

## 83957 to 84251—Continued.

No. 18526. Eastern slopes of the Likang Snow Range, Yunnan Province, November, 1929. A tree from 50 to 100 feet high with very small (aciculate) glaucous needles and oblong, slender, drab-colored cones; found at 11,500 feet altitude.

84024. *PICEA* sp. Pinaceae. Spruce.

No. 18489. Eastern slopes of the Likang Snow Range, Yunnan Province, November, 1929. A tree 40 to 50 feet high, with very short dark-green small needles and ovate short cones; found in the forests of Gaba, north of Likang, at 11,000 feet altitude.

84025. *PICEA* sp. Pinaceae. Spruce.

No. 18490. Eastern slopes of the Likang Snow Range, Yunnan Province, November, 1929. A tree 50 to 60 feet high, with needles larger than the preceding (No. 84024) and cones very much larger; found in the forests of Gaba, north of Likang, at 11,000 feet altitude.

84026. *PIERIS* sp. Ericaceae.

Eastern slopes of the Likang Snow Range, Yunnan Province, November, 1929. A handsome shrub, 5 to 8 feet high, with erect branches, elliptical leaves, and spikes of white flowers; found at altitudes between 10,000 and 11,000 feet on dry slopes growing with *Pinus sinensis*.

84027. *PINUS ARMANDI* Franch. Pinaceae. Armand pine.

Likang Snow Range, Yunnan Province, November, 1929. A tall pine 60 to 100 feet high, with trunks often 6 feet in diameter; found growing between 9,000 and 10,000 feet altitude, in moist regions. It is well adapted to San Franciscan, Oregon, and the redwood belt.

84028 to 84047. *PRIMULA* spp. Primulaceae. Primrose.84028. *PRIMULA FORRESTII* Balf. f.

Likang Snow Range, Yunnan Province, November, 1929. A very handsome woody perennial with orange-yellow flowers and leaves having the fragrance of apples; found on dry limestone cliffs at 11,000 feet altitude. The plant is said to live for 100 years.

For previous introduction see No. 59710.

84029. *PRIMULA* sp.

No. 17401. *Drunisregouka*, north of Kulu, in the Ytse Valley, Szechwan Province, September and October, 1929. A small woody *Primula*, related to the group to which *P. forrestii* belongs, but very distinct. The large, deep-orange flowers are single, on short peduncles, and droop; the leaves are smaller and darker green; found at 10,000 feet altitude.

Nos. 84030 to 84038 were collected in southwestern Szechwan Province, west of the Yalung River, in Muli territory, on Mount Siga, northeast of Kulu Monastery, September and October, 1929.

84030. *PRIMULA* sp.

No. 18120. A plant with purple flowers; found in alpine meadows at 14,000 feet altitude.

## 83957 to 84251—Continued.

84031. *PRIMULA* sp.

No. 18123. A plant with flowers so deep blue as to be almost indigo; found in alpine meadows at 13,500 feet altitude.

84032. *PRIMULA* sp.

No. 18124. A *primula* with white flowers; found in alpine meadows at 13,500 feet altitude.

84033. *PRIMULA* sp.

No. 18128. A *primula* with yellow flowers; found in alpine meadows at 14,500 feet altitude.

84034. *PRIMULA* sp.

No. 18134. A *primula* with large single bluish purple flowers; found in alpine meadows at 14,000 feet altitude.

84035. *PRIMULA* sp.

No. 18137. A *primula* with pink flowers; found in alpine meadows at 13,500 feet altitude.

84036. *PRIMULA* sp.

No. 18145. A *primula* with flowers which vary from pinkish purple to blue; found on crags at 14,500 feet altitude.

84037. *PRIMULA* sp.

No. 18146. A plant with reddish purple flowers; found in swampy meadows between 12,000 and 12,500 feet altitude.

84038. *PRIMULA* sp.

No. 18151. One of the largest and handsomest *primulas* of the entire region. The mauve-pink to bluish lavender flowers, the size of a half dollar, have white calices and grow in large umbels. The leaves are white beneath. Found in mossy rhododendron and open fir forests at 14,500 feet altitude.

84039. *PRIMULA* sp.

No. 18198. Mountains of Kulu, in eastern Muli territory, but west of Yalung and north of the Litang River, September and October, 1929. A *primula* with yellow flowers; found along brooks and in swampy meadows at 14,000 feet altitude.

84040. *PRIMULA* sp.

No. 18210. Mountains of Kulu, in eastern Muli territory, but west of Yalung and north of the Litang River, September and October, 1929. The blue flowers are in long spikes with carmine calices; found in alpine meadows between 12,000 and 14,000 feet altitude.

84041. *PRIMULA* sp.

No. 18242. Mount Mitzuga, Muli, Szechwan Province, September and October, 1929. A plant 2 feet high, with large mauve-pink to blue flowers the size of a half dollar; found in mossy fir and rhododendron forests at 13,500 to 14,000 feet altitude.

84042. *PRIMULA* sp.

No. 18264. Mount Mitzuga, Muli, Szechwan Province, September and October, 1929. A plant with very handsome bluish pink flowers; found on dry banks in pine forests at 12,000 feet altitude.