



APPLICATIONS UNDER EXAMINATION

VERBENA

VERBENA (*Verbena ×hybrida*)

Proposed denomination: 'Lan Upbriro'
Trade name: Lanai Upright
Application number: 07-6124
Application date: 2007/12/24
Applicant: Goldsmith Seeds, Inc., Gilroy, California, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Mitchell Hanes, Goldsmith Seeds, Inc., Morgan Hill, California, United States of America

Varieties used for comparison: 'Lan Upmag' (Lanai Upright Magenta) and 'USBENAL20' (Superbena Pink Shades)

Summary: *The plants of 'Lan Upbriro' are shorter than those of 'USBENAL20'. 'Lan Upbriro' is wider than 'Lan Upmag' and narrower than 'USBENAL20'. The tips of the protruding hairs of the corolla tube of 'Lan Upbriro' are grey-purple while those of 'Lan Upmag' are white and those of 'USBENAL20' are pink to purple. 'Lan Upbriro' has a smaller corolla than both reference varieties. The corolla lobes of 'Lan Upbriro' are incurved along the longitudinal axis with medium undulation of the margin while those of 'USBENAL20' are straight with weak undulation of the margin. 'Lan Upbriro' differs from both reference varieties in the colour of the upper side of the corolla. The eye on the corolla of 'Lan Upbriro' is very small to small while that of 'USBENAL20' is medium sized. 'Lan Upbriro' has a white/pink eye on the corolla while 'Lan Upmag' has a green yellow eye and 'USBENAL20' has a purple eye.*

Description:

PLANT: upright growth habit

STEM: dense pubescence, ranging from light to medium green, weak anthocyanin colouration

LEAF BLADE: ovate, cuneate base, no divisions, crenate margin incisions, medium green on upper side, no anthocyanin colouration on upper side

INFLORESCENCE: broad ovate in profile

CALYX: anthocyanin colouration on teeth only

COROLLA: one coloured on upper side, shaded colour pattern, colour gets lighter towards apex, purple red (RHS N66A) on upper side when newly opened, purple red (RHS N66B) on upper side when fully opened, blue pink (RHS N74C-D) on lower side, strongly fading colour with age

COROLLA LOBES: incurved along longitudinal axis, medium undulation of margin

COROLLA TUBE: grey-purple tips of protruding hairs

COROLLA EYE: very small to small, white/pink

Origin and Breeding: 'Lan Upbriro' originated from a hybrid cross in August 2005 between the female parent variety 'Lanai Upright Magenta' and the male parent variety 'Lanai Upright Violet'. The new verbena was bred and developed by the breeder Michell Hanes, in Gilroy, California as part of a planned breeding program. The resultant seed from the cross was sown in a greenhouse in November 2005. In February 2006 a single plant was selected by the breeder based on flower colour and plant growth habit.

Tests and Trials: Trials for 'Lan Upbriro' were conducted in a polyhouse during the spring of 2009, in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings transplanted into 11 cm pots on May 6, 2009. Observations and measurements were taken from 10 plants of each variety on June 2, 2009. All colour determinations were made using the 2001 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Lan Upbriro'

	'Lan Upbriro'	'Lan Upmag'*	'USBENAL20'*
<i>Plant height (cm)</i>			
mean	16.0	17.9	7.1
std. deviation	0.90	1.42	1.41
<i>Plant width (cm)</i>			
mean	22.2	15.7	36.5
std. deviation	1.99	2.37	6.39
<i>Corolla diameter (cm)</i>			
mean	21.1	25.7	23.4
std. deviation	0.90	1.49	1.35
<i>Colour of upper side of corolla (RHS)</i>			
newly opened	N66A	margin more purple than 45B with close to 60A-B at base	more pink than N74A with N74B at apex
fully opened	more purple than N66B	N57B	N74B with 73A at apex

*reference varieties



Verbena: 'Lan Upbriro' (left) with reference varieties 'Lan Upmag' (center) and 'USBENAL20' (right)



Verbena: 'Lan Upbriro' (left) with reference varieties 'Lan Upmag' (center) and 'USBENAL20' (right)



Verbena: 'Lan Upbriro' (left) with reference varieties 'Lan Upmag' (center) and 'USBENAL20' (right)

