



Lectotypification of *Pyrus astateria* Cardot (Rosaceae)

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Sorbus astateria (Cardot) Handel-Mazzetti (1933: 466) was originally described as *Pyrus astateria* Cardot (1918: 348). When Cardot (1918) described this new species, six collections (*Ducloux 114, 3318, 3485, 4115, 4751* and *Delavay s.n*) from Yunnan, China, were cited in the protologue. According to Art. 9.5 (McNeill *et al.* 2012), all of these specimens are syntypes. When Aldasoro *et al.* (2004: 63) revised *Sorbus* Linnaeus (1753: 477) subgenera *Aria* Persoon (1806: 39) and *Torminaria* (Candolle 1825: 636) Koch (1853: 178), they declared that they did not find these specimens at P and therefore designated *Sino-Amer. Bot. Exped. 593* (CAS) as a neotype. However, during studies of the Chinese *Sorbus*, all gatherings cited by Cardot were discovered at P and their images are available on the website of the herbarium (<http://coldb.mnhn.fr>). Therefore, the neotype chosen by Aldasoro *et al.* must be superseded under Art.9.19 (McNeill *et al.*, 2012). After examining the specimens cited by Cardot, all were in accordance with the original description. On *Ducloux 114*, an illustration with an analysis was pasted. Accordingly, we here designate *Ducloux 114* as the lectotype.

Sorbus astateria (Cardot) Handel-Mazzetti (1933: 466).

≡ *Pyrus astateria* Cardot (1918: 348); *Aria astateria* (Cardot) Ohashi & Iketani (1993: 357). Lectotype (here designated!):—CHINA. Yunnan: “environs de My-tsaio, bois de la montagne”, 3 Mar 1897, *F. Ducloux 114* (P! barcodes 00689925).

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References

- Aldasoro, J.J., Aedo, C., Garmendia, F.M., de la Hoz, F.P. & Navarro, C. (2004) Revision of *Sorbus* subgenera *Aria* and *Torminaria* (Rosaceae-Maloideae). *Systematic Botany Monographs* 69: 1–148.
<http://dx.doi.org/10.2307/25027918>
- Candolle, A.P. de (1825) Rosaceae. In: Candolle, A.P. de. (Ed.) *Prodromus Systematis Naturalis Regni Vegetabilis* 2. Treuttel & Würtz, Paris, pp. 525–639.
<http://dx.doi.org/10.5962/bhl.title.286>
- Cardot, J. (1918) Rosacées nouvelles d'extrême-orient. *Notulae Systematicae* 3: 345–355.
- Handel-Mazzetti, H. (1933) *Symbolae Sinicae* 7(3). Julius Springer Verlag, Wien, pp. 449–730.

- Koch, K.H.E. (1853) *Hortus dendrologicus I*. F. Schneider & Comp., Berlin, 192 pp.
- Linnaeus, C. (1753) *Species plantarum I. Laurentii Salvii*, Stockholm, 560 pp.
- McNeill, J., Barrie, F.R., Buck, W.R., Demoulin, V., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Marhold, K., Prado, J., Prud'Homme Van Reine, W.F., Smith, G.F., Wiersema, J.H. & Turland, N.J. (2012) *International Code of Nomenclature for algae, fungi, and plants (Melbourne Code) adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011*. [Regnum Vegetabile 154], 240 pp.
- Ohashi, H. & Iketani, H. (1993) New combinations of Asiatic *Aria* (Rosaceae-Maloideae-Sorbeae). *Journal of Japanese Botany* 68: 355–361.
- Persoon, C.H. (1806) *Synopsis Plantarum 2(1)*. Carol. Frid. Cramerum, Paris, 272 pp.