

Recd Aug. 13
Aur Sunday

224 E 10th St. N. York.
Aug. 9th, 1870

Dear Sir,

I enclose a few
specimens of *Lemna polyrrhi-
za* in bloom & a very few
fruit. If you wish more
or in some other form, please
inform me and I will en-
deavour to satisfy you.

Yrs truly

Wm. H. Seydett

Dr. George Engelmann.



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Recd-Old
Aug. 27

N. Y.
224 E. 10th St. Sept. 30

Dear Sir,

You will have noticed perhaps in the "Bulletin" that I have communicated the one seeded *Speradula* to Heyelmaier. I sent him some of the best specimens I had at the time, when I sent some to you, and afterwards upon obtaining a few more ripe sent him a small nut done up in a cork. I find that I have very few left, which I will share with you, as soon as I learn that one of these cork ventures (I also sent to Austin) has reached its destination. Previously to receiving his, Heyelmaier wrote me, how interested he was in it; and ~~is~~ asking for more. With what



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you sent him, and my two
lets, he must have enough
to decide upon it. I am going
to write him this mail. I am
in hopes to have a drawing from
Austin to publish in the next
Bulletin.

Yrs truly

Wm. H. Leggett.

Leggett

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Rec Oct 20
Nov - 21

N. Y.

224 E. 10th St. Oct. 17th, 1870

Dear Sir,

I enclose a little
specimen of *Spirodela polyneiza*,
if such it be, in which
Mr. Austin writes you have
noticed two males; but of con-
cerning which I would like to
hear from you directly, as
Hegelmaier, so far as I have
heard from him, had not
so observed.

I also enclose a *Cuscuta*,
which I found on a *Solidago*
on Staten Island, and which
I can not make to fit your
Chlorocarpa, and yet it does not
seem *Gronovii*. The broadly notched
ped, and hole in the top of ripe
fruit seemed to me noticeable.

In the Spring, I think
I sent you what I sup-



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found was *Isotles riparia*
from the banks of the Hud-
son. If you remember it
will you inform me if I
was right.

Yrs truly
Wm. H. Sargent

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Rec Nov 3
Ans Nov 13

224 E. 10th St. N. Y.

Oct 31st, 1870

Dear Dr.,

Thank you for your note, and determination of my *Cuscuta*. I have a lot of this genus gathered from time to time, and always put by for a more leisure moment, and shall probably have to refer to you again and again. Upon looking over some recently, I find what I believe is *C. reflexa* collected on several occasions at Peekskill N. Y. & Chatham N. Y. and perhaps other places. I enclose specimens, and also of another form which may be *C. Gronovii*: I find these plants rather difficult, and the distinctions rather fine. I never suspected that *C. reflexa* which I sent of having the remains of the corolla above, but thought it



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plainly below. How do you know
in a dried specimen if the scales
are converging, which I presume means
bending inwardly towards the centre
of the corolla? Is your monogram on
the subject obtainable separately?
In the specimen of the supposed *O. Gronovii*
I send I notice ~~two~~ large translucent
dots on the lobes of the Corolla, and in ~~other~~
species another appearance, also in
reference to the proximity or remoteness
of the bases of the styles there seems
a difference, but perhaps it is not
constant.

I enclose also another vial of
Senecio polyanthus, containing I believe
flowers mainly, also some dried *S.*
minor, among which I hope you will
find what you want; if not, I have
abundance in that form; also some
two specimens of *Loxos* gathered perhaps
later than the other; but it was all
about the same size, and not very
abundant; also some fresh funds of
the *Spirodela* as it is growing in a glass



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also some seeds of *Silium super-*
tum, which you may not have
observed and which may interest
you.

I have sent you a ~~copy~~
duplicate of the Bulletin this
month, and shall send a copy
to Hegelmair from whom I have
not yet heard. If you should
discover any more two ouled forms,
~~or could they~~ please inform us,
How would it do to give a black
and white outline of your drawing,
or would you prefer to make a
more careful one? The engraving
we had was paid for by a friend,
and another friend, an amateur
engraver, is willing to cut black
and white illustrations for us, if
not too difficult.

Yrs truly

Dr. Geo. Engelmann.

Wm. H. Seydell



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

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Recd Dec 20
Jan 1871

of Rafinesque

224 E. 10th St. N. Y.

Dec. 17, 1870.

Dear Sir,

"Fascicular" is

decidedly bad, and all owing
to my stupidity, and ~~a~~ some
obscurity in the original manu-
script. I will have it corrected.

