



APPLICATIONS UNDER EXAMINATION

SWEET MOCK ORANGE

SWEET MOCK ORANGE
(*Philadelphus*)

Proposed denomination: 'SMNPBD'
Trade name: Illuminati Arch
Application number: 20-10219
Application date: 2020/05/13
Applicant: Spring Meadow Nursery, Inc., Grand Haven, Michigan, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Timothy D. Wood, Spring Lake, Michigan, United States of America

Varieties used for comparison: 'Snow White' and 'SMNPVG' ('Illuminati Tower')

Summary: *The plants of 'SMNPBD' are shorter than the plants of 'Snow White' and taller than the plants of 'SMNPVG'. The plants of 'SMNPBD' are wider than the plants of 'SMNPVG'. The flower of 'SMNPBD' has a smaller diameter than the flower of 'Snow White' and a larger diameter than the flower of 'SMNPVG'.*

Description:

PLANT: shrub type, ovoid (rounded) overall shape, bushy growth habit, dense branching, medium growth rate

SHOOT: red-brown, thin, medium pubescence, rounded in cross-section, smooth bark, absent or very sparse glaucosity, absent or very sparse number of lenticels and thorns

LEAF: simple type, opposite arrangement on stem

LEAF BLADE: ovate, acuminate (with acute tendencies) apex, obtuse and truncate base, dentate margin, weak waviness of margin, no lobing, no variegation, medium rugosity

LEAF BLADE UPPER SIDE: medium pubescence, medium green

LEAF BLADE LOWER SIDE: very strong pubescence, light green, absent or very weak intensity of anthocyanin colouration on veins

PETIOLE: present, absent or very weak intensity of anthocyanin colouration

FLOWER: solitary, rotate corolla shape, double flower type, 19 petals, white (RHS NN155B-NN155C) main colour of upper and lower side, medium fragrance

Origin and Breeding: 'SMNPBD' originated from a selection of irradiated seeds of the variety 'Snowbelle' conducted in the summer of 2014 in Grand Haven, Michigan, U.S.A. 'SMNPBD' was selected as a single unique plant in 2015 based on plant habit, double-type flowers, and thick foliage. Asexual reproduction of 'SMNPBD' was first conducted by softwood cuttings in 2015 in Grand Haven, Michigan, U.S.A.

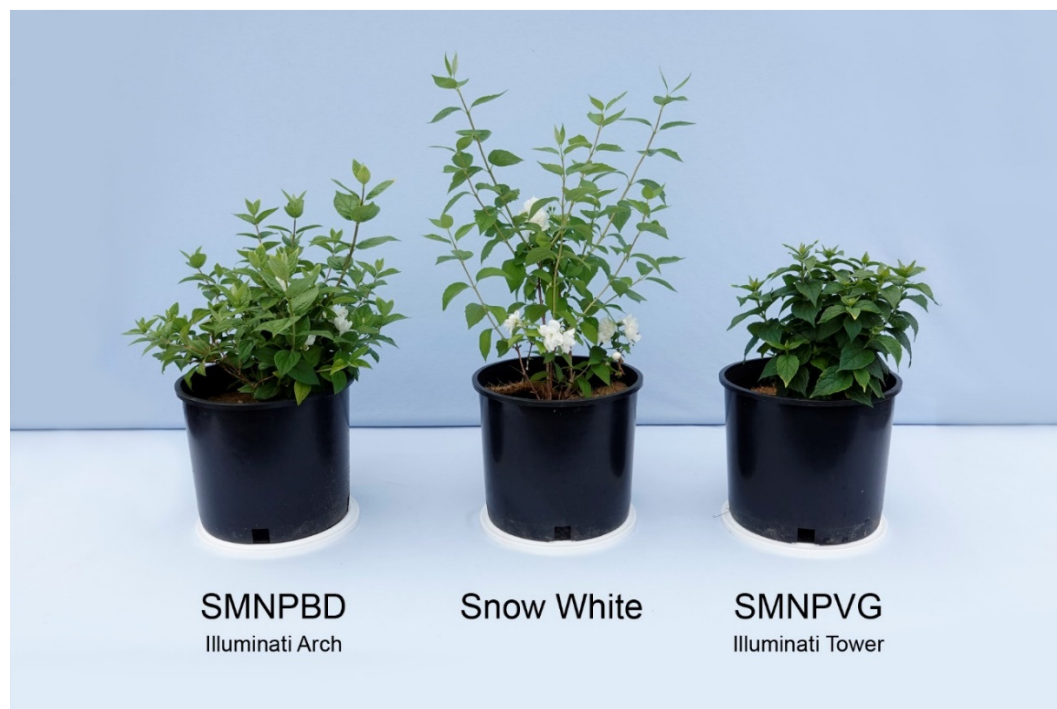
Tests and Trials: The comparative trial for 'SMNPBD' was conducted in a container trial during the spring and summer of 2022 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 12 shrubs each of the candidate and reference varieties. Trials were arranged outdoors in rows with 1 metre spacing between plants. All observations and measurements were taken from 10 plants, or parts of plants, of each variety on July 5, 2022, except flowering characteristics which were taken on May 24, 2022. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'SMNPBD'

