Red Moo 5 13 Am 5 Der Director des Dereins zur Beförderung des Gartenbaues in Breußen. Lischbait. Schlesien 5 18 Och 1883 Lasgansforter favor Gu Tyak faba if kingling non unfam Grunde Burnhain profasor With mark nor Fran brunsprik in Europa gefort, tome fork falla if with gufund, Fra gnofailige kakamulfjaft zu farfan, walsfa mir, ælt glûfnutum Linkforher von hartolfilger van fafor miflig knik mud grafsom den Savaffu gavafnu fnin månde. Gupathan tin mir tafar, manning bitten sart, friftlig nim Lu. laforing zu friften, malste ist wind linker mindtif mugforngen

0 1 2 3 4 5 6 7 8 9 10 MISSOURI BOTANICAL GARDEN

fuither.

Jusian berbailan sie Sun with louiferen mærfolgen nimm toggulfra Jwark. forknur finge infiner. for halaskun folge den min. grifina, walfa nimm forthlifan mart fukren, sind guns' Anno farba vij den Stjorefrikt words sin fallenn fin mafor parks in knign La bait na Laginfungan kaffajf tigan mig fack ningen faforen Uhier Engelmanni / Parry Whier pungens (Engelmann) Abies Tarriana (Hortoran, ), van latgtarre bespontant die blevilig Toru glaura ator argentla. At if mir alear, brokg riferen Horleans, noy wift gulingen dia dvai Lainma overt and nin androrgin fallen, fo daßmir unv nväkrigt, mig an din fifte findle gå mentom.

MISSOURI BOTANICA

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Af hafilyn alla Ivni Danimo sin Mainen fynnylarna man harten Jufa, miniga utera foraften un uniga gå der krunafma, da 13 At pungens I at Farriana mins fint, Ab. Engelmanni abour mossinten dansen. hun unud about Bied in frium Manual of the Constera, nin digt af un wiffnuffarstligten. mart, abov für gartunviffe Jwas ku forfh broughten, simm Lumm Ab. Engelmanni, tom if bisfor als panger verly. Parriana kannte a noverifet ah. Engelmanni - was inf davie. kan histom warkmut gannigt, Ab. pangens 3 Farriana fabra bai mir starra vingt farman abstafauta, mafer adar armaigan for Hayfruin Gilga.

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GARDEN

Die tarke ift for var fije dans vær minne mutten falblifan grån kit gå nimer blevilsigen Lasten sief baitan stanton, tin fort so intemper it, min die wan ab. sistehensis (ab hensiesi) auf som Mutnofailu. Lai Ub. Engelmann' ragnynn find die hudele mil egnifer ud lingera den forrigen mint me for an semificia Duobyan An Toma vyalefa if als Tarriona, glanca leafifu find wind starken w blaktrigner als din mosfallaissenassig glattan knotgen for A Engelmanni, im Mubrigun lafth fighnin for graffen thanking knit, bestoutens in falk guadrakiffin Hunni fritt sor hudula wift lang Min sintavafish ming Al. Tarribus glania bisjatet min als finn-bann, no ip din stänsta Lighta,

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walfa if his jaket kname galavat forben, aben 116. Ingelnan. ni als Torphain, mil inf man ifr gufart faben, staft fin in ifor Rivie nimm air varfur. waife flarken Tauwin-full fahre fall. Sprint viffig, le. fandnot in Son faite, walle min frank minde, so kune star Lenium, beni som barragul an fijen. vinta unter fra mir gå las. tra bryimmen, minn græfte Rolla får und fyrirlan. Meter allna Umpusation will if ifa anhamme. tin fufan alfa, fæggnesforter fam, win wiftig at mir fren wift, solla telasfrik uiber lenista By humme gu estangen. Manne tie Dounn marferfine tien mir Sinfallen sin stro knife, En sas sin wir dan Mutarffind E strofullen safiniver undnimme

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zuvarlissignen Sammufundlar dan kriftnag notfailtny, min war jadan Soo La rive pfint frain tum / gal frustrum. Sheehan in Thilaselphia fæt føre sivnika kiftrag. Hollkund Thum wagliffing, win atés Colorado Sama you Al pungeus, der blanspan down, gu mar fylaffan, for winds if gang a i Brown ton Slig sanklar fria, tom son same uborrage alle androne so work an Sosanfach, dals if fufor niforig bein, ife for montone und no waive fin saf møglig, safs sin tavbe fif any ving tamen i outant fortyflangte. Munighnut wind. nån klanor Lain menfo blain Vændinga lingtava, alt min grann. da den faffung stie might så bafa så beler pigna, prifa, if als for gang angelander Cornetten Capatain g. D.

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Dear Sir,

Too late I recently heard from our general secretary Prof. Wittmark of your presence in Europe, otherwise I would not have neglected to seek your personal acquaintanship, which would have been very important and of great interest to me because of my ardent love of conifers. Please therefore permit me to seek instruction in writing, which I would much have preferred to receive verbally.

My work with conifers pursues a double purpose. First, I am seeking to introduce in our Fatherland such trees which would have a value in forestry, and secondly I have the value of beauty in our parks in mind.

In both respects I have been occupied for several years with Abies Engelmanni

(Parry) Abies pungens (Engelmann) and Abies Parriana (Hortoram); of the latter particularly the bluish form glauca or argentea. However, in spite of zealous efforts, I have not been successful in correctly distinguishing between the three trees, so that nothing remains but to turn to the most certain source. I possess all three trees in small specimens of meter height, some of them somewhat larger and some to the assumption that Ab. pungens and Ab. Parriana are one but Ab. Engelmanni different from these.

However, Veitch in his Manual of the Coniferae, a book without scientific value, but highly useful for gardening purposes, mentions a tree Ab. Engelmanni, which up to now I have known as pungens respectively Parriana and does not at all mention Ab. Engelmanni - which up to now I understood to be among them. Ab. pungens and Parriana have stiff, all around prominent, more or less curved needles with sharp, prickly points. The color varies quite a bit, from a dull yellowish green to a bluish color on both sides, which is almost so intensive as that of Ab. sitchensis (Ab. Menziesii) on the underside.

In comparison on Ab. Engelmanni the needles are much softer and lie much closer to the branches, also the buds of the form which I possess as Parriana glauca are much stronger and more leafy than the comparatively smooth buds of A. Engelmanni;

moreover, a great similarity, particularly in an almost square cross-section of the needles, cannot be denied.

Up to now Ab. Parriana glauca has interested me only as an ornamental tree, it is the most beautiful pine which I have become familiar with so far, but Ab.

Engelmanni as forestry tree, because I have heard that in its bark it has a large tannin content. If this is correct, particularly in the height which was mentioned to me, then the tree can play a big role for us, because of the lack of oak bark, under which we are beginning to suffer. Under all circumstances I want to cultivate it.

Therefore you see, honored sir, how important it must be to me, to attain full clarity about both trees. If you can, please provide this for me in the manner in which you can define the difference and place an order with a reliable seed dealer, to send me a pound (clean seed) of each kind. Meehan in Philadelphia already has such an order. If you could provide me seed of Ab. pungens, the bluest form from Colorado, I would be most grateful, because this tree surpasses all others as far as beauty is concerned, so that I am most eager to increase it, and it probably would be possible that the color would also remain constant through propagation by seed. At least a blue tree would deliver more bluish seedlings than a green one. In the hope that I am not burdening you too much, I am,

Your most devoted,

von St. Paul

Corvetten Capitain A. D. (?)

