Onange M.S. Novi 12tt 55 Trofesser Sray, Dear Sir: Ire and your of the of the duly tam much obliged to you for the information contained - I have confined my exanimations to the plant of W. Jers which I collected, and are I halice I before wrote, have mede at a hat af nearly 150 identical or closely regerementative opicies of which I have specimens of 92. But finding that alwast, if not gutte all differed more or les from their Eastern analogues I virshed to ohis cover the rule by which specific identity was governed I'am aware of the general acrow that where varieties shade into one another gradually they are considered afore spraies of which we have on interesting example in Amelanchier ban adensis with its seven marked varietie -But taking another example from Rosacere, come met see that Spirea Douglafin Hkr. Siffers more from I tomentosa Line. There Sopulifolia B. mollis (S. ribifolia of hutt.) does from the type of the

I judge principally from the characters given in the of h. A. which are there very amalogous in the two examples, of which I have specime how as you use sugles of divergence to expenses The differences, the question may be thus stated; How much divergence in any two openine constitutes a operation distinction? For even those which you call equal obffer considerally in openinens from the two courts. Opusposely relected openes of various diff funces to see how you looked at the matter I am aware that The identity of aprices is now very much a subject of individual opinion, and those are no sules by which allem agree to be guided, but by discussing the only it and getting the apinion of all upon a hunted but similar series of openes we meny arrive in these at some such sules When you have leanse I shall be glad to hear from you on their subject, but knowing your many engagements I am in no hurry for an answer, I hope you will protone it as long

as convenient - I think me may call that Astragalis acrotimos if the name is not preoccupied as I collected it in flower lake in October, Though probably a accound and un usual there of flowing of muderetand your meaning you have united Rammelus glaberremes Aks with the Cymbelisia, but in my catalogue your clamed the former name (plants collected in 1853). here seems to be much confusion about Fraga six Chilense's the other species of seelly found on the coast of W. I, it does not answer to Andalo description of the fruit, which I found there queto as good as that of I verse and The only difference I could perceive was the larger flowers and lates fruit on the sandy beach prieries, repening in the end of July while on the many suterior prairies meas Voncouver. strawlessus were done by I'me 15th I have specimen in flower from various pert of the tiretony which I cannot distinguish by any fixed characters

Their are several other points in which I am in doubt, but it would make this Thoo long to discuss them all here. On companing him opecimens with descrip. Thors while on the west coast, I found many Observancies which I have noted from the to theme, and they might be of use to you, On the Supino, so alundant these had a world of trouble but finally thought & had there musty all decided according to your dearytiens, when behold I find that you name the specimens all that one diffrom from my everelusione. The season is apparently that though there are four as fine very deadedly drahmet when fresh, and entire, the fragments preserved love Their heat characters in drying, and others are used not to be depuded on Hoping to hear Jone you I sencain Very Bespectfully Prof, Assey ? Bours Alloopes Lambridge 3



Cooper, J. G. 1858. "Cooper, James G. Nov. 12, 1858." Asa Gray correspondence

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