	'SMNPBD'	'Snow White'*	'SMNPVG'*
<i>Plant height (cm)</i>			
mean	49.7	64.3	42.7
std. deviation	8.23	11.6	2.2

<i>Plant width (cm)</i>			
mean	54.2	48.3	37.0
std. deviation	3.8	9.4	2.4
<i>Flower diameter (cm)</i>			
mean	4.08	5.09	2.01
std. deviation	0.16	0.28	0.14

*reference varieties



Sweet Mock Orange: 'SMNPBD' (left) with reference varieties 'Snow White' (centre) and 'SMNPVG' (right)

SWEET MOCK ORANGE
(*Philadelphus coronarius*)

Proposed denomination: ‘SMNPVG’
Trade name: Illuminati Tower
Application number: 19-9737
Application date: 2019/03/11
Applicant: Spring Meadow Nursery, Inc., Grand Haven, Michigan, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Timothy D. Wood, Spring Lake, Michigan, United States of America

Variety used for comparison: ‘Snow White’

Summary: *The plants of ‘SMNPVG’ are shorter than the plants of ‘Snow White’. The flower of ‘SMNPVG’ is a single type with 5 petals whereas the flower of ‘Snow White’ is a double type with 28 petals. The flower of ‘SMNPVG’ has a smaller diameter than the flower of ‘Snow White’.*

Description:

PLANT: shrub type, columnar overall shape, upright growth habit, dense branching, slow to medium growth rate

SHOOT: light brown, thin, medium pubescence, rounded in cross-section, smooth bark, absent or very sparse glaucosity, absent or very sparse number of lenticels and thorns

LEAF: simple type, opposite arrangement on stem

LEAF BLADE: ovate, acuminate (with acute tendencies) apex, obtuse and truncate base, dentate margin, weak to medium waviness of margin, no lobing, no variegation, medium rugosity

LEAF BLADE UPPER SIDE: sparse pubescence, medium to dark green

LEAF BLADE LOWER SIDE: sparse pubescence, light green, absent or very weak intensity of anthocyanin colouration on veins

PETIOLE: present, absent or very weak intensity of anthocyanin colouration

FLOWER: solitary, rotate corolla shape, single flower type, 5 petals, white (RHS NN155C) main colour of upper and lower side, strong fragrance

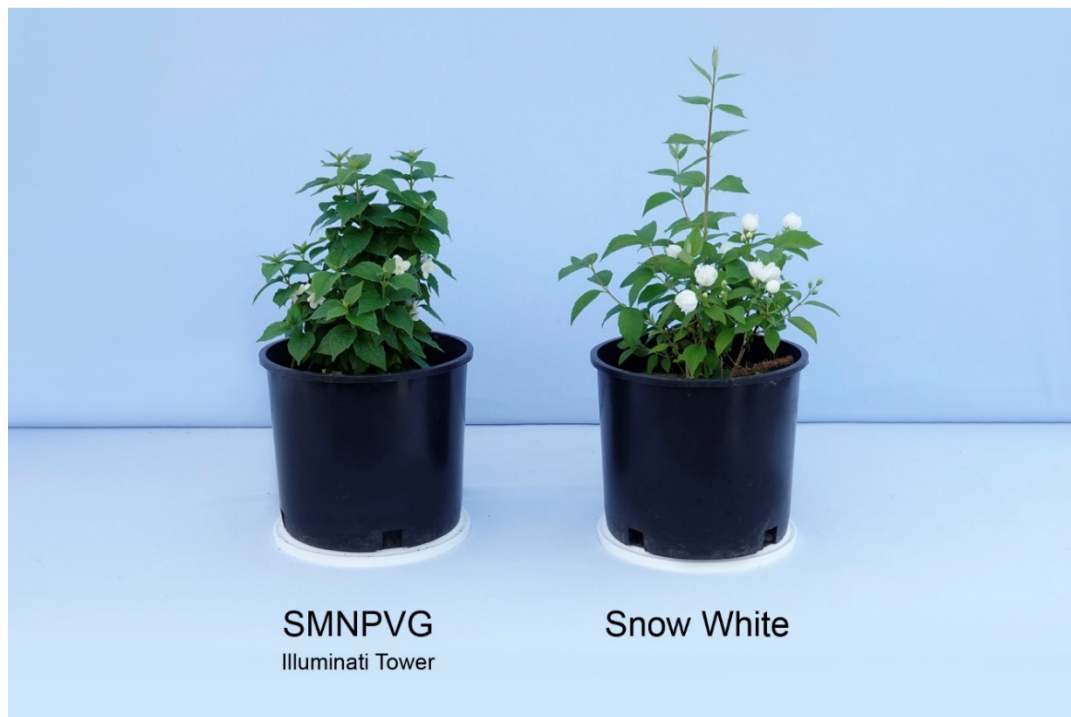
Origin and Breeding: ‘SMNPVG’ originated from an open pollinated cross between two unknown parents, conducted in the 2011 in Grand Haven, Michigan, U.S.A. ‘SMNPVG’ was selected as a single unique plant in 2014 based on plant shape, flower appearance, and foliage density. Asexual reproduction of ‘SMNPVG’ was first conducted by softwood cuttings in 2014 in Grand Haven, Michigan, U.S.A.

