

11 No 608 Fendler is in full flower with me. It is a Salvia apparently belonging to Microsphaeridaceae. but Corolla rather too large for it. It is annual! Are there any other annual Salvias? — *Connivaria linearis* portoricensis deflexa L. S. smallish corolla very small, rudimentary teeth — superior filamentary style truncate, rounded, glandular (is there any stigmata surface on the upper lobe?) the lower lobe lays right between the anthers, and the pollen adheres to it. — Upper lobe of corolla emarginate lower 3 lobed with lobe globed.

— No 606 appears to belong here too but I have not examined the stigma — I believe I have seen this last also in Fremont's collection. — The calyx of 602 is immediately after flowering literally compressed & closed ^{on ripe} but opens again wide to let the ripe seeds drop out. — I am collecting seeds.

Another blue Androcerus & flower. The flower but flower very elegant, 3 upper lobes smaller, two lower ones, larger  lowest forming the largest, blue anthers, both with yellow anthers, anthers unconnected.

Why does Endlicher separate Androcerus? The dry dehiscent capsule should be sufficient to separate it. — I have just compared Fendler's plant 673 and find it entirely distinct, — leaves less compound, flowers much smaller — Lindheimer's plant has very much compound leaves very small leaflets. — But I can not find a dry specimen of Lindheimer's, probably he has only sent the seeds, — I find a notice on the paper, which contained the seeds: "Blue Androcerus with fine granitic soil on the Lijano. — So we have 3 Androcerus with dry spinous capsules, opening regularly with 5 lobes."

I have examined Fendler's Pines, and find that my name *O. brachyptera* is wrong and must be altered; cones obtained from Fendler which were in a better state than those examined before showed the seeds to have large wings — but I believe I have told you that before. — Have I not requested you also to send me specimens of all the eastern Pines and their cones? I should like much to get them, — Fendler has got the other day one of his Boxes containing dead Caoti and a few cones of Pines and wood. The former were especially interesting on account of the specimen of "*Ephinoocerus Fendleri*" which I had not seen

before — all the others I had already obtained from Dr. W. — So I do not want a copy of Fendler's notes on this plant — I have had a long letter from Bruns later, he wrote not acknowledging the genus *Chloranthus*, but make it the first synonym of *Cornus*. — But to return to Bruns. — Fendler's *Balanites* #28 must be a new species — the leaves as well as cones differ from *P. balanites* — #29 is also new, cones with exserted stamens. Bracts #23 is perhaps *Balanites* — no cones seen. — #30 *P. edulis*, I have a young tree growing from seed. — #31 *Balanites* *sympetala* (formerly) #32 *P. maxima* — I could find any difference between both *Balanites* — Do you put one?

Tetraclia corymbosa is beautifully - bloomed. Leaves 2-3 in. long — flowers 15 mm. in diameter — but sepals nearly abs. deciduous. — The name *T. major* would be better. among the other minor differences from the common plant which I have also in cultivation it should be mentioned that the style is much exserted over the numerous staminal way and somewhat decurved.

The seeds of *Tetraclia* examined by me are more like those from #12 & your *Grewia* embryo #13 the length of the seed — are these with small embryo fertile? — but the shape of our seeds and position of embryo is a little different from your drawing — the shape however is variable the integuments are thicker membranaceous and the embryo always more on one side, opposite the hilum.



In one of the pots, where I cultivate a *Cordia* from *Cordia mitchellii* a little plant with the appearance of an *Arenaria* came up — I find it to be a very pretty species of *Drymocallis*, not described — See Brda — with cream leaves.

The *Ophioglossa* (#22) from with today I have no collection it must be different from the larger, much more to mention. O. sp. but Fendler's Specimens appear to be intermediate. I can as far as find no striking characters to distinguish them. But what I have found most remarkable is, that there can not be the least doubt, that the lobes of the corolla (staminal tube) alternate with the anthers!! and the calyx lobes. Now is it a *Corolla* or a tube formed by the filaments? — Is any thing of the kind found in other *Annonaceae*? — I thought years

ago I had observed the same thing in the dried spec. of *C. florid* but as the specimen was dry & the flowers minute I concluded that I was mistaken.

Lowell's set being the first and richest contains all those plants where there were any duplicates besides ours, so you can find in it most of those plants, where there is any doubt. *Stephanthera* #38 & 39 (Fendler) #23 according to my arrangement #39 was one spec. in fruit, without leaves. stem smooth, bark rough, hisp. I broke off a branch for you. #38 is undoubtedly the same plant, but with flowers & leaves. it must be contained in your #2 Lowell's sets. base of stem and lower leaves beset with simple or 3 parted hairs — Leaves larger toward base a little wider. — *Hura* *lignostachys*, but different, as I think — I include a flower of 28 in this letter. *Dolichium* 13 Fendler, #1 in my arrangement is probably Hathing but *D. agaveum*, more pointed, spike long, crowded, flowers pale, greenish blue. You must have a specimen and also Mr. Lowell, however #11 and you under 13. — I agree with #10. from the frontier was only collected one specimen and not distributed — It is the common form with bright blue flowers etc — Fendler retained the only specimen collected.

The red ink numbers have been used by Fendler in the distribution of his plants as far as they go viz. to *Vernonia* 295 and so far you need not refer to Fendler's original numbers. — but from these Fendler's old numbers have been used on the labels and you will have to include them in brackets with those of your arrangement. *Gorundia cordifolia* is a beautiful species.