I could not speak
definitely about the appearance
of the anthers, whether in the
morning or evening, as the plants
~~when~~ when collected, were placed
in a basin, in a remote part
of the house, where they partly
developed their blossoms, and when
I culled them, as opportunity
offered, without reference to the
time of day, and stored them
away in the same bottles. But
in reference to these anthers in other
species, I have had my attention
directed to them before, and



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never having seen two together
supposed that possibly one might
be extended for purposes of cross
fertilization, (small beetles and others
visit I constantly find on beds of
Lemna) and the other for self
fertilization — I find a note made
in Aug. 1868, in reference to ^{what I supposed} Austin's
var. of *Minor. obscura*, which I had
put in a ~~glass~~ ^{surgeon} in hopes it would
blossom. "It first shows its flower
as a minute bubble, apparently of water,
on examining it, I find a very long
pistil, with a funnel shaped sty-
ma, and two anthers at its base,
which have not yet developed though
I have had it for nearly ten days.
The *L. minor* does not show its
pistil to me in that way, and
one anther is much more elevated
or early than the other." This is an
extract from a note I write to
Dr. Gray, which reached him at



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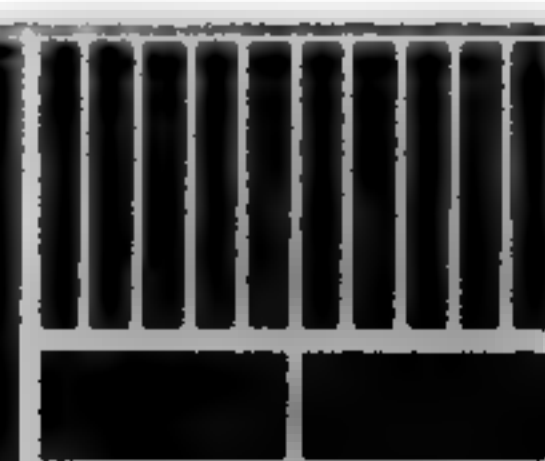


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the moment he was sailing for Europe, and so the subject escaped him. I enclose, what I suppose by the labels is that plant, though I was forced at the time to be absent, and remember I was disappointed in the specimens I meant to preserve. I think I enclosed some to Dr. Gray.

I will enquire about Opuntia, and endeavor to keep you informed.

Betsy only comes in with me at odd times, and I have not the leisure, not to speak of the nature and acquired skill to do what I should like. Dr. Gray calls attention in his manual to the remarkable embryos of *Peltandra*. I have some by me for some weeks, without satisfying myself about it. What is this corn like body? is it the first internode? You will notice that the axils even in the seed, seem formed above it. Then what is that thickened integument at the base? I enclose some seeds. I wish you would look at it.



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Do you know, or have you any influence with any of the trustees of Columbia College in this city, I want to make an effort with them in behalf of Dr. Torrey and Botany.

You did not mention whether the *S. minima* sent was satisfactory. Of course the fresh *Spizella* was meant ^{to show the size}.
Yrs truly

Chas. H. Seydell

P. S. I don't know that I have any more of *S. obscura*, but know where it grows, and hope to get some in blossom another season, though blossoms are rare.



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Rec'd May 15
1871

N. Y. 1871
224 E. 10th St. May 10th

My dear Son,

I am glad to
hear the *Opuntia* arrived
safely, as, owing to some
blunder at the Post Office,
I was afraid it was under-
paid and might not be
forwarded.

Prof. Wood kindly
brought it to the Club meet-
ing, having just dug it up
from the rocks near his
residence in West Farms West-
chester Co. N. Y. where it grew
naturally and freely. It hap-
pened to have on it one of



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the fruit of last year. If
you want other specimens
I will endeavor to procure
them for you from another
locality. I suppose it will
soon be in blossom.

