

My dear Sir

Your parcel of Wright's M. Bean plants only reached me yesterday as Mr Lowell did not go direct to London and I suppose this week's mail is the last that will reach Boston before you leave it. I fear therefore I shall not have time to go through all ~~your~~ ^{the} Leguminosae - the genus Dalea is a very difficult one on account of the great number of badly described published species wholly unknown to me. I have however done the Mimosaes which I here transcribe and between this and Thursday when they letter must be posted shall examine as many of the others as I can. - If you propose any other names to mine do not scruple to change them.

1126 *Protopus odorata* Torr. - My *P. pubescens* Lond. Journ. S. p. 82 is the same species - I am glad Torrey's name has the priority as it is better than mine.
1127 *Protopus glandulosa* Torr. - I do not feel certain that this is a mere variety of the common Algaroba. If it be so the species includes *Mimosa juliflora* Sw. *Protopus dulcis* Kunth and *P. subquadratum* DC. - ~~of these juliflora~~ is the oldest specific name independently of genus, dulcis the oldest and best in the genus *Protopus*.

128 *Desmanthus velutinus* Schleich

129 *Acacia constricta* sp. n. (fammiferae Medibracteatae) subglabra, spinis stipularibus subulatis divariatis rectis v. subrecurvis, pinnis 2-6-jugis, foliolis parvis 6-10-jugis oblongis obtusis crassis nervibus, glandula parva scutelliformi pedunculis medio bracteatis, leguminibus ~~ex~~ anguste linearibus complanatis torulosis glabris valvulis coriaceis. - Ramuli tenues rigidi, novelli vix minutis puberuli (viciiduli?). Folia ramorum sterilia vegetiora, petiolo communis saepe 1-1/2-poll. puberulo, pinnis 2-6-jugis, ramorum florentium glabra petiolo communis raro 1/2 lineas excedente, pinnis plerumque bijugis. Pinnae 2-6 lin. longae, foliola raro lineam excedunt. Pedunculi solitarii v. cum foliis fasciculati 5-9 lin. longum. Caputula parva cum staminibus 1/2 lin. diametro. Bractea alabastro brevior. Flores 5. meri, rari 4. meri. Calyx membranaceus, truncatus, breviter dentatus. Petala calyce triplo longiora, alba connata. Legumen stipitatum, 2-5 poll. longum, 1/2-2 lin. latum, inter semina constrictum, retibus breviter incompositis. - This is the only American Medibracteata species known to me.

130 *Acacia Attensis* var. judging from the foliage - The inflorescence appears to have been however ~~rather shorter~~ much shorter, and it may prove a distinct species when better specimens are compared.

131 *Acacia unguiculata* Schlecht. & A. Trimen

132 } *Acacia Berlandieri* Benth.

133 }
134 - *Acacia rigidula* Benth.

135. *Acacia Wrightii* sp. n. (Siligara, Madagasc.) glabra, inermis, stipulis minutis
orbiculatis, pinnis 1-2-jugis, folioliis 2-6-jugis oblique obtusatis oblongis stem
retortivis, pinnis elongatis basi, floribus breviter pedicellatis, legumine late-linear
plano membranaceo suavisquato glabro. - *Ranunc. alderi*. Folia subsessiliter
petiolis communia 2-6 lin longa, parvialibus 1-5 lin. glandulae parvae convexae.
Petiolae minime ad basin punctatae. Foliola rugulata, 2-3 nerva, ultimae
3-5 lin. longa, 2-3 lin. lata, fere dividuata, infero-cava saepe minus.

Peduncul. 1/2-2 pollinaria, pinn. supra medium interrupte bifloris. Bracteae
minutae. Pedicelli calyc. breviores. Flores cum staminibus fere 5 lin longi,
aliqui staminibus suis vix longiores, pedicellari. Calyx semi-5-fidus
membranaceus, glabr. Petala spatulata, vix basi subconnata, margine
tenuiserratis, ciliolata, calyce duplo longiora. Legumen stipulatum subfalcatum
2-3 poll longum, 2-9 lin latum. This species much resembles the
13. *hamulata* and other *Aporosa* species among the *Alapucanthae* as
well as *A. rigidula* and *amentum* among the *Gemmiferae*, but there
is no vestige of any stony or prickle. The specimen from Gregg's
collection which you believe to be the *A. amentum* is the one which
I also should take for that plant.

