



APPLICATIONS UNDER EXAMINATION

BRUNNERA

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(Brunnera macrophylla)

Proposed denomination: 'Jack of Diamonds'
Application number: 20-10280
Application date: 2020/07/09
Applicant: Walters Gardens, Inc., Zeeland, Michigan, United States of America
Agent in Canada: Variety Rights Management, Oxford Station, Ontario
Breeder: Hans A. Hansen, Zeeland, Michigan, United States of America

Variety used for comparison: 'Jack Frost'

Summary: *The plants of 'Jack of Diamonds' are larger than those of 'Jack Frost'. The leaf blade of 'Jack of Diamonds' is larger than that of 'Jack Frost'. The petiole of 'Jack of Diamonds' is longer than that of 'Jack Frost'. The petal on the flower of 'Jack of Diamonds' is oblanceolate in shape while that of 'Jack Frost' is rounded.*

Description:

PLANT: perennial, upright-bushy and mounded growth habit, absent or very sparse branching

PETIOLE: present

LEAF: rosette arrangement, simple, reniform, acute to acuminate apex, cordate base, entire margin

LEAF BLADE (UPPER SIDE): medium density of pubescence, absent or very weak glaucosity, colour 1 is dark green to dark brown green (RHS 137A-B) along margin and veins covering a small area, colour 2 is light grey green (RHS 190D-192D) between veins covering a large area

LEAF BLADE (LOWER SIDE): medium density of pubescence, ranging between dark brown green and medium brown green (RHS 146B/C)

FLOWERING TIME: early season, short period

INFLORESCENCE: cyme type, terminal position, erect to semi-erect attitude

PETALS: open arrangement, five in number, small sized, oblanceolate shape, light blue (RHS 104D to 107D) upper side, light blue (RHS 107D) lower side

Origin and Breeding: 'Jack of Diamonds' originated from the cross between the varieties 'Caspian Carpet' and 'Jack Frost' conducted in May 2015 at a nursery in Zeeland, Michigan, USA. The new variety was selected in September 2016 based on distinct foliage type and plant habit. The new seedling was originally asexually propagated by division in September 2016 at Walters Gardens, Inc. in Zeeland, Michigan, USA and subsequently by division and tissue culture.

Tests and Trials: The comparative trial for 'Jack of Diamonds' was conducted outdoors during the summer of 2022 at Variety Rights Management in Oxford Station, Ontario. The trial included 15 plants of each of the candidate and reference varieties. The plants were grown in 16 cm pots with 40 cm spacing between pots under a galvanized steel structure covered with black mesh shade fabric. The observations and measurements were taken from 10 plants or parts of 10 plants of each variety. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% probability level based on Student's t-tests.

Comparison table for 'Jack of Diamonds'

	'Jack of Diamonds'	'Jack Frost'
<i>Plant height (cm)</i>		
mean 2022	25.3	16.2
std. deviation 2022	1.25	0.91
<i>Plant width (cm)</i>		
mean 2022	32.0	24.1
std. deviation 2022	2.92	1.43

<i>Leaf blade length (cm)</i>		
mean 2022	11.7	9.2
std. deviation 2022	1.92	1.13
<i>Leaf blade width (cm)</i>		
mean 2022	15.1	8.7
std. deviation 2022	1.60	0.59
<i>Petiole length (cm)</i>		
mean 2022	16.3	11.6
std. deviation 2022	1.51	1.37

*reference variety



Brunnera: 'Jack of Diamonds' (left) with reference variety 'Jack Frost' (right)

Proposed denomination: 'Queen of Hearts'
Application number: 20-10281
Application date: 2020/07/09
Applicant: Walters Gardens, Inc., Zeeland, Michigan, United States of America
Agent in Canada: Variety Rights Management, Oxford Station, Ontario
Breeder: Hans A. Hansen, Zeeland, Michigan, United States of America

Varieties used for comparison: 'Looking Glass' and 'Sterling Silver'

Summary: *The plants of 'Queen of Hearts' are larger than those of 'Looking Glass' and 'Sterling Silver'. The leaf blade of 'Queen of Hearts' is larger than those of the reference varieties. Colour 1 on the upper side of the leaf blade of 'Queen of Hearts' covers a small area while that of the reference varieties covers a very small area. Colour 2 on the upper side of the leaf blade of 'Queen of Hearts' covers a large area while that of the reference varieties covers a very large area. The petiole of 'Queen of Hearts' is longer than those of the reference varieties.*

Description:

PLANT: perennial, upright-bushy and mounded growth habit, absent or very sparse branching

PETIOLE: present

LEAF: rosette arrangement, simple, reniform, acute to acuminate apex, cordate base, entire margin

LEAF BLADE (UPPER SIDE): medium density of pubescence, absent or very weak glaucosity, colour 1 is dark green to dark brown green (RHS 137A-B) along margin and veins covering a small area, colour 2 is light grey green (RHS 190D-192D) between veins covering a large area

LEAF BLADE (LOWER SIDE): medium density of pubescence, ranging between dark brown green and medium brown green (RHS 146B/C)

FLOWERING TIME: early season, short period

INFLORESCENCE: cyme type, terminal position, erect to semi-erect attitude

PETALS: open arrangement, five in number, small sized, rounded shape, light blue (RHS 104D to 107D) upper side, light blue (RHS 107D) lower side

Origin and Breeding: ‘Queen of Hearts’ originated from the cross between the variety ‘Alexander’s Great’ and a proprietary seedling, conducted in May 2015 at a nursery in Zeeland, Michigan, USA. The new variety was selected in September 2016 based on distinct foliage type and plant habit. The new seedling was originally asexually propagated by division in September, 2016 at Walters Gardens, Inc. in Zeeland, Michigan, USA and subsequently by division and tissue culture.

Tests and Trials: The comparative trial for ‘Queen of Hearts’ was conducted outdoors during the summer of 2022 at Variety Rights Management in Oxford Station, Ontario. The trial included 15 plants of each of the candidate and reference varieties. The plants were grown in 16 cm pots with 40 cm spacing between pots under a galvanized steel structure covered with black mesh shade fabric. The observations and measurements were taken from 10 plants or parts of 10 plants of each variety. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% probability level based on Student’s t-tests.

Comparison table for ‘Queen of Hearts’

	‘Queen of Hearts’	‘Looking Glass’*	‘Sterling Silver’*
<i>Plant height (cm)</i>			
mean 2022	23.8	16.3	17.3
std. deviation 2022	1.81	1.36	1.47
<i>Plant width (cm)</i>			
mean 2022	27.6	22.2	24.6
std. deviation 2022	1.50	1.47	1.30
<i>Leaf blade length (cm)</i>			
mean 2022	14.4	8.7	12.4
std. deviation 2022	1.60	0.84	1.02
<i>Leaf blade width (cm)</i>			
mean 2022	15.6	8.1	11.3
std. deviation 2022	1.28	0.90	1.04
<i>Petiole length (cm)</i>			
mean 2022	13.3	9.3	11.0
std. deviation 2022	2.22	1.36	1.39

*reference varieties



Brunnera: 'Queen of Hearts' (centre) with reference varieties 'Looking Glass' (left) and 'Sterling Silver' (right)