Tests and Trials: The comparative trial for ‘SMNPVG’ was conducted in a container trial during the spring and summer of 2022 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 12 shrubs each of the candidate and reference varieties. Trials were arranged outdoors in rows with 1 metre spacing between plants. All observations and measurements were taken from 10 plants, or parts of plants, of each variety on July 5, 2022, except flowering characteristics which were taken on May 24, 2022. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.

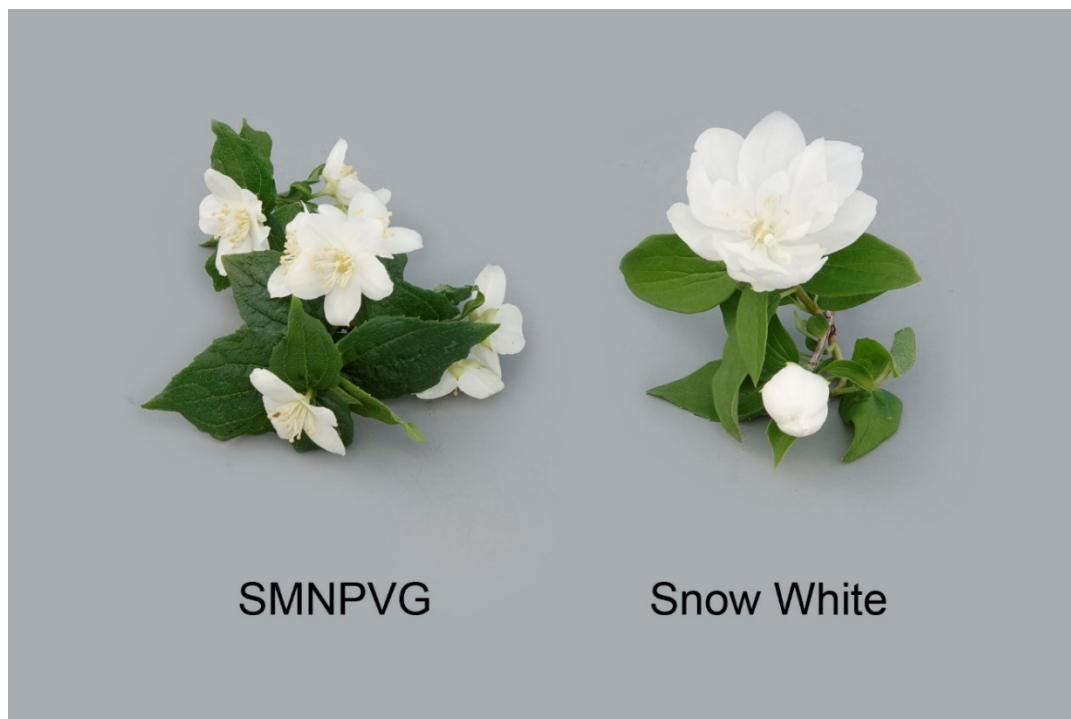
Comparison table for ‘SMNPVG’

	‘SMNPVG’	‘Snow White’*
<i>Plant height (cm)</i>		
mean	42.7	64.3
std. deviation	2.2	11.6
<i>Flower diameter (cm)</i>		
mean	2.01	5.09
std. deviation	0.14	0.28

*reference variety



Sweet Mock Orange: 'SMNPVG' (left) with reference variety 'Snow White' (right)



Sweet Mock Orange: 'SMNPVG' (left) with reference variety 'Snow White' (right)