I have a point about
Sesbania minor, which I have
brought before Dr. Gray, but he
is at present overworked and
can't investigate it. I find
that *Sesbania minor* and *Thymis-*
folia have their sepals distinct-
ly three veined. It is well known
that *S. minor* is said to vary
greatly. I have my doubts whether
it is a single species or a
distinct species at all. I find
in my herbarium several plants
which would seem to fall
under *S. minor*, with the sepals



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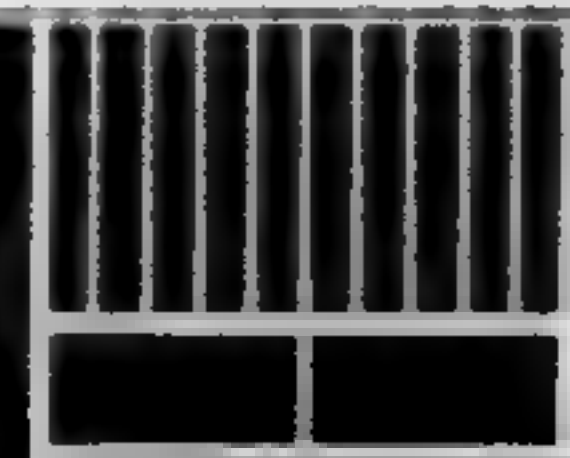
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free from veins, and more sharply
ly keeled than the ordinary
form of *L. minor*; the ^{staminal} ~~inflorance~~,
too, is more ascendant, with
shorter peduncles. I find in
Dr. Turcz's Herbarium a specimen
labeled "var. of *L. minor*" gathered
in Klein's by Dr. Short, which
corresponds to my form. The
leaves of this form are more
linear, and may have been
before Michaux ^{when} describing his
L. tenuifolia. What I would
like is that if you make
any botanical excursions when
Lutea is in fruit, that you
would gather for me the
various forms of *L. minor* that
you may meet.

I have not received your
subscription for 1871

Yours truly
Wm. H. Syrett
Dr. G. Engelmann.





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Rec'd Nov 10
1871

224 E. 10th St. N.Y.

Nov. 6th, 1871

My dear Dr.

Prof. Hegelmair
has sent me the no of the
Bot. Zeitung containing his
observations on *Spiridula*, as
I presume he has to you. The
imperfect knowledge I possess
of the language would prevent
my attempting to give a notice
of it. Would it be asking too
much of you to write a note
for the Bulletin stating the con-
clusions arrived at by Prof. H.?

I found the plant in the
same condition this summer,
but had no opportunity to watch
and gather much of it. I have,
however, some in alcohol, if any
is wanted for further observations.

You were kind enough



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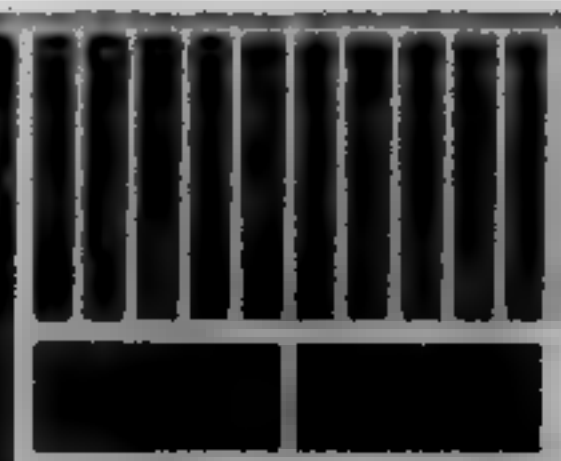
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plants, tells me that he thinks the Asperula
mentioned by the New York editors must have
been come from his garden in Newark, N. J.,
as he had had a number of discussions
with the Sayer men who showed him the
Galium as Asperula, and to convince them he
showed some of the latter which he had grown.

Yr truly

Wm. H. Sayer

Dr. George Engelmann



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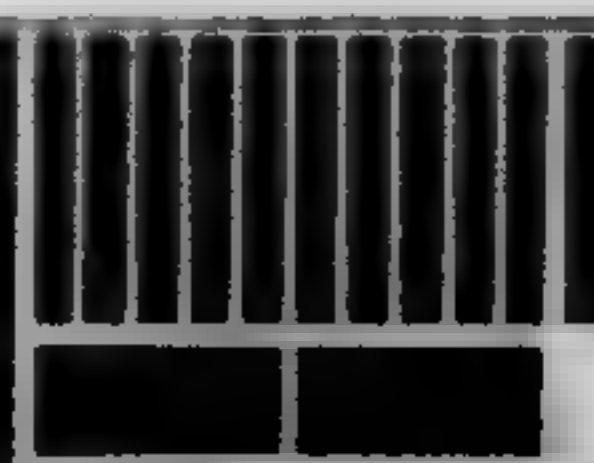
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To offer me the loan of your Le-
cheas. If you will trust them to
me I will take good care of them,
and will return them with as
little delay as possible, of course
paying the expenses. Lechea
major I have seen no varieties
of, it seems a well marked form,
as does *L. Nova Casarea*, Austin,
which seems widely ^{in its range} distributed.

