

## TWO NEW SPECIES OF THE ROSACEAE FROM IRAN

**M. Khatamsaz**

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*Pyrus kandevanica* and *Cotoneaster esfandiarii* are described as new species. The first species is related to *P. boissieriana* and the latter is most closely related to *C. integerrimus*. The differences of the new species and their relatives are explained.

*Mahboubeh Khatamsaz, Research Institute of Forests and Rangelands, P.O. Box 13185-116, Tehran. Iran.*

دو گونه جدید از خانواده گل سرخ از ایران

از: محبوبه خاتم‌ساز

گونه‌های *Pyrus kandevanica* و *Cotoneaster esfandiarii* به‌عنوان گونه‌های جدید نامگذاری و شرح داده می‌شوند. گونه اولی با گونه *P. boissieriana* قرابت دارد و نزدیکترین گونه به گونه دومی *C. integerrimus* است. اختلاف گونه‌های جدید با گونه‌های وابسته توضیح داده می‌شود.

## Introduction

In the course of studies on the *Rosaceae* family, several new species have been introduced (Khatamsaz 1985 & 1988). Now, two more new species are described.

***Pyrus kandevanica*** Ghahreman, Khatamsaz & Mozaffarian, **sp. nov.** (sect. *Pashia* Koehne).

Arbor usque ad 5 m. altus, ramis spinosis, glabris, novellis fuscescentibus, vetustioribus cinereis. Foliorum lamina 3-8 x 3-5 cm, late ovata, basi rotundata, apice acuminata vel apiculata, margine serrulata, supra glabra, nitida, subtus pallidior. Petiolus lamina paulo longior usque ad 6 cm longus. Inflorescentia densa, multiflora. Pedicelli breves. Calycis laciniae triangulari-acuminatae, extus glabrae, intus lanato-tomentosae, deciduae. Styli 2-4. Fructus globosus, usque ad 1.8 cm diametro, rubellus, albido-punctulatus, pedicello fructifero crasso.

*Typus.* Iran. Mazanderan, Siahbisheh, 2200 m, Ghahreman & Mozaffarian 7109 (holotypus TUH; isotypus TARI).

Tree up to 5 m, spinescent, glabrous, twigs blackish when young, later becoming grey. Leaves 3-8 x 3-5 cm, broadly ovate, rounded at the base, acuminate or apiculate at the apex, serrulate at margin, glabrous and shining above, dull beneath, blackish when dry, petioles up to 6 cm long, usually as long as or longer than the blade. Inflorescence dense, many flowered, pedicels short. Calyx segment

triangular-acuminate, glabrous on the outside, lanate-tomentose inside, deciduous. Styles 2-4. Fruit globose, up to 1.8 cm diam, reddish, white punctate, pedicels thick.

*Diagnose.* The new species is distinguished by compact inflorescence, thick pedicels and large fruit. It is closely related to *P. boissieriana* Buhse but differs from it in having compact inflorescence, thick and shorter pedicels, larger fruits, acuminate and apiculate leaves.

***Cotoneaster esfandiarrii*** Khatamsaz, **sp. nov.**

(Sect. *Orthopetalum* Koehne).

Frutex parvulus, 30-40 cm tantum altus. Rami juveniles tomentosi, mox glabrescentes, an-  
notinii fusco-atropurpurei. Folia lanceolato-  
elliptica vel ovato-elliptica, 10-16 mm longa, 4-  
8 mm lata, basi cuneata, supra sparse pilosa,  
viridia, subtus laxe tomentosa. Petiolus pilosus,  
2-3 mm longus. Inflorescentia tomentosa, sub-  
nutans. Hypanthium et calyx tomentosum. Flores parvuli; corolla 4 mm diam.; petala erecta vel erecto-patentia, alba, dorsum rubescen-  
tia, suborbicularia, 2-2.5 mm longa; stamina ca.  
16-20; styli 3-4. Fructus subglobosus, 6 mm  
diametro, ruber, villosulus. Pyrenis 3-4.