136. *Acacia hirta* Nutt.

137. *Acacia retusa* sp. n. subglabra, pinnis 2-5-jugis, folioliis 5-8-jugis
oblique obtusatis v. late-oblongis obtusis retortivis membranaceis venosis
pedunculis capitulis longioribus, legumine subovato mucositate
nata. - *Gemmae et folia novella pube tenui flavo-rufo, ramuli et
folia adulta glabra nuda. Stipulae membranaceae puberulae basi
obliquae et latae, in acumen subulatum 2-3 lin longum densatae. Petioli
breves, communia 3-4 poll longi, parvialibus vix breviores. Glandulae parvae
elevatae, fere stipulatae. Foliola plerumque 2-10 lin longa, 1-6 lin lata
ovoidia fere dimidio minorae, basi valde obliqua, basi vix ciliata
3-5 nervosa et reticulata vixora. Peduncul. floriferi pollinaria, foeminae
1-2 pollinaria. Capitulum fere 1/2 glaucum, lat. Bracteae stipulatae laminae
pellata ovata subulata acuminata supra villosa. Calyx 1 1/2 lin longus,
lobatus, membranaceus, apice breviter 5-dentatus. Petala aequale
oblonga, calyce paulo superantia. Stamina 10, antheris glabris. Legumen
6-9 poll longum, 6 lin latum, rigidius et crispis marginatis, quam
in *A. lauca*. - The general appearance of the foliage of this species
is that of some *Albizzia* allied to *A. mollis*.*

138. *Acacia malacophylla* sp. n. (Siligara, Pennata) scandens? molliter
pubescenti, aculis subrecurvis parvis raris, pinnis 2-5-jugis, glandulae parvae
petiolis 6-10-jugis obliquis obtusatis oblongis obtusis utroque molliter
pubescentibus, capitulis globosis, legumine late-linearibus glabro. - Pubes
mollis densa ramulis et folia undique oblonga vix. Petioli communia
tenuis, 2-3 pollinaria, parvialibus brevioribus. Foliola 5-6 lin longa, obtusa vixora,

*Peduncul. floriferi saepe pollinaria. Legumen 2 poll longum, 2 1/2 lin latum,
falcatum, basi acutum et breviter stipulatum, planum, breviter subo-
vato-cuneum, margine leviter incurvato. - Although the specimen is in
fruit only, the remains of the flowers at the base of the pod leave
no doubt as to the genus and affinities of this plant, although it be
so very different a species in the group to which it belongs.*

139. *Calliandra herbacea* Engelm?

139 b. c. *Calliandra conferta* sp. n. humilis, ramulis petiolisque puberulis
pinnis unijugis, folioliis 8-10-jugis parvis oblique obtusis subovatis multo sericeo
villosi, peduncul. petiolis brevibus longioribus subovatis, floribus parvis
reflexibus petalis, calyce corollae dimidium aequante, legumine ad apicem villosis
valvulis membranaceo-corticis, crasse marginatis - tractibus semper doli, stigma
demulso-reticulato, lineam longa. Petioli communia stipulis fere brevior. Bracteae
semi-pollinariae, folioliis vix 1 lin longi, capite, nullo longis paginae infero-cavae
obtusae, nerva glaberrimae. Peduncul. subpaniculati 2-3 lin longi. Floreae
capitulis 5-9, staminibus neglectis vix 1 lin longi. Calyx breviter 5-dentatus
stamina (ex sicca) pollidus, vix semi-pollinaria. Legumen scissile, basi longae
quadratum, 1 1/2 poll longum, 3 1/2 lin latum. - This species rank with the *Utidea*
marginata near *A. brevipes*, and is readily distinguished by its small stature,
few leaflets and flowers and very hairy leaves. In these respects it is
nearer *C. eriophylla*, but appears never to have more than one pair of
pinnae, and the form and proportions of the flowers are different.