Proposed denomination: 'Poena'
Application number: 07-6045
Application date: 2006/11/20 (priority claimed)
Applicant: Syngenta Crop Protection AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Har Stemkens, Syngenta Seeds B.V., Enkhuizen, The Netherlands

Varieties used for comparison: 'Sunmaricorapi' (Temari Bright Pink) and 'USBENAL20' (Superbena Pink Shades)

Summary: *The plants of 'Poena' are narrower than those of 'USBENAL20'. 'Poena' has narrower leaves than 'Sunmaricorapi'. 'Poena' has incurved corolla lobes while both reference varieties have straight corolla lobes. The margins of the corolla lobes of 'Poena' have medium undulation while those of both reference varieties have weak undulation. 'Poena' has even colour on the corolla while both reference varieties have shaded colour which gets lighter towards the apex of the lobes. The upper sides of the corolla of 'Poena' differ in colour from those of both reference varieties. 'Poena' has a whitish green corolla eye while 'USBENAL20' has a purple eye.*

Description:

PLANT: semi-upright to creeping growth habit
 STEM: dense pubescence, medium green colour, weak to strong anthocyanin colouration

LEAF BLADE: ovate, cuneate base, no divisions, crenate margin incisions, medium green on upper side, no anthocyanin colouration

INFLORESCENCE: broad ovate in profile

CALYX: no anthocyanin colouration

COROLLA: one coloured on upper side, even colour pattern, purple red (RHS N66A) on upper side when newly opened, purple red (RHS N66B) on upper side when fully opened, blue pink (RHS N66C) with light blue violet (RHS 69C) at base on lower side, moderately fading colour with age

COROLLA LOBES: free to touching, incurved longitudinal axis, medium undulation of margin

COROLLA TUBE: white tip of protruding hairs

COROLLA EYE: small, whitish green

Origin and Breeding: 'Poena' originated from a pollination between the female parent F0132-1 and pollen from unidentified plants of Verbena x hybrida conducted in August 2003. The new variety was bred and developed by the breeder Har Stemkens in Enkhuizen, The Netherlands. 'Poena' was selected as a single seedling in May 2004 based on branching habit, flowering time, flower size, no seed set and heat tolerance. Asexual reproduction by cuttings was first conducted in August 2004 in Enkhuizen, The Netherlands.

Tests and Trials: Trials for 'Poena' were conducted in a polyhouse during the spring of 2009, in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings transplanted into 11 cm pots on May 6, 2009. Observations and measurements were taken from 10 plants of each variety on June 2, 2009. All colour determinations were made using the 2001 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Poena'

	'Poena'	'Sunmaricorapi'*	'USBENAL20'*
<i>Plant width (cm)</i>			
mean	28.4	29.9	36.5
std. deviation	3.53	3.88	6.39
<i>Leaf width (cm)</i>			
mean	18.7	23.7	18.7
std. deviation	2.58	3.89	2.11
<i>Colour of upper side of corolla (RHS)</i>			
newly opened	N66A	N/A	more pink than N74A with N74B at apex
fully opened	N66B	58B with 58C at margin	N74B with 73A at apex

*reference varieties



Poena

Sunmaricorapi

USBENAL20

Temari Bright Pink

Superbena Pink Shades

Verbena: 'Poena' (left) with reference varieties 'Sunmaricorapi' (center) and 'USBENAL20' (right)