Of *L. Drummondii*, I have only seen
the not very fine specimen in Dr.
Toney's Herb. We have not this
very distinct form. I should like
to possess ~~it~~ a specimen. I particu-
larly wish to study the varieties
known as *L. minor* & *L. thymifolia*.

In Mr. Peck's note on *Opun-
tia* in the Oct. No. I adopted the
name *O. Raf.* in accordance with
your last favor.

Mr. Bower, who has a fond-
ness for cultivating uncommon



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Recd Nov 30th
Am May. Co 1872

N. Y. 214 E. 10th St.

Nov. 27th, 1871

Dear Dr. Engelmann,

Your note enclosing
a notice of Hegelmair's article
etc and also your bundle
of Sebeas have reached me
in safety. Please to accept
my thanks for your kindness.
The notice of Hegelmair's came
a little too late for this month's
Bulletin, but I changed the
arrangement of this matter a
little to quote what you had
written about the Loranthe found
on Abies nigra, as I had al-
ready had that subject in
mind, as you will see in a
day or two, if you have not



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the Hudson, it seems much rarer. Of the other four, one
from Bethlehem Pa. is I believe the true *S. minor*. One from
Aiken S. C. I am uncertain about and Th. C. writes
to Mr. Ravenel for a more mature specimen, for all my
distinctions are founded on the mature flower; a third
is probably a variety of *S. minor* intermediate between it
and *Lithygnophis*, from Nale, Wisconsin; and the last is too
young to make out possibly *S. minor*. My specimens from
you I believe are all the species passing for *S. minor*, var.
— The oak and *Sagittaria* are welcome.

Yrs truly

Wm. W. Sayre

Dr. Geo. Engelmann.

I thank to keep the specimens a while for more
absolute study.



already received a communication on the subject. I had the plant but knew not what to make of it. It is singular that it has not been noticed before. Miss Millington, the lady who sent it to me, and whom I recommended to write to you, thinks she has noticed a similar appearance on *Abies balsamea*.

The packet of *Leskeas* contains ~~some~~ ^{eleven} papers, exclusive of the specimens which you have marked for myself, and for which, especially the *L. Drummondii* I am grateful. Of these ~~nine~~ eleven, six seem to be Torr & Gray's *L. minor*, var. β as it seems to be generally considered, but which judging from the description I should rather suppose to be var. γ , Michaux's *L. tenuifolia*. At all events, I think it a distinct and well marked species, and widely diffused. A seventh from Dr. Short, Ky. with his interrogation "what species?" is also quite distinct and marked by the strongly divergent, not appressed ~~round~~ ^{flattened} flowers; this species is found on theeward and up



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There is a *Sebera* from Cuba, which I
am uncertain about — but I want in
general better specimens of fruit, flower &
first leaves.

Yours truly, 224 E. 10th St. N. Y.

W. H. Syrett.

May 20th, 1872

Dear Dr. Engelmann,

Rec^d May 22^d
as Jan 27

Your censure of my
hastiness in publishing *Austro Mar-*
silia is approved, and I will
endeavour to profit by it. Mr.
Bell I suppose knew ~~what~~
M. quadrifolia, as he is the "acute
Swiss naturalist" to whom Dr. Gray
alludes as having detected the plant
in Fresh Pond Cambridge, where it had
been introduced. I do not, ^{myself} know much
about the distinctions of *Marsilea*,
and finding in ~~Hortus~~ some of the
S. W. collections plants with that
name, had no idea ~~that~~ that it
had already been found in the S. W.

I enclose a page of the Addenda
to Words' *Hortus* a new edition of which
was published I believe in January.



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for which the Prof was anxious
to have the latest additions, and
as you see has been over hasty.
As no description, other than this has
been published, perhaps it would
not be amiss for you to write one
for the Bulletin, with your name
a. minimum. I have hopes that
the Bulletin will prove to be the
nucleus of a Botanical Journal
for the U.S. & cover every thing
that aids to this end.

I applied to Prof. Thurber
for Lawson's Pinetum, and find
that the work belongs to Jonah
Hooper, Westchester, Pa., whom the
Thurber says you know, and adds
that Hooper sails for Europe
in June and that you may as
well have the work in his ab-
sence. I acknowledge the receipt of
\$1.00 for 1872.

