better, mature specimen

Coreopsis is *tinctoria* or near it!

Pyraeanthus *ispanus*

Mulgedes must be *Pyrothopappus Carolin.*

Cucurbit not enough developed to tell.

Then I find there *Utricularia gracilis*

Panicum

Frasera Carolinensis - fruit (also here)

Erigeron ~~*brevis*~~ *longifolius*.

The ferns are good. Get enough of
 the woodwardii (not uncommon east
 but not here) and of *Cheritanthus*

Alabaster and *vestita*; the former
 especially is rare - but get good
 rooted specimens, not scraps!

The *Cestrum* I collected as a large
 tree in SW Missouri and W. Arkansas.
 Good specimens are desirable - also



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word, if convenient.

You must get the *Quadrifida* - fruit also.
My Texan specimens of *Cheranthus*
to mention are as large as yours.

I leave in a few days

I could not make any
thing of your new *Rubra*
sent it to Gray, name it provisionally
A. Michauxii. - Must get more of it

Yours truly

J. Douglas

was sent to you - thinking
it to be annual.

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GEO. ENGELMANN, M. D.
3003 Locust Street.

St. Louis, Mo., April 14 1881

Thanks for Dr. Vasey's letter. Too early
to work up *Carya*, but we must go on gathering
material. Prof S. never came here; he returns
for N Orleans directly home, and writes me
from Brookline. Address him there.

I know that east, where they ought to know,
they call the small round fruited *porcina* *micro-*
carpa and they may be right - but then, it is
nothing but *porcina*. Yours truly



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