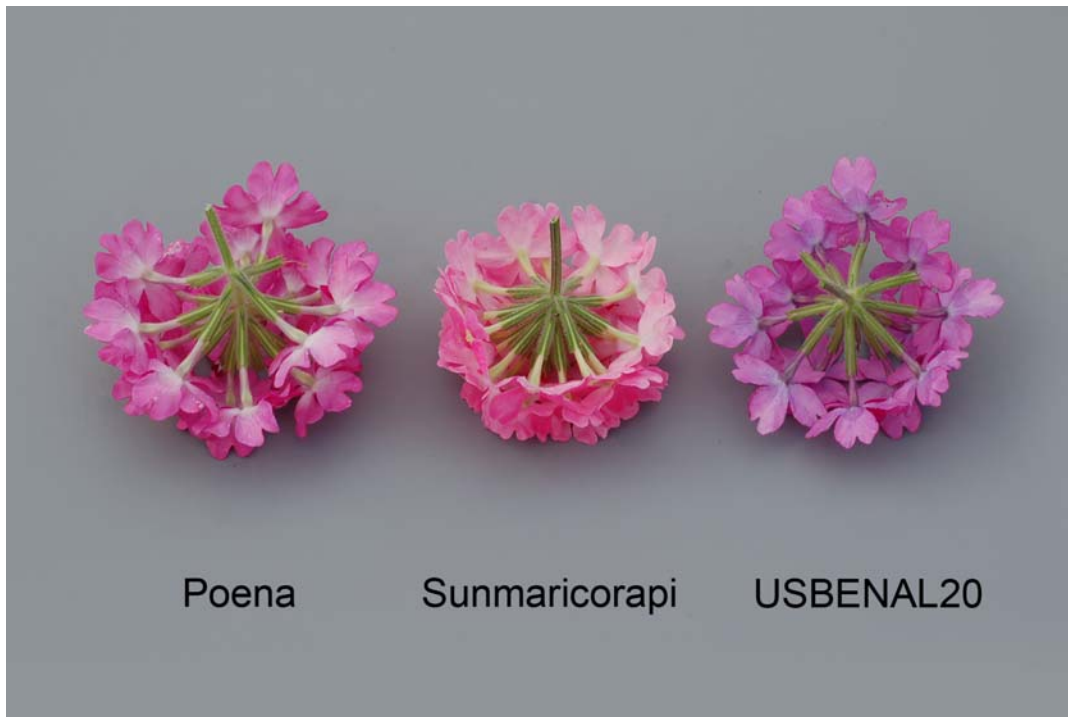


Poena

Sunmaricorapi

USBENAL20

Verbena: 'Poena' (left) with reference varieties 'Sunmaricorapi' (center) and 'USBENAL20' (right)



Verbena: 'Poena' (left) with reference varieties 'Sunmaricorapi' (center) and 'USBENAL20' (right)

Proposed denomination:	'SCY'
Application number:	08-6461
Application date:	2007/11/19 (priority claimed)
Applicant:	Syngenta Crop Protection AG, Basel, Switzerland
Agent in Canada:	BioFlora Inc., St. Thomas, Ontario
Breeder:	Henricus G.W. Stemkens, Syngenta Seeds B.V., Enkhuizen, The Netherlands

Varieties used for comparison: 'Sunmaribisu' (Temari Red with White Eye) and 'Balazcherd' (Aztec Cherry Red)

Summary: *The plants of 'SCY' are narrower than those of both reference varieties. 'SCY' has leaves with lobed divisions and crenate margin incisions while both reference varieties have leaves with no divisions and dentate margin incisions. The corolla of 'SCY' is smaller than that of both reference varieties. 'SCY' has strong undulation of the corolla lobe margin while 'Balazcherd' has weak to medium undulation of the margin.*

Description:

PLANT: upright to semi-upright growth habit

STEM: dense pubescence, medium green, anthocyanin ranging from medium to strong

LEAF BLADE: ovate, cuneate base, lobed divisions present, crenate margin incisions, medium green on upper side, no anthocyanin colouration on upper side

INFLORESCENCE: broad ovate in profile

CALYX: no anthocyanin colouration

COROLLA: one coloured on upper side, even colour pattern, red (RHS 45B) on upper side, apex fading to red to dark pink red (RHS 46C-D) with age on upper side, dark pink red (RHS 53D) on lower side, weakly fading colour with age

COROLLA LOBES: touching, incurved along longitudinal axis, strong undulation of margin

COROLLA TUBE: white tip of protruding hairs

COROLLA EYE: medium to large, whitish green

Origin and Breeding: 'SCY' originated from a controlled cross pollination of the female parent C0811-2 with pollen from the male parent D1473-2. The new variety was bred and developed by the breeder H. Stemkens, in August 2002, in