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I have quite a collection
of Seibers, but owing to my
work as a teacher having been
increased since the beginning of
the year, have not been able
to do any thing for some months.
I received from you a South Cow-
line form, & on that I sent some
bits of the same with more mature
fruits from Rarocul, and expect
from him this season good speci-
mens. There is also a form which
I think occurs in your country
from the N.W. i.e. Illinois & Wiscon-
sin, remarkable chiefly for the
stout branches & light foliage,
of which I have very good speci-
mens from Vasey. The root leaves,
however, are seldom found with
the specimens, and they seem



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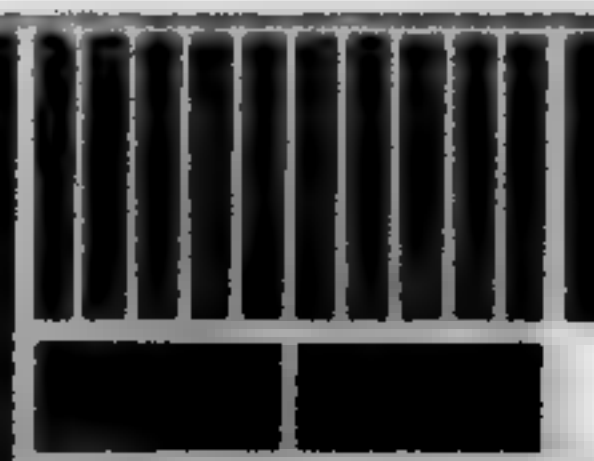
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to furnish an important distinction.
An extraordinary ~~becha~~ is one
from Florida, of which I have
only seen an imperfect specimen
in Gray's collection. It was gath-
ered by Shuttleworth near Tampa
Bay and ~~is~~ labelled, *S. divaricata*
Shutt. It is remarkable for the
numerous stamens. I think there
will have to be distinguished either
as species or varieties.

1. *S. major*.
2. *S. thymifolia*, with varieties perhaps.
3. *S. Nova Caesarea*, a distinct form
4. *S. divaricata*, Shuttle.
5. *S. minor*, Lam.
6. *S. thurifera*, Spach, the smaller
form of what usually passes
for *minor*
7. *S.* (*divergens*), so call it for sake of
distinction, remarkable for
its diverging pedicels.
8. *S.* (say, *traps*) the S.C. form with
the apex of the capsule some-
what 3 lobed.
9. *S.* (*flavescens* or *stricta*) the N.W. form.
red. 1st base



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Rec July 6¹⁴

Aug - 29

224, E. 10th St. N. Y.

July 3d, 1872.

My dear Dr. Engelmann.

Yours of June 27th

is received and seems to require an answer at once, in reference to your envoys from St. Domingo. I shall probably be absent from the city for some weeks during the summer, but my friend Dr. H. M. Smith, a Homoeopathic Pharmaceut, at 107 4th Avenue, will receive and forward whatever may be sent for you, provided they only need to be despatched and do not require any attention.



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the time, and do not exactly know what Dr. Gray
means by his remarks; I thought perhaps it was
rather to suggest that a description was needed.
I shall be glad to receive any notes on this subject.
Marsden's quadruplex was introduced into British India,
from the original locality of Dr. Allen, Sitahpore Lake
or Bantam Pond, Ch. as you will see in No. 1 of Bull.
enclosed. — By the way I have in Jones' and
also in Gray's specimens of Lechea, one brought by Wright
from Bula. If your friend in St. Domingo should
have any Lechea or Solidago specimens, I would
esteem it a great favor to have specimens.

Yrs truly,
Wm. H. Dejeux
I find my friend on following trees

in a botanical way. I have
no doubt also that Mr. Le-
Roy at Dr. Torrey's Herbarium
will be there all summer,
and would attend to them,
but, merely for despatch, I
think Dr. Smith's as good a
place, or even better, being more
in the business part of the town.

Thanks for the notes on Yucca.
There is a fine plant of *Agave
Americana* on exhibition in the
city, now in full bud, but prob-
ably it will be some weeks be-
fore it is in and out of flower.
Can we do any thing for you
in reference to that. — I have
not Peck's notice of *Ascentotheca*
at hand, having sent it to Thur-
ber, but did not when I read
it suppose that it contained
any technical description of *Ascen-*