140. *Derrantia* - The specimen is not in a state to enable me to dis-
tinguish it from *D. Depreuxii*, although the pod is so much more rigid.
The glandulae foliorum, angular stem and glaucol bud, besides the
examination of a very young bud, leave no doubt that it is a true *Derrantia*.

141. *Calliandra Californica* Nutt. var? - at least the specimen such
as it is does not enable me to distinguish it from one of the forms
of that plant which I had from Hooker. - but *Calliandra*, require good
specimens to distinguish them well. - The one you sent me from the
Cambridge garden as raised from New Mexican seeds is surely *C.*
Tweedia from S. B. raised a plant now in cultivation and some
mistake must have occurred in the nursery as so often happens.

142. same as 135 (*Acacia Wrightii* sp. n.)

143. *Stimora malacophylla* according to your label where is it
described? It is a good species of the *Habbania* subtribe.

144. *Stimora flexuosa* sp. n. (America Acahuasae por), fruticosa, ramis
petiolisque ferrugineis villosis, aculis parvis validis subrecurvis, pinnis
6-10-jugis, folioliis 2-10-jugis oblongis acutis sericeo-villosis, capitulis oblongis,
floribus pentameris villosis, calyce corollae dimidium aequante, legumine linea
nervifalato bene tumescere inermi. - Stamulorum aculis saepe villosis
raris inflorescentibus, petiolorum ~~saepe~~ pinnis parvis. Stipulae subulatae,

rigidae, villosa, 2-3 lin. longae. Petioli communis 1/2 pollicares, pinnae semi-pollicares, folioli conferta 1/2 lin. longis. Stipulae minutae setaeae. Pedunculi axillares, semipollicares, tomentosi. Capitula junc deplorata, rachis 4-5 lin. longae. Calyx fere lineam longus, membranaceus, breviter 5-dentatus. Stamina 10. Ovarium villispermum. Legumen 1/2-2 pol. longum, 2-3 lin. latum, apice rigide acuminatum, fere pungen, tomento nupercute dense vestitum, valvulae continuis (an demum interdum in articulos recedentibus?) This species appears in some respects to connect the Habbusia Bataueculon with the America Acaanthocarpa, but in my specimens the pod appears to be continuous, and the habit and small leaves are those of the Acaanthocarpa.

145 Mimosa biuncifera Benth

? 146? (There was no label, but I suppose it to have been 146 from being on the same sheet as 145) Mimosa monacantha Benth.

147 Mimosa flegura sp. n., (America Acaanthocarpa) fruticosa, minute pruinosa-puberula, aculeis infratipularibus geminis conicis rectis, pinnae 5-6 p. p. p. minimis oblongis obtusis crasiusculi puberulis, capitulis globosis legumine lineari rectiusculo minute cano-puberulo margine tenui aculeato. - Ramuli rigidi, flegurosi, albedi. Aculei caulini circa 2 lin. longi, petiolares minutissimi. Stipulae minutae, setaeae. Petioli communis vix semipollicares. Pinnae confertae, 2-3 lin. longae. Foliola fere imbricata semilineam longa, rigidula, laetivirentia, utrinque puberula, obtusa v. raris mucronulata. Pedunculi fructiferi 2-3 lin. longi. Legumen pollice paullo longius, vix 2 lin. latum, rectum v. leviter patcatum, crasiusculum aculeis marginalibus irregularibus rectis. - This appears to be nearly allied to the New Mexican species of which you sent me a fragment in a letter some time since, but in my opinion specifically distinct especially in the pod.

148 same as 129 (Acacia contracta sp. n.)

100 is Crotalaria lupulina

101 is quite unknown to me Can it be a Psilicocoria?