I am packing Wistaria & Grind. Composite for you — You keep such duplicates as you wish where there are any — the others please return when convenient. — Wistaria labels are not very clear and partly German. I have translated what was necessary, especially color of flower — but

not, when that was easily recognized, as yellow in
Compositae &c. —

I have just received a parcel from Germany, among them
100 plants from Texas, from Rusk County (upper waters of
the Sabine, north of Nacogdoches) which will be interesting
to you partly on account of geographical distribution, partly
and partly to see what they do with our species there
sometimes. — I send them along for you to look
at them and perhaps publish a little note on them.
Is Shultz's new Aster not a *Dylopappus*? — I believe
the plants have been named by Prof Sonder of Carlsruhe
— I have also received his Monogr. of Elatine with
plates, his does not entirely agree with your *E. americana*
in *Gen. americ.* —

I send you a copy of the Delby Gard Catalogue
(I have duplicates on account of description of
one of Lindheimer's new *Solidaginis*, the same which
I had named *S. pyronostachya*; Bischoff publishes
it under the name of *S. trichostyla*. — In the same
Catalogue he publishes a *Vernonia eminens* raised from
seeds from here. One of the hundred varieties of
our *Vernonia* — I really don't know whether
macrorhiza novboroviensis, *altissima*, *foliolata*, *Baldwinii*
are not all one and the same; and I have
even my doubts about *V. arkansana*.

I send along the specimens received off Bischoff
as also a *Hemileum* which he pretends I have sent
him the seeds from Illinois — but I don't recollect
ever to have met with a *Hemileum* in the U States.
I may possibly have found the seeds near Beardstown
Illin where H. grows and where I was in Sept¹⁸³⁴
Look at the specimen and see whether you know
any thing about it. — You will oblige me by
returning all those whenever convenient. —

I send also along a few drawings and notes
on Fishes, to be added to my former collection
which must be in Prof Storer's hands — I have never

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heard from him, except that he sent his Synopsis -
- I have not done any thing about Fisher since.

my dear Doctor

Brown July 26th 1848

I have from time to time penned the foregoing pages just as material offered. Your letters of June 13 & July 13th both reached me in due time. I am glad Fendler plants have all arrived safely. I hope these for England have arrived there before this time. —

I always thought J. Carey was a subscriber, but I can not find any authority, nor as to Oakes — I probably put them on the list because they were subscribers to Lindheimer's plants. — I can not get that copy of your manual for N Orleans. I shall write again there by a friend who goes down in a few days

Lindheimer was detained at New Braunfels till end of June and was then preparing to go to the San Saba or Llano, where — the Indians permitting — he will settle and remain at least next season and then advance with the Pioneers of civilization.

I had begun to work at Casonetee, but think it best to lay that aside again and distribute now Fendler Lindheimer's plants, before I do any thing else — they have been accumulating too long.

At the same time I will study a few of the families of Fendler & Lindheimer plants

Cacti, Cusontae, Pinoe, Asclepiadaceae ^{Aldroviana} — which you of course will have to review. — Tell me, if you conveniently can, whether I have sent you already any full description to be printed with the account of Lindheimer's plants. It is so long since, ^{and} I have kept no memorandum, that I don't recollect

I have sent you some ~~varieties~~^{species} of flowers of Aloes from Texas - but whether a full description I don't know also get descriptions of some of ~~use~~ my new species from here? Echinodors - 2 species to - Cestrum -

I am sorry to give you that trouble. If you don't have all those things, I will write them again, as I have the manuscript still here - and some of the plant descriptions are also imperfect, especially some Cacti to which I have to add or alter. - In second consideration I think it better to write every thing over again.

I have also that Malva (near rotundifolia) of Fendler's in cultivation - it must be M. rotundifolia this but I can not compare Specimens we have here only M. rotundifolia L. with large flowers - this one from South Africa has very small corolla - is my cultivated plant the calyx is not so large as in the wild one - it is a poor specimen. - How should M. rotundifolia come there?

Fendler's (the thin) Boliviensis is in flower with one specimen that have yet the serrated leaves on them! - both Texan species I have also in cultivation but they have no flowers yet, - another large one must be named longiflorum being so different in that respect from the others.

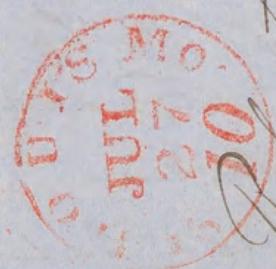
Can you distinguish two species among Fendler's numerous specimens of Malva coronaria? It appears to me as if there was a difference in the fruit and also in the stigmas -

I close the letter today 27th in a hasty thought I have several things to add - shall probably write soon again. - So Mrs. has visited our Diplomasithes with Tropaeolum! - He may be right!

Very truly yours
George Don

Talinum velutinum is a fine flower now 4 or 6 weeks old bears seeds abundantly; I sowed some - it is distinguished by having all parts larger and the style long exserted and declined it is quite ornamental. - Another *Talinum* of Fendler's with oval capsule has come up from seed - I hope to see it in flower next season - You must have dried Specimens of it. 174. 78 Fendler, 71 work. - The shape of the capsule appear to prove it distinct from either; the seed is hardly distinguishable from that of *T. tentacolicum*.

Mr. Troxel for Paris was here recommended by DeCaisne - to hunt for not uncommon plants in our western Prairies. He is gone to the frontier. He appears to be very industrious but must first learn to travel and collect in the west before he can accomplish much - I say



Miss Anna Gray

Cambridge Mass



Engelmann, George. 1848. "Engelmann, George July 26, 1848." *George Engelmann letters to Asa Gray*

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