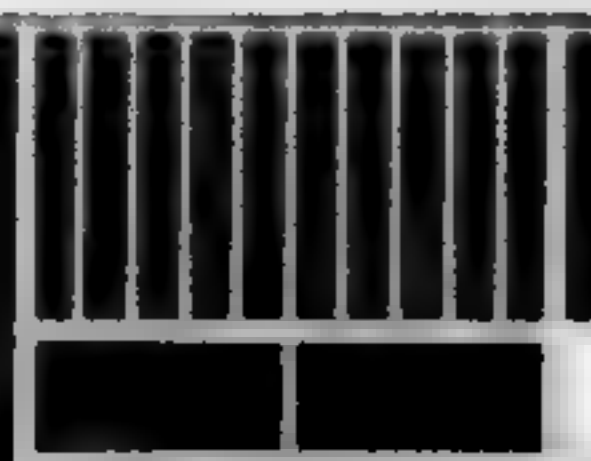
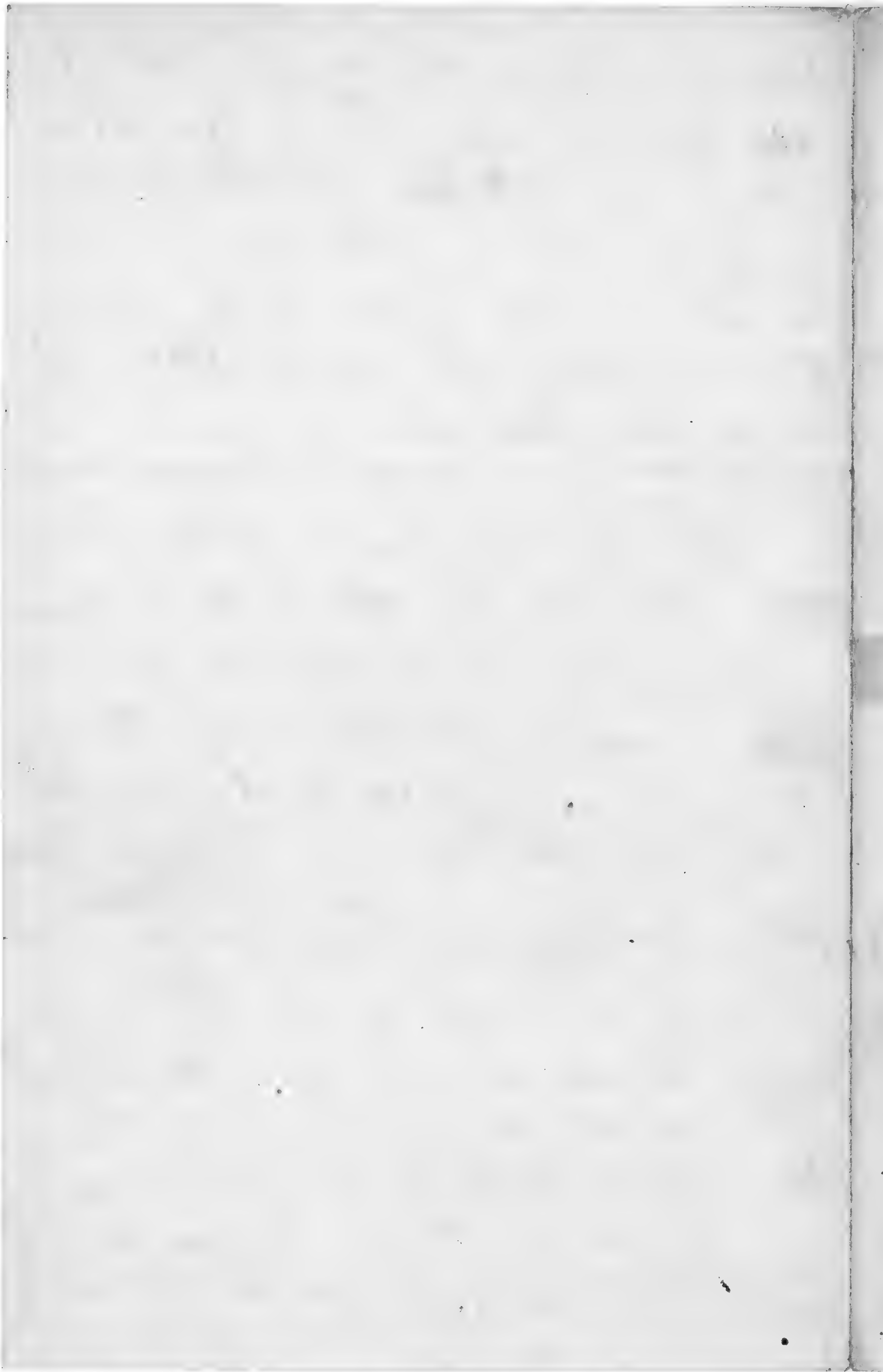
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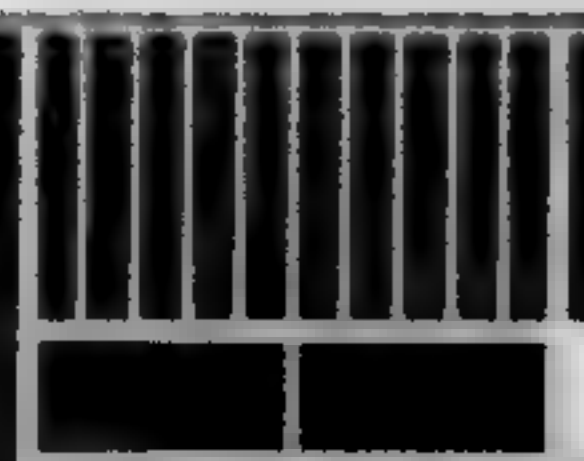
Rio Nov 14
San July 12 1873