97 look like a new Indigofera

Mimosa (Amaria) ~~zygophylla~~, glabra, aculis. sup. p. foliis solitariis ovatis,
pinis foliolisque unijugis, his parvis oblique orbiculatis crumenuculis, pedunculis
folio sublongioribus, capitato globoso, floribus pentameris, legumina glabra
subfalcata acutiuscula marginis nudo v. parva aculeata

to Laguna towards San Juan 50 miles from Saltillo *Westigum*, near
Saltillo *Zucc.*

Allied to *M. Depauperata* but perfectly glabrous the leaflets rather larger
and thicker (from 1 to 1 1/2 lin. long) and never more than one pair on each
pinnae of which also each leaf has but one pair. The pod from one
inch to an inch and a half long is reddish and rather glaucous in the dry
state very smooth ending in a very sharp point. I have only seen the
flowers in a withered state.

Acacia (Vulgaris *Styphora*) ~~zucc.~~ *Covillei*, glabra v. minute puberula, curvis
stipulis minutis obtusis, petiol. glandulis parvis oblongis, pinis 3-5-jugis
foliolis 10-25-jugis oblongo-linearibus valde obliquis obtusis v. acutiusculis,
spici elongatis apiculibus longioribus, floribus reflexibus puberulis, calyci corolla
dimidivium aequante, ovario stipitato glabro, legumine lato linearis glauco mucoso
nudo puberulo valvulis trigynis

European *Coville* (without any No) West Texas Wright 129

Allied to *A. aculeata* but quite distinct and *A. Wrightii* but perfectly
distinct from both. The leaflets are about 3 lines long and scarcely a line broad
the spikes from 2 to 2 1/2 inches long, on a very short peduncle, and the flowers
not at all crowded & often distant from each other. They are including the
stamens, about 2 1/2 lines long, the corolla itself about one line. The pod,
at least 3 inches long and nearly one inch broad, covered with a minut
down and obviously veined w of a much thicker and firmer construction
than that of *A. Wrightii*

The pod of *A. floribunda*

to *Wrightii* and collection includes a specimen of *A. flexicaulis* *Soc.*
with fully formed pods which are about four inches long, nearly
an inch wide, falcate exceedingly thick and convex, almost
woody, and divided between the seeds by a ^{thick} dry pulp *aculeata*
as in *A. farneriana*.

the habit and foliage of *H. stricta* or *demissa*, ^{without black dots on the leaflets,} has the flowers, nearly those of *H. Drummondii* and a pod straight or slightly curved, blunt at the apex, with the upper or ~~retained~~ ^{terminal} seminal suture more or less convex, and usually broadest below the middle. The second group (*S. lanatae*) would include *H. oxycarpa*, *Drummondii* and *caudata* with a variable habit, the leaflets without black dots and the pod ^{usually} ~~usually~~ ^{conspicuously} magnitudinal ⁱⁿ *falcata*. *Stammina* 10. *ovum* *anthropera*. *Ovula* circa 8. [May 6 1850]

110. *Hoffmannseggia demissa*, n. sp., stipulis late ovatis, caule foliisque puberulis glandulosis, pinnis 4-6-jugis cum impari, racemo lato breviter pedunculato calycibus pubescentibus et stipitato-glandulosis, vexillo dense stipitato-glanduloso ungue dilatato, legumine recto v. vix incurvo polypermo. — Calicis basi perenni brevissimi, v. breviter et late ^{ramosus} ~~ramosus~~. Folia in *H. falcata* similia at minora. Peduncululus cum racemo 3-2½ poll. longus, ramis infra medium floriferis, bracteis caducis pedicellis 1-2 lin longis, floriferis patentibus, fructiferis reflexis. Calycis majoris petala paullo minoris quam in *H. falcata*. Ovula circa 12. Legumen 1-1½ poll. longum, vix 3 lin latum.