*Typus.* Iran, Tehran, Firuzkuh, Lazour, Kuh-e Mishin-e Marg area, 2500-3400 m, Khatamsaz, Akhiani & Abouhamzeh 64756 (holotypus TARI); *paratypus.* idem Mozaffarian 54282 (fruiting stage).

Small shrub ca. 30-40 cm, branchlets of this

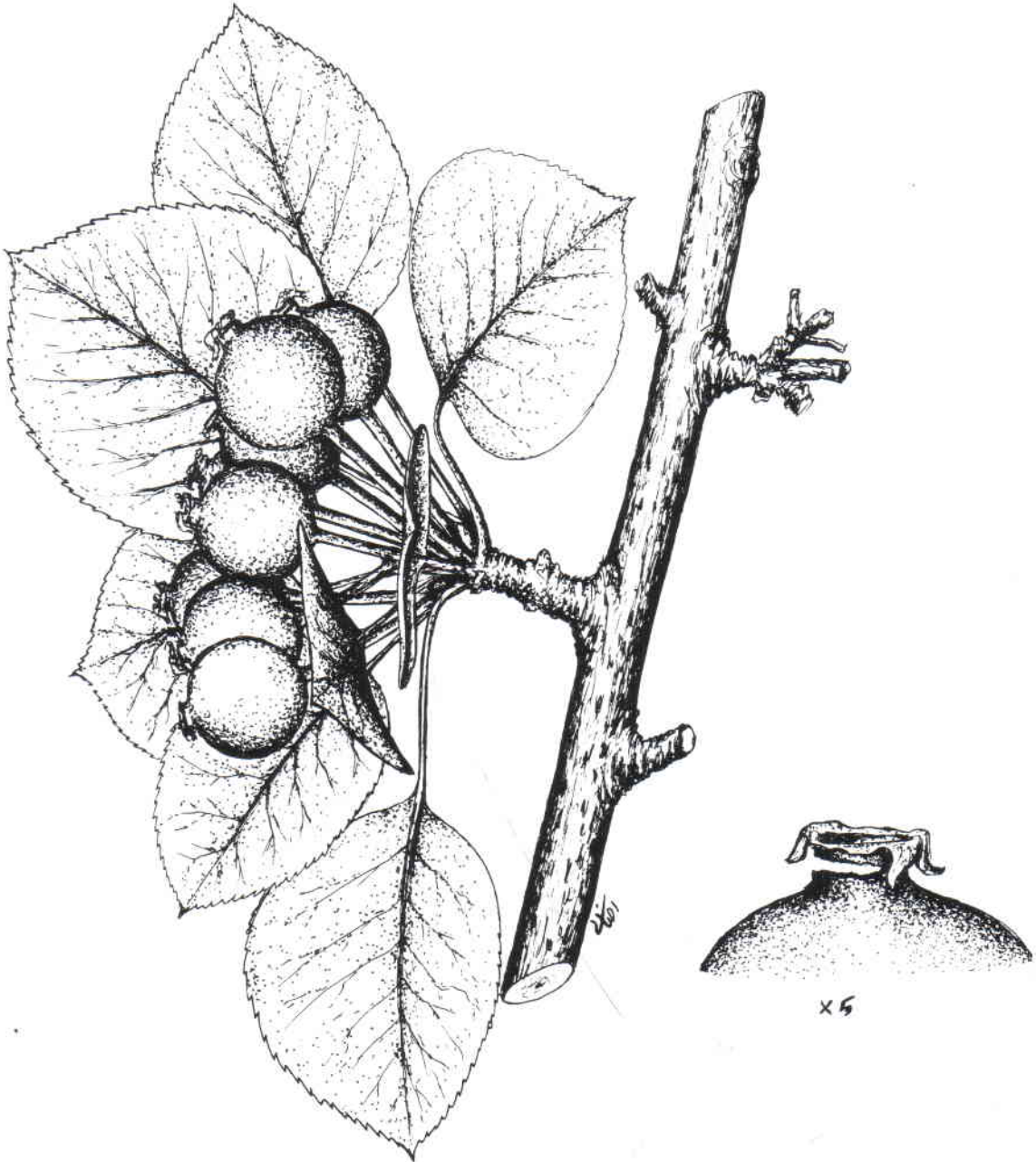


Fig.1. *Pyrus kandevanica* (nat. size; fruit x 5).

