

long subulate decurved spine in the axil of the leaf. Leaves alternate, remote, 3-foliolate. Petiole 2 to 3 inches long. Leaflets 5 to 6 inches long, lanceolate, acuminate, entire, penninerved, pellucido-punctate. Flowers axillary, fasciculate, in a dense short raceme, much resembling those of the orange and not less fragrant. Calyx monophyllous, forming a short cylinder, 4-lobed at the mouth. Petals white, fleshy, oblong, four times as long as the calyx, at length patent and even reflexed. Stamens eight, united into a white fleshy tube for nearly their whole length, the apices free, and bearing each a linear or oblong-acuminate yellow anther. Pistil as long as the stamens. Ovary seated on a fleshy torus. Style columnar. Stigma large, globose." (*Botanical Magazine*, pl. 4522, 1850.)

Introduced for the work of the Office of Crop Physiology and Breeding Investigations.

39538 to 39541. PYRUS spp. Malaceæ. Pear.

From Jamaica Plain, Mass. Presented by Prof. C. S. Sargent, Arnold Arboretum. Cuttings received December 7, 1914. Quoted notes by Prof. Sargent.

39538. PYRUS BRETSCHNEIDERI Rehder.

"(No. 2.) 452-4. Raised from seed sent to the Arnold Arboretum from Peking, China, by Dr. Bretschneider. A pear with yellow, globose, juicy fruits, of fair quality, which we call *Pyrus bretschneideri*. Of great value as a decorative plant and, judging from the quality of the fruit, it has economic possibilities. I believe it is from this species that the best Chinese pears are derived."

39539 and 39540. PYRUS PHAEOCARPA Rehder.

"Raised from seed sent to the Arboretum from Peking, China, by Dr. Bretschneider. This species has very small brown fruit. Of great value as decorative plants."

39539. (No. 3.) 452-7. Fruit globose in form.

39540. (No. 4.) 452-9. Fruit pyriform.

39541. PYRUS OVOIDEA Rehder.

"(No. 5.) 4033. This is remarkable among pears in having ovoid, not obovoid, fruit. The fruit is of fairly good quality, and the tree has ornamental value on account of its large and abundant flowers and its good foliage which, unlike that of any other pear tree, turns to brilliant scarlet in the autumn. Judging by the shape of some of the Chinese fruits of which you have recently sent us photographs, this may be the origin of some of the cultivated Chinese pears. It is possible that one of the parents of the Kieffer pear may be this species. We know *P. ovoidea* only as a cultivated tree. It has long been cultivated in the Arboretum as *P. simonii*, under which name we had it from Kew, where in turn it had come from the museum in Paris. *P. simonii*, however, is a synonym of *P. ussuriensis*."

39542 and 39543.

From Littleriver, Fla. Presented by Mr. C. T. Simpson. Received December 2, 1914. Quoted notes by Mr. Simpson.

39542. ADENANTHERA PAVONINA L. Mimosaceæ. Circassian bean.

"A large tree from tropical Asia with dark-green bipinnate leaves and spiral pods of lenticular, brilliant red beans. These are used for food