The above two species with *H. stricta* (Hort. Coll. Trin. Debb. Zacatecas, Coultter) agree with *H. falcata* in their most important characters, the stipules are broadly ovate, membranous, scarcely pointed, the petioles long and slender with usually 3 or 4 but sometimes 5 or 6 pair of pinnae each bearing 6 to 10 pair of obliquely oval oblong blunt ^{blunt} ^{crowded} ~~newly~~ leaflets without any odd one, the common petiole however always in my specimens terminated by an odd pinna usually rather longer than the lateral ones. In all the divisions of the calyx are linear-oblong, rather blunt, equal or the lower one rather shorter and broader, generally persistent but sometimes falling off before the fruit is ripe. The four lower and outer petals ~~born on~~ ^{are} nearly equal and scarcely oblique, obovate and narrowed into long claws which bear copious stipitate glands on their inwardly-turned edges. The upper and inner petal or vexillum is equal in length but very differently shaped, it is concave or folded, the lamina ~~rather~~ smaller than in the others, the claw is expanded in the middle, and the copious stipitate glands are on the back instead of the front, covering the claw and the lower part of the lamina. The stamens straight, nearly equal (the lower ones rather longer) ^{the filaments} more or less furnished with rigid hairs and a few stipitate glands (the latter sometimes wanting).

(*) *H. stricta*, stipulis late ovatis, ramis foliisque puberulis parce glandulosis glaberrimis, pinnis 4-6-jugis cum impari, racemo stricto pedicellis divitis suberectis calycibusque pubescentibus et stipitato-glandulosis, vexillo dense stipitato-glanduloso ungue dilatato, legumine falcato glanduloso. — Habit of *H. demissa* but differs in inflorescence and pod.

117, 120 *Hoffmannseggia densiflora*, n. sp., stipulis lat. ovatis, cauli foliisque pubescentibus glandulosis, pinnis 3-5-jugis cum impari, racemo pedunculato per axillam densa subcapitata calycibus ~~et~~ calycibusque dense pubescentibus et parvis glandulosis, vexillo dense stipitato glanduloso ungue dilatato, legumine.... — Caulis e basi pinnis nunc humilis nunc fere pedalis simplicis v. parce ramosus. Folia et stipulae fl. *falcaria*. Pedunculus folios velius paulo brevior floribus confertis inquilis. *H. falcaria*. Stamina 10 omnia antherifera. Ovula circa 8. [May 6 1850]

119. *Hoffmannseggia densiflora*, n. sp., stipulis lat. ovatis, cauli foliisque pubescentibus glandulosis, pinnis 4-6-jugis cum impari, racemo saepe breviter pedunculato calycibus pubescentibus et stipitato glandulosis, vexillo dense stipitato glanduloso ungue dilatato, legumine recto v. vix incurvo poly spermo. — Caulis e basi pinnis brevissimus, v. breviter et long. ~~ramosus~~ Folia in *H. falcaria* similia at minoria. Pedunculus cum racemo 3-5x poll. longus, pinn. infra medium florum, bractea adnata fere 6-8 celli 1-2 lin. longi, florum patentis, fructiferi reflexi. Calyx majoris petala paulo minor quam in *H. falcaria*. Ovula circa 12. Legumen 1-1/2 poll. longum, vix 3 lin. latum.

The above two species with *H. stricta* (Hort. Coll. Trin. Barb. Zacatecas, Cavities) agree with *H. falcaria* in their most important characters, the stipules are broad ovate, membranous, ^{slender} scarcely pointed, the petals long and slender with usually 3 or 4 but sometimes 5 or 6 pairs of pinnae each bearing 6 to 8 pairs of obliquely oval oblong blunt ^{crisp} nervels, leaflets without any add on, the convex petiole however always in my specimens terminated by an odd pinnae usually rather longer than the lateral ones. In all the divisions of the calyx are linear oblong, rather blunt, equal or the lower one rather shorter and broader, generally persistent but sometimes falling off before the fruit is ripe. The four lower and outer petals ~~are~~ nearly equal and scarcely oblique, obsolete and narrowed into long claws which bear copious stipitate glands on their inwardly turned edges. The upper and inner petal or vexillum is equal in length but very differently shaped, it is concave or folded in the middle, and the copious stipitate glands are on the back instead of the front, covering the claw and the lower part of the lamina. The stamens straight, nearly equal (the lower ones rather longer) more or less furnished with rigid hairs and a few stipitate glands (the latter sometimes wanting).