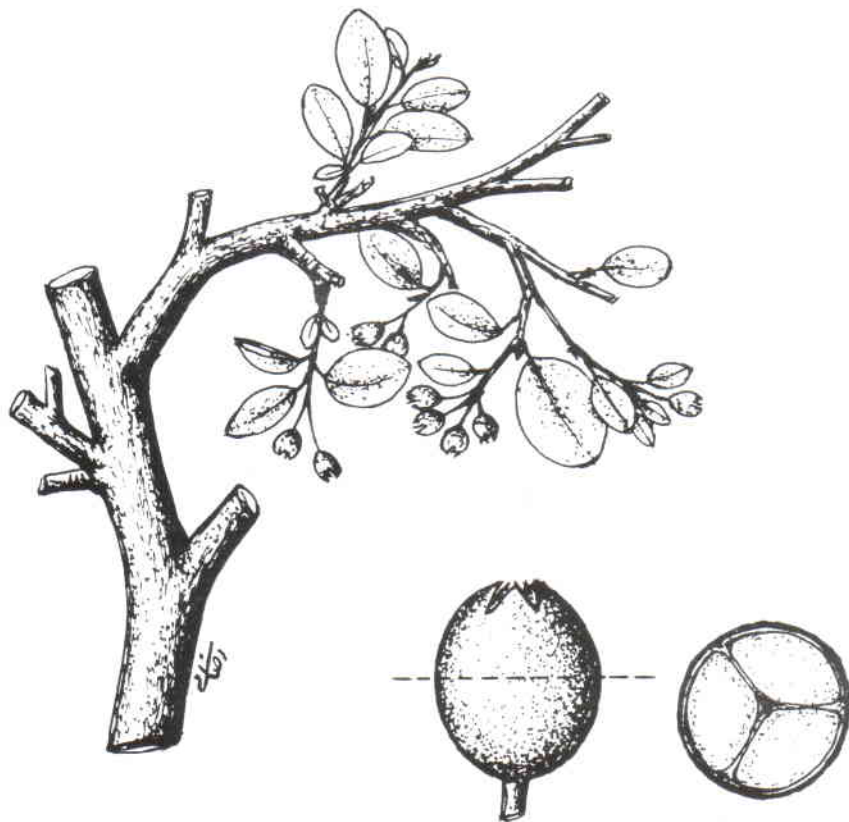


Fig.2 *Cotoneaster esfandiarrii* (nat. size; fruit x 5).

year's growth in the beginning shortly appressed tomentose, then glabrous, branchlets of last year dark purple. Leaves lanceolate or elliptic, 10-16 mm long, 4-8 mm wide, acute at the apex, cuneate at the base, scatteredly pilose above, tomentose beneath; petioles pilose, 2-3 mm long. Cymes subnutant, tomentose, 3-7 flowered, hypanthium and calyx tomentose.

Corolla small, 4 mm diam.; petals white, reddish at the back, suborbicular, erect or subspreading; stamens ca. 16-20; styles 3-4. Fruit subglobose, 6 mm diam., red, villous; pyrenes 3-4.

*Diagnose.* The new species is distinguished by subnutant inflorescence, more flowers, 3 styles,

lanceolate leaves.

It is most closely related to *C. integerrimus* Medicus but differs from it in subnutant inflorescence, more flowers, lanceolate or elliptic leaves. In *C. integerrimus*, inflorescence is nutant with less flowers (2-3). Oblong-ovate leaves and glabrous hypanthium.

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### **References**

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