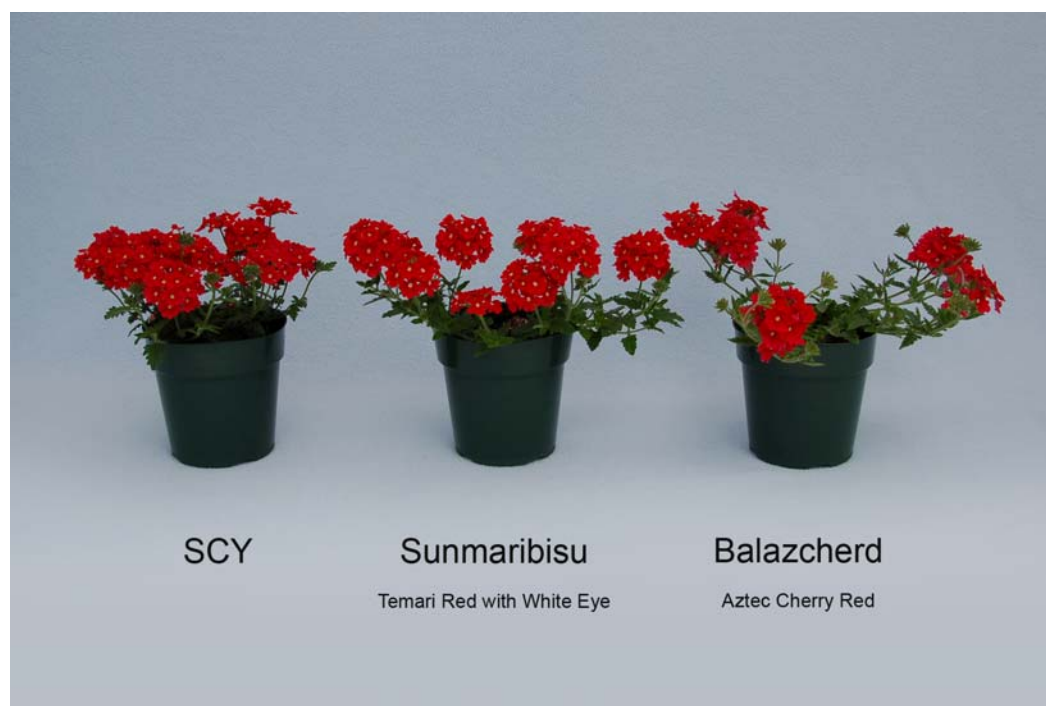
Enkhuizen, The Netherlands. A single seedling was selected in May 2003 based on flowering time, branching characteristics, sterility, flower size, heat tolerance and mildew tolerance. Asexual reproduction by cuttings of the variety was first conducted in September 2003, in Enkhuizen, The Netherlands.

Tests and Trials: Trials for ‘SCY’ were conducted in a polyhouse during the spring of 2009, in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings transplanted into 11 cm pots on May 6, 2009. Observations and measurements were taken from 10 plants of each variety on June 2, 2009. All colour determinations were made using the 2001 Royal Horticultural Society (RHS) Colour Chart.

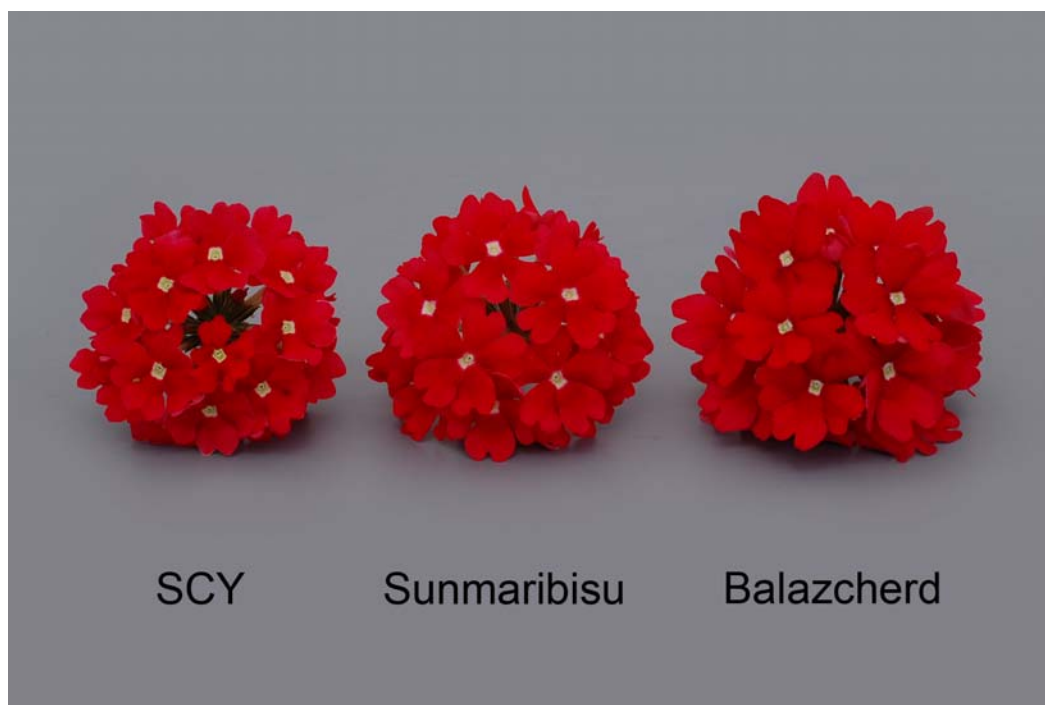
Comparison table for ‘SCY’