(*) *H. stricta*, stipulis lat. ovatis, pinnis foliisque pubescentibus parce glandulosis glandulosis pinnis 4-6-jugis cum impari, racemo stricto pedicellis divitis pubescentibus calycibusque pubescentibus et stipitato glandulosis, vexillo dense stipitato glanduloso ungue dilatato, legumine falcato glanduloso. — Habit. of *H. densiflora* but differs in inflorescence and ped.

the five inner filaments always less hairy than the five outer, and all ten (in all the flowers I have examined) atheriferous, the ovary glandular, the style smooth, club-shaped at the apex, with a contracted opening more or less ciliate, but these cilia and the thickening of the apex appear to vary according to the age of the flower. The pod is flat the margins slightly thickened and the apex remains blunt after the falling off of the style. These four species with *H. tripartita* Cav. (Porto Verme, Middleton!) differing in its foliage, and *H. gracilis* Hook. & Arn. (Chile Cumming 300!) and *H. prostrata* Lag. (Kina Cumming n. ~~1089~~) in both of which the petals are scarcely glandular and the claw of the vexillum long and narrow, would form the section of *Hoffmannseggia* proper. The *H. viscosa* Hook. & Arn. (W. Columbia Cumming n. 1175! and Peyta Landichaud!) may be also referred to the section same section although the claws of the petals are shorter and the pod less marginate and more readily dehiscent. The *H. glandulosa* Vag. from South America, which I have not seen but must be very near *H. viscosa* but with a very long glandular raceme (*oxycarpa* unless it is already named in Greggi's collection)

119, *Hoffmannseggia*, *oxycarpa* unless it is already named in Greggi's collection
 stipulis ovato-acutis integris, caulis
 pinnis 3-6-jugis cum impari foliolis oblongis cuneatis glandularis
 calycibus obtusis velis parvis glandularis, petalis elliptico-oblongis subnullis
 brevissime stipitatis, legumine falcato acutissimo stipitato-glanduloso. — Foliage
 nearly that of *H. falcata*, flower of *H. Drummondii*, but with rather
 narrower petals. Pod an inch or more in length and not above 3 lines
 broad

120 same as 117 *Hoffmannseggia densiflora*.

121 *Hoffmannseggia melanocarpa* (S. Schomburgk Linn. Soc. 20 p. 74. d. sub *Pomaria*)
 at least as far as the specimens go which are in fruit only. They perfectly
 agree with Schomburgk's description, but distinct from *H. Janeri*? which would
 be the oldest name

122 same as 119 *Hoffmannseggia (oxycarpa)*

123 *Hoffmannseggia Drummondii* Torr. & G.

124 *Hoffmannseggia caudata*, from your label where described?

If we consider the section *Pomaria* as characterized by the nearly sepale
 petals only differing from each other in the vexillum being rather
 broader all with few or no stipitate glands (where they exist they are
 generally dorsal on the vexillum), we may subdivide it into three or four
 distinct groups. The first (*G. gladiatae*) including *H. gladiata* Herb. Coll. Trin. Dubl.
 (Rimapan Coultter) and *H. platycarpa* Herb. Coll. Trin. Dubl. (Mexico Coultter) ^(a) with

(a) *H. gladiata*, stipulis ovato-acutis, pinnis 3-6-jugis cum impari foliolis oblongis
 cuneatis glandularis, calycibus acutis parvis glandularisque, petalis oblongis
 brevissime stipitatis legumine ^{laucolato} ^{pubescente} falcato hirsuto et parvis glandularis.

(b) *H. platycarpa*, stipulis ovato-acutis, pinnis 3-6-jugis cum impari, foliolis oblongis
 cuneatis glandularis, calycibus acutis hirsutis glandularisque, petalis ovatis vix stipitatis
 legumine late oblongo pubescente et parvis glandularis



Bentham, George. 1850. "Bentham, George May 6, 1850." *George Bentham letters to Asa Gray*

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