

nec acutis, supra longe sericeo-pilosis, inflorescentiis fructiferis ad 3 cm. longis a typo recedit.

"Tree of 25-40 ft. Open situations in pine forests on the eastern flank of the Lichiang Range. Lat. 27° 10' N. Alt. 10,000 ft. May 1910." G. Forrest. No. 5546.

Betula Delavayi, Franch., var. **calcicola**, W. W. Sm. Var. nov.

Planta nana, 30-45 cm. alta, ramulis novellis densissime incano-tomentosis: folia 1-2 cm. longa, 1-1.5 cm. lata, ovata vel fere orbicularia vel oblonga, apice rotundata vel obtusa.

"Dwarf shrub of 1-1½ ft. In the crevices of limestone cliffs on the eastern flank of the Lichiang Range. Lat. 27° 20' N. Alt. 11,000-12,000 ft. June 1910." G. Forrest. No. 5835.

I take Delavay's plant to be intermediate between the two varieties. Forrest No. 5546 is a tree; Delavay No. 3725 is a shrub; Forrest No. 5835 is a dwarf shrub. The leaves of the series differ much in size and in shape, but are much alike in consistency, in the arrangement of the lateral veins, and in the silky hairs which are specially prominent on the under side of the veins. The bracts and nutlets are very similar.

Boottia echinata, W. W. Sm. Sp. nov.

Species spathâ tubulosâ echinatâ conspicua.

Rhizoma atque folia ignota. Scapi longissimi, usque ad 100 cm. vel ultra, gracillimi. Spatha ♂ late tubulosa, 4-5 cm. longa, apice irregulariter dentata, dentibus circ. 8, duobus circ. 2 cm. longis, longe acuminatis, plus minusve echinatis, 5-6 multo brevioribus; tubus subangulatus, ut summus scapus sparse echinatus. Flores ♂ in quaque spatha ± 12, exserti, pedicellis circ. 6 cm. longis, nunc glabris, nunc plus minusve dense echinatis. Sepala 3, lineari-lanceolata, 12-18 mm. longa, obtusa, viridia. Petala 3, late elliptica, 15-20 mm. longa, circ. 10 mm. lata, aurantiaco-flava. Stamina 12, subaequalia, circ. 6 mm. longa, filamentis 3-4 mm. longis multo complanatis; stylodia 3 massam oblongam formantia, bifida. Flores ♀ ignoti.

"Floating plant of 3-9 ft. Flowers orange-yellow. Shallow bays on the western shores of Lake Er-hai, Tali Valley. Lat. 25° 40' N. Alt. 6500 ft. Nov. 1910." G. Forrest. No. 7376.

Crepis setigera, Scott. Sp. nov.

Species caule petiolis costis pedunculis densissime purpureo-setosis facile recognoscitur.

Herba setosa 15-18 cm. alta. Rhizoma breviter cylindricum

crassum lignosum, 4-6 cm. longum. Caulis erectus vel suberectus, apice subcernuus, striatus, setis patentibus purpureis dense indutus. Folia fere omnia radicalia 7-10 cm. longa, 2-3 cm. lata, ambitu oblanceolata grosse et irregulariter dentata dentibus indurato-apiculatis, basi cuneata, apice acuta vel acuminata, supra glauco-viridia infra pallidiora, costa utraque facie conspicua setis longis purpureis dense velata, venis supra sparse setosis infra paulo elevatis setosioribus; petiolus 1-3 cm. longus densissime purpureo-setosus; folia caulina pauca 1-3 breviora fere sessilia ceterum radicalibus subsimilia, suprema fere linearia. Capitula 10-15 paniculam congestam formantia, 1-1.5 cm. longa, 0.5-1 cm. lata, pedunculis fusco-purpureo-setosis 0.25-1 cm. longis suffulta; bractee 2-3 mm. longae lineares vel lineari-lanceolatae, dense setosae. Involucri phylla libera, 1 cm. longa, lanceolata, medio longe setosa, viridia, margine paullulo scariosa. Flores flavi paulo involucri phyllis longiores, circ. 1.3-1.4 cm. longi. Achenia 5-5.5 mm. longa, erostrata longitudinaliter costata albido-fusca glaberrima, pappo simplice fusco achenia \pm aequante.

China:—West Szechwan. "Perennial composite; stems red tomentose, flowers yellow; mountain pastures at Tcha-ho. Alt. 2600 m. July 1913." E. E. Maire. Nos. 72, 197 (1914).

Didissandra Agnesiae, G. Forrest.

Species pulchra foliis ovatis dense cinereo-adpresso-strigosis, scapis pilis atratis septatis glanduloso-capitatis indutis, corolla magna circ. 4.5 cm. longa valde ventricosa lobis acutis praedita inter congeneres conspicua.

Herba acaulis. Folia 6 rosulata, petiolo 1-2 cm. longo complanato dense fulvo-hirsuto praedita, 3-4 cm. longa, 1.5-2 cm. lata, ovata apice obtusa vel subobtusa basi sensim in petiolum angustata in dimidio apicali serrata subcoriacea supra dense cinereo-adpresso-strigosa infra dense fulvido-adpresso-strigosa; nervi supra obscuri subtus distincti 3-4-jugi. Scapi 1-2, 10 cm. alti, uniflori pilis atratis septatis glanduloso-capitatis undique densius induti; bractee duae supra medium scapum insertae \pm patentis circ. 5 mm. longae lineares strigosae. Flores pro genere magni (kermesini). Calyx 7-8 mm. longus extus pilosus intus glaber in lobos quinque sublineares vel lineari-lanceolatos acuminatos fere ad basin partitus. Corolla 4.5 cm. longa, medio 2.5 cm. lata (in sicco), ventricosa, extus sparsim pilis atratis septatis glanduloso-capitatis praedita tubo fere 3 cm. longo, ore multum obliquo lobis inaequalibus acutis duobus superioribus \pm 1 cm. longis inferioribus tribus \pm 1.5 cm. longis. Stamina 4 inclusa basi corollae affixa filamentis paulo dilatatis sparse