	‘SCY’	‘Sunmaribisu’*	‘Balazcherd’*
<i>Plant width (cm)</i>			
mean	19.6	31.2	31.4
std. deviation	2.90	2.17	2.11
<i>Corolla diameter (cm)</i>			
mean	20.6	24.6	24.8
std. deviation	0.70	0.97	2.25

*reference varieties



Verbena: ‘SCY’ (left) with reference varieties ‘Sunmaribisu’ (center) and ‘Balazcherd’ (right)



Verbena: 'SCY' (left) with reference varieties 'Sunmaribisu' (center) and 'Balazcherd' (right)



Verbena: 'SCY' (left) with reference varieties 'Sunmaribisu' (center) and 'Balazcherd' (right)

Proposed denomination: 'Sunmarimura'
Trade name: Temari Blue
Application number: 08-6182
Application date: 2008/02/21
Applicant: Suntory Flowers Limited, Tokyo, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Tomoya Misato, Yamanashi, Japan

Variety used for comparison: 'Lan Bule' (Lanai Blue)

Summary: *The inflorescences of 'Sunmarimura' are larger than those of 'Lan Bule'. 'Sunmarimura' has free corolla lobes with weak undulation of the margin while 'Lan Bule' has touching to overlapping corolla lobes with medium undulation of the margin. The upper side of the corolla of 'Sunmarimura' differs in colour from that of 'Lan Bule'. 'Sunmarimura' has no eye on the corolla while 'Lan Bule' has a small to medium sized eye.*

Description:

PLANT: creeping growth habit

STEM: dense pubescence, medium green, medium anthocyanin colouration

LEAF BLADE: ovate, cuneate base, no divisions, crenate margin, medium green on upper side, no anthocyanin colouration on upper side

INFLORESCENCE: broad ovate in profile

CALYX: no anthocyanin colouration

COROLLA: one coloured on upper side, shaded pattern, colour gets lighter towards apex of lobes, dark violet (RHS 83A-B) on upper side when newly opened, violet (RHS N87A) on upper side when fully opened, violet (RHS N87C) on lower side when newly opened, blue violet (RHS N88C-D) on lower side when fully opened, strongly fading colour with age

COROLLA LOBES: free corolla lobes, incurved along longitudinal axis, weak undulation of margin

COROLLA TUBE: white tip of protruding hairs

COROLLA EYE: absent to very small, whitish green

Origin and Breeding: 'Sunmarimura' originated from a cross of the female parent variety 'VW337' and the male parent variety 'H-31' conducted in June 2005, at Higashiomi-shi, Shiga, Japan. In January 2006, 48 seedlings were obtained from the cross. The seedlings were propagated by cuttings and grown in pots through to May 2006. One seedling was then selected from these plants based on flower colour and growth habit and named 'Sunmarimura'.

Tests and Trials: Trials for 'Lan Bule' were conducted in a polyhouse during the spring of 2009, in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings transplanted into 11 cm pots on May 6, 2009. Observations and measurements were taken from 10 plants of each variety on June 2, 2009. All colour determinations were made using the 2001 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Sunmarimura'

	'Sunmarimura'	'Lan Bule'*
<i>Inflorescence diameter (cm)</i>		
mean	7.1	6.5
std. deviation	0.43	0.32
<i>Colour of upper side of corolla (RHS)</i>		
newly opened	83A-B	N81A with tones of N78A
fully opened	N87A	darker than N82A

*reference variety



Verbena: 'Sunmarimura' (left) with reference variety 'Lan Bule' (right)



Verbena: 'Sunmarimura' (left) with reference variety 'Lan Bule' (right)



Sunmarimura

Lan Bule

Verbena: 'Sunmarimura' (left) with reference variety 'Lan Bule' (right)