N. Y.

224, E. 10th St. New York, 10th, 72

Dear Dr. Engelmann,

Dr. J. W. Barstow writes me that he has "examined all that remains of the capsules of *Yucca filamentosa*, L., and finds some of them perforated, though by no means all." He says "I have never observed this before, but will watch it carefully next year. I enclose herewith one of the perfect capsules and one of the perforated, also a leaf as requested by Dr. E. I now fear I was too hasty in doubting the visits of the moth, but in regard to the fertility of the seeds I must remain firm" — Of course the seeds are thus fertilized. I send



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you his parcel as I received it.

Did you ever get from
Mr. Hull some capsules of
Agave?

Yes truly

Wm. H. Seydett

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Rec Jan 17
Am - 18 P.C.

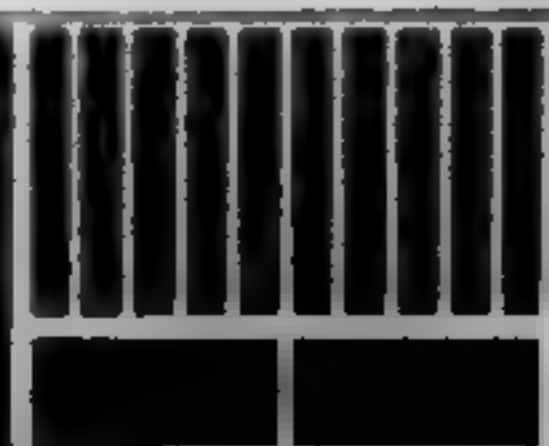
224, E. 10th St. N. Y.

Jan. 15th, 1877.

Dear Dr. Engelmann,

I have fallen sadly behind hand in my correspondence. I intended to write you long ago about my Sericea progress, or rather non progress, but can only cry pecuni.

Did I acknowledge the receipt of your subscription and send the Bulletin for September and the Botanical Directory for 1876. We issue no Supplement this year, but hope to get out a more complete Directory next year. I think I must have sent them, but as I had it on my mind to write you at once



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may possibly have neglected
it. I have been so busy this
past year in trying to make
both ends meet that I have
had little time for Botany;
and fear I shall not finish
my *Serbus* this winter.

The specimen you sent me
from Mr. Ravenel put me on
the track of an apparently
undescribed species, ~~which~~ which
on account of its spreading branches
and habits. I proposed to call
S. patula, I have it from Florida
and South Carolina. It has the
smallest capsules of any species.
I find *S. tenuifolia* and *S. racemosa*
of Mex. to be quite
distinct species. The *S. tenuifolia*
grows with you, and indeed



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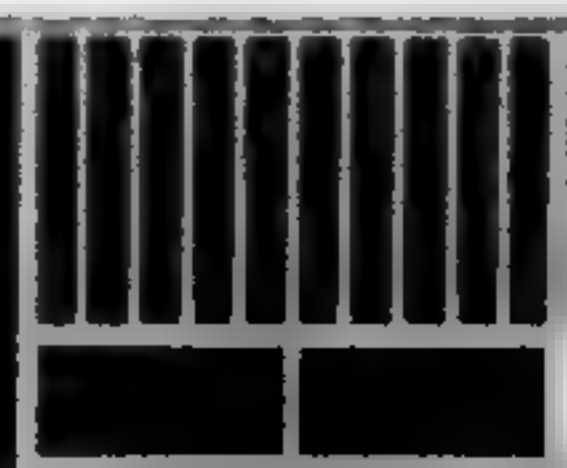
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Seems to be the most widely
distributed, from Texas & Missouri -
Ill to Maine & Florida, I should
like to learn how far west
Species of *Teschea* grow, as I
have none I think farther west
than those you sent me from
Missouri. I judge that *S. rose-*
maecornis is also pretty widely
distributed, but am not so
well provided with good speci-
mens. In Florida near Tampa
Bay Ruygel found a species,
with rather short oval leaves & many
stemmed flowers which Shuttle-
worth in ~~his~~ label named *S.*
divaricata. There is a specimen
in Dr. Gray's herbarium and
in the Jardin des Plantes, but Dr.
Hervey & Dr. Canadelle do not
know it. Have you it? I have
not been able to get a speci-
men for myself, and with the



