



APPLICATIONS UNDER EXAMINATION

POTENTILLA

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(Dasiphora fruticosa subsp. fruticosa)

Proposed denomination: 'SMNPPS'
Trade name: Happy Face Hearts
Application number: 18-9449
Application date: 2018/05/01
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: 'Kupinpa' (Happy Face Pink Paradise)

Summary: *The plants and leaves of 'SMNPPS' are smaller than those of 'Kupinpa'. The margin on the inner side of the petal of 'SMNPPS' is medium purple red whereas the petal margin for 'Kupinpa' is white.*

Description:

PLANT: shrub type, globose overall shape, upright to bushy growth habit, dense branching, medium growth rate
STEM: light green, thin, dense pubescence, round in cross-section, smooth bark, absent or very weak glaucosity
BUD: small, green, ovoid, pointed apex

LEAF: pinnately compound type, 5 leaflets, alternate arrangement along stem, no variegation, upper side light to medium green mid-season, lower side greyed green mid-season

LEAFLET: obovate, cuspidate apex, cuneate base, entire margin, no lobing, sparse pubescence on upper side, pubescence ranging from sparse to medium density on lower side, absent or very weak anthocyanin colouration on veins on lower side, absent or very weak rugosity, absent or very weak waviness of margin

PETIOLE: absent or very weak anthocyanin colouration

FLOWER: rotate corolla

PETAL (INNER SIDE): mainly medium blue pink (RHS N57D), medium purple red (RHS N57C) along margin, light yellow orange (RHS 158A) in middle and at base

PETAL (OUTER SIDE): white (RHS 155D)

Origin and Breeding: 'SMNPPS' originated from an open pollinated cross conducted by the breeder, Timothy D. Wood, in Grand Haven, Michigan, USA. The cross was made between the female parent variety designated 'Pink Dbl 2 F2', and an unknown male parent in 2011. The new variety was selected as a single plant from the resulting progeny in 2014, based on plant growth habit and flower colour. Asexual reproduction of 'SMNPPS' was first conducted by softwood cuttings in the summer of 2014, in Grand Haven, Michigan, USA.

Tests and Trials: The comparative trial for 'SMNPPS' was conducted in containers outdoors during the summer of 2020 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 10 shrubs each of the candidate variety and reference variety. All shrubs were grown from rooted cuttings and transplanted into 11.3 litre pots on August 6, 2019. The trial was arranged outdoors in rows with 1 metre spacing between plants. Observations and measurements were taken from 10 plants, or parts of 10 plants of each variety on July 21, 2020. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'SMNPPS'

	'SMNPPS'	'Kupinpa'*
<i>Plant natural height (cm)</i>		
mean	34.2	41.0
std. deviation	5.01	4.58

Plant width (cm)

mean	36.65	47.9
std. deviation	1.87	3.97

Leaf length (including petiole)(cm)

mean	1.88	3.22
std. deviation	0.26	0.22

Leaf blade width (cm)

mean	1.94	3.69
std. deviation	0.29	0.24

Colour of inner side of petal (RHS)

margin	N57C	155D
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*reference variety



Potentilla: 'SMNPPS' (left) with reference variety 'Kupinpa' (right)



Potentilla: 'SMNPPS' (left) with reference variety 'Kupinpa' (right)



Potentilla: 'SMNPPS' (left) with reference variety 'Kupinpa' (right)