



APPLICATIONS UNDER EXAMINATION

NINEBARK

NINEBARK (*Physocarpus opulifolius*)

Proposed denomination: 'HOOGI021'
Trade name: Little Joker
Application number: 18-9412
Application date: 2018/03/29
Applicant: Mark Sebastiaan Hoogenraad, Ederveen, Netherlands
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Mark Sebastiaan Hoogenraad, Ederveen, Netherlands

Variety used for comparison: 'Tiny Wine'

Summary: *The plants of 'HOOGI021' are taller than those of 'Tiny Wine'. The leaf blade for 'HOOGI021' is narrower than that of 'Tiny Wine'. The petiole of 'HOOGI021' has strong anthocyanin colouration whereas the petiole of 'Tiny Wine' has medium intensity of anthocyanin colouration. The inflorescence for 'HOOGI021' has a smaller diameter than that of 'Tiny Wine'. The petals of 'HOOGI021' are shorter than the petals of 'Tiny Wine'.*

Description:

PLANT: shrub type, obovoid and mounding shape, upright to bushy growth habit, medium branching density

PREVIOUS YEAR'S STEM: light brown

CURRENT YEAR'S STEM: light green at base with anthocyanin on upper two thirds, thin, absent or very sparse pubescence, round in cross-section, smooth bark texture, absent or very few thorns

LEAF: simple type, alternate arrangement along stem

LEAF BLADE: ovate, acute apex, obtuse base, dentate to serrate margin, three lobes, weak rugosity, very weak undulation of margin

LEAF BLADE (UPPER SIDE): absent or very sparse pubescence, dark green mid-season, no variegation

LEAF BLADE (LOWER SIDE): absent or very sparse pubescence, medium brown green (close to RHS 138B) mid-season, absent or very weak anthocyanin colouration on veins

PETIOLE: present, strong intensity of anthocyanin colouration

INFLORESCENCE: corymb type

FLOWER: rotate form, white (RHS NN155D) on inner and outer sides

Origin and Breeding: 'HOOGI021' originated from an open pollinated cross conducted by the breeder in Ederveen, the Netherlands in 2008. The cross was made between the female parent variety 'Monlo' and pollen from an unknown male parent. The resulting seed from the cross was collected and sown in 2009. The new variety was selected in 2012 as a single unique plant from 350 seedlings based on its growth habit, leaf size and leaf colour. Asexual reproduction of 'HOOGI021' was first conducted by stem cuttings in 2012 in Ederveen, the Netherlands.

Tests and Trials: The comparative trial for 'HOOGI021' was conducted as an outdoor container trial during the summer of 2022 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 10 shrubs of the candidate variety and 5 shrubs of the reference variety. All shrubs were grown from rooted cuttings and transplanted into containers in July of 2021. Containers were arranged outdoors in rows with 1 meter spacing between plants. Observations and measurements were taken from 10 plants or parts of 10 plants of each variety on July 15, 2022 with the exception of flower characteristics which were assessed on May 18, 2022. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% confidence probability level based on a paired Student's t-test.

Comparison table for 'HOOGI021'

	'HOOGI021'	'Tiny Wine**
<i>Plant height (cm)</i>		
mean	82.8	62.1
std. deviation	4.67	5.13
<i>Leaf blade width (cm)</i>		
mean	3.2	3.6
std. deviation	0.17	0.19
<i>Inflorescence diameter (cm)</i>		
mean	1.5	2.4
std. deviation	0.15	0.19
<i>Petal length (mm)</i>		
mean	1.7	2.7
std. deviation	0.35	0.42

*reference variety



HOOGI021

Tiny Wine

Ninebark: 'HOOGI021' (left) with reference variety 'Tiny Wine' (right)