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exception of some bits from
M. De Caisne, Dr. Gray's specimen
was all I had to study. But
when I can get time to write
them up, I will send you a
set of such as I have, with
fuller notes.

Have you looked at the
different pollen in the upper
and lower, anthers of *Pontederia*.
It is a curious matter.

I see that the *Botanische*
Gazette is prominent notes
from you. May I hope that
you will be impartial in
the distribution of your favors
and give us a share.

Yrs truly,

Wm. H. Lyall



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Rec Jan 16th
am by AC

54, E. 81st St., N.Y.

Jan. 14th, 1928.

My dear Dr. Engelman,

I fear you must
think me ungrateful for not
before acknowledging your kind-
ness in sending me your very
instructive papers on oaks,

Junipers, and Agave Shawii.

I had hoped to have acknowl-
edged them in the Bulletin before
this, but the long papers of my

correspondents have left me
little room, and I did not like

merely to give their names. I

hope they will be for sale at

the Naturalist's agency, for ~~least~~

they must be indispensable to any

one who wishes to understand
his specimens.

I am busy on the Botani-
cal Directory, but get little on



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no information from Missouri,
To the 10 names in the old directory,
I have added Mr. Egbert of St. Louis
and Sr. Hammer of Springfield,
are the ten still there, and
are there no new names?

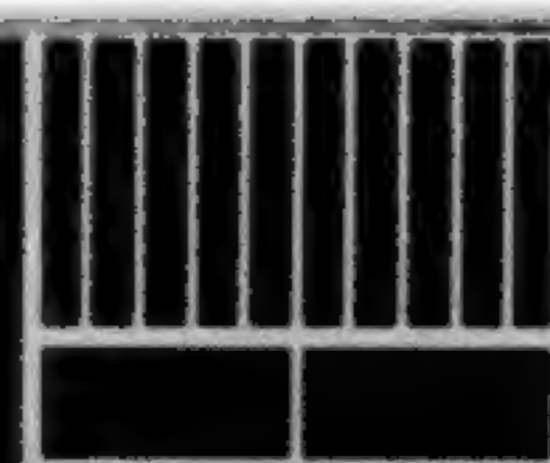
I looked up the references
you made to the irritability
of the stamens of Opuntia, but
found only the barest mention.

I dare say you are familiar
with the phenomenon, and per-
haps in some of your writings
which I have not seen, have
spoken more fully of it. Mr. Britton's
experience was new to me, and
I suppose to most of my readers.

I had written a note giving the refer-
ences you made for the Dec. Bulletin,
but it was crowded out.

I should be very sorry indeed to
think that the tone of the Bulletin
disinclined you to use it as a me-
dium for your notes. You truly,
Wm. H. Sargent.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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Rec Febr 20th
Ans G A C

54, E. 81. St., N. Y.
Feb. 17th, 1878.

My dear Dr. Engelmann,

I have to thank you again for your kind remembrance of me in your notes on Abies, and in reply to my interrogatories for Secretary. I find in the list an elephant on my hands. The names of those more or less interested are printed, but the notes on Sibiran's &c. are not yet put together, partly because my daily duties about occupy me, and partly I suspect, because I do not know exactly what to make of it.

I have read over again your Quercus notes with great interest. They are very suggestive



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Did you hear that someone
had found in New York a
chestnut tree that produced
nuts without a burr. I have never
seen any of the nuts, but
two or three years ago the sub-
ject was talked about in
the Club, and cuttings of the
tree procured, or said to be pro-
cured, for several cultivators.

I wanted very much to
give the ~~sub~~ purport of the
tree papers in the February
Bulletin, but finding more than
enough other matter in hand
I have again put it off.

Yrs truly,

Wm